

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Austin Caperton, Cabinet Secretary www.dep.wv.gov

Friday, July 13, 2018 WELL WORK PERMIT Horizontal 6A / New Drill

TUG HILL OPERATING, LLC 380 SOUTHPOINTE BOULEVARD, PLAZA II SUITE 200 CANNONSBURG, PA 15317

Re: Permit approval for TEN HIGH 1S-15HU 47-051-02027-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin

Chief

Operator's Well Number: TEN HIGH 1S-15HU

Farm Name: LAWRENCE & SHIRLEY CON

U.S. WELL NUMBER: 47-051-02027-00-00

Horizontal 6A New Drill Date Issued: 7/13/2018

API Number: 51-02027

PERMIT CONDITIONS

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled Water Well Regulations, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number: 51-03-027

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, cessation of drilling, sending an email to DEPOOGNotify@wv.gov.



west virginia department of environmental protection

Oil and Gas Conservation Commission 601 57th Street SE, Charleston, WV 25304 304-926-0499 Ext 1274

Barry K. Lay, Chairman dep.wv.gov

June 21, 2018

Department of Environmental Protection Office of Oil and Gas Charleston, WV 25304

RE: Application for Deep Well Permit - API #47-051-02027

COMPANY: Tug Hill Operating, LLC

FARM: Tug Hill Operating, LLC Ten High 1S-15HU

COUNTY: Marshall DISTRICT: Meade QUAD: Glen Easton 7.5'

The deep well review of the application for the above company is **Approved to drill to Trenton for Point Pleasant completion.**

The applicant has complied with the provision of Chapter 22C-9, of the Code of West Virginia, nineteen hundred and thirty-one (T931), as amended, Oil and Gas Conservation Commission as follows:

- 1. Comments to Notice of Deviation filed? No
- Provided a certified copy of duly acknowledged and recorded consent and easement form from all surface owners? Yes
- Provided a tabulation of all deep wells within one mile of the proposed location, including the API number of all deep wells: Heaven Hill 3-8HU 47-051-01967; Ten High 1N-11HU 47-051-01960; Ten High 1N-12HU 47-051-01961; Ten High 1N-13HU 47-051-01965
- 4. Provided a plat showing that the proposed location is a distance of 400+ feet from the nearest lease line or unit boundary and showing the following wells drilled to or capable of producing from the objective formation within 3,000 feet of the proposed location.

Sincerely,

Susan Rose Administrator WW-6B (04/15)

API NO. 47-051
OPERATOR WELL NO. Ten High 1S-15HU
Well Pad Name: Ten High

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operato	r: Tug Hill C	Operating, Ll	_C	494510851	Marshall	Meade	Glen Easton 7.5'
, 1				Operator ID	County	District	Quadrangle
2) Operator's W	ell Number: _	Ten High 1S	-15HU	Well Pad	Name: <u>Ten</u> ⊢	ligh	
3) Farm Name/S	Surface Owner	r: Lawrence & Sh	irley Conl	de, ests Public Road	d Access: She	pherd Ride	ge Lane CR 21/9
4) Elevation, cu	rrent ground:	1310'	Ele	evation, proposed j	post-construction	on: 1310'	
5) Well Type	_	(Unde			
	Other						
	(b)If Gas S	hallow _		Deep	X		
	F	Iorizontal X	, 	<u></u>		N	(28/18
6) Existing Pad:	Yes or No Y	es			-	03	10 1
				ipated Thickness a 19' - 11,728' thickness			e of approx. 9500 psi
8) Proposed Tot	al Vertical De	epth: 11,878	<u>'</u>				
9) Formation at			enton				
10) Proposed To	otal Measured	Depth: 21,	188'				
11) Proposed H	orizontal Leg	Length: 8,5	68'				
12) Approximat	e Fresh Water	r Strata Depth	ıs:	70', 1026'			
13) Method to I	Determine Fre	sh Water Dep	ths:	Offset well reports or no	ticeable flow at the	e flowline or wi	hen need to start soaping
14) Approximat	e Saltwater D	epths: 2,167	7'				
15) Approximat	te Coal Seam	Depths: Sew	rickly (Coal - 935' and Pi	ttsburgh Coal	- 1020'	
16) Approximat	te Depth to Po	ssible Void (coal mi	ne, karst, other): _	None anticipat	ted	
17) Does Propo directly overlying					No		
(a) If Yes, pro	vide Mine Inf	o: Name:	Mars	hall County Coal	Co. / Marshall	County M	ine
(), b.c		Depth:	1020	' TVD and 290' su	ubsea level		
		Seam:	Pitts	ourgh #8			
		Owner:	Murra	ay Energy / Cons	olidated Coal	Co.	

RECEIVED Office of Oil and Gas

APR 9 2018

API NO. 47- 051 - 0 0 201

OPERATOR WELL NO. Ten High 1S-15HU

Well Pad Name: Ten High

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	30"	NEW	BW	BW	120'	120'	259FT^3(CTS)
Fresh Water	20"	NEW	J55	106.5#	1,086'	1,086'	1,877ft^3(CTS)
Coal	13 3/8"	NEW	J55	54.5#	2,800'	2,800'	1,975ft^3(CTS)
Intermediate	9 5/8"	NEW	HPP110	47#	10,463'	10,463'	3,416ft^3(CTS)
Production	5 1/2"	NEW	P110	23#	21,187'	21,187'	5,032ft^3(CTS)
Tubing	2 7/8"	NEW	P110	6.5#		11,488'	
Liners							

Ju /2= /18

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	30"	36"	1.0	2,333	1,866	CLASS A	1.2
Fresh Water	20"	26"	.5	2,410	1,928	SEE #24	1.2
Coal	13 3/8"	17 1/2"	.38	2,740	2,192	SEE#24	1.2
Intermediate	9 5/8"	12 1/4"	.472	10,730	6,968	SEE#24	1.99
Production	5 1/2"	8 1/2"	.415	16,510	10,864	SEE#24	1.18
Tubing	2 7/8"			14,530	11,624		
Liners							

PACKERS

Kind:	N/A	
Sizes:	N/A	
Depths Set:	N/A	

WW-6B	
(10/14)	

API NO. 47- 051 OPERATOR WELL NO. Ten High 1S-15HU
Well Pad Name: Ten High

JU28/18

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill through the Point Pleasant and TD Pilot Hole 150' into the Trenton. Log vertical section and run a solid cement plug back to proposed KOP. Drill curve and lateral per proposed well plan, run and cement production casing. Perform CBL from 60 deg to surface, make cleanout run, and stimulate.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well to be completed with approximately 21,420,000 lb proppant and 331,169 bbl of water. Max rate = 80 bpm; max psi = 9,000#.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 16.2
- 22) Area to be disturbed for well pad only, less access road (acres): 5.92
- 23) Describe centralizer placement for each casing string:

Will run 3 centralizers on surface casing at equal distance. Intermediate will have 1 centralizer every third joint. Production casing will have one centralizer every third joint in lateral, one centralizer every joint through curve, one centralizer every third joint to surface.

24) Describe all cement additives associated with each cement type:

*See Attachment

25) Proposed borehole conditioning procedures:

Will circulate a minimum of 3 hours at TD, short trip to curve, circulate bottoms up, check for flow, POOH

RECEIVED Office of Oil and Gas

APR 9 2018

*Note: Attach additional sheets as needed.

WV Department of Environmental Protection

Conductor and Fresh Water Casing Cement:

Premium NE-1 + 2% CaCl

- -Premium NE-1 Class A Portland API Spec
- -CaCl Calcium Chloride

Coal Casing Cement:

Premium NE-1 + 1.5% CaCL + Flake

- -Premium NE-1 Class A Portland API spec
- -CaCl Calcium Chloride
- -CelloFlake

Intermediate Casing Cement:

<u>Lead</u>: Premium NE-1 + 5% BA-90 + .85% R-3 + 3% KCl + .75 gals/100sk FP-13L + 1% MPA-170

<u>Tail</u>: Premium NE-1 +.1% R-3 + 5% KCl + 1% CD-32 + .4% FL-52 +.2% ASA-301 + .6% Sodium Metasilicate

- -Premium NE-1 Class A Portland API spec
- -BA-90 Gas Migration Mitigator
- -R-3 Cement Retarder
- -KCI Potassium Chloride
- -FP-13L Anti-Foaming Agent
- -MPA-170 Gelling Agent
- -CD-32 Dispersant
- -FL-52 Fluid Loss Agent
- -ASA-301 Free Water Control Agent
- -Sodium Metasilicate Extending Agent

Kick Off Plug:

Class H Cement + 1% CD-32 + .7% Sodium Metasilicate + .1% R-3 + .75 gal/100sk FP-13L

- -CD-32 Dispersant
- -Sodium Metasilicate Extending Agent
- -R-3 Cement Retarder
- -FP-13L Anti-Foaming Agent

Production Casing Cement:

Lead: 50:50 (Poz:Class H) + .3% R-3 + .3% MPA-250 + .75 gal/100sk FP-13L

<u>Tail</u>: 25:75 (Poz:Class H) + .3% R-3 + .3% MPA-250 + .375 gal/100sk FP-13L

- -R-3 Cement Retarder
- -MPA-250 Gelling Agent
- -FP-13L Anti-Foaming Agent

RECEIVED
Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection 30" Csg @ 120' MD / 120' TVD

20" Csg @

1,175' MD / 1,086' TVD

13 3/8" Csg @

2,800' MD / 2,800' TVD

9 5/8" Csg @ 10,463' MD / 10,450' TVD

KOP@ 10,988' ft MD

WELL NAME: Ten High 15-15HU STATE: West Virginia COUNTY:

Marshall

DISTRICT: Meade DF Elev:

1,310 21.188 GL Elev: 1,310

TH Latitude: 39.8067934

TH Latitude: 39.8067334
TH Longitude: -80.68092341
BH Latitude: 39.784544
BH Longitude: 80.663594

FORMATION TOP	S
Formation	Depth TV
Deepest Fresh Water	1,026
Sewickley Coal	935'
Pittsburgh Coal	1,020
Big Lime	2,049
Berea	2,673
Tully	6,6D6°
Marcellus	6,713
Onondaga	6,765
Salina	7,497
Lockport	8,562
Utica	11,413'
Point Pleasant	11,589
Landing Depth	11,635'
Trenton	11,728
Pilot Hole TD	11,878

			CASING SUM	MARY			
Туре	Hole Size (in)	Csg Size (in)	Depth (MD)	Depth (TVD)	Weight (lb/ft)	Grade	Top of Ceme
Conductor	36	30	120'	120'	BW	BW	Surface
Surface	26	20	1,175'	1,086'	106.5	J55	Surface
Intermediate 1	17 1/2	13 3/8	2,800'	2,800'	54.5	J55	Surface
Intermediate 2	12 1/4	95/8	10,463'	10,450'	47	HP110	Surface
Production	81/2	5 1/2	21,188'	11,784	23	HCP110	Surface

	CEMENT SUN	IMARY	DRILLING DETAILS		
	Sacks	Class	Density	Fluid Type	Centralizer Notes
Conductor	338	A	15.6	Air	None
Surface	2,025	A	15.6	Air	3 Centralizers at equal distance
Intermediate 1	2,140	A	15	Air	1 Centralizer every other jt
Intermediate 2	2,787	А	14.5	Air	1 Centralizer every other jt
Production	4,335	А	15	Air / SOBM	1 every other joint in lateral; 1 per joint in curve; 1 every other jt to sfc

Pilot Hole PH TD @ 11,878

Landing Point @ 12,620' MD / 11,635' TVD

PH TVD = 150' below Trenton Top

RECEIVED Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection

Lateral TD @ 21,188' ft MD

11,784 ft TVD



Tug Hill Operating, LLC Casing and Cement Program

Ten High 1S-15HU

	Casing						
	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up		
Conductor	30"	BW	36"	120	CTS		
Surface	20"	J55	26"	1,086'	CTS		
Intermediate 1	13 3/8"	J55	17 1/2"	2,800'	CTS		
Intermediate 2	9 5/8"	HP110	12 1/4"	10,453'	CTS		
Production	5 1/2"	HCP110	8 1/2"	21,188'	CTS		

Cement

Surface:	Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water - Surface Cement mixed at 15.6 ppg, Y=1.2

Intermediate 1:	Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.2

Intermediate 2:	Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water - Intermediate Cement mixed at 15.6 ppg, Y=1.99
-----------------	--

50:50 Poz: Premium NE-1 + .1% bwoc ASA-301 + 60lb/sk ASCA-1 + .35% bwoc BA-10A + .25% bwoc MPA-Production: 170, 44 lb sack + .5% bwoc R-3 + .75 gals/100sk FP-13L — Production Cement mixed at 15.2ppg, Y = 1.18

RECEIVED Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection

Operator's Well No. Ten High 1S-15HU

Area of Review

Sources of information to Support 35CSR8 - 5.11: 9.3 et seq.

Description of process to identify potential pathways for well communication during hydraulic fracturing activities.

Data Sources Reviewed:

- 1. IHS Well Data service: Public nationwide data service that pulls directly from State agency Oil and Gas databases
- 2. Farm Maps
- 3. Topo Maps: Recent and older (contact WVGES)
- 4. Check with DPS

Contacted Devin Ducoeur 724-705-0444, dducoeur@dpslandservices.com DPS GIS (12/19/2016) to have him make maps of the wellbores with his information. DPS utilizes WVGES maps for their mapping seems it as the best publicly available. See attached map he provided.

Request maps for:

- 1. Wellbore with IHS All Wells Layer
- 2. Map with Farm lines overlain and any well spots identified on Farm Maps
- 3. More recent (1970s vintage) topos and older topos

RECEIVED Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection

Discussion with Phil Dinterman WVGES GIS Department (7/15/2016)

- WVGES has plotted every well spot they have access to and are aware of with that contains a
 coordinate. 30000, 70000, and 90000 series wells are available via the WVGES online map. Some
 locations aren't great due to vintage and manipulation of maps through time
- 30000 series any well drilled prior to 1929 APIs were not assigned to original wells
- 70000 series Well spots pulled from old Farm line maps that the WVGES has access to
- 90000 series Any sources that the WVGES has access that shows a well spot but has no additional supporting information. DEP does not have 90000 series on their maps.
- There can be duplication between wells in the 3 series
- Phil indicated that other Operators are providing a screenshot of the WVGES map with their planned well and using that for permits

Page 1 of 5

Permit well - Ten High 1S-15HU

Wells within 500' Buffer

Note: Well spots depicted on Area of Review map (page 3) are derived from State held coordinates. The spots may differ from those depicted on the Well Plat because the Plat locations represent actual field surveyed locations. Please refer to the Plat for surveyed well spots

Is this well "known or reasonably expected to penetrate a depth that could

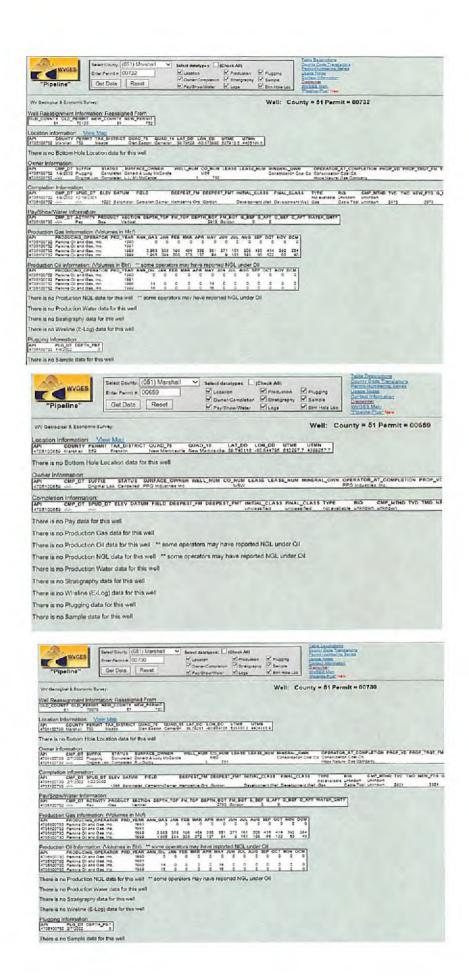
API Number	Operator Name	Total Depth	Perforated Fms	Producing zones not perforated	be within the range of Fracture propagation"? 1000' is max limit I would assign to wells that might be within in range of fracture propagation	Comments
4705101934	Tug Hill Operating	6737' TVD planned	None	None	No, Permitted Marcellus well	Permitted Marcellus well. Not yet drilled
4705101944	Tug Hill Operating	6737' TVD planned	None	None	No, Permit submitted Marcellus well	Permitted Marcellus well. Not yet drilled
	Tug Hill Operating	6737' TVD planned	None	None	No, Permit submitted Marcellus well	Permitted Marcellus well. Not yet drilled
4705130097	I.H. Beren	3018	Gordon SS	Unknown	No, TVD of 3018' means that this well is not within the range of fracture propagation from a Marcellus well	Well was plugged 5/28/1939
	Consolidated Coal				No, TVD of 2973' means that this well is not within the range of fracture propagation	
4705100732	Company	2973	Gordon SS	Unknown	from a Marcellus well Unknown but unlikley, most	Well was plugged 1/9/2002
4705170659	Unknown	Unknown	Unknown	Unknown	likley an old shallow well	State well records are incomplete
4705100730	Consolidated Coal Company	2821	. Gordon SS	Unknown	No, TVD of 2821' means that this well is not within the range of fracture propagation from a Marcellus well	Well was plugged 2/7/2002
4705100854	Consolidated Coal Company	3645	Gordon SS	Unknown	No, TVD of 2645' means that this well is not within the range of fracture propagation from a Marcellus well	Well was plugged 9/12/2000

"Pipeline"	Snar Perna n Get Data	(051) Marshall 20097 Reset	Serect natrypes: [1] **Superior **Dome-Domelsion **Enythmodulers**	P Propurer	Ø Rigging Ø Bangle Ø Binchica Las	Intle Destructor Louise Code Transit Pares Temperatural United State Louise Transit Louise Transit Louise Transit Pares Transit	Cos
Wy Sealogical & Economic	Berety				Well: C	ounty = 51 Perm	t = 30097
Location Information	View Man	A STATE OF THE PARTY.			-		
APR COUNTY PE 4700130067 Maranal 20		Gian Easien Car	AD 15 LAT DO LON OB MATER \$0.789045 -80.073245	UTME UTM			
There is no Bottom Ho	e Location data	for this well					
Owner Information			WELL HUM CO NUM LE	.10	4 F 4 FF 44 PA	MINERAL DWN	SPERATOR AT COMPLETION PRO
	pre Les Dimples		135 J.S.	C Time (line Mr		State Hereidiern Miler	Base, I. H.
Completion Information	9						
API CUP DT SP	UD DE BLEV DAT	UM FIELD	DEEPEST_PM DEEPE		CLASS FINAL	CLASS TYPE RIG	CMP_MTHD TVD TMD HEW_FE
4708130097 July	1225 0-9	of Level Commons	Plant Chable Contra	Dayer	pren well units	Miller Di Cable 18	O PAPERT BUIL BY
Pay/ShowWater Infor	nation:						- Alleria
API CMP BY AC	TIMITY PRODUCT	SECTION DEFIN	TOP EM_TOP CEPTH_BOT I	FM_BOT SHISHADE CONST		O BEF G AFT WATER	GNTY
4705130097 Min Pa		Vetice.	2002	Gerdon	0 0		
There is no Production	Gas data for this	ilev a					
	-		erators may have reported	A ROOM COMMENT			
	Oil data for this						
			perators may have report	and NGL under	101		
	NGL duta for th	s well "some o					
There is no Production							
There is no Production There is no Production	Water data for t						
There is no Production There is no Production Strategraphy Informatic	Water data for t	nis well		*G744811 *C	February Anama	IV ELEV BARN 1	
There is no Production There is no Production Stratigraphy Information API SUPPIX 473513000** On no Lee	Water data for to n. Personery to a	FIL GUALITY DE	PTH_TOP DEPTH_DUALITY	5 84	4907459	1205 Ground Level	
There is no Production There is no Production Stratigraphy Informatic APPL SUFFIX 47811000F One Los 47811000F One Los	Water data for to n. Fee Penaltry tea Production to a	FM GUALITY DE Wal Rasord	1210 Rescination 1210 Rescinable	1 74	*******	1205 Ground Level	
There is no Production There is no Production There is no Production Strategraphy Informatic APP SUPPLY 4781100007 Dunnal List 4788110007 Dunnal List 4788110007 Dunnal List 4788110007 Dunnal List 4788110007 Dunnal List	Water data for to FM Denoting the Floatings too reasoning the ling Dun Eart Senes (Linder)	FAR CUALITY DE Wel Report Wel Report Wel Report	625 Restricts 1218 Restricts 1545 Restricts 1600 Restricts	1 3	4907459	1205 Grand Level 1205 Grand Level 1205 Grand Level 1205 Grand Level	
There is no Production There is no Production Stratigraphy Informatic API SUPPIX 4793 100047 Organica	Water data for to FM Denoting the Postury the Mandong Builing Dun- Bat Sance (µnom) Mandon	FM_OUALITY DE Wall Report Wall Report Wall Report Wall Report	020 Resolvable 1210 Resolvable 1540 Resolvable 1000 Resolvable 2019 Resolvable	1 3	******	1200 Grandlers 1200 Grandlers 1200 Grandlers 1200 Grandlers 1200 Grandlers	
There is no Production There is no Production Stratigraphy Information Article 1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 -	Water data for the first transfer data for the first transfer to the first transfer	PM OUALITY DE Wel Record Wel Record Wel Record Wel Record Wel Record Wel Record Wel Record	026 Resonate 1018 Resonate 1010 Resonate 1000 Resonate 2018 Resonate 2018 Resonate 2018 Resonate 2018 Resonate	2	####### ####### ####### #######	1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd	
There is no Production There is no Production There is no Production Strategraphy informats APPL SUPPLY APPLICATE APPLICATE SUPPLY APPLICATE APPLICATE SUPPLY APPLICATE APPLICAT	Water data for the first transfer data for the first transfer to the first transfer	FM_QUALITY DE Wal Record Wal Record Wal Record Wal Record Wal Record Wal Record Wal Record	525 Responsors 5216 Responsors 1540 Responsors 1600 Responsors 2018 Responsors 2018 Responsors	2	107104 1107104 1107104	1200 Grand Level 1200 Grand Level 1200 Grand Level 1200 Grand Level 1200 Grand Level 1200 Grand Level 1200 Grand Level	
There is no Production There is no Production Stratigraphy Information Article 1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 4781-1999 - 1999 -	Water data for to Ele Bernsler see Brandler see Brandler see Unioning Stating Dun Bat Sance (Union) Marion Big Lima Big Lima Big Home Big	Fig. COALTRY DE Wall Record Wall Record Wall Record you Record Wall Record Wall Record Wall Record Wall Record Wall Record Wall Record	026 Resonate 1018 Resonate 1010 Resonate 1000 Resonate 2018 Resonate 2018 Resonate 2018 Resonate 2018 Resonate	2	####### ####### ####### #######	1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd	
There is no Production There is no Production Strategraphy Information APP SUPPER APPLICATION OF OUR IN- APPLICATION OUR IN- APPLICATION OF OUR IN- APPLICATION OUR IN- APPLICATION OUR	Water data for to Ele Bernsler see Brandler see Brandler see Unioning Stating Dun Bat Sance (Union) Marion Big Lima Big Lima Big Home Big	Fig. COALTRY DE Wall Record Wall Record Wall Record you Record Wall Record Wall Record Wall Record Wall Record Wall Record Wall Record	026 Resonate 1018 Resonate 1010 Resonate 1000 Resonate 2018 Resonate 2018 Resonate 2018 Resonate 2018 Resonate	2	####### ####### ####### #######	1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd	
There is no Production There is no Production There is no Production Strategraphy Information 1997 1997 1997 1997 1997 1997 1997 1997	Water data for to EBB Developy see Paradery see Various the Direct Various the Sig Direct Various the Sig Direct Marion Big Lime Big Lime Big Lime Carego -Log) data for th	Fig. COALTRY DE Wall Record Wall Record Wall Record you Record Wall Record Wall Record Wall Record Wall Record Wall Record Wall Record	026 Resonate 1018 Resonate 1010 Resonate 1000 Resonate 2018 Resonate 2018 Resonate 2018 Resonate 2018 Resonate	2	####### ####### ####### #######	1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd	
There is no Production There is no Production There is no Production Strategraphy Information (FIG. 1900) The relation Fig. 1900 The rela	Water data for to EBB Developy see Paradery see Various the Direct Various the Sig Direct Various the Sig Direct Marion Big Lime Big Lime Big Lime Carego -Log) data for th	Fig. COALTRY DE Wall Record Wall Record Wall Record you Record Wall Record Wall Record Wall Record Wall Record Wall Record Wall Record	026 Resonate 1018 Resonate 1010 Resonate 1000 Resonate 2018 Resonate 2018 Resonate 2018 Resonate 2018 Resonate	2	####### ####### ####### #######	1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd 1200 Grandlerd	

RECEIVED Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection



RECEIVED Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection

Page 3 of 5

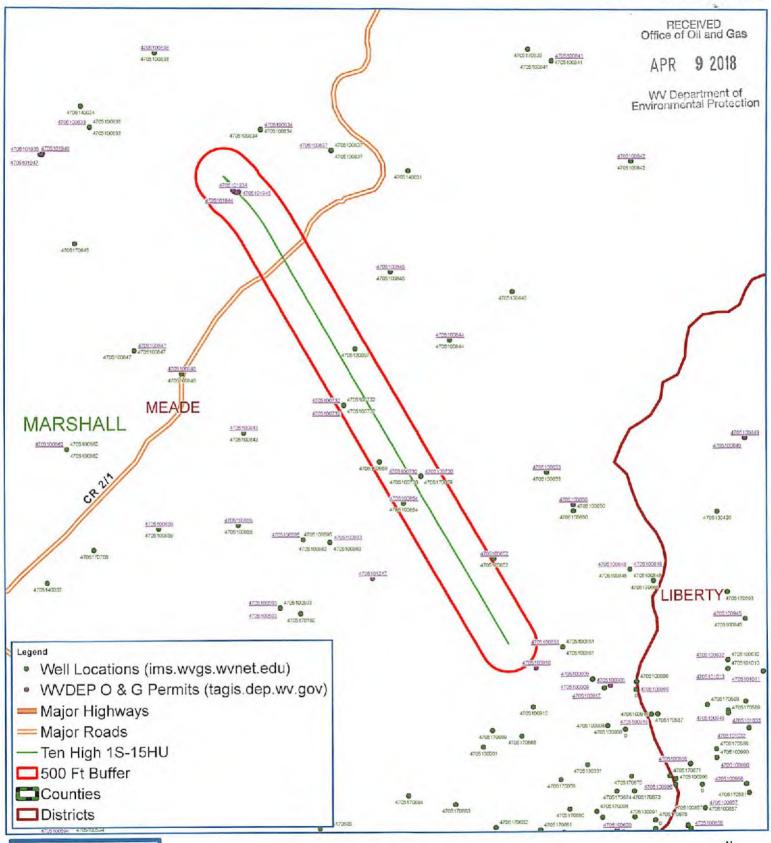


RECEIVED Office of Oil and Gas

APR 9 2018

WV Department of Environmental Frotection

Page 4 of 5

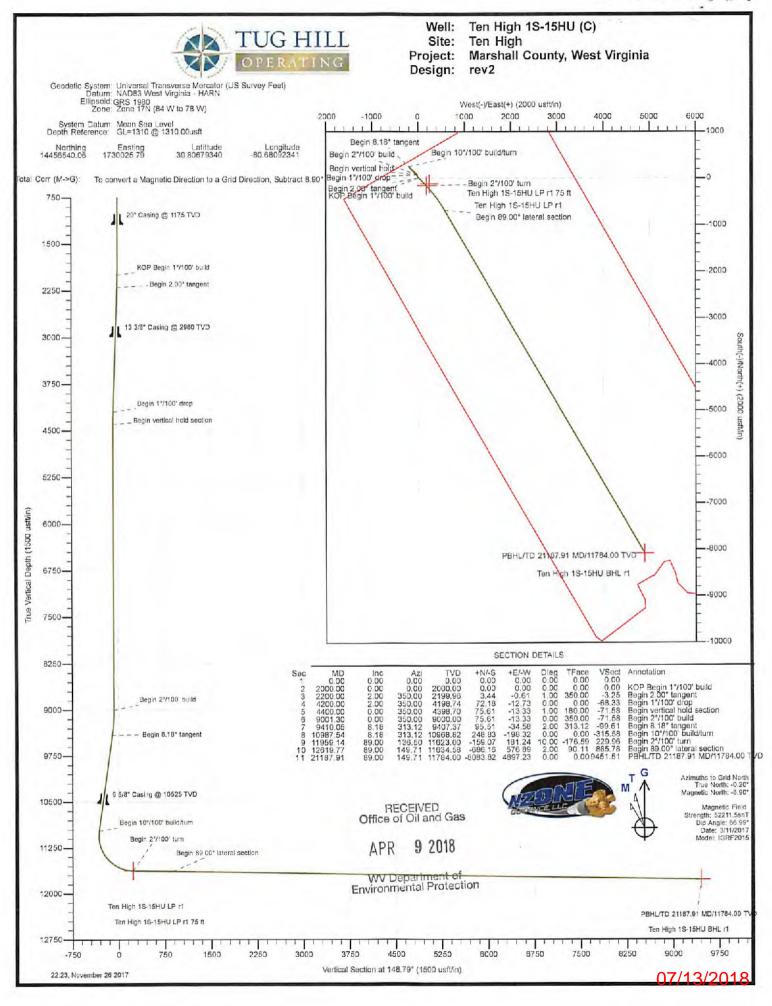




Map Created August 10, 2017 Map Current As Of August 10, 2017 Ten High 1S-15HU Meade District Marshall County, WV











Database: Company: Project:

DB_Jul2216dt_v14 Tug Hill Operating LLC

Marshall County, West Virginia Site: Ten High

Well: Wellbore: Ten High 1S-15HU (C) Original Hole

Design: rev2 Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method:

Well Ten High 1S-15HU (C) GL=1310 @ 1310.00usft GL=1310 @ 1310.00usft

Minimum Curvature

Project

Marshall County, West Virginia

Map System: Geo Datum: Map Zone:

Universal Transverse Mercator (US Survey Feet)

NAD83 West Virginia - HARN

Zone 17N (84 W to 78 W)

System Datum:

Mean Sea Level

Site

Site Position: From:

Lat/Long

Ten High

Northing: Easting:

14,456,545.60 usft 1,730,001.41 usft

Latitude: Longitude:

39.80680885 -80,68101011

Position Uncertainty:

0.00 usft

Slot Radius:

13-3/16 "

Grid Convergence:

0.20

Well **Well Position** Ten High 1S-15HU (C)

+N/-S +E/-W 0.00 usft 0.00 usft 0.00 usft

Northing: Easting:

Wellhead Elevation:

14,456,540.06 usft 1,730,025.78 usft

-8.70

0.00 usft

Latitude: Longitude: **Ground Level:**

39.80679340 -80.68092341 1,310.00 usft

Position Uncertainty

Model Name Magnetics

IGRF2015

Original Hole

Sample Date 3/11/2017 Declination

Dip Angle (°)

Field Strength (nT)

52,211.51726282

Design

Wellbore

rev2

Audit Notes:

Version:

Phase:

PLAN

Tie On Depth: +E/-W

Remarks

0.00 Direction (°)

148.79

66.99

Vertical Section: Depth From (TVD) +N/-S (usft) (usft) (usft) 0.00 0.00 0.00

Plan Survey Tool Program

11/26/2017

Depth From Depth To (usft)

0.00

(usft) Survey (Wellbore) 21,187.91 rev2 (Original Hole)

Tool Name MWD

MWD - Standard

Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection





Database: Company: Project: DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia

Site: Ten High

Well: Ten High 1S-15HU (C)
Wellbore: Original Hole

Design: rev2

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ten High 1S-15HU (C) GL=1310 @ 1310.00usft GL=1310 @ 1310.00usft

Grid

Minimum Curvature

an Sections										
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0,00	0.00	0.00	
2,200.00	2.00	350.00	2,199.96	3.44	-0.61	1.00	1.00	0.00	350.00	
4,200.00	2.00	350.00	4,198.74	72.18	-12.73	0.00	0.00	0.00	0.00	
4,400.00	0.00	350.00	4,398.70	75,61	-13.33	1.00	-1.00	0.00	180.00	
9,001.30	0.00	350.00	9,000.00	75.61	-13.33	0.00	0.00	0.00	350.00	
9,410.05	8.18	313.12	9,407.37	95.51	-34.58	2.00	2.00	-9.02	313.12	
10,987.54	8.18	313.12	10,968.82	248.83	-198.32	0.00	0.00	0.00	0.00	
11,959.14	89.00	136,50	11,623.00	-159.07	181.24	10.00	8.32	-18.18	-176.59	Ten High 1S-15HU L
12,619.77	89.00	149.71	11,634.58	-686.16	576.89	2.00	0.00	2.00	90.11	
21,187,91	89.00	149.71	11,784.00	-8,083.82	4,897.23	0.00	0.00	0.00	0.00	Ten High 1S-15HU B

RECEIVED Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection



WV Department of Environmental Protection

DB_Jul2216dt_v14 Tug Hill Operating LLC Database: Company: Marshall County, West Virginia Project:

Ten High Site:

Ten High 1S-15HU (C) Well: Original Hole Wellbore:

rev2 Design:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method:

Well Ten High 1S-15HU (C) GL=1310 @ 1310.00usft GL=1310 @ 1310,00usft Grid Minimum Curvature

ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,456,540.06	1,730,025.78	39,80679340	-80.68092
100.00	0.00	0.00	100.00	0.00	0.00	14,456,540.06	1,730,025,78	39,80679340	-80.68092
200.00	0.00	0.00	200.00	0.00	0.00	14,456,540.06	1,730,025.78	39,80679340	-80.68092
300.00	0.00	0.00	300.00	0.00	0.00	14,456,540.06	1,730,025,78	39.80679340	-80.68092
400,00	0.00	0.00	400.00	0.00	0.00	14,456,540.06	1,730,025.78	39,80679340	-80,68092
500.00	0.00	0.00	500.00	0.00	0.00	14,456,540.06	1,730,025.78	39.80679340	-80,68092
600.00	0.00	0.00	600.00	0.00	0.00	14,456,540.06	1,730,025.78	39.80679340	-80.68092
700.00	0.00	0.00	700.00	0.00	0.00	14,456,540,06	1,730,025.78	39.80679340	-80.68092
800.00	0.00	0.00	800.00	0.00	0.00	14,456,540.06	1,730,025.78	39.80679340	-80.68092
900.00	0.00	0.00	900.00	0.00	0.00	14,456,540.06	1,730,025.78	39.80679340	-80.68092
1,000.00	0.00	0.00	1,000.00	0.00	0.00	14,456,540.05	1,730,025.78	39.80679340	-80.68092
1,100.00	0.00	0.00	1,100.00	0.00	0.00	14,456,540.06	1,730,025.78	39.80679340	-80.68092
	0.00	0.00	1,200.00	0.00	0.00	14,458,540.08	1,730,025.78	39.80679340	-80.68092
1,200.00							1,730,025.78	39.80679340	-80.68092
1,300.00	0.00	0.00	1,300.00	0.00	0.00	14,458,540.06			-80,68092
1,400.00	0.00	0.00	1,400.00	0.00	0.00	14,456,540.06	1,730,025.78	39.80679340	-80,68092
1,500.00	0.00	0.00	1,500.00	0.00	0.00	14,458,540,08	1,730,025.78	39.80679340	
1,600.00	0.00	0.00	1,600.00	0.00	0.00	14,456,540.06	1,730,025,78	39.80679340	-80.68092
1,700.00	0.00	0.00	1,700.00	0.00	0.00	14,458,540.06	1,730,025.78	39.80679340	-80.68092
1,800.00	0.00	0.00	1,800.00	0.00	0.00	14,456,540.06	1,730,025.78	39.80679340	-80,68092
1,900.00	0.00	0.00	1,900.00	0.00	0.00	14,456,540,06	1,730,025.78	39.80679340	-80,68092
2,000.00	0.00	0.00	2,000.00	0.00	0.00	14,456,540.06	1,730,025.78	39.80679340	-80,68092
KOP Beg	in 1º/100' bui	ld							
2,100.00	1.00	350.00	2,099.99	0.86	-0.15	14,456,540.92	1,730,025.63	39,80679576	-80.68092
2,200.00	2.00	350.00	2,199.96	3.44	-0.61	14,456,543.50	1,730,025.18	39.80680285	-80.68092
Begin 2.	00° tangent								
2,300.00	2.00	350.00	2,299.90	6.87	-1.21	14,456,546.94	1,730,024.57	39.80681229	-80.68092
2,400.00	2.00	350.00	2,399.84	10.31	-1.82	14,456,550,37	1,730,023.97	39.80682174	-80,68092
2,500.00	2.00	350.00	2,499.78	13.75	-2.42	14,456,553.81	1,730,023.36	39,80683118	-80.68093
2,600.00	2.00	350.00	2,599.72	17.18	-3.03	14,456,557.25	1,730,022.75	39.80684063	-80,68093
2,700.00	2.00	350.00	2,699.65	20.62	-3.64	14,456,560,69	1,730,022.15	39.80685007	-80,68093
2,800.00	2.00	350.00	2,799.59	24.06	-4.24	14,456,564.12	1,730,021.54	39.80685951	-80,68093
2,900.00	2.00	350.00	2,899.53	27.50	-4.85	14,456,567.56	1,730,020.94	39,80686896	-80,68094
3,000.00	2.00	350.00	2,999.47	30.93	-5.45	14,456,571.00	1,730,020.33	39.80687840	-80,68094
3,100.00	2.00	350.00	3,099.41	34.37	-6.06	14,456,574.43	1,730,019.72	39.80688785	-80.68094
3,200.00	2.00	350.00	3,199.35	37.81	-6.67	14,456,577.87	1,730,019.12	39.80689729	-80.68094
Maria Salahari	2.00	350.00	3,299.29	41.24	-7.27	14,456,581.31	1,730,018.51	39.80690674	-80.68094
3,300.00	2.00	350.00	3,399.23	44.68	-7.27	14,456,584.74	1,730,018.51	39.80691618	-80.68095
12.400 10.00			0.00					39.80692563	-80.68095
3,500.00	2.00	350.00	3,499.17	48.12	-8.48	14,456,588.18	1,730,017.30		-80.68095
3,600.00	2.00	350.00	3,599.11	51.55	-9.09	14,456,591.62	1,730,016.69	39,80693507	
3,700.00	2,00	350.00	3,699.05	54.99	-9.70	14,456,595.05	1,730,016.09	39,80694452	-80,68095
3,800.00	2.00	350.00	3,798.98	58.43	-10.30	14,456,598,49	1,730,015.48	39,80695396	-80.68095
3,900.00	2.00	350.00	3,898.92	61.87	-10.91	14,456,601.93	1,730,014.88	39.80696341	-80.68096
4,000.00	2.00	350,00	3,998.86	65,30	-11.51	14,456,605,37	1,730,014.27	39.80697285	-80,68096
4,100.00	2.00	350.00	4,098.80	68.74	-12.12	14,456,608.80	1,730,013.66	39,80698229	-80,68096
4,200.00	2.00	350.00	4,198.74	72.18	-12.73	14,456,612.24	1,730,013.06	39,80699174	-80,68096
	/100' drop	2,355.00	7 200 000				5 - 10 10 10 10 10 10 10 10 10 10 10 10 10	100.000.0000	
4,300.00	1.00	350.00	4,298.71	74.75	-13.18	14,456,614.82	1,730,012.60	39.80699882	-80.68096
4,400.00	0.00	350,00	4,398.70	75,61	-13.33	14,456,615,68	1,730,012.45	39.80700118	-80,68096
Begin ve	ertical hold se	ction							
4,500.00	0.00	0.00	4,498.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.68096
4,600.00	0.00	350.00	4,598.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.68096
4,700.00	0.00	0.00	4,698.70	75.61	-13.33	14,456,615,68	1,730,012.45	39.80700118	-80.68096
4,800.00	0.00	350.00	4,798.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.68096
4,900.00	0.00	0.00	4,898.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.68096



APR 9 2018

MONE

Database: Company: Project: DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia

Site: Ten High

Well: Ten High 1S-15HU (C)
Wellbore: Original Hole

Design: rev2

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference:

Survey Calculation Method:

WV Department of Environmental Protection Well Ten High 1S-15HU (C) GL=1310 @ 1310.00usft GL=1310 @ 1310.00usft

Grid

Minimum Curvature

nned Survey									
Measured Depth	Inclination	Azimuth	Vertical Depth	+N/-S	+E/-W	Map Northing	Map Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
5,000.00	0.00	350.00	4,998.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80,680969
5,100.00	0,00	350.00	5,098.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.680969
5,200.00	0.00	0.00	5,198.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.8070011B	-80.680969
5,300.00	0.00	350.00	5,298.70	75.61	-13.33	14,456,615.68	1,730,012.45	39,80700118	-80.680969
5,400.00	0.00	0.00	5,398.70	75.61	-13,33	14,456,615,68	1,730,012.45	39.80700118	-80,680969
5,500.00	0.00	0.00	5,498.70	75.61	-13.33	14,456,615.68	1,730,012.45	39,80700118	-80.680969
5,600.00	0.00	350.00	5,598.70	75.61	-13.33	14,456,615,68	1,730,012.45	39.80700118	-80.680969
5,700.00	0.00	350.00	5,698.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.680969
5,800.00	0.00	350.00	5,798.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.680969
5,900.00	0.00	0.00	5,898.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.680969
6,000.00	0.00	350.00	5,998.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.680969
6,100.00	0.00	0.00	6,098.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.680969
6,200.00	0.00	0.00	6,198.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.680969
6,300.00	0.00	350.00	6,298.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.680969
6,400.00	0.00	350.00	6,398.70	75.61	-13,33	14,456,615.68	1,730,012.45	39.80700118	-80,680969
6,500.00	0.00	350.00	6,498.70	75.61	-13,33	14,456,615.68	1,730,012,45	39.80700118	-80.680969
6,600.00	0.00	0.00	6,598.70	75.61	-13,33	14,456,615.68	1,730,012.45	39.80700118	-80.680969
6,700.00	0.00	350.00	6,698.70	75,61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80,680969
6,800.00	0.00	350,00	6,798.70	75.61	-13.33	14,456,615.68	1,730,012,45	39.80700118	-80,680969
6,900.00	0.00	0.00	6,898.70	75,61	-13.33	14,456,615,68	1,730,012,45	39.80700118	-80.680969
7,000.00	0.00	350.00	6,998,70	75.61	-13.33	14,456,615.68	1,730,012,45	39.80700118	-80.680969
7,100.00	0.00	0.00	7,098.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80,680969
7,200.00	0.00	0.00	7,198.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.680969
7,300.00	0.00	350.00	7,298.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.680969
7,400.00	0.00	350.00	7,398.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.680969
7,500.00	0.00	350.00	7,498.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80,680969
	0.00	0.00	7,598.70	75.61	-13.33	14,456,615.68	1,730,012,45	39.80700118	-80.680969
7,600.00	0.00	350.00	7,698.70	75.61	-13.33	14,456,615,68	1,730,012.45	39.80700118	-80.68096
	0.00	350.00	7,798.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.68096
7,800.00	0.00	0.00	7,898.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.68096
7,900.00	0.00	350.00	7,998.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80,68096
8,000.00		350.00	8,098.70	75.61	-13.33	14,456,615.68	1,730,012.45	39,80700118	-80.68096
8,100.00	0.00	0.00	8,198.70	75.61	-13.33	14,456,615,68	1,730,012.45	39.80700118	-80.68096
8,200.00	0.00	350.00	8,298.70	75.61	-13,33	14,456,615.68	1,730,012.45	39.80700118	-80.68096
8,300.00	0.00	350.00	8,398.70	75.61	-13.33	14,456,615,68	1,730,012.45	39.80700118	-80,68096
8,400.00	0.00	350.00	8,498.70	75.61	-13.33	14,456,615.68	1,730,012,45	39.80700118	-80.68096
8,500.00	0.00		8,598.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80,68096
8,600.00	0.00	0.00		75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.68096
8,700.00	0.00	350.00	8,698.70		-13.33		1,730,012.45	39.80700118	-80.68096
8,800.00	0,00	350,00	8,798.70	75.61	-13.33	14,456,615.68	1,730,012.45	39.80700118	-80.68096
8,900.00	0.00	0.00	8,898.70	75.61		14,456,615.68	1,730,012.45	39.80700118	-80.68096
9,000.00	0.00	350.00	8,998.70	75.61	-13.33	14,456,615.68 14,456,615.68	1,730,012.45	39.80700118	-80.68096
9,001.30	0.00	350.00	9,000.00	75.61	-13.33	14,430,013.00	1,750,012.45	35.50750110	00.00000
	/100' build	-272.52	2000000				4 700 044 04	20.20720420	-80.68097
9,100.00	1.97	313.12	9,098.68	76.78	-14.57	14,456,616.84	1,730,011.21	39.80700439	-80.68098
9,200.00	3.97	313.12	9,198.54	80.32	-18.36	14,456,620.38	1,730,007.42	39.80701416	
9,300.00	5.97	313.12	9,298.16	86.25	-24.69	14,456,626.31	1,730,001.09	39.80703050	-80.68101 -80.68104
9,400.00	7.97	313.12	9,397.41	94.55	-33.55	14,456,634.61	1,729,992.23	39.80705337	
9,410.05	8.18	313.12	9,407.37	95.51	-34.58	14,456,635.57	1,729,991.20	39,80705603	-80.68104
Begin 8.	18° tangent					A tracked with the	7/3/2/2/2/2	111101101	
9,500.00	8.18	313.12	9,496.40	104.25	-43.92	14,456,644.32	1,729,981.86	39.80708013	-80.68107
9,600.00	8.18	313.12	9,595.38	113,97	-54.30	14,458,654.03	1,729,971.48	39.80710693	-80.68111
9,700.00	8.18	313.12	9,694.37	123.69	-64.6B	14,456,663.75	1,729,961.10	39.80713372	-80.68115
9,800.00	8.18	313.12	9,793.35	133.41	-75.06	14,456,673.47	1,729,950.73	39.80716051	-80,68118
9,900.00	8.18	313.12	9,892.34	143.13	-85.44	14,456,683.19	1,729,940.35	39.80718730	-80.68122



APR 9 2018

WV Department of Environmental Protection

Database: DB_Jul2216dt_v14
Company: Tug Hill Operating LLC
Project: Marshall County, West

Marshall County, West Virginia Ten High

Ten High 1S-15HU (C)

Wellbore: Original Hole
Design: rev2

Site:

Well:

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well Ten High 1S-15HU (C) GL=1310 @ 1310.00usft GL=1310 @ 1310.00usft Grid Minimum Curvature

Measured			Vertical			Map	Мар		
Depth (usft)	Inclination (°)	Azimuth	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
10,000.00	8,18	313,12	9,991.32	152.85	-95.82	14,456,692.91	1,729,929.97	39.80721410	-80,681262
10,100.00	8.18	313.12	10,090.30	162.57	-105.20	14,456,702.63	1,729,919.59	39,80724089	-80.681299
10,200.00	8.18	313.12	10,189.29	172.29	-116.58	14,456,712.35	1,729,909,21	39.80726768	-80.681336
10,300.00	8.18	313.12	10,288.27	182.00	-126.96	14,456,722.07	1,729,898,83	39.80729447	-80.681373
10,400.00	8.18	313.12	10,387.26	191.72	-137.34	14,456,731.79	1,729,888,45	39.80732127	-80.681410
10,500.00	8.18	313.12	10,486.24	201.44	-147.72	14,456,741.51	1,729,878,07	39.80734806	-80,681446
10,600.00	8.18	313.12	10,585.22	211.16	-158.10	14,456,751.23	1,729,867.69	39.80737485	-80,681483
		313.12	10,684.21	220.88	-168.48	14,456,760.94	1,729,857.31	39.80740164	-80.681520
10,700.00	8.18			230.60	-178.86	14,456,770.66	1,729,846.93	39.80742843	-80.681557
10,800.00	8.18	313.12	10,783,19						-80.681594
10,900.00	8.18	313.12	10,882.17	240.32	-189.24	14,456,780.38	1,729,836.55	39.80745523	
10,987.54	8.18	313.12	10,968.82	248.83	-198.32	14,456,788.89	1,729,827.46	39.80747868	-80,681626
the second secon	0°/100' build/tu		1207012000	0.000	77.5				
11,000.00	6.93	312.50	10,981.18	249.94	-199.52	14,456,790.00	1,729,826.26	39.80748175	-80.681630
11,100.00	3.12	145.41	11,080.99	251.78	-202.43	14,456,791.84	1,729,823.35	39.80748683	-80.681641
11,200.00	13.09	138.58	11,179.87	241.02	-193.37	14,456,781.08	1,729,832.41	39.80745718	-80.68160
11,300.00	23.09	137.63	11,274.80	217.98	-172.61	14,456,758.04	1,729,853.18	39,80739370	-80.68153
11,400.00	33.09	137.24	11,362.91	183.36	-140.78	14,456,723.42	1,729,885.01	39.80729833	-80.68142
11,500.00	43.09	137.01	11,441.52	138.22	-98.84	14,456,678.29	1,729,926.94	39.80717396	-80,68127
11,600.00	53.09	136.86	11,508.23	83.93	-48.09	14,456,623.99	1,729,977.70	39.80702437	-80.681093
11,700.00	63.09	136.74	11,561.03	22.14	9.95	14,456,562.20	1,730,035.74	39.80685410	-80.68088
11,800.00		136,64	11,598.30	-45.28	73.52	14,456,494.78	1,730,099,30	39.80666833	-80.68066
11,900.00		136.55	11,618.92	-116.27	140.67	14,456,423,79	1,730,166.45	39.80647271	-80.68042
11,959.14		136.50	11,623,00	-159.07	181.24	14,456,380.99	1,730,207.03	39.80635478	-80.68028
4, 8, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4, 4,	7/100' turn	3,3-5,	71144444						
12,000.00		137.32	11,623.71	-188.90	209.15	14,456,351.16	1,730,234.94	39.80627258	-80.68018
12,100.00		139.32	11,625.46	-263.57	275.64	14,456,276,49	1,730,301.42	39.80606687	-80.67994
12,100.00		141.32	11,627,22	-340.52	339.48	14,456,199,55	1,730,365.26	39.80585493	-80.67971
		143.32	11,628.97	-419.64	400.59	14,456,120,42	1,730,426.38	39.80563703	-80,67950
12,300.00		145.32	11,630.73	-500.85	458.91	14,456,039.21	1,730,484.69	39.80541344	-80.67929
12,400.00				-584.05	514.36	14,455,956.01	1,730,540.14	39.80518441	-80.67909
12,500.00		147.32	11,632.48			14,455,870.93	1,730,592.65	39.80495024	-80.67891
12,600.00		149.32	11,634.23	-669.13	566.86			39.80490337	-80,67887
12,619.77		149.71	11,634.58	-686.16	576.89	14,455,853,90	1,730,602.67	38,60480337	-00,07007
Begin 89	9.00° lateral se								80 07070
12,700.00	89,00	149.71	11,635.98	-755,43	617.35	14,455,784.63	1,730,643.13	39.80471273	-80.67873
12,800.00	89.00	149.71	11,637.72	-841.77	667.77	14,455,698.29	1,730,693.55	39,80447513	-80,67855
12,900,00	89.00	149,71	11,639.46	-928.11	718.19	14,455,611.95	1,730,743,98	39.80423752	-80.67837
13,000.00	89.00	149.71	11,641.21	-1,014.45	768.62	14,455,525.61	1,730,794.40	39.80399991	-80.67819
13,100.00	89.00	149.71	11,642.95	-1,100.79	819.04	14,455,439.27	1,730,844.82	39,80376231	-80.67802
13,200.00	89.00	149.71	11,644,70	-1,187.13	869.46	14,455,352.93	1,730,895.25	39.80352470	-80,67784
13,300.00		149.71	11,646.44	-1,273,47	919,89	14,455,266.59	1,730,945.67	39.80328709	-80.67766
13,400.00		149.71	11,648.18	-1,359.81	970.31	14,455,180.25	1,730,996.09	39.80304949	-80,67748
13,500.00		149.71	11,649.93	-1,446.15	1,020.73	14,455,093.92	1,731,046.52	39.80281188	-80.67730
13,600.00		149.71	11,651.67	-1,532.49	1,071.16	14,455,007.58	1,731,096.94	39.80257427	-80.67712
13,700.00		149.71	11,653.42	-1,618.83	1,121.58	14,454,921.24	1,731,147.36	39.80233666	-80.67695
13,800.00		149.71	11,655.16	-1,705.17	1,172.00	14,454,834.90	1,731,197.79	39.80209906	-80.67677
13,900.00		149.71	11,656.90	-1,791.50	1,222.43	14,454,748.56	1,731,248.21	39.80186145	-80.67659
14,000.00		149.71	11,658.65	-1,877.84	1,272.85	14,454,662.22	1,731,298,63	39.80162384	-80,67641
14,100.00		149.71	11,660.39	-1,964.18	1,323.27	14,454,575.88	1,731,349.06	39.80138623	-80.67623
14,200.00			11,662.14	-2,050.52	1,373.70	14,454,489.54	1,731,399.48	39,80114862	-80,67605
14,300.00		149.71	11,663.88	-2,136,86	1,424,12	14,454,403.20	1,731,449.90	39.80091101	-80,67588
14,400.00			11,685.82	-2,223.20	1,474.54	14,454,316.86	1,731,500.33	39.80067340	-80,67570
			11,667.37	-2,309.54	1,524.97	14,454,230,52	1,731,550.75	39.80043579	-80,67552
14,500.00			11,669.11	-2,309.54	1,575.39	14,454,144.18	1,731,601.17	39,80019818	-80.67534
14,600.00			11,670,85	-2,482.22	1,625.81	14,454,057.85	1,731,651.60	39.79996057	-80,67516

RECEIVED Office of Oil and Gas



Planning Report - Geographic

APR 9 2018



WV Department of Environmental Protection

Database: Company: Project: Site: DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia

Ten High

Well: Ten High 1S-15HU (C)
Wellbore: Original Hole

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well Ten High 1S-15HU (C) GL=1310 @ 1310.00usft GL=1310 @ 1310.00usft

Grid

Minimum Curvature

ign:	rev2								
nned Survey									
Measured			Vertical			Мар	Мар		
Depth	Inclination	Azimuth	Depth	+N/-S	+E/-W	Northing	Easting		
(usft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Latitude	Longitude
14,800.00	89.00	149.71	11,672,60	-2,568.56	1,676,24	14,453,971.51	1,731,702,02	39,79972296	-80.674988
14,900.00	89.00	149.71	11,674,34	-2,654.90	1,726,66	14,453,885.17	1,731,752,44	39.79948535	-80.674809
15,000.00	89.00	149.71	11,676.09	-2,741.24	1,777.08	14,453,798.83	1,731,802.87	39,79924773	-80,674631
15,100.00	89.00	149.71	11,677.83	-2,827.57	1,827,51	14,453,712.49	1,731,853.29	39.79901012	-80.674453
15,200.00	89.00	149.71	11,679.57	-2,913.91	1,877.93	14,453,626.15	1,731,903.71	39,79877251	-80,67427-
15,300.00	89.00	149.71	11,681.32	-3,000.25	1,928,35	14,453,539.81	1,731,954.14	39,79853490	-80.67409
15,400.00	89.00	149.71	11,683.06	-3,086.59	1,978.78	14,453,453.47	1,732,004.56	39.79829728	-80.67391
15,500.00	89.00	149.71	11,684.81	-3,172.93	2,029.20	14,453,367.13	1,732,054,98	39.79805967	-80.67373
15,600.00	89.00	149.71	11,686.55	-3,259.27	2,079.62	14,453,280.79	1,732,105.41	39.79782206	-80.67356
15,700.00	89.00	149.71	11,688.29	-3,345.61	2,130.05	14,453,194.45	1,732,155.83	39.79758444	-80,67338
	89.00	149.71	11,690.04	-3,431.95	2,180.47	14,453,108.11	1,732,155.65	39.79734683	-80.67320
15,800.00	89.00	149.71	11,691.78	-3,518.29	2,230.89	14,453,021.78	1,732,256.68	39.79710922	-80.67302
15,900.00								39.79687160	-80.67284
16,000.00	89.00	149.71	11,693,53	-3,604.63	2,281,32	14,452,935,44	1,732,307.10 1,732,357,52	39.79663399	-80.67266
16,100.00	89.00	149.71	11,695.27	-3,690.97	2,331.74	14,452,849.10 14,452.762.78	1,732,407.95		-80.67249
15,200.00	89.00	149.71	11,697.01	-3,777.30	2,382.16			39,79639637	
16,300.00	89.00	149.71	11,698.76	-3,863.64	2,432.59	14,452,676.42	1,732,458.37	39,79615876	-80.67231
16,400.00	89.00	149.71	11,700.50	-3,949.98	2,483.01	14,452,590,08	1,732,508.79	39,79592114	-80.67213
16,500.00	89.00	149.71	11,702.25	-4,036.32	2,533.43	14,452,503.74	1,732,559.22	39,79568353	-80.67195
16,600.00	89.00	149,71	11,703.99	-4,122,66	2,583,86	14,452,417.40	1,732,609.64	39,79544591	-80.67177
15,700.00	89.00	149.71	11,705.73	-4,209.00	2,634.28	14,452,331.06	1,732,660.06	39.79520829	-80.67159
16,800.00	89.00	149.71	11,707.48	-4,295.34	2,684.70	14,452,244,72	1,732,710.49	39.79497068	-80.67142
16,900.00	89.00	149.71	11,709.22	-4,381.68	2,735.12	14,452,158.38	1,732,760.91	39.79473306	-80,67124
17,000.00	89.00	149.71	11,710.97	-4,468.02	2,785.55	14,452,072.04	1,732,811.33	39.79449544	-80.67106
17,100.00	89.00	149.71	11,712.71	-4,554.36	2,835.97	14,451,985.71	1,732,861.76	39.79425782	-80.67088
17,200.00	89.00	149.71	11,714.45	-4,640.70	2,886.39	14,451,899.37	1,732,912.18	39.79402021	-80,67070
17,300.00	89.00	149.71	11,716.20	-4,727.04	2,936.82	14,451,813.03	1,732,962.60	39.79378259	-80.67052
17,400.00	89.00	149.71	11,717.94	-4,813.37	2,987.24	14,451,726.69	1,733,013.03	39,79354497	-80.67034
17,500.00	89.00	149.71	11,719.69	-4,899.71	3,037.66	14,451,640.35	1,733,063,45	39.79330735	-80.67017
17,600.00	89.00	149.71	11,721.43	-4,986.05	3,088.09	14,451,554.01	1,733,113.87	39.79306973	-80.66999
17,700.00	89.00	149.71	11,723.17	-5,072.39	3,138.51	14,451,467.67	1,733,164.30	39.79283211	-80,66981
17,800.00	89,00	149.71	11,724.92	-5,158.73	3,188.93	14,451,381.33	1,733,214.72	39.79259449	-80,66963
17,900.00	89.00	149.71	11,726.66	-5,245.07	3,239.36	14,451,294,99	1,733,265.14	39.79235687	-80.66945
18,000.00	89.00	149.71	11,728.40	-5,331.41	3,289.78	14,451,208.65	1,733,315.56	39.79211925	-80,66927
18,100.00	89.00	149.71	11,730.15	-5,417.75	3,340,20	14,451,122,31	1,733,365.99	39.79188163	-80.66910
18,200.00	89.00	149.71	11,731.89	-5,504.09	3,390,63	14,451,035.97	1,733,416.41	39.79164401	-80,66892
18,300.00	89.00	149.71	11,733.64	-5,590.43	3,441.05	14,450,949.64	1,733,466.83	39.79140639	-80,66874
18,400.00	89.00	149.71	11,735.38	-5,675.77	3,491.47	14,450,863.30	1,733,517.26	39.79116877	-80.66856
18,500.00	89.00	149.71	11,737.12	-5,763.11	3,541.90	14,450,776.96	1,733,567.68	39.79093115	-80,66838
18,600.00	89.00	149.71	11,738.87	-5,849.44	3,592.32	14,450,690.62	1,733,618.10	39.79069353	-80.66820
18,700.00	89.00	149.71	11,740.61	-5,935.78	3,642.74	14,450,604.28	1,733,668.53	39.79045591	-80.66803
18,800.00	89.00	149.71	11,742.36	-6,022.12	3,693.17	14,450,517.94	1,733,718.95	39.79021828	-80.66785
18,900.00	89.00	149.71	11,744.10	-6,108.46	3,743.59	14,450,431.60	1,733,769.37	39.78998068	-80.66767
19,000.00	89.00	149.71	11,745.84	-6,194.80	3,794.01	14,450,345.26	1,733,819.80	39.78974304	-80.66749
19,100.00	89.00	149.71	11,747.59	-6,281.14	3,844.44	14,450,258.92	1,733,870.22	39.78950542	-80,66731
19,200.00	89.00	149.71	11,749.33	-6,367.48	3,894.86	14,450,172.58	1,733,920.64	39.78926779	-80.66713
19,300.00	89.00	149.71	11,751.08	-6,453.82	3,945.28	14,450,086.24	1,733,971,07	39.78903017	-80,66896
19,400.00	89.00	149.71	11,752,82	-6,540.16	3,995.71	14,449,999.90	1,734,021.49	39.78879254	-80.66678
19,500.00	89.00	149.71	11,754.56	-6,626.50	4,046.13	14,449,913.57	1,734,071,91	39,78855492	-80,66660
19,600.00	89.00	149,71	11,756.31	-6,712.84	4,096.55	14,449,827.23	1,734,122.34	39.78831730	-80.66642
19,700.00	89.00	149.71	11,758.05	-6,799.18	4,146.98	14,449,740.89	1,734,172,76	39,78807967	-80,66624
19,800.00	89.00	149,71	11,759.80	-6,885.51	4,197.40	14,449,654,55	1,734,223,18	39.78784205	-80,66606
19,900.00	89.00	149.71	11,761,54	-6,971.85	4,247.82	14,449,568.21	1,734,273,61	39.78760442	-80.66589
20,000.00	89.00	149.71	11,763.28	-7,058.19	4,298.25	14,449,481.87	1,734,324.03	39.78736680	-80.66571
20,100.00	89.00	149.71	11,765.03	-7,144.53	4,348.67	14,449,395.53	1,734,374,45	39.78712917	-80,66553
20,200.00	89.00	149.71	11,766.77	-7,230.87	4,399.09	14,449,309.19	1,734,424.88	39.78689154	-80.66535



APR 9 2018





Database: Company: Project: DB_Jul2216dt_v14 Tug Hill Operating LLC Marshall County, West Virginia

Site: Ten High

Well: Ten High 1S-15HU (C)
Wellbore: Original Hole
Design: rev2

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well Ten High 1S-15HU (C) GL=1310 @ 1310.00usft GL=1310 @ 1310.00usft

Minimum Curvature

Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
20,300.00	89.00	149.71	11,768.52	-7,317.21	4,449.52	14,449,222.85	1,734,475,30	39,78665392	-80,66517745
20,400.00	89,00	149,71	11,770.26	-7,403.55	4,499,94	14,449,136.51	1,734,525.72	39.78641629	-80.6649991
20,500.00	89.00	149.71	11,772.00	-7,489.89	4,550.36	14,449,050.17	1,734,576.15	39.78617866	-80,66482077
20,600.00	89.00	149.71	11,773.75	-7,576.23	4,600.79	14,448,963.83	1,734,626,57	39.78594104	-80.66464244
20,700.00	89.00	149.71	11,775.49	-7,662.57	4,651.21	14,448,877.50	1,734,676.99	39.78570341	-80.66446410
20,800.00	89.00	149.71	11,777.24	-7,748.91	4,701.63	14,448,791.16	1,734,727.42	39.78546578	-80.66428576
20,900.00	89.00	149.71	11,778.98	-7,835.25	4,752.06	14,448,704.82	1,734,777.84	39.78522815	-80.66410743
21,000.00	89.00	149.71	11,780.72	-7,921.58	4,802.48	14,448,618.48	1,734,828.26	39.78499052	-80.66392910
21,100.00	89.00	149.71	11,782.47	-8,007.92	4,852.90	14,448,532.14	1,734,878.69	39.78475289	-80.66375077
21,187.91	89.00	149.71	11,784.00	-8,083.82	4,897.23	14,448,456.24	1,734,923.01	39.78454400	-80.66359400

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir.	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Ten High 1S-15HU LP r1 - plan misses target - Point		0.00 6usft at 119	11,623,00 975,76usft MI	-121,25 O (11623,29 T	246.01 VD, -171.16 N	14,456,418,81 I, 192,65 E)	1,730,271.79	39.80645800	-80,68004900
Ten High 1S-15HU LP r1 - plan hits target cen - Point		0.00	11,623.00	-159.07	181.24	14,456,380.99	1,730,207.03	39.80635478	-80.68028007
Ten High 1S-15HU BHL - plan hits target cen - Point	0.00 iter	0.00	11,784.00	-8,083.82	4,897.23	14,448,456.24	1,734,923.01	39.78454400	-80.66359400

Casing Points					
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter ("')	Hole Diameter (")
	1,175.00	1,175.00	20" Casing @ 1175 TVD	20	24
	2,980.52	2,980.00	13 3/8" Casing @ 2980 TVD	13-3/8	17-1/2
	10,539.16	10,525.00	9 5/8" Casing @ 10525 TVD	9-5/8	12-1/4

Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2,000.00	2,000.00	0.00	0.00	KOP Begin 1°/100' build
2,200.00	2,199.96	3.44	-0.61	Begin 2.00° tangent
4,200.00	4,198.74	72.18	-12.73	Begin 1°/100' drop
4,400.00	4,398.70	75.61	-13.33	Begin vertical hold section
9,001,30	9,000.00	75.61	-13.33	Begin 2°/100' build
9,410.05	9,407.37	95,51	-34.58	Begin 8,18° tangent
10,987.54	10,968.82	248.83	-198.32	Begin 10°/100' build/turn
11,959,14	11,623.00	-159.07	181.24	Begin 2°/100' turn
12,619,77	11,634.58	-686.16	576.89	Begin 89,00° lateral section
21,187,91	11,784.00	-8,083.82	4,897.23	PBHL/TD 21187.91 MD/11784.00 TVD

WW-9 (4/16)

API Number 47 - 051

Operator's Well No. Ten High 1N-15HU

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

RECEIVED Office of Oil and Gas

APR 9 2018

FLUIDS/ CUTTINGS DISPOSAL	& RECLAMATION PLAN	WV Department of
Operator Name Tug Hill Operating, LLC	OP Code 494510851	Environmental Protection
Watershed (HUC 10) Fish Creek	Quadrangle Glen Easton 7.5'	
Do you anticipate using more than 5,000 bbls of water to complete the Will a pit be used? Yes No V	ne proposed well work? Yes 🔽 No	0
If so, please describe anticipated pit waste: AST Tanks with pro	per containment will be used for staging fresh water for frac a	nd flow back water
Will a synthetic liner be used in the pit? Yes No	If so, what ml.? AST Tanks will be used with proper	er contain
Proposed Disposal Method For Treated Pit Wastes:		
Land Application		
	nber_ UIC 2459, UIC 965, UIC 359, UIC 2D0732540,	UIC 2D0732523
Reuse (at API NumberOff Site Disposal (Supply form WW-9 form WW-9	r disposal location))
0.1 70 1.1		
Will closed loop system be used? If so, describe: Yes - For Vertical a	and Horizontal Drilling	
Drilling medium anticipated for this well (vertical and horizontal)?	Air, freshwater, oil based, etc. Air for vertical	/ Oil for Horizontal
-If oil based, what type? Synthetic, petroleum, etc. Synthetic	o Oil Base	
Additives to be used in drilling medium? Barite for weight		
Drill cuttings disposal method? Leave in pit, landfill, removed offsit	e, etc. All drill cuttings to be disposed of in a La	ndfill
-If left in pit and plan to solidify what medium will be used?		
-Landfill or offsite name/permit number?watzel County Sanitary Landfil	(SWF-1021 / WV0109185) and Weatmoreland Santary Landfill, LLC (SAN14	405 / PA DEP EC#1386425)
Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided within where it was properly disposed.		
I certify that I understand and agree to the terms and condit on August 1, 2005, by the Office of Oil and Gas of the West Virginia provisions of the permit are enforceable by law. Violations of any law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examplication form and all attachments thereto and that, based on obtaining the information, I believe that the information is true, a penalties for submitting false information, including the possibility of Company Official Signature Company Official (Typed Name) Sean Willis Company Official Title VP of Engineering & Development Manager	a Department of Environmental Protection. term or condition of the general permit ar mined and am familiar with the informati- my inquiry of those individuals immedia accurate, and complete. I am aware that	I understand that the nd/or other applicable on submitted on this ately responsible for
Subscribed and sworn before me this 318t day of Av	0	EALTH OF PENNSYLVANIA
W / IV P / IV / IV - W		NOTARIAL SEAL

Operator's Well No. Ten High 1N-15HU

Proposed Revegetation Treatm	ent: Acres Disturbed 1	6.20 Prevegetation pH	6.0
	Tons/acre or to corre		
Fertilizer type 10-20	-20		
Fertilizer amount 500)	lbs/acre	
Mulch 2.5		Tons/acre	
		Seed Mixtures	
Tem	porary	Perma	nent
Seed Type Annual Ryegrass	lbs/acre 40	Seed Type Orchard Grass	lbs/acre
Spring Oats 96		Ladino	3
1 0			
Attach: Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve	will be land applied, included area.	White Clover d application (unless engineered plans include clude dimensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), an
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve	will be land applied, inc area. d 7.5' topographic sheet.	d application (unless engineered plans included limensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), an
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve	will be land applied, inc area. d 7.5' topographic sheet.	d application (unless engineered plans included limensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), an
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve	will be land applied, inc area. d 7.5' topographic sheet.	d application (unless engineered plans included limensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), ar
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve	will be land applied, inc area. d 7.5' topographic sheet.	d application (unless engineered plans included limensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), an RECEIVEL Office of Oil an
Maps(s) of road, location, pit a provided). If water from the pit acreage, of the land application Photocopied section of involve	will be land applied, inc area. d 7.5' topographic sheet.	d application (unless engineered plans included limensions (L x W x D) of the pit, and	ling this info have been dimensions (L x W), ar

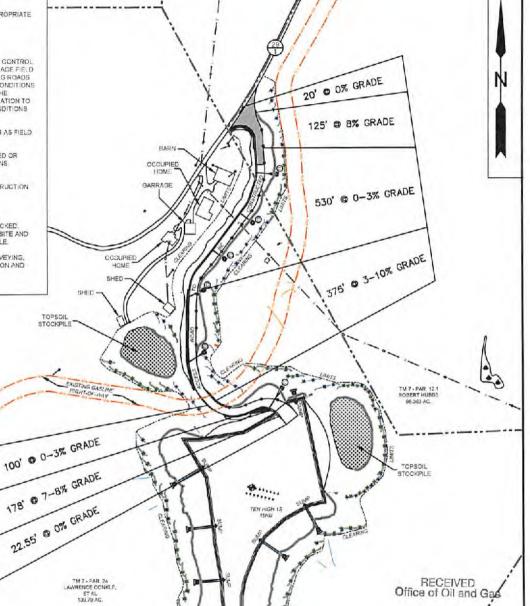
WW-9

PROPOSED TEN HIGH 1S - 15HU

SUPPLEMENT PG. 1

NOTES:

- O- DENOTES INSTALL 18" PVC CULVERT AND APPLY APPROPRIATE SEDIMENT OUTLET CONTROL (RIP RAP SPLASH PAD)
- 2. DRAWING NOT TO SCALE
- 3. REFERENCE IS HEREBY MADE TO THE
 W DIE P, OFFICE OF OIL & GAS, "EROSION AND SEDIMENT CONTROL.
 FIELD MANUAL" FOR REQUIREMENTS AND BMP% FOR AVERAGE FIELD
 CONDITIONS CONCERNING THE MAINTENANCE OF EXISTING ROADS
 AND THE CONSTRUCTION OF PROPOSED ROADS. FIELD CONDITIONS
 MAY REQUIRE VARIANCE FROM THESE GUIDELINES AND THE
 EARTHWORK CONTRACTOR IS RESPONSIBLE FOR NOTIFICATION TO
 THE INSPECTOR AND THE OPERATOR SHOULD THESE CONDITIONS
 OCCUR.
- INSTALL CULVERTS AS SHOWN ON REGLAMATION PLAN OR AS FIELD CONDITIONS REQUIRE.
- ENTRANCES ONTO PUBLIC ROADS SHALL BE CONSTRUCTED OR MAINTAINED IN ACCORDANCE WITH VV D.O.T. REGULATIONS. ADDITIONAL PERMITS MAY BE REQUIRED.
- TEMPORARILY SEED AND MULCH ALL SLOPS UPON CONSTRUCTION OF LOCATION.
- 7. ALL OUT AND FILL SLOPES ARE 2H : 1V SLOPE.
- ALL TREES 6-INCHES AND ABOVE ARE TO BE CUT AND STACKED.
 BRUSH SLASHINGS ARE TO BE UTILIZED DOWN SLOPE OF SITE AND STRUCTURES TO ACT AS A CONTROL BARRIER IF AVAILABLE.
- SEE HEAVEN HILL 3 SITE PLAN PREPARED BY KELLEY SURVEYING, DATED 2/24/2017 FOR COMPLETE CONSTRUCTION & EROSION AND SEDIMENT CONTROL DETAILS.





TOPO SE	CTION:	OPERATOR:						
GLEN EAS	STON 7.5'	PREPARED FOR: TUG HILL OPERATING, LLC						
COUNTY	DISTRICT	380 SOUTHPOINTE BLVD						
MARSHALL	MEADE	SUITE 200 CANONSBURG, PA 15317						
DRAWN BY	JOB NO.	DATE	SCALE					
K.G.M.	8655	08-14-17	1" = 300'					



APR

9 2018

WV Department of Environmental Protection

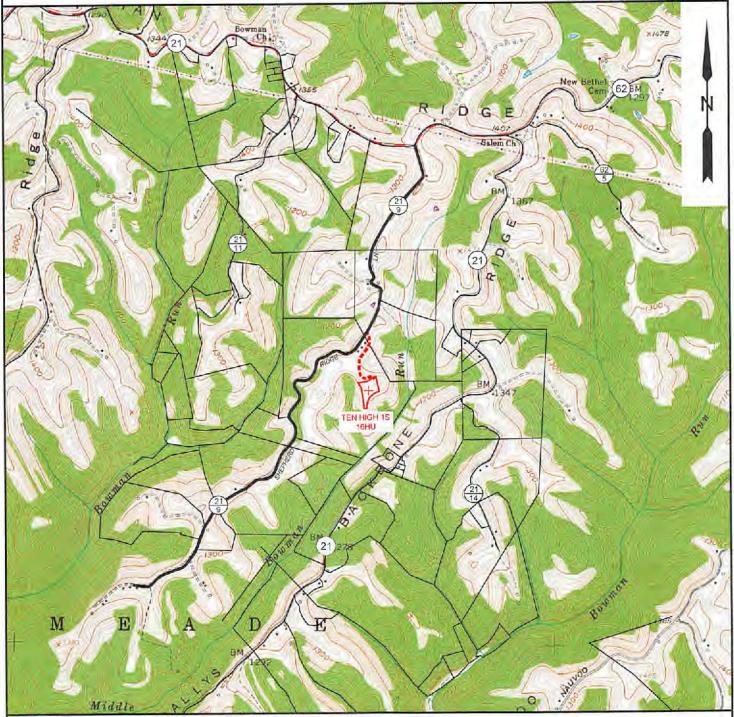
S LT FENCE AND/OR SEDIMENT AND EROSION CONTROL MEASURE.

PROPOSED TEN HIGH 1S - 16HU

RECEIVED Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection



NOTE: CLOSEST WATER PURVEYOR GRANDVIEW - DOOLIN PUBLIC SERVICE DISTRICT PROCTOR, WV

LAT: 39.7137712 LON: -80.8258327

LOCATED: S 51"03'40" W AT 52,970' FROM TEN HIGH 1S - 16HU SURFACE LOCATION



TOPO SI	ECTION:	OPERATOR:						
GLEN EAS	STON 7.5'	PREPARED FOR: TUG HILL OPERATING, LLC						
COUNTY	DISTRICT	380 SOUTHPOINTE BLVD						
MARSHALL	MEADE	SUITE 200 CANONSBURG	PA 15317					
DRAWN BY	JOB NO.	DATE	SCALE					
K.G.M.	8655	08-29-17	1" - 2000'					





Well Site Safety Plan Tug Hill Operating, LLC

Je 3/28/18

Well Name: Ten High 1S-15HU

Pad Location: Ten High

Marshall County, West Virginia

UTM (meters), NAD83, Zone 17: NORTHING -4,406,362.22 EASTING -527,312.91

March 2018

RECEIVED
Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection 07/13/2018

WW-6A1 (5/13)

Operator's Well No	Ten High 1S-15HU
--------------------	------------------

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or
Number Grantor, Lessor, etc. Grantee, Lessee, etc. Royalty Book/Page

*See attached pages

Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Tug Hill Operating, LLC

By: Amy L. Miller Wy Sulle

Its: Permitting Specialist - Appalachia Region

Page 1 of

Operator's	Well I	No.	Ten	High	1S-	15H	J

WW-6A1 9	Supplem	ent				_						Ор	erator's Well No.	Ten High 1S-15H
_	••			Gas	<u>∞</u>	ment of Protection								
Lease Name or No	-	Parcel	Grantor, Lessor, etc.		2018	ませ	Grantee, Lessee, etc.	Royalty	Deed Boo		Assignment	Assignment	Assignment	Assignment
d 10*15662	A	9-7-24	LARRY LEE CONKLE	回面		ĔŒ.	CHEVRON USA INC	1/8+	863	354	N/A	N/A	N/A	Chevron to Tug Hill: 36/148
10*15663	A	9-7-24	ROY A CONKLE SR	RECEIVED Office of Oil and	6	epartr ental	CHEVRON USA INC	1/8+	863	311	N/A	N/A	N/A	Chevron to Tug Hill: 36/148
C 10*15664	A	9-7-24	THERESA ANNE HUGHES	$\Sigma \zeta$		ğ	CHEVRON USA INC	1/8+	863	343	N/A	N/A	N/A	Chevron to Tug Hill: 36/148
O 10*15666	A	9-7-24	BRENDA J WHETZEL	E 6	α	۵Ĕ	CHEVRON USA INC	1/8+	863	635	N/A	N/A	N/A	Chevron to Tug Hill: 36/148
10*16049	A	9-7-24	DANNY SHAWN KERNS AND AMY LYNN KERNS	یّن	PR	WV De wironm	TH EXPLORATION LLC	1/8+	905	518	N/A	N/A	N/A	N/A
10*16138	A	9-7-24	LARRY W KUHN AND VICKIE B KUHN, HUSBAND AND WIFE	품	A	>:⋛	TH EXPLORATION LLC	1/8+	905	522	N/A	N/A	N/A	N/A
10*16139	A	9-7-24	HUBERT DEAN KUHN AND ANDREA KUHN	•		Ē	TH EXPLORATION LLC	1/8+	905	524	N/A	N/A	N/A	N/A
10*16140	A	9-7-24	ANDY PAUL & JACKIE KUHN			_	TH EXPLORATION LLC	1/8+	905	526	N/A	N/A	N/A	N/A
10*16141	A	9-7-24	HOWARD L KUHN AND MARY L KUHN				TH EXPLORATION LLC	1/8+	905	528	N/A	N/A	N/A	N/A
10*16820	A	9-7-24	ROBERTA ANN AND DAVID S GIBB				TH EXPLORATION LLC	1/8+	919	237	N/A	N/A	N/A	N/A
10*17365	A	9-7-24	MYSTI JOANNE GOODMAN				TH EXPLORATION LLC	1/8+	927	268	N/A	N/A	N/A N/A	N/A
10*17370	A	9-7-24	KELLY JUNE GOODMAN				TH EXPLORATION LLC	1/8+	927	470	N/A	N/A	N/A N/A	N/A
10*18256	A	9-7-24	JEFFREY STEPHEN GOODMAN				TH EXPLORATION LLC	1/8+	929	1 470	N/A	N/A	N/A	N/A N/A
10*47051.295.10	A	9-7-24	DEENA J PALOMO				TH EXPLORATION LLC	1/8+	905	435	N/A	N/A	N/A	N/A
10*47051.295.11	A .	9-7-24	REGINA D FIGUEROA AND DAVID FIGUEROA				TH EXPLORATION LLC	1/8+	905		N/A	N/A N/A	N/A	N/A
10*47051.295.12	A	9-7-24	EARL D WELLMAN	woon	C TOLICT	rr	TH EXPLORATION LLC	1/8+	905 904	432	N/A		N/A	N/A N/A
10*47051.295.13	A .	9-7-24	THE DOLLYE F WOOD REVOCABLE TRUST BY NICHOLAS CHARLES	WOODA	45 IKUSI	EE	TH EXPLORATION LLC	1/8+		641	N/A	N/A	N/A	N/A
10*47051.295.3	A	9-7-24	HAZEL ARIZONA MOORE REYNOLDS				TH EXPLORATION LLC	1/8+	904 904	632 459	N/A N/A	N/A	N/A N/A	N/A N/A
10*47051.295.4	A	9-7-24	LLOYD D MOORE				TH EXPLORATION LLC	1/8+			-	N/A	N/A	
10*47051.295.5	A	9-7-24	DALE R MOORE				TH EXPLORATION LLC	1/8+	904	635	N/A	N/A	N/A	N/A
10*47051.295.6	A	9-7-24	MARY I BURKHART				TH EXPLORATION LLC	1/8+	904	638	N/A	N/A	N/A N/A	N/A
10*47051.295.7	A	9-7-24	JEANNE V MELCHIORI				TH EXPLORATION LLC	1/8+	904	462	N/A	N/A	N/A N/A	N/A
10*47051.295.9	A	9-7-24	JAMES E HIMELRICK JR AND KAREN HIMELRICK				TH EXPLORATION LLC	1/8+	904	465	N/A	N/A	•	N/A
10*15501	В	9-7-12.1	RONALD AND EDNA MOORE				TRIENERGY INC	1/8+	661	449	TriEnergy to AB Resources: 20/252	AB Resources to Chief et al: 24/319	Chief et al to Chevron: 25/1	Chevron to Tug Hill: 36/148
10*19117	c	9-7-11	MARK H FOX				TH EXPLORATION LLC	1/8/+	864	163	N/A	N/A	Tug Hill to Chevron: 36/168	Chevron to Tug Hill: 40/127
10*19565	D	9-7-11.1	WV DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWA	15			TH EXPLORATION LLC	1/8+	947	566	N/A	N/A	N/A	N/A
10*19183	E	9-7-28.1	EVELYN M WILLIAMS				TRIENERGY HOLDINGS LLC	1/8+	720	180	N/A	TRIENERGY TO NPAR: 24/430	NPAR TO Chevron: 756/332	Chevron to Tug Hill: 40/127 Chevron to Tug Hill: 40/127
10*19135	F	9-7-29	CAROL J ANDERSON ET AL				CHEVRON USA INC	1/8+	772	228	N/A	N/A	N/A N/A	N/A
10*15481	G	9-7-25.2	DEAN P RIGBY AND SUSAN RIGBY				TH EXPLORATION LLC	1/8+	908	197	N/A	N/A	N/A N/A	N/A N/A
10*15482	G	9-7-25.2	SUSAN NELSON				TH EXPLORATION LLC	1/8+	908 908	203 160	N/A N/A	N/A N/A	N/A	N/A N/A
10*15686	G G	9-7-25.2	JOHN OMER BOLTZ SANDRA K TRULL				TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+	908	229	N/A	N/A	N/A	N/A
10*15750	G	9-7-25.2 9-7-25.2							908	231	N/A	N/A	N/A	N/A
10*16058	G	9-7-25.2	MATTIE RUTH JACKSON PRESCOTT RUBY RIDDLE JACKSON				TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+	908	233	N/A	N/A	N/A	N/A
10*16118 10*16297	G							1/8+	908	235	N/A	N/A	N/A	N/A
	G	9-7-25.2 9-7-25.2	ROBERT A LEADBETTER AND M REBECCA LEADBETTER				TH EXPLORATION LLC	1/8+	908	238	N/A	N/A	N/A	N/A
10*16298	G	9-7-25.2	GEOFFREY A SHIEFER AND STEPHANIE L SCHIEFER ROBERT STEPHEN DRIGGERS				TH EXPLORATION LLC		908	224	N/A	N/A	N/A	N/A
10*16383	G						TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+	908	208	N/A	N/A	N/A	N/A
10*16414	G	9-7-25.2 9-7-25.2	MARY ELIZABETH DRIGGERS TERENCE J ANDERSON AND NANCY J ANDERSON					1/8+	908	213	N/A	N/A	N/A	N/A
10*16415 10*16416	G	9-7-25.2	CYNTHIA HUDSON				TH EXPLORATION LLC TH EXPLORATION LLC	1/8+	908	219	N/A	N/A	N/A	N/A
	G	9-7-25.2	ROBERT J RIGBY				TH EXPLORATION LLC	1/8+	908	241	N/A	N/A	N/A	N/A
10*16424 10*16448	G	9-7-25.2						1/8+	908	584	N/A	N/A	N/A	N/A
10*16448	G	9-7-25.2	RALPH L AND JUANITA L CRIM MARION L AND EMILY CAMPBELL				TH EXPLORATION LLC TH EXPLORATION LLC	1/8+	908	245	N/A	N/A	N/A	N/A
	G	9-7-25.2	ALEX RUSSELL AND JOYCE A CAMPBELL				TH EXPLORATION LLC	1/8+	908	248	N/A	N/A	N/A	N/A
10*16514	G	9-7-25.2					TH EXPLORATION LLC	1/8+	908	251	N/A	N/A	N/A	N/A
10*16515	G		ANNA MARIE JACKSON				TH EXPLORATION LLC	1/8+	908	253	N/A	N/A	N/A	N/A
10*16516	6	9-7-25.2						1/8+	000	260	N/A	NI/A	N/A	NI/A
10*16545	•	9-7-25.2	ROBERT G & ELLEN FOUNDS				TH EXPLORATION LLC TH EXPLORATION LLC	1/8+	908	863	N/A N/A	N/A N/A	N/A	N/A N/A
10*16662	G		RICHARD THOMAS AND VICKI J MIMS				TH EXPLORATION LLC		908	255	N/A N/A	N/A N/A	N/A N/A	N/A N/A
10*16666	G	9-7-25.2						1/8+				N/A	N/A N/A	N/A
10*16667	G	9-7-25.2					TH EXPLORATION LLC	1/8+	908 908	266 257	N/A N/A	N/A	N/A	N/A
10*16668	G	9-7-25.2					TH EXPLORATION LLC TH EXPLORATION LLC	1/8+				N/A N/A	N/A N/A	N/A N/A
10*16669	G	9-7-25.2						1/8+	908	269 475	N/A		N/A	
10*16686	G	9-7-25.2					TH EXPLORATION LLC	1/8+	927	475	N/A	N/A	N/A N/A	N/A
10*16688	G	9-7-25.2					TH EXPLORATION LLC	1/8+	927	481	N/A N/A	N/A N/A	N/A N/A	N/A N/A
10*16689	G	9-7-25.2					TH EXPLORATION LLC	1/8+	927	478	N/A	N/A N/A	N/A N/A	N/A N/A
10*16690	G	9-1-25.2	RICARDO ORTIZ				TH EXPLORATION LLC	1/8+	921	352	N/A	N/A	14/A	II/A

\A/\A/ 6A1 C.	unnlam	ont		2		ment of Protection						Oı	erator's Well No. <u>T</u>	en High 1S-1
ຊWW-6A1 Sເ	uppieiii	CIIL		Gas	2018	1 to 1						·		
ο.				RECEIVED Office of Oil and	20	PF								
10*16720	G	9-7-25.2	DONNA ELAINE BRASKETT	≅.≅	6	뒫급	TH EXPLORATION LLC	1/8+	921	152	N/A	N/A	N/A	N/A N/A
O _{10*16738}	G	9-7-25.2	CHARLES A RINE AND RUTH K RINE	<u>85</u>		epartr	TH EXPLORATION LLC	1/8+	908	274	N/A	N/A	N/A N/A	N/A
10*16742	G	9-7-25.2	PAUL C WILSON	Щò	α	۵Ĕ	TH EXPLORATION LLC	1/8+	927	490	N/A N/A	N/A N/A	N/A	N/A
V10*16747	G	9-7-25.2	WILLIAM DALE BRASKETT		APR	WV De	TH EXPLORATION LLC	1/8+	921	96 451	N/A	N/A	N/A	N/A
10*16787	G	9-7-25.2	HERBERT B CAMPBELL & DONNA D CAMPBELL	告	⋖	≥₹	TH EXPLORATION LLC	1/8+ 1/8+	942 921	364	N/A	N/A	N/A	N/A
10*16798	G	9-7-25.2	PATRICK A RANKIN AND ROBIN A RANKIN	_		띮	TH EXPLORATION LLC TH EXPLORATION LLC	1/8+	921	93	N/A	N/A	N/A	N/A
10*16800	G	9-7-25.2	JAMES KENNETH JACKSON AND JULIE JACKSON				TH EXPLORATION LLC	1/8+	921	495	N/A	N/A	N/A	N/A
10*16802	G	9-7-25.2	CHRISTOPHER AND TAMMY RICHARDSON				TH EXPLORATION LLC	1/8+	921	510	N/A	N/A	N/A	N/A
10*16804	G G	9-7-25.2 9-7-25.2	WILLIAM N AND SHERRY D TAYLOR VIRGINIA WHITMAN TRUST DTD 7-25-1984 JON WHITMAN TRUSTEE				TH EXPLORATION LLC	1/8+	921	528	N/A	N/A	N/A	N/A
10*16806 10*16807	G	9-7-25.2	DAVID TULLER AND SUSAN STORTS TULLER				TH EXPLORATION LLC	1/8+	921	513	N/A	N/A	N/A	N/A
10*16808	G	9-7-25.2	MICHAEL L ORTIZ				TH EXPLORATION LLC	1/8+	921	349	N/A	N/A	N/A	N/A
10*16815	G	9-7-25.2	HAROLD W PYLE				TH EXPLORATION LLC	1/8+	921	357	N/A	N/A	N/A	N/A
10*16819	G	9-7-25.2	TERESA ORTIZ BIGGS				TH EXPLORATION LLC	1/8+	921	147	N/A	N/A	N/A	N/A
10*16821	G	9-7-25.2	SHEILA BRASKETT WEICHEY				TH EXPLORATION LLC	1/8+	921	516	N/A	N/A	N/A	N/A
10*16836	G	9-7-25.2	RICK A AND LENORE A STORTS				TH EXPLORATION LLC	1/8+	921	507	N/A	N/A	N/A	N/A
10*16837	G	9-7-25.2	TERRY L AND THELMA A POFF				TH EXPLORATION LLC	1/8+	927	472	N/A	N/A	N/A	N/A
10*16838	G	9-7-25.2	ROBERT G FUNARI				TH EXPLORATION LLC	1/8+	921	82	N/A	N/A	N/A	N/A
10*16839	G	9-7-25.2	JAMES B FOUNDS AND LYNN M MOWERY				TH EXPLORATION LLC	1/8+	921	73	N/A	N/A	N/A	N/A
10*16863	G	9-7-25.2	TINA MOORE				TH EXPLORATION LLC	1/8+	921	334	N/A	N/A	N/A	N/A
10*16868	G	9-7-25.2	MICHAEL W STORTS AND JESSICA M STORTS				TH EXPLORATION LLC	1/8+	921	504	N/A	N/A	N/A	N/A N/A
10*16879	G	9-7-25.2	MARK E AND LESLEY A STORTS				TH EXPLORATION LLC	1/8+	921	501	N/A	N/A	N/A N/A	N/A
10*16880	G	9-7-25.2	BEVERLY ANN STORTS				TH EXPLORATION LLC	1/8+	921	498	N/A	N/A	N/A N/A	N/A
10*16902	G	9-7-25.2	MARY BARCAW DUKE				TH EXPLORATION LLC	1/8+	921	105	N/A	N/A N/A	N/A	N/A
10*16962	G	9-7-25.2	DENNIS P AND BARBARA EZELL FLORY				TH EXPLORATION LLC	1/8+	921	70 343	N/A N/A	N/A	N/A	N/A
10*16976	G	9-7-25.2	LESTER G AND CONSTANCE B NICKOLSON				TH EXPLORATION LLC	1/8+	921 921	102	N/A	N/A	N/A	N/A
10*16977	G	9-7-25.2	JEREMY COCHENOUR				TH EXPLORATION LLC	1/8+	921	355	N/A	N/A	N/A	N/A
10*16987	G	9-7-25.2	LAURIE EZELL PERRY				TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+	921	376	N/A	N/A	N/A	N/A
10*16989	G	9-7-25.2	BRITTANY RICHARDSON				TH EXPLORATION LLC	1/8+	921	79	N/A	N/A	N/A	N/A
10*16991	G	9-7-25.2	MARYELLEN FOUNDS AND LAUREN FOUNDS				TH EXPLORATION LLC	1/8+	917	75	N/A	N/A	N/A	N/A
10*16996	G G	9-7-25.2 9-7-25.2	THOMAS RANKIN CINDY L BARGER				TH EXPLORATION LLC	1/8+	921	137	N/A	N/A	N/A	N/A
10*17130 10*17155	G	9-7-25.2	JESSE LEON JR AND TERESA GAIL EZELLE				TH EXPLORATION LLC	1/8+	921	118	N/A	N/A	N/A	N/A
10*17156	G	9-7-25.2	HENRI NELL JACKSON KENT BARNES				TH EXPLORATION LLC	1/8+	921	139	N/A	N/A	N/A	N/A
10*17157	G	9-7-25.2	JAMES N REEVES JR AND RITA M REEVES				TH EXPLORATION LLC	1/8+	921	367	N/A	N/A	N/A	N/A
10*17198	G	9-7-25.2	THOMAS G AND DIANE W BAYLESS				TH EXPLORATION LLC	1/8+	921	141	N/A	N/A	N/A	N/A
10*17205	G	9-7-25.2	SANDRA JEAN WILSON				TH EXPLORATION LLC	1/8+	921	524	N/A	N/A	N/A	N/A
10*17208	G	9-7-25.2	PATRICK S GALLAGHER AND JOYCE ANN FOUNDS				TH EXPLORATION LLC	1/8+	921	86	N/A	N/A	N/A	N/A
10*17274	G	9-7-25.2	DAVID H WILSON				TH EXPLORATION LLC	1/8+	921	474	N/A	N/A	N/A	N/A
10*17275	G	9-7-25.2	JOHN R REEVES AND MONA G REEVES				TH EXPLORATION LLC	1/8+	921	373	N/A	N/A	N/A	N/A
10*17276	G	9-7-25.2	BERTHA EZELL WYATT				TH EXPLORATION LLC	1/8+	921	526	N/A	N/A	N/A	N/A
10*17278	G	9-7-25.2	MICHAEL L EZELLE				TH EXPLORATION LLC	1/8+	921	121	N/A	N/A	N/A	N/A N/A
10*17339	G	9-7-25.2	JOSEPH W FOUNDS				TH EXPLORATION LLC	1/8+	921	76	N/A	N/A	N/A N/A	N/A
10*17377	G	9-7-25.2	MILTON HOWARD EZELLE JR AND ELIZABETH A EZELLE				TH EXPLORATION LLC	1/8+	921	123	N/A	N/A N/A	N/A	N/A
10*17416	G	9-7-25.2	ANDREW M ORTIZ				TH EXPLORATION LLC	1/8+	921	346	N/A	N/A	N/A	N/A
10*17438	G	9-7-25.2	DENNIS M WILSON				TH EXPLORATION LLC	1/8+	921 927	476 484	N/A N/A	N/A	N/A	N/A
10*17440	G	9-7-25.2	KENDRA WALISA				TH EXPLORATION LLC	1/8+		522	N/A	N/A	N/A	N/A
10*17441	G		RALPH J WILSON				TH EXPLORATION LLC	1/8+	921 921	134	N/A	N/A	N/A	N/A
10*17442	G	9-7-25.2					TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+	921	337	N/A	N/A	N/A	N/A
10*17443	G	9-7-25.2					TH EXPLORATION LLC	1/8+	921	99	N/A	N/A	N/A	N/A
10*17444	G	9-7-25.2					TH EXPLORATION LLC	1/8+	921	150	N/A	N/A	N/A	N/A
10*17449	G		PHYLLIS J BLAKE				TH EXPLORATION LLC	1/8+	927	487	N/A	N/A	N/A	N/A
10*17482	6	9-7-25.2 9-7-25.2					TH EXPLORATION LLC	1/8+	921	359	N/A	N/A	N/A	N/A
10*17483	G						TH EXPLORATION LLC	1/8+	921	330	N/A	N/A	N/A	N/A
10*17484 10*17485	G G	9-7-25.2 9-7-25.2					TH EXPLORATION LLC	1/8+	921	91	N/A	N/A	N/A	N/A
10*17485 10*17526	G	9-7-25.2					TH EXPLORATION LLC	1/8+	921	370	N/A	N/A	N/A	N/A
10 1/320	J	J 1-43.L						-						

WW-6A1 Suppleme	nt
-----------------	----

WW-6A1 Su	pplem	ent				Ē						Ol	perator's Well No. <u>T</u>	en High 1S-1
\mathcal{I}				8		ment of Protection								
				Ű	2018	ξţ								
2 10*17527	G	9-7-25.2	JAMES MICHAEL EZELL AND LUCILLE D EZELL	EIVED Oil and	2	5.6	TH EXPLORATION LLC	1/8+	921	111	N/A	N/A	N/A	N/A
0 10*17538	G	9-7-25.2	CHERYL RANKIN KING	≅ <u>~</u>	6	Ĕ₽	TH EXPLORATION LLC	1/8+	952	160	N/A	N/A	N/A	N/A
10*17552	G	9-7-25.2	JOHN BEVACQUA AND PATRICIA A BEVACQUA	ЩÖ	O 3	a art	TH EXPLORATION LLC	1/8+	921	144	N/A	N/A	N/A	N/A
0 10*17554	G	9-7-25.2	MICHAEL T RANKIN	<u> </u>		8. ja	TH EXPLORATION LLC	1/8+	921	361	N/A	N/A	N/A	N/A
10*17561	G	9-7-25.2	ROGER L TYRELL AND KATHRYN L TYRELL	ωģ	PR	۵ اؤ	TH EXPLORATION LLC	1/8+	921	519	N/A	N/A	N/A	N/A
10*17564	G	9-7-25.2	JAMES RONALD NICKOLSON AND TRACEY E NICKOLSON	Ę	ΑF	¥io ¥	TH EXPLORATION LLC	1/8+	921	340	N/A	N/A	N/A	N/A
10*17565	G	9-7-25.2	JESSE ALLEN JACKSON AND ELIZABETH D JACKSON	Ŏ	_	>.≧	TH EXPLORATION LLC	1/8+	921	327	N/A	N/A	N/A	N/A
10*17566	G	9-7-25.2	NATHAN P ERDOSSY AND BARBARA T ERDOSSY			Ē	TH EXPLORATION LLC	1/8+	921	108	N/A	N/A	N/A	N/A
10*17588	G	9-7-25.2	JAMES M JACKSON				TH EXPLORATION LLC	1/8+	921	325	N/A	N/A	N/A	N/A
10*17589	G	9-7-25.2	MARY CHRISTINE MCKENNA				TH EXPLORATION LLC	1/8+	921	332	N/A	N/A	N/A	N/A
10*17677	G	9-7-25.2	GEORGE M GONTA JR				TH EXPLORATION LLC	1/8+	921	89	N/A	N/A	N/A	N/A
10*17744	G	9-7-25.2	SAM PRESLEY EZELL				TH EXPLORATION LLC	1/8+	921	116	N/A	N/A	N/A	N/A
10*17983	G	9-7-25.2	HOLLY SUE CUTHBERT				TH EXPLORATION LLC	1/8+	925	380	N/A	N/A	N/A	N/A
10*18021 10*18022	G	9-7-25.2	CHRISTOPHER & JACKIE HANIFAN				TH EXPLORATION LLC	1/8+	927	267	N/A	N/A	N/A	N/A
	6	9-7-25.2	DALE P & CYNTHIA J WARD				TH EXPLORATION LLC	1/8+	927	264	N/A	N/A	N/A	N/A
10*19524	G	9-7-25.2	ESTATE OF AGNES IRENE E CLARK				TH EXPLORATION LLC	1/8+	942	633	N/A	N/A	N/A	N/A
10*19692	-	9-7-25.2	KENDRA WALISA				TH EXPLORATION LLC	1/8+	924	484	N/A	N/A	N/A	N/A
10*19693	G	9-7-25.2	MARIO R FUNARI BY HIS AIF ROBERT FUNARI				TH EXPLORATION LLC	1/8+	936	145	N/A	N/A	N/A	N/A
10*19695	G	9-7-25.2	VIRGINIA P FOUNDS KASSERMAN				TH EXPLORATION LLC	1/8+	944	333	N/A	N/A	N/A	N/A
10*19939	G	9-7-25.2	ROBERT J MILLS & SHERRA SUE MILLS				TH EXPLORATION LLC	1/8+	949	212	N/A	N/A	N/A	N/A
10*47051.223.12	G	9-7-25.2	ALICE GORBY MARTIN				TH EXPLORATION LLC	1/8+	908	52	N/A	N/A	N/A	N/A
10*47051.223.13	G	9-7-25.2	JAMES A GORBY				TH EXPLORATION LLC	1/8+	908	42	N/A	N/A	N/A	N/A
10*47051.223.15	G	9-7-25.2	LARRY D TAUNT AND NANCY L TAUNT				TH EXPLORATION LLC	1/8+	908	14	N/A	N/A	N/A	N/A
10*47051.223.20	G	9-7-25.2	BARBARA A BUZZARD				TH EXPLORATION LLC	1/8+	908	24	N/A	N/A	N/A	N/A
10*47051.223.21	G	9-7-25.2	GARY T WARD AND SHARON D WARD				TH EXPLORATION LLC	1/8+	908	19	N/A	N/A	N/A	N/A
10*47051.223.30	G	9-7-25.2	LAURIE DRIGGERS MANDERSON				TH EXPLORATION LLC	1/8+	908	165	N/A	N/A	N/A	N/A
10*47051.223.33	G	9-7-25.2	NANCY CIAFFAGLIONE HOUSLEY				TH EXPLORATION LLC	1/8+	908	185	N/A	N/A	N/A	N/A
10*47051.223.35	G	9-7-25.2	DEBRA L CIAFFAGLIONE				TH EXPLORATION LLC	1/8+	908	190	N/A	N/A	N/A	N/A
10*47051.223.6	G	9-7-25.2	JOSHUA RINE AND REBECCA RINE				TH EXPLORATION LLC	1/8+	907	634	N/A	N/A	N/A	N/A
10*47051.223.9	G	9-7-25.2	LINDA DELBERT				TH EXPLORATION LLC	1/8+	908	32	N/A	N/A	N/A	N/A
10*47051.303.1	G	9-7-25.2	THOMAS R WHITFIELD				TH EXPLORATION LLC	1/8+	890	401	N/A	N/A	N/A	N/A
10*47051.303.2	G 	9-7-25.2	KIMBERLY A WHITFIELD				TH EXPLORATION LLC	1/8+	890	403	N/A	N/A	N/A	N/A
10*47051.303.1	Н	9-7-25.1	THOMAS R WHITFIELD				TH EXPLORATION LLC	1/8+	890	401	N/A	N/A	N/A	N/A
10*47051.303.2	H	9-7-25.1	KIMBERLY A WHITFIELD				TH EXPLORATION LLC	1/8+	890	403	N/A	N/A	N/A	N/A
10*47051.303.1		9-7-25	THOMAS R WHITFIELD				TH EXPLORATION LLC	1/8+	890	401	N/A	N/A	N/A	N/A
10*47051.303.2	!	9-7-25	KIMBERLY A WHITFIELD				TH EXPLORATION LLC	1/8+	890	403	N/A	N/A	N/A	N/A
10*15481	,	9-12-4	DEAN P RIGBY AND SUSAN RIGBY				TH EXPLORATION LLC	1/8+	908	197	N/A	N/A	N/A	N/A
10*15482	,	9-12-4	SUSAN NELSON				TH EXPLORATION LLC	1/8+	908	203	N/A	N/A	N/A	N/A
10*15686	,	9-12-4	JOHN OMER BOLTZ				TH EXPLORATION LLC	1/8+	908	160	N/A	N/A	N/A	N/A
10*15750	,	9-12-4	SANDRA K TRULL				TH EXPLORATION LLC	1/8+	908	229	N/A	N/A	N/A	N/A
10*16058 10*16118	,	9-12-4	MATTIE RUTH JACKSON PRESCOTT				TH EXPLORATION LLC	1/8+	908	231	N/A	N/A	N/A	N/A
10*16297	,	9-12-4	RUBY RIDDLE JACKSON				TH EXPLORATION LLC	1/8+	908	233	N/A	N/A	N/A	N/A
10*16297	,	9-12-4	ROBERT A LEADBETTER AND M REBECCA LEADBETTER				TH EXPLORATION LLC	1/8+	908	235	N/A	N/A	N/A	N/A
	,	9-12-4	GEOFFREY A SHIEFER AND STEPHANIE L SCHIEFER				TH EXPLORATION LLC	1/8+	908	238	N/A	N/A	N/A	N/A
10*16383 10*16414	,	9-12-4	ROBERT STEPHEN DRIGGERS				TH EXPLORATION LLC	1/8+	908	224	N/A	N/A	N/A	N/A
10*16415	,	9-12-4	MARY ELIZABETH DRIGGERS				TH EXPLORATION LLC	1/8+	908	208	N/A N/A	N/A N/A	N/A	N/A N/A
10*16416	,	9-12-4	TERENCE J ANDERSON AND NANCY J ANDERSON				TH EXPLORATION LLC	1/8+	908	213	N/A	· ·	N/A	•
10*16424	,	9-12-4	CYNTHIA HUDSON				TH EXPLORATION LLC	1/8+	508	219	N/A	N/A	N/A	N/A
10*16424	,	9-12-4 9-12-4	ROBERT J RIGBY				TH EXPLORATION LLC TH EXPLORATION LLC	1/8+	908	241	N/A	N/A	N/A	N/A
10*16478	,		RALPH L AND JUANITA L CRIM MARION L AND EMILY CAMPBELL					1/8+	908	584	N/A	N/A	N/A	N/A
	•	9-12-4					TH EXPLORATION LLC	1/8+	908	245	N/A	N/A	N/A	N/A
10*16514 10*16515	,	9-12-4	ALEX RUSSELL AND JOYCE A CAMPBELL				TH EXPLORATION LLC	1/8+	908	248	N/A	N/A	N/A	N/A
10*16515	,	9-12-4	ANNA MARIE JACKSON				TH EXPLORATION LLC	1/8+	908	251	N/A	N/A	N/A	N/A
10*16516 10*16545	,	9-12-4	WILSON ANDREW JACKSON ROBERT G & ELLEN FOUNDS				TH EXPLORATION LLC	1/8+	908	253	N/A	N/A	N/A	N/A
10*16545 10*16662	,	9-12-4					TH EXPLORATION LLC	1/8+	908	260	N/A	N/A	N/A	N/A
10*16666	,	9-12-4	RICHARD THOMAS AND VICKI J MIMS				TH EXPLORATION LLC	1/8+	908	863	N/A	N/A	N/A	N/A
10.10000	,	9-12-4	MICHAEL P PYLE				TH EXPLORATION LLC	1/8+	908	255	N/A	N/A	N/A	N/A

Operator's Well No. <u>Ten High 1S-15HU</u>

WW-6A1 Su	pplement	න ග	œ	ment of Protection						0	perator's Well No.]	Ten High 1S-15HU
7		σ̈́	2018	5 5								
ζ.		CHARLES F AND GAIL ANN PYLE JACK I AND MERRILEE PYLE JOHN S AND PATRICE S DADO CHERYLE M TRACEY	0	7 E.Y.							21.52	
O 10*16667	J 9-12-4	CHARLES F AND GAIL ANN PYLE	6	WV Departr Environmental	TH EXPLORATION LLC	1/8+	908	266	N/A	N/A	N/A	N/A
10*16668	J 9-12-4	JACK I AND MERRILEE PYLE		<u>20</u>	TH EXPLORATION LLC	1/8+	908	257	N/A	N/A	N/A	N/A
0 10*16669	J 9-12-4	JOHN S AND PATRICIA S DADO	œ	عِ ثُمُ ع	TH EXPLORATION LLC	1/8+	908	269	N/A N/A	N/A	N/A N/A	N/A N/A
10.16686	J 9-12-4	CHARLE WINGE	ΔPR	- ≥₽	TH EXPLORATION LLC	1/8+	927 927	475 481	N/A N/A	N/A N/A	N/A	N/A
10*16688	J 9-12-4	SHERRYL PYLE BAIR	7	, ≥.≩	TH EXPLORATION LLC	1/8+	927 927	478	N/A N/A	N/A N/A	N/A	N/A
10*16689 10*16690	J 9-12-4 J 9-12-4	JOHN C FOUNDS RICARDO ORTIZ		ᇤ	TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+	921	352	N/A	N/A	N/A	N/A
10*16720	J 9-12-4	DONNA ELAINE BRASKETT			TH EXPLORATION LLC	1/8+	921	152	N/A	N/A	N/A	N/A
10*16738	J 9-12-4	CHARLES A RINE AND RUTH K RINE			TH EXPLORATION LLC	1/8+	908	274	N/A	N/A	N/A	N/A
10*16742	J 9-12-4	PAUL C WILSON			TH EXPLORATION LLC	1/8+	924	490	N/A	N/A	N/A	N/A
10*16747	J 9-12-4	WILLIAM DALE BRASKETT			TH EXPLORATION LLC	1/8+	921	96	N/A	N/A	N/A	N/A
10*16787	J 9-12-4	HERBERT B CAMPBELL & DONNA D CAMPBELL			TH EXPLORATION LLC	1/8+	942	451	N/A	N/A	N/A	N/A
10*16798	J 9-12-4	PATRICK A RANKIN AND ROBIN A RANKIN			TH EXPLORATION LLC	1/8+	921	364	N/A	N/A	N/A	N/A
10*16800	J 9-12-4	JAMES KENNETH JACKSON AND JULIE JACKSON			TH EXPLORATION LLC	1/8+	921	93	N/A	N/A	N/A	N/A
10*16802	J 9-12-4	CHRISTOPHER AND TAMMY RICHARDSON			TH EXPLORATION LLC	1/8+	921	495	N/A	N/A	N/A	N/A
10*16804	J 9-12-4	WILLIAM N AND SHERRY D TAYLOR			TH EXPLORATION LLC	1/8+	921	510	N/A	N/A	N/A	N/A
10*16806	J 9-12-4	VIRGINIA WHITMAN TRUST DTD 7-25-1984 JON WHITMAN TRUSTEE			TH EXPLORATION LLC	1/8+	921	528	N/A	N/A	N/A	N/A
10*16807	J 9-12-4	DAVID TULLER AND SUSAN STORTS TULLER			TH EXPLORATION LLC	1/8+	921	513	N/A	N/A	N/A	N/A
10*16808	J 9-12-4	MICHAEL L ORTIZ			TH EXPLORATION LLC	1/8+	921	349	N/A	N/A	N/A	N/A
10*16815	J 9-12-4	HAROLD W PYLE			TH EXPLORATION LLC	1/8+	921	357	N/A	N/A	N/A	N/A
10*16819	J 9-12-4	TERESA ORTIZ BIGGS			TH EXPLORATION LLC	1/8+	921	147	N/A	N/A	N/A	N/A
10*16821	J 9-12-4	SHEILA BRASKETT WEICHEY			TH EXPLORATION LLC	1/8+	921	516	N/A	N/A	N/A	N/A
10*16836	J 9-12-4	RICK A AND LENORE A STORTS			TH EXPLORATION LLC	1/8+	921	507	N/A	N/A	N/A	N/A
10*16837	J 9-12-4	TERRY L AND THELMA A POFF			TH EXPLORATION LLC	1/8+	927	472	N/A	N/A	N/A	N/A
10*16838	J 9-12-4	ROBERT G FUNARI			TH EXPLORATION LLC	1/8+	921	82	N/A	N/A	N/A	N/A N/A
10*16839	J 9-12-4	JAMES B FOUNDS AND LYNN M MOWERY			TH EXPLORATION LLC	1/8+	921	73	N/A	N/A N/A	N/A N/A	N/A N/A
10*16863	J 9-12-4	TINA MOORE			TH EXPLORATION LLC	1/8+	921	334	N/A	N/A N/A	N/A N/A	N/A
10*16868	J 9-12-4	MICHAEL W STORTS AND JESSICA M STORTS			TH EXPLORATION LLC	1/8+	921	504 501	N/A N/A	N/A	N/A	N/A
10*16879 10*16880	J 9-12-4	MARK E AND LESLEY A STORTS			TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+	921 921	498	N/A	N/A	N/A	N/A
10*16902	J 9-12-4 J 9-12-4	BEVERLY ANN STORTS MARY BARCAW DUKE			TH EXPLORATION LLC	1/8+	921	105	N/A	N/A	N/A	N/A
10*16962	J 9-12-4	DENNIS P AND BARBARA EZELL FLORY			TH EXPLORATION LLC	1/8+	921	70	N/A	N/A	N/A	N/A
10*16976	J 9-12-4	LESTER G AND CONSTANCE B NICKOLSON			TH EXPLORATION LLC	1/8+	921	343	N/A	N/A	N/A	N/A
10*16977	J 9-12-4	JEREMY COCHENOUR			TH EXPLORATION LLC	1/8+	921	102	N/A	N/A	N/A	N/A
10*16987	J 9-12-4	LAURIE EZELL PERRY			TH EXPLORATION LLC	1/8+	921	355	N/A	N/A	N/A	N/A
10*16989	J 9-12-4	BRITTANY RICHARDSON			TH EXPLORATION LLC	1/8+	916	135	N/A	N/A	N/A	N/A
10*16991	J 9-12-4	MARYELLEN FOUNDS AND LAUREN FOUNDS			TH EXPLORATION LLC	1/8+	921	79	N/A	N/A	N/A	N/A
10*16996	J 9-12-4	THOMAS RANKIN			TH EXPLORATION LLC	1/8+	917	75	N/A	N/A	N/A	N/A
10*17130	J 9-12-4	CINDY L BARGER			TH EXPLORATION LLC	1/8+	921	137	N/A	N/A	N/A	N/A
10*17155	J 9-12-4	JESSE LEON JR AND TERESA GAIL EZELLE			TH EXPLORATION LLC	1/8+	921	118	N/A	N/A	N/A	N/A
10*17156	J 9-12-4	HENRI NELL JACKSON KENT BARNES			TH EXPLORATION LLC	1/8+	921	139	N/A	N/A	N/A	N/A
10*17157	J 9-12-4	JAMES N REEVES JR AND RITA M REEVES			TH EXPLORATION LLC	1/8+	921	367	N/A	N/A	N/A	N/A
10*17198	J 9-12-4	THOMAS G AND DIANE W BAYLESS			TH EXPLORATION LLC	1/8+	921	141	N/A	N/A	N/A	N/A
10*17205	J 9-12-4	SANDRA JEAN WILSON			TH EXPLORATION LLC	1/8+	921	524	N/A	N/A	N/A	N/A
10*17208	J 9-12-4	PATRICK S GALLAGHER AND JOYCE ANN FOUNDS			TH EXPLORATION LLC	1/8+	921	86	N/A	N/A	N/A	N/A
10*17274	J 9-12-4	DAVID H WILSON			TH EXPLORATION LLC	1/8+	921	474	N/A	N/A	N/A	N/A
10*17275	J 9-12-4	JOHN R REEVES AND MONA G REEVES			TH EXPLORATION LLC	1/8+	921	373	N/A	N/A	N/A	N/A
10*17276	J 9-12-4	BERTHA EZELL WYATT			TH EXPLORATION LLC	1/8+	921	526	N/A	N/A	N/A N/A	N/A N/A
10*17278	J 9-12-4	MICHAEL L EZELLE			TH EXPLORATION LLC	1/8+	921	121	N/A	N/A	N/A N/A	N/A
10*17339	J 9-12-4	JOSEPH W FOUNDS			TH EXPLORATION LLC	1/8+	921	76 122	N/A N/A	N/A N/A	N/A N/A	N/A N/A
10*17377	J 9-12-4	MILTON HOWARD EZELLE JR AND ELIZABETH A EZELLE			TH EXPLORATION I.C	1/8+	921 921	123 346	N/A N/A	N/A N/A	N/A N/A	N/A
10*17416	J 9-12-4	ANDREW M ORTIZ			TH EXPLORATION LLC	1/8+ 1/8+	921 921	346 476	N/A N/A	N/A N/A	N/A N/A	N/A
10*17438 10*17440	J 9-12-4 J 9-12-4	DENNIS M WILSON KENDRA WALISA			TH EXPLORATION LLC TH EXPLORATION LLC	1/8+	921 927	484	N/A	N/A	N/A	N/A
10*17441	J 9-12-4 J 9-12-4	RALPH J WILSON			TH EXPLORATION LLC	1/8+	921	522	N/A N/A	N/A	N/A	N/A
10*17441	J 9-12-4 J 9-12-4	SHANE ALLEN AND MENDY JEAN ALLEN			TH EXPLORATION LLC	1/8+	921	134	N/A	N/A	N/A	N/A
10*17443	J 9-12-4	MICHELLE MORROW-BACK			TH EXPLORATION LLC	1/8+	921	337	N/A	N/A	N/A	N/A
20 2						-, -			•	-	•	-

WW-6A1	Supp	lement
--------	------	--------

_				ğ
d 10*17444	J	9-12-4	KELLY FOUNDS CAMPBELL	ÜΞ
Q 10*17449	1	9-12-4	PHYLLIS J BLAKE	≅.≅
C 10*17482	1	9-12-4	TERESA EZELLE RALYA AND DAVID L RALYA	ЩÖ
10*17483	J	9-12-4	RICHARD I PYLE	ద్దా
10*17484	J	9-12-4	NELDA S JACKSON	cc ö
10*17485	J	9-12-4	MARGIE ANN JACKSON ROBBINS GRAHAM	£
10*17526	J	9-12-4	JEFFREY L REEVES AND JODY L REEVES	õ
10*17527	J	9-12-4	JAMES MICHAEL EZELL AND LUCILLE D EZELL	
10*17538	J	9-12-4	CHERYL RANKIN KING	
10*17552	J	9-12-4	JOHN BEVACQUA AND PATRICIA A BEVACQUA	
10*17554	J	9-12-4	MICHAEL T RANKIN	
10*17561	J	9-12-4	ROGER L TYRELL AND KATHRYN L TYRELL	
10*17564	J	9-12-4	JAMES RONALD NICKOLSON AND TRACEY E NICKOLSON	
10*17565	J	9-12-4	JESSE ALLEN JACKSON AND ELIZABETH D JACKSON	
10*17566	J	9-12-4	NATHAN P ERDOSSY AND BARBARA T ERDOSSY	
10*17588	J	9-12-4	JAMES M JACKSON	
10*17589	J	9-12-4	MARY CHRISTINE MCKENNA	
10*17677	j	9-12-4	GEORGE M GONTA JR	
10*17744	J	9-12-4	SAM PRESLEY EZELL	
10*17983	j	9-12-4	HOLLY SUE CUTHBERT	
10*18021	j	9-12-4	CHRISTOPHER & JACKIE HANIFAN	
10*18022	j	9-12-4	DALE P & CYNTHIA J WARD	
10*19524	j	9-12-4	ESTATE OF AGNES IRENE E CLARK	
10*19693	j	9-12-4	MARIO R FUNARI BY HIS AIF ROBERT FUNARI	
10*19695	j	9-12-4	VIRGINIA P FOUNDS KASSERMAN	
10*19939	j	9-12-4	ROBERT J MILLS & SHERRA SUE MILLS	
10*47051,223.1	j	9-12-4	JEAN ANNE GORBY STORCH	
10*47051.223.10	j	9-12-4	ROBERT E GORBY	
10*47051.223.11	j	9-12-4	ELIZABETH ESTEP	
10*47051,223.12	1	9-12-4	ALICE GORBY MARTIN	
10*47051,223,13	i	9-12-4	JAMES A GORBY	
10*47051,223,14	j	9-12-4	JUSTIN RINE AND BECKY RINE	
10*47051,223,15	j	9-12-4	LARRY D TAUNT AND NANCY L TAUNT	
10*47051.223.16	j	9-12-4	BETTY LOU STERN AND WILLIAM KEITH STERN	
10*47051.223.17	j	9-12-4	RALPH E HUNTER JR AND CHARLOTTE HUNTER	
10*47051.223.18	j	9-12-4	BRITTNEY MENEAR	
10*47051.223.19	i	9-12-4	JASON RINE AND HEATHER RINE	
10*47051,223,20	í	9-12-4	BARBARA A BUZZARD	
10*47051,223,21	i	9-12-4	GARY T WARD AND SHARON D WARD	
10*47051.223.22	i	9-12-4	SALLY COLE	
10*47051,223,23	j	9-12-4	RONALD S CRIM	
10*47051,223,24	j	9-12-4	JO DEE K DAVIS	
10*47051.223.25	j	9-12-4	JOANNE WELCH	
10*47051.223.26	j	9-12-4	WENDY L SMARKEL	
10*47051.223.27	j	9-12-4	TIMI J HOBBS	
10*47051,223,28	j	9-12-4	KAREN S GAST	
10*47051.223.29	j	9-12-4	PATSY JO RAJU	
10*47051.223.30	j	9-12-4	LAURIE DRIGGERS MANDERSON	
10*47051.223.31	j	9-12-4	JANICE M GONTA GAVALIK	
10*47051.223.32	j	9-12-4	JOSEPH GORBY DAKAN	
10*47051.223.33	j	9-12-4	NANCY CIAFFAGLIONE HOUSLEY	
10*47051.223.34	į	9-12-4	JOHN CIAFFAGLIONE	
10*47051.223.35	,	9-12-4 9-12-4	DEBRA L CIAFFAGLIONE	
10*47051.223.5	j	9-12-4 9-12-4	HAROLD S BROWN II AND MARIA A BROWN	
10*47051.223.6	,	9-12-4	JOSHUA RINE AND REBECCA RINE	
10*47051.223.6	j	9-12-4 9-12-4	JACK R WILSON JR AND JANE A WILSON	
10*47051.223.8	i	9-12-4 9-12-4	DAVID M WILSON	
20 4/0J1.223.0	,	3-14-4	DUATE IN BAILTING	

WV Department of Environmental Protection

APR 9 2018

Operator's Well No. <u>Ten High 1S-15HU</u>

TH EXPLORATION LLC	1/8+	921	99	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	150	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	927	487	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	359	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	330	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	91	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	370	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	111	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	952	160	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	144	N/A	N/A	N/A	N/A
	•	921	361	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+				N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	519	N/A		N/A	N/A
TH EXPLORATION LLC	1/8+	921	340	N/A	N/A		N/A
TH EXPLORATION LLC	1/8+	921	327	N/A	N/A	N/A	
TH EXPLORATION LLC	1/8+	921	108	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	325	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	332	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	89	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	116	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	925	380	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	927	267	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	927	264	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	942	633	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	936	145	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	944	333	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	949	212	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	877	216	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	47	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	37	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	52	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	42	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	639	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	14	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	64	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	9	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	57	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	629	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	24	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	19	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	74	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	79	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	136	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	141	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	69	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	277	N/A	N/A	N/A	N/A
		908	150	N/A	N/A	N/A	N/A
TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+	908	155	N/A	N/A	N/A	N/A
				N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	165		N/A N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	180	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	175	N/A	N/A N/A	N/A N/A	N/A
TH EXPLORATION LLC	1/8+	908	185	N/A			N/A N/A
TH EXPLORATION LLC	1/8+	927	267	N/A	N/A	N/A	N/A N/A
TH EXPLORATION LLC	1/8+	927	264	N/A	N/A	N/A	
TH EXPLORATION LLC	1/8+	907	641	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	634	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	908	4	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	649	N/A	N/A	N/A	N/A

,	WW-6A1 Suppl	eme	nt		g		WV Department of Environmental Protection
<u> </u>					RECEIVED Office of Oil and Gas	2018	te de
Ή	10*47051.223.9	J	9-12-4	LINDA DELBERT	55	22	ρ̈́ς
ď	10*47051.222.1	K	9-12-5	DONALD D MCCARDLE AND LUCY MCCARDLE	<u>a</u> —	တ	<u>‡</u> #
	10*47051.222.1	L	9-12-6.1	DONALD D MCCARDLE AND LUCY MCCARDLE	ΠÖ	U .	젊
	10*47051.222.1	М	9-12-6	DONALD D MCCARDLE AND LUCY MCCARDLE	Sign		<u> </u>
7	10*47051.222.1	N	9-12-7	DONALD D MCCARDLE AND LUCY MCCARDLE	E 0	APR	75
	10*47051.222.10	N	9-12-7	CHRISTINA CAIN	ည္	A T	₹.2
-	10*47051.222.11	N	9-12-7	MARK DAVID HUNT	Ö	_	2
	10*47051.222.12	N	9-12-7	MELISSA ELAINE SCHROTH			Ш
	10*47051.222.13	N	9-12-7	BRETT J LAUSIN SR			
	10*47051.222.14	N	9-12-7	MICHAEL E LAUSIN AND SHARON G LAUSIN			
	10*47051.222.2	N	9-12-7	PATRICIA A GULUTZ AND THOMAS L GULUTZ			
	10*47051.222.3	N	9-12-7	SHARON L SMITH			
	10*47051.222.4	N	9-12-7	KENNETH M MCCARDLE AND DELORES MCCARDLE			
	10*47051.222.5	N	9-12-7	DONALD B WESLEY AND SUSAN J WESLEY			
	10*47051.222.6	N	9-12-7	DIANA S GRAFTON AND TIMOTHY A GRAFTON			
	10*47051.222.7	N	9-12-7	FREDRICK M YEATER AND SHERI C YEATER			
	10*47051.222.8	N	9-12-7	LEONARD O HABERBOSCH			
	10*47051.222.9	N	9-12-7	TERRIE L LAUSIN			
	10*47051.289.1	0	9-12-8	JANICE M HIXSON AND HARRY C HIXSON			
	10*47051.289.2	0	9-12-8	KENNETH D MCMECHEN			
	10*15474	P	9-12-22	CLARK C SAMPSON			
	10*15480	P	9-12-22	DOTTIE HERSMAN			
	10*15491	P	9-12-22	NORMAN L WOOD			
	10*15691	P	9-12-22	ALLIETTA J RUCKER AND RONALD R RUCKER			
	10*15692	P	9-12-22	EVA A COULTER			
	10*15693	P	9-12-22	EVERETT A WOOD			
	10*15732	P	9-12-22	JOAN R CUNNINGHAM AND MARK A CUNNINGHAM			
	10*15745	P	9-12-22	BRENDA L KING			
	10*16010	P	9-12-22	DONNA M RIGGS AND ROBERT H RIGGS			
	10*16012	P	9-12-22	PAULA K PAGE AND PHILLIP G PAGE			
	10*16013	Р	9-12-22	HERBERT H BURKHART AND BETTY J BURKHART			
	10*16014	Р	9-12-22	MARY KAY KESSLER AND ROY LEE KESSLER			
	10*16022	P	9-12-22	ALBERT D BURKHART			
	10*16023	P	9-12-22	BARBARA J BROWN			
	10*16057	P	9-12-22	CORA ALICE DAUBE			
	10*16119	P	9-12-22	JEFFREY L EWASKEY			
	10*16151	P	9-12-22	JOHN HARRIS AND HELEN VIRGINIA HARRIS			
	10*16193	P	9-12-22	NANCY L WOLFE			
	10*16195	P	9-12-22	DAVID P NIERATKO AND JUDY C NIERATKO			
	10*16245	P	9-12-22	MARGARET D STRAUSSER AND GREGORY L STRAUSSER			
	10*16293	P	9-12-22	DANIEL LEE AND DIANA M WEST			
	10*16294	P	9-12-22	DONNA G AND PAUL L CHMELYNSKI			
	10*16296	P	9-12-22	DOUGLAS E COURTWRIGHT AND JESSAMINE L COURTWRIGHT	Γ		
	10*16361	P	9-12-22	ROBERT M WOOD AND CAROL ANN WOOD			
	10*16371	P	9-12-22	VERA L APPLEGARTH			
	10*16411	P	9-12-22	BONNIE L WOOD			
	10*16419	P	9-12-22	MELVIN B WOOD			
	10*16427	P	9-12-22	LURIA ALWANDA COOLEY			
	10*16430	P	9-12-22	EULELAH V RIDDLE			
	10*16449	P	9-12-22	BILLIE ALBERTA MIDDLETON			
	10*16450	P	9-12-22	JAMES D RAYNER AND PATRICIA ANN RAYNER			
	10*16451	P	9-12-22	JAMIE A SMITH AND JOSHUA C SMITH			
	10*16466	P	9-12-22	KAREN J AND MICHAEL E BRUGGEMAN			
	10*16467	P	9-12-22	CHARLES A AND GARY LYNN ECKHARDT			
	10*16542	P	9-12-22	CAROL ANN YEATER AND RICKEY A YEATER			
	10*16543	P	9-12-22	JERRY R AND JACQUELYNN E RUTHERS			
	10*16544	P	9-12-22	NORMA JEAN ROGERS AND DONALD L ROGERS SR			

Operator's Well No. <u>Ten High 1S-15HU</u>

TH EXPLORATION LLC	1/8+	908	32	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	879	314	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	879	314	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	879	314	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	879	314	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	27	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	904	451	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	904	453	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	205	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	913	526	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	888	640	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	894	487	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	888	642	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	895	76	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	898	571	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	898	626	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	902	442	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	904	591	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	898	461	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	898	463	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	495	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	497	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	507	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	509	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	511	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	513	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	515	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	517	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	519	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	522	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	524	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	526	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	528	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	530	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	532	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	569	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	573	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	575	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	929	344	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	577	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	579	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	581	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	583	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	499	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	503	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	501	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	505	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	585	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	587	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	613	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	615	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	617	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	619	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	621	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	623	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	625	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907	627	N/A	N/A	N/A	N/A

M/M/-6A1	Supplement
AA AA -OWT	Jupplement

WW-6A1 Su	ınnlem	ent										0	perator's Well No.	<u>Ten High 1S-15H</u>
	ippiciii	CIIC		_		ment of Protection							•	
Σ				Gas		ਰੂਜ਼ ਹੈ ਜ਼ਿਲ੍ਹ								
7 10*16681	Р	9-12-22	BRENDA S THOMPSON	<u>o</u>	2018	± g	TH EXPLORATION LLC	1/8+	929	350	N/A	N/A	N/A	N/A
10*16682	P	9-12-22	CYNTHIA A AND WILLIAM D FETTY	of Oil and	20	ρΣ	TH EXPLORATION LLC	1/8+	929	616	N/A	N/A	N/A	N/A
10*16683	P	9-12-22	FRANKLIN CLARK PATRICIA FENSTERMACHER	<u> </u>	တ	\$5	TH EXPLORATION LLC	1/8+	929	346	N/A	N/A	N/A	N/A
10*16846	P	9-12-22	PAMELA SUE BURGE	įö	U 3	WV Departi Environmental	TH EXPLORATION LLC	1/8+	929	348	N/A	N/A	N/A	N/A
10*16847		9-12-22	WILLIAM L AND JENNIFER R EWASKEY	345		<u> </u>	TH EXPLORATION LLC	1/8+	929	352	N/A	N/A	N/A	N/A
10*16889	,			- 6	ĞΞ	으늘	TH EXPLORATION LLC	1/8+	929	354	N/A	N/A	N/A	N/A
	P	9-12-22	HAROLD H CLARK JR	ည္	AP	≥ē	TH EXPLORATION LLC	1/8+	929	356	N/A	N/A	N/A	N/A
10*16921	P	9-12-22	HAZEL CLARK ROSENLUND	ď	_	> 💈	TH EXPLORATION LLC	1/8+	929	360	N/A	N/A	N/A	N/A
10*16974	P	9-12-22	BRANDY L WOOD	_		ជ្ជ		1/8+	929	358	N/A	N/A	N/A	N/A
10*16975	P -	9-12-22	TIMOTHY J WOOD				TH EXPLORATION LLC	1/8+	929	584	N/A	N/A	N/A	N/A
10*16988	P	9-12-22	CHAD ERIC BENNETT AND MARY A BENNETT				TH EXPLORATION LLC		929	362	N/A	N/A	N/A	N/A
10*16998	P	9-12-22	MISTY JO WOOD AND GARY A MORRIS				TH EXPLORATION LLC	1/8+	929	586	N/A	N/A	N/A	N/A
10*17183	P	9-12-22	TARA E BENNETT				TH EXPLORATION LLC	1/8+		594	N/A	N/A	N/A	N/A
10*17277	P	9-12-22	GUY C ANDO AND WENDY PYLES ANDO				TH EXPLORATION LLC	1/8+	929	592		N/A	N/A	N/A
10*17280	P	9-12-22	BONNIE M KIDD AND CHARLES R KIDD				TH EXPLORATION LLC	1/8+	929		N/A	N/A	N/A	N/A
10*17281	P	9-12-22	STACY R BENNETT				TH EXPLORATION LLC	1/8+	929	590 588	N/A	N/A	N/A	N/A
10*17282	P	9-12-22	CARLIS LEON CLARK				TH EXPLORATION LLC	1/8+	929		N/A	N/A	N/A	N/A
10*17423	P	9-12-22	LORI ANN WEST				TH EXPLORATION LLC	1/8+	929	596	N/A		N/A	N/A
10*17424	P	9-12-22	CAROL A CLARK				TH EXPLORATION LLC	1/8+	929	598	N/A	N/A	•	
10*17446	P	9-12-22	GREGORY DEAN CLARK AND MARY ANN CLARK				TH EXPLORATION LLC	1/8+	929	600	N/A	N/A	N/A	N/A
10*17488	Р	9-12-22	SUSANNA M DENIS				TH EXPLORATION LLC	1/8+	929	604	N/A	N/A	N/A	N/A
10*17495	P	9-12-22	KEVIN R CLARK AND NANCY G CLARK				TH EXPLORATION LLC	1/8+	929	608	N/A	N/A	N/A	N/A
10*17498	P	9-12-22	MICHAEL R DODD AND LISA M DODD				TH EXPLORATION LLC	1/8+	929	614	N/A	N/A	N/A	N/A
10*17521	P	9-12-22	BETTY LOU MCMILLAN AND WILLIAM A MCMILLAN				TH EXPLORATION LLC	1/8+	929	610	N/A	N/A	N/A	N/A
10*17522	P	9-12-22	RONALD D CLARK AND TAMMY C CLARK				TH EXPLORATION LLC	1/8+	929	612	N/A	N/A	N/A	N/A
10*17523	P	9-12-22	ROBERT R CLARK II				TH EXPLORATION LLC	1/8+	929	620	N/A	N/A	N/A	N/A
10*17529	P	9-12-22	HARRY C BURGE JR AND CAROL S BURGE				TH EXPLORATION LLC	1/8+	929	602	N/A	N/A	N/A	N/A
10*17558	P	9-12-22	SHIRLEY IRENE VANOVER				TH EXPLORATION LLC	1/8+	929	618	N/A	N/A	N/A	N/A
10*17585	P	9-12-22	DEBORAH L LUGO AND RONALD J LUGO				TH EXPLORATION LLC	1/8+	929	622	N/A	N/A	N/A	N/A
10*17587	P	9-12-22	DONNA SUE BEVERIDGE AND EARL P BEVERIDGE				TH EXPLORATION LLC	1/8+	929	626	N/A	N/A	N/A	N/A
10*17624	P	9-12-22	SHIRLEY E ELKINS				TH EXPLORATION LLC	1/8+	928	557	N/A	N/A	N/A	N/A
10*17704	P	9-12-22	BETTY L & ROY S PEARCE				TH EXPLORATION LLC	1/8+	929	628	N/A	N/A	N/A	N/A
10*17714	P	9-12-22	RUSSELL A CLARK AND CATHERINE CLARK				TH EXPLORATION LLC	1/8+	929	630	N/A	N/A	N/A	N/A
10*18106	P	9-12-22	TIMOTHY HEWITT				TH EXPLORATION LLC	1/8+	929	628	N/A	N/A	N/A	N/A
10*18237	P	9-12-22	CLARENCE LEE CLARK				TH EXPLORATION LLC	1/8+	930	3	N/A	N/A	N/A	N/A
10*18238	P	9-12-22	KATHRYN L ATWELL				TH EXPLORATION LLC	1/8+	930	1	N/A	N/A	N/A	N/A
10*18239	P	9-12-22	VERA S CAIN				TH EXPLORATION LLC	1/8+	929	649	N/A	N/A	N/A	N/A
10*18240	Р	9-12-22	JODY CLARK ELLIOTT				TH EXPLORATION LLC	1/8+	929	647	N/A	N/A	N/A	N/A
10*18241	P	9-12-22	VENCON E DAVIS				TH EXPLORATION LLC	1/8+	934	596	N/A	N/A	N/A	N/A
10*18242	P	9-12-22	WILLIAM R DODD AND NANCY DODD				TH EXPLORATION LLC	1/8+	929	645	N/A	N/A	N/A	N/A
10*47051.289.1	P	9-12-22	JANICE M HIXSON AND HARRY C HIXSON				TH EXPLORATION LLC	1/8+	898	461	N/A	N/A	N/A	N/A
10*47051.289.2	P.	9-12-22	KENNETH D MCMECHEN				TH EXPLORATION LLC	1/8+	898	463	N/A	N/A	N/A	N/A
10*47051.289.3	P	9-12-22	NELLIE JOANN CLARK				TH EXPLORATION LLC	1/8+	907	493	N/A	N/A	N/A	N/A
10 4/051.205.5	•	3-12-22	HELLE JOHN COMM				AMERICAN PETROLEUM	-7-						
	_						PARTNERS OPERATING LLC	1 (0)	935	216	N/A	N/A	N/A	APP to Tug Hill: 40/408
10*19724	Q	9-12-24	VENABLE ROYALTY LTD AND VENRO LTD					1/8+		552	N/A	N/A	N/A	N/A
10*15484	R	9-12-29	LISA R IMHOFF AND CHAD IMHOFF				TH EXPLORATION LLC	1/8+	913	482		N/A	N/A	N/A
10*15681	R	9-12-29	THELMA W BIRDWELL				TH EXPLORATION LLC	1/8+	921	482	N/A	N/A	N/A	N/A
10*15685	R	9-12-29	TRACY RAND				TH EXPLORATION LLC	1/8+	906	•	N/A	N/A	N/A	N/A
10*16033	R	9-12-29	MELINDA M GREENOUGH AND DOUGLAS CORWIN GREENO	UGH			TH EXPLORATION LLC	1/8+	926	616	N/A	11/0	14,	N/A
10*16036	R	9-12-29	CLARISSA MALONE				TH EXPLORATION LLC	1/8+	926	614	N/A	N/A	N/A N/A	N/A N/A
10*16111	R	9-12-29	KATHLEEN D AND STEVEN MONIGOLD				TH EXPLORATION LLC	1/8+	926	619	N/A	N/A	N/A	
10*16283	R	9-12-29	RHONDA L PALASOTA AND SAM A PALASOTA				TH EXPLORATION LLC	1/8+	913	583	N/A	N/A	N/A	N/A
10*16334	R	9-12-29	LOLA F BLEVINS				TH EXPLORATION LLC	1/8+	914	416	N/A	N/A	N/A	N/A
10*16364	R	9-12-29	STEVEN P ROBERTS				TH EXPLORATION LLC	1/8+	914	418	N/A	N/A	N/A	N/A
10*16380	R	9-12-29	DONNA BURNS				TH EXPLORATION LLC	1/8+	926	611	N/A	N/A	N/A	N/A
10*16525	R	9-12-29	THE JENNIFER TEACHNOR GAFFEY LIVING TRUST DATED OCT	OBER 3	OTH 201	3	TH EXPLORATION LLC	1/8+	926	637	N/A	N/A	N/A	N/A
10*16527	R	9-12-29	ROSELLA M HORR AND WILLARD L HORR				TH EXPLORATION LLC	1/8+	927	4	N/A	N/A	N/A	N/A
10*16606	R	9-12-29	WILLIAM T AND BARBARA W PAUL				TH EXPLORATION LLC	1/8+	919	252	N/A	N/A	N/A	N/A

Operator's Well No. Ten High 1S-15HU

operator s trem ito. Item ingit 25 25ito	Operator's	Well I	No.	<u>Ten</u>	High	1S-15HL
--	------------	--------	-----	------------	------	---------

TH EXPLORATION LLC	1/8+	909	72	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	926	639	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	919	252	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	545	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	924	545	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	925	366	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	927	280	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	928	74	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	928	567	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	939	381	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	948	258	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	945	481	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	949	353	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	949	349	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	951	191	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	939	598	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	939	267	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	956	622	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	956	619	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	957	150	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	958	459	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	958	463	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	948	560	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	951	167	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	954	349	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	961	420	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	569	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	549	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	553	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	561	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	565	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	573	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	576	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	557	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	614	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	545	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905	16	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	866	318	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	873	501	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	866	318	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	873	501	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	866	318	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	873	501	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	464	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	449	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	467	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	909	520	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	456	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	458	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	454	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	451	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	921	460	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	929	342	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	961	333	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	961 DENC	511 VNG	N/A	N/A N/A	N/A N/A	N/A
TH EXPLORATION LLC	1/8+	PENC PENC		N/A	N/A N/A	•	N/A
TH EXPLORATION LLC	1/8+	PENL	DNN	N/A	N/A	N/A	N/A

「「WW-6A1 Su	pplem	ent							
/									
Ġ									
10*16607	R	9-12-29	LOUISE M AND WILSON D MCELHINNY						
O 10*16748	R	9-12-29	KATHRYN BROWN AND BRUCE G BROWN						
10*17815	R	9-12-29	THE TESTAMENTARY TRUST OF CAREY B PAUL III						
10*17890	R	9-12-29	JANICE MEDER TRST MEDER LIVING						
\010*17893	R	9-12-29	ERIC D & AMANDA N PETRUCCI						
10*17978	R	9-12-29	MARGARET INGALLS SCHICK						
10*18018	R	9-12-29	KATHARINE & WILLIAM BUCKHAM						
10*18171	R	9-12-29	MARYANNE I & HOWARD R BAUM						
10*18422	R	9-12-29	MARY E HAMM						
10*19412	R	9-12-29	WILLIAM ROY BLACK AND BRENDA F BLACK						
10*19944	R	9-12-29	JACK H LIVINGSTON						
10*21025	R	9-12-29	GRACE ELAINE FRANCIS						
10*21090	R	9-12-29	CARLENE D SMALLWOOD						
10*21091	R	9-12-29	RONALD R LIVINGSTON AND SANDRA LIVINGSTON						
10*21102	R	9-12-29	MARK PETRUCCI AND KIMBERLY PETRUCCI						
10*21185	R	9-12-29	CARL F PETRUCCI JR AND CATHY J PETRUCCI						
10*21191	R	9-12-29	MELANIE ANN HOUGH AND THOMAS R HOUGH						
10*21444	R	9-12-29	KAREN CALFEE						
10*21445	R	9-12-29	ROBERT AND LOLA DODDS						
10*21496	R	9-12-29	WILLIAM DODDS AND SYLVIA D DODDS						
10*21524	R	9-12-29	DAVID A DODDS						
10*21525	R	9-12-29	BRYCE A DODDS AND LILLIAN DODDS						
10*21529	R	9-12-29	PAMELA A ALEXANDER						
10*22021	R	9-12-29	ROBERT M MCCARDLE & NANCY R MCCARDLE						
10*22099	R	9-12-29	DAVID S INGALLS AND PATRICIA A INGALLS						
10*22101	R	9-12-29	ALEXANDRA R DODDS						
10*47051.318.1	R	9-12-29	JOSEPH PAUL FOX AND MARGARET H FOX						
10*47051.318.25	R	9-12-29	MARIANN T DARGUSCH AND JONATHON DARGUSCH						
10*47051.318.30	R	9-12-29	CYNTHIA TEACHNOR GRAHAM						
10*47051.318.31	R	9-12-29	WILLIAM RICHARD FOX						
10*47051.318.33	R	9-12-29	J RONALD FOX						
10*47051.318.35	R	9-12-29	ANNA MAE PATTERSON						
10*47051.318.36	R	9-12-29	DANNY CARMICHAEL III						
10*47051.318.4	R	9-12-29	MARY ELISE CAMP						
10*47051.318.56	R	9-12-29	SALLY MERRICK						
10*47051.318.9	R	9-12-29	JANICE M MEDER						
10*47051.311.0	S	9-12-23	MICHAEL J GUNTO AND ROSEMARY GUNTO						
10*47051.140.1	T	9-12-32	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN						
10*47051.140.2	T	9-12-32	DOROTHY SULLIVAN POA JAMES REID SULLIVAN						
10*47051.140.1	U	9-12-21	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN						
10*47051.140.2	U	9-12-21	DOROTHY SULLIVAN POA JAMES REID SULLIVAN						
10*47051.140.1	V	9-12-33	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN						
10*47051.140.2	V	9-12-33	DOROTHY SULLIVAN POA JAMES REID SULLIVAN						
10*16402	w	9-15-4	VALIE L WAGNER						
10*16421	w	9-15-4	SAMUEL EDGAR LEWIS AND ELIZABETH LEWIS						
10*16491	w	9-15-4	BELA N WELLENREITER						
10*17325	w	9-15-4	PHYLLIS ADAMS AND JOSEPH ADAMS						
10*17341	w	9-15-4	JUDITH V RICHARDSON AND DENNIS L ROBICHAUD						
10*17412	w	9-15-4	CHARLES L SHILLITO						
10117430		0.45.4	HILLARD DAGGALL ID AND ADDICALISMAN						

9-15-4

9-15-4

9-15-4

9-15-4

9-15-4

9-15-4

9-15-4

9-15-4

W

W

w

W

W

w

W

W

10*17439

10*17509

10*17525

10*18294

10*22089

10*22108

10*22124

10*22257

BRIAN A MCCALL

MARCIA A LUKE

CHARLES F ALLEY TRUST

WILLARD D MCCALL JR AND ADELE HUEY MCCALL

PAUL W STIFEL AND MARY M GROVER-STIFEL

KATHLEEN A MCNEILL AND MICHAEL MCNEILL

WILLIAM B EVENS JR AND PENNY EVENS

MARY M AND WINFRED K MARTIN

WV Department of Environmental Protection

RECEIVED Office of Oil and Gas

9 2018

APR

Operator's Well No. <u>Ten High 1S-15HU</u>

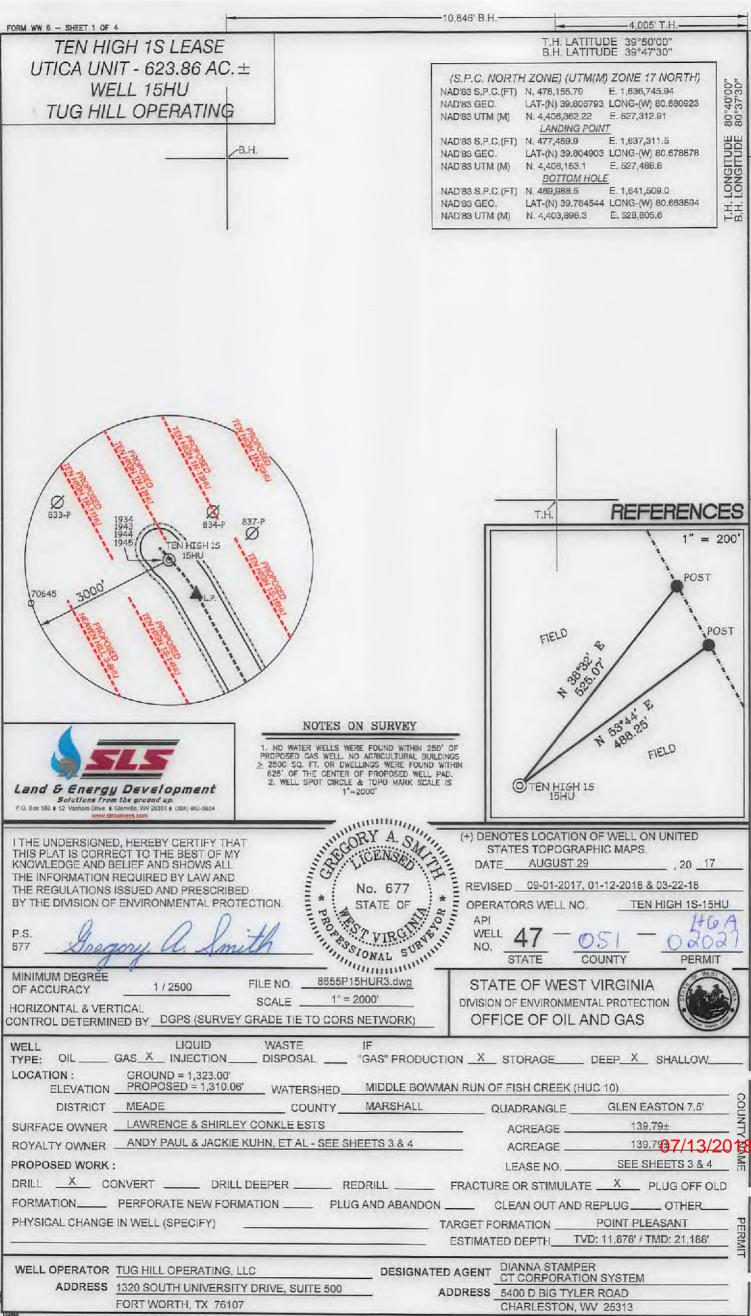
			ЭЕVED Oil and student student student student student student start sta								
~											4144
10*22380	W	9-15-4	JUDITH S KNIGHT CAROL L BOBBY AND DONALD J BOBBY DEBORAH SUE KYLE 231 EAST 24TH AVENUE A C C C C C C C C C C C C C C C C C C	TH EXPLORATION LLC	1/8+	962	276	N/A	N/A	N/A	N/A
↑ 10°4/051.318.46	W	9-15-4	CAROL L BOBBY AND DONALD J BOBBY	TH EXPLORATION LLC	1/8+	905	603	N/A	N/A	N/A	N/A
d 10*47051.318.48	W	9-15-4	DEBORAH SUE KYLE 231 EAST 24TH AVENUE KIM O CHAMBERS AND DEBRA CHAMBERS FLOYD A MCFADDEN	TH EXPLORATION LLC	1/8+	905	600	N/A	N/A	N/A	N/A
O 10*15752	х	9-15-3	KIM O CHAMBERS AND DEBRA CHAMBERS FLOYD A MCFADDEN BARBARA MCFADDEN ALBRIGHT	TH EXPLORATION LLC	1/8+	906	258	N/A	N/A	N/A	N/A
10*16017	Х	9-15-3	FLOYD A MCFADDEN	TH EXPLORATION LLC	1/8+	906	260	N/A	N/A	N/A	N/A
10*16018 10*16143	X	9-15-3		TH EXPLORATION LLC	1/8+	906	262	N/A	N/A	N/A	N/A
10 10143	Х	9-15-3	MARY LOU CHAMBERS	TH EXPLORATION LLC	1/8+	906	276	N/A	N/A	N/A	N/A
10*16144	х	9-15-3	PATTIE S MADRID	TH EXPLORATION LLC	1/8+	906	278	N/A	N/A	N/A	N/A
10*16180	X	9-15-3	LARRY L CHAMBERS	TH EXPLORATION LLC	1/8+	906	280	N/A	N/A	N/A	N/A N/A
10*16181	Х	9-15-3	NORMA CHRISTINE WHIPP AND GERALD WAYNE BLACK	TH EXPLORATION LLC	1/8+	906	281	N/A	N/A	N/A	-
10*16182	Х	9-15-3	FIRST CHRISTIAN CHURCH OF MOUNDSVILLE BY ROGER FRANCIS AND ROBERT ALBERT TRUSTEES	TH EXPLORATION LLC	1/8+	906	283	N/A	N/A	N/A	N/A N/A
10*16239	X	9-15-3	ANGELA L OLDFIELD AND KENNETH W OLDFIELD	TH EXPLORATION LLC	1/8+	906	287	N/A	N/A	N/A N/A	
10*16285	X	9-15-3	JOHN A SHUTZ AND CYNTHIA J SHUTZ	TH EXPLORATION LLC	1/8+	906	291	N/A	N/A N/A	N/A N/A	N/A N/A
10*16441	X	9-15-3	GEORGE FRANKLIN AND NANCY ANN REED	TH EXPLORATION LLC	1/8+	924	619	N/A	N/A N/A	N/A	N/A
10*16442	X	9-15-3	FRED T AND JERRY L CHAMBERS	TH EXPLORATION LLC	1/8+	924	174	N/A	N/A N/A	N/A	N/A
10*16443	X	9-15-3	BARBARA BROWN CHAMBERS	TH EXPLORATION LLC	1/8+	924	621 623	N/A N/A	N/A N/A	N/A	N/A
10*16444	X	9-15-3	CATHERINE ELLEN CHAMBERS	TH EXPLORATION LLC	1/8+	924			N/A N/A	N/A	N/A
10*16445	X	9-15-3	DOUGLAS C AND GWENDLYN D LEWTON	TH EXPLORATION LLC	1/8+	925	123	N/A	N/A N/A	N/A	N/A
10*16483	X	9-15-3	JOHN C AND BARBARA H WINTER	TH EXPLORATION LLC	1/8+	924	178	N/A	N/A	N/A N/A	N/A
10*16486	X	9-15-3	DAVID ALAN WILKINSON AND PATRICIA LYNN WILKINSON	TH EXPLORATION LLC	1/8+	924	180	N/A	N/A	N/A	N/A
10*16490	X	9-15-3	WILLIAM H AND MERRY C COTTON	TH EXPLORATION LLC	1/8+	924	176	N/A	N/A N/A	N/A N/A	N/A
10*16540	X	9-15-3	JAMES A WINTER AND CONNIE G WINTER	TH EXPLORATION LLC	1/8+	924	184 480	N/A N/A	N/A	N/A	N/A
10*16580	X	9-15-3	HAROLD C MCFADDEN	TH EXPLORATION LLC	1/8+	907	186	N/A	N/A	N/A	N/A
10*16680	X	9-15-3	RONALD J AND JENNIFER CHAMBERS FICCA	TH EXPLORATION LLC	1/8+	924		-	N/A N/A	N/A	N/A
10*16726	X	9-15-3	LESLY K WHITE	TH EXPLORATION LLC	1/8+	924	182 172	N/A N/A	N/A N/A	N/A	N/A
10*16733	X	9-15-3	SARAH L BISHOP	TH EXPLORATION LLC	1/8+	924	172	N/A N/A	N/A N/A	N/A	N/A
10*16835	X	9-15-3	ERNEST CARL AUGUSTINE JR	TH EXPLORATION LLC	1/8+	924		•	N/A N/A	N/A	N/A
10*16948	X	9-15-3	FREDERICK M LEWTON	TH EXPLORATION LLC	1/8+	924	136 138	N/A	N/A	N/A	N/A
10*16949	X	9-15-3	STEVEN R AND BRIANNE L UTT	TH EXPLORATION LLC	1/8+	924		N/A	N/A N/A	N/A	N/A
10*16950	X	9-15-3	JAY E AND CECILIA E LEWTON	TH EXPLORATION LLC	1/8+	924	134 132	N/A N/A	N/A N/A	N/A	N/A
10*16952	X	9-15-3	RUSSELL D HERVEY	TH EXPLORATION LLC	1/8+	924	140	N/A	N/A	N/A	N/A
10*16953	X	9-15-3	DONALD T AND JEAN K HOGAN	TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+	924 924	152	N/A	N/A	N/A	N/A
10*16990	X	9-15-3	ROSEMARY H BEAVERS		1/8+	924	148	N/A	N/A	N/A	N/A
10*16992	X	9-15-3	LINDA C ABRAHAM	TH EXPLORATION LLC		924	150	N/A	N/A	N/A	N/A
10*16993 10*16995	X X	9-15-3	JULIA HOOVER	TH EXPLORATION LLC TH EXPLORATION LLC	1/8+ 1/8+	924	146	N/A	N/A	N/A	N/A
10*17129	X	9-15-3	DIANE ELSIE RAMSEY	TH EXPLORATION LLC	1/8+	924	142	N/A	N/A	N/A	N/A
10*17125	x	9-15-3 9-15-3	ROBERTA JANE PARKINSON	TH EXPLORATION LLC	1/8+	924	154	N/A	N/A	N/A	N/A
10*17134	×	9-15-3 9-15-3	LAURA E TOTTEN AND LONNIE R TOTTEN UNITED CHRISTIAN MISSIONARY SOCIETY	TH EXPLORATION LLC	1/8+	924	14	N/A	N/A	N/A	N/A
10*17209	x	9-15-3	GAYLE S SHANNON	TH EXPLORATION LLC	1/8+	924	168	N/A	N/A	N/A	N/A
10*17289	x	9-15-3	HAROLD R HUNT JR AND ELIZABETH A HUNT	TH EXPLORATION LLC	1/8+	924	170	N/A	N/A	N/A	N/A
10*17396	x	9-15-3	CHRISTINE L KIDD	TH EXPLORATION LLC	1/8+	924	158	N/A	N/A	N/A	N/A
10*17413	x	9-15-3	ROBERT M CHAMBERS AND CHARLOTTE A CHAMBERS	TH EXPLORATION LLC	1/8+	924	160	N/A	N/A	N/A	N/A
10*17436	x	9-15-3	ANDREW M HOOVER AND DINAH R HOOVER	TH EXPLORATION LLC	1/8+	924	156	N/A	N/A	N/A	N/A
10*17448	x	9-15-3	FREDERICK L HERVEY AND CATHY J HERVEY	TH EXPLORATION LLC	1/8+	924	162	N/A	N/A	N/A	N/A
10*17452	x	9-15-3	ALAN H & MARY K DEGARMO	TH EXPLORATION LLC	1/8+	924	164	N/A	N/A	N/A	N/A
10*17486	x	9-15-3	JOSELYN M KEELY	TH EXPLORATION LLC	1/8+	929	364	N/A	N/A	N/A	N/A
10*17487	x	9-15-3	DEBORAH R MOKOSH	TH EXPLORATION LLC	1/8+	924	166	N/A	N/A	N/A	N/A
10*17563	x	9-15-3	DONALD L WOOD	TH EXPLORATION LLC	1/8+	923	523	N/A	N/A	N/A	N/A
10*17617	x	9-15-3		TH EXPLORATION LLC	1/8+	924	129	N/A	N/A	N/A	N/A
10*17674	x	9-15-3	UNITED DISCIPLES OF CHRIST CHURCH HOWARD L WOOD AND BETH E WOOD	TH EXPLORATION LLC	1/8+	923	505	N/A	N/A	N/A	N/A
10*17675	X	9-15-3	GREGORY DEANE WIBLE AND CAROLYN JEAN WIBLE	TH EXPLORATION LLC	1/8+	923	507	N/A	N/A	N/A	N/A
10*17701	X	9-15-3 9-15-3	SUE ANN WORD	TH EXPLORATION LLC	1/8+	923	470	N/A	N/A	N/A	N/A
10*17701	X	9-15-3 9-15-3	TAMMY BETH RAMSEY	TH EXPLORATION LLC	1/8+	925	500	N/A	N/A	N/A	N/A
10*17/02	x	9-15-3 9-15-3	BETH W WISHARD & GREG WISHARD	TH EXPLORATION LLC	1/8+	932	584	N/A	N/A	N/A	N/A
10*19523	X	9-15-3 9-15-3	CHRISTIAN CHURCH DISCIPLES OF CHRIST	TH EXPLORATION LLC	1/8+	943	6	N/A	N/A	N/A	N/A
10*19539	x	9-15-3	SUSAN VAN DYNE NKA SUSAN ASTON	TH EXPLORATION LLC	1/8+	936	505	N/A	N/A	N/A	N/A
10 1999	^	2-13-3	SOUND THE PARE HIM SOUND ASTOR	III ENI CONTINUI CCC	2,0.	230		•			

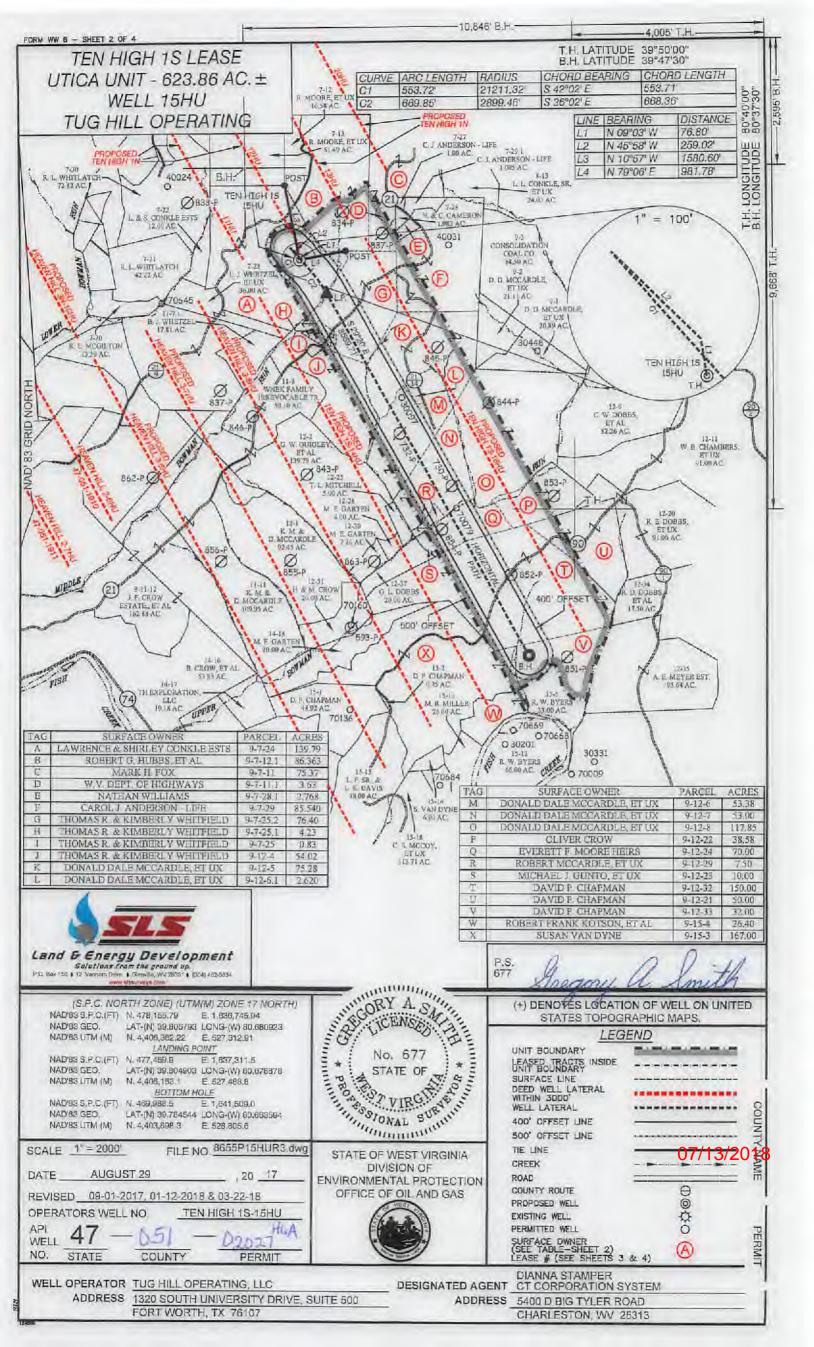
GWW-6A1 Sup	plem	ent	
C 10*19946	x	9-15-3	THE ESTATE OF CHARLIN GUDGEL
O 10*19952	х	9-15-3	THE JOHN C BURNS SUPPLEMENTAL NEEDS TRUST
10*21109	X	9-15-3	WILLIAM JUDSON HERVEY III AND THERESA HERVEY
() 10°21110	х	9-15-3	JAMES ROBERT HERVEY AND KAREN HERVEY
10*21869	х	9-15-3	DAVID A WEBER AND JUDITH V WEBER
10*21931	Х	9-15-3	DONALD M BURNS SUPPLEMENT NEEDS TRUST
10*21932	х	9-15-3	VAUGHN D BURNS SUPPLEMENT NEEDS TRUST
10*22192	X	9-15-3	WILLIAM SHEPHERD AND JERRY LEA SHEPHERD
10*47051.325.1	X	9-15-3	JUDITH A LEWANDOSKY AND ALAN E LEWANDOSKY
10*47051.325.3	х	9-15-3	NICHOLAS D PAVLIK AND GLORIA K PAVLIK
10*47051.325.4	X	9-15-3	JAMES H WHITE AND RITA FRANKS WHITE
10*47051.325.5	х	9-15-3	SAMUEL ALAN MCCORD AND WINIFRED A MCKEE
10*47051.325.6	X	9-15-3	THOMAS O MCCORD
10*47051.325.7	X	9-15-3	SHERON JONES
10*47051.325.8	X	9-15-3	RICK PAVLIK

Operator's Well No. <u>Ten High 1S-15HU</u>

TH EXPLORATION LLC	1/8+	948	301	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	948	212	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	953	98	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	953	100	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	953	495	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	953	491	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	953	487	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	954	347	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	906	225	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	906	228	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	906	230	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	906	232	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	906	235	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	906	237	N/A	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	906	239	N/A	N/A	N/A	N/A

APR 9 2018 W Department of Environmental Protection





TEN HIGH 1S LEASE UTICA UNIT - 623.86 AC. ± WELL 15HU TUG HILL OPERATING



Na.	Lease Name er No.		Percel	OB & Gas Royalty Owners	Dead Sad	
2	10*15663	A	9-7-24	RDY A CONKIL ST	163	311
3	10*15664	A	3.7-24	THERETAANNE HUGHES	861	345
4	10*15666	A	0-7-24	DANNY SHAWN KERNS AND AMY EYNN KERNS	M-3 905	635
5	10*16049	٨	3-7-24	LARRY W KLIRIN AND VICKIE B KUHN, HUSBAND AND WHE	905	522
7	10*16129	A	9-7-24	HUBERT DEAN KURIN AND ANDREA KURIN	905	524 526
3	10116141	A	57.24	ANDY PAUL & LACKE SURN. HOWARD LICHN AND MARY LICHN	303	528
10	10,16810	A	6-7-24	ROBERTA ANN AND DAVIDS RIGH	519	157
11	10117369	Λ	97:24	NOSTL/CANNE GOODMAN	927	264 470
12	10*17370	A	0.7:24	KELLYJUNE GODDMAN JEFFREY STEPHEN GODDMAN	929	1
14	10*47051.295.10	٨	9-7-74	DIENA I PALOMO	905	470
15	10*47051.195.11	A	9-7-24	REDINA O FIGURIDA AND DAVID TIGUEROA EARL D WELLMAN	905	433
17	10*47051.295.13	A	5.7-24	THE DOLLYE F WOOD REVOCABLE TRUST BY NICHOLAS CHARLES WOOD AS TRUSTEE	904	541
15	10*47051.295.3	6	9.7.24	MAZEL ARIGONA MOGRE REYNOLDS	204	Eit
20	10*47051 295.4 10*47061 295.5	A	9-7-24	DALE # MAGRIE	904	459 635
21	LD*47081.285.6	A	0.7-24	MARY I BURKHART	904	E38
22	LD*47051.285.7	A	₱7-24	JEANNEY MOCHORI	304	462
23	10*47051.295.5	A.	9.7-12.1	IAMESE HIMELRICK IR AND KARESI HUMELBICK ROHALD AND EDNA MOORE	961	440
25	10*19117	C	57-11	MARKITFOX	864	163
28	10*19181	D E	5-7-11.1 3-7-28.1	WAY DEPARTMENT OF TRANSPORTATION, DIVISION OF HIRWAYS EVELYN M WILLIAMS	720	180
28	10,19192	F	9-7-29	CAROLIANDERSON ET AL	772	.239
23	10*15-41	8	6/2-75.7	DEAN 9 RIGHY AND SUSAN RIGHY	906	197
30	10°15483	6	9.7-25.2	SUSAN NELSON JOHN GMOR BOLTZ	906	160
.12	10*15750	G	9.7-25.2	SANGRA P. TRULL	906	229
33	10,16078	6	9.7-25.2	MATTHE FUTH JACKSON PRESCOTT	BOR	231
25	10*16115	6	9-7-25-2	RUBY BIGBLE JACKSON ROBERT A LEADBETTER AND MINEBECCA LEAGBETTER	908	235
35	10,15298	6	97-25.2	GEOFFREY A SHIEFER AND STEPHANIE L SCHEFER	306	237
38	10*16991	6	9-7-25.2	ROBERT STEPLEN CRISGERS AMANY ELIZABETH DRIGGERS	906	226
38	10*16415	6	9-7-25.2	TERENCE ANDERSON AND NANCY ANDERSON	508	21
40	10*16416	6	9-7-25 2	CYNTHIA HUDISON	908	21
41	10*16424	6	9-7-25-2	ROBERT PICTY	508	24
43	10*164#8 10*164#8	6	9.7-25.2	MAKIDN LAND DATY SAMPLELL	906	24
44	10*16514	6	9-7-25.2	ALEX RUSSELL AND JOYCE A CAMPBELL	908	24
45	ID*IANIS	fi 6	9-7-25.2	ANNA MARIETACKSON WILSON ANDREWJACKSON	908	25
45	10*16516 10*16545	G	9-7-25.2	RODERT G & FILEN FOUNDS	908	25
48	10"16682	G	4.7.25.2	RICHARD THOMAS AND VICK JAMINE	308	M
45	10*16685 10*16687	6	3/7/25.2	CHARLES FAND GAIL ANN PYLE	908	25
51	10*16668	6	1-7-25.2	MCK I AND MERRILEE PYLE	508	25
52	10*16689	G	3-7-25,2	JOHN SAND PATRICIAS DADO	900	26
53 54	10°16686 10°16688	6	9-7-25-2	CHERYLE MITHACLY SHERAYLE PALE BALLE	927	47. 48
3.5	10"16689	6	9.7.25.2	JOHN C FOUNDS	927	47
36	ID*16490	ti	9 7 25.2	RICARDO ORTIZ	971	35
57 58	10°16720 10°16738	6	3-7-25.2	CHAMES A SINE AND RITH E RINE	921	27
50	10*16742	ı ii	3-7-25.2	PAUL CWILIGH.	927	45
60	1D*16747 1D*16798	ii ii	9-7-25.2	WILLIAM CALE BRASKETT PATELOX A BANKIN AND ROBIN A PANKIN	921	35
62	10,16900	G	1-7-25.2		921	-36
63	10*16802	G	1-7-25.2	CHRISTOPHER AND TANMY WEHLADSON	921	42
65	10*16804	- G	9-7-25.2 9-7-25.2	WILLIAM N AND SHERRY D'TAYLOR VIRGINIA WRITMAN TRUST DTD 7-25-19M JON WRITMAN TRUST EE	921	510
56	10'16807	ď	9-7-25.3	DAVID TUBLER AND SUBAN STORTS TULLER	921	51
47	ID*16808	16	9-7-25.2	MICHAEL LORTIZ	924	34
68	1D-10013	6	9/7/25/2	TEREDA ONTIZ MIGGS	971	35
70	10"16821	fi.	3-7-25.2	SHELA BRASKETT WEICHEY	921	526
72	1D*16835	G	9-7-25-2	HIGGA AND LENGHE A STORTS	521	50
72	LD*16837	6	9-7-25-2	TERRYLAND THUMAN POFF	927	47.
74	1D'16839	4	97252	JAMES B EGUNDS AND LYKN M PADWERY	921	71
75 76	10*16863 10*16868	G	9-7-25.2	THA MICHAEL WISTORTS AND JESSICA MISTORTS	921	5D
77	10*16879	0	9-7-25.2	MARK EAND LESTEY A STORTS	021	50
78	ID*16850	G	1.7.25.2	HEVERLYANN STORTS	921	48
75	10*16902 10*16902	6	5-7-25.2		921	10
81	1D*16962 1D*16976	6	5-7-25.2 5-7-25.2	LESTER G AND CONSTANCE B NICKOLSON	921	34
82	10*18077	6	3-7-25.2	JEREMY COCHENOUR	921	10
84	10*16967 10*16969	G G	0.7/25.2	DATTANY RICHARDSON	921	32
85	10*16989	i i		MARYTLEN FOUNDS AND LAUREN FOUNDS	921	71
15	10*16096	6	9-7-25.2	THOMAS RANKIN	917	7
88	10*17155	6	9-7-25.2	CHOYL BARGER JESSELEON JA AND TERESA GAIL ETELLE	921	13
18	10"17156	6	1.7/25.2	HENRI KELL JACKSON KENT WARMES	921	13
90	10*17157	6		JAMES N RETYES IR AND RITA M RELYES	521	36
91	10*17198	G		THOMAS G AND DIANE WHAYLESS SANDRA HEAN WILSON	921	52
93	10,13306	16	9.7.25.3	PATTOCK'S GALLAGHER AND LOYCE ANN FOUNCS	521	N
95	10"17274	6	8-7-25.2	JOHN # REDVES AND MONA GINEVES	921 921	17
96	10*17776	6	3.7-25.2	BERTHA EZELL WYATT	921	52
97	10*17278	9	9-7-25.2	MCHARL LIZELE JOSEPH W FOUNDS	921	12
98	10*17339	6		METON HOWARD EZELE IR AND EUZABETH A FEBLE	921	12
100	10*17416	G	17/252	ANDROW M GATIZ	921	34
101	10*17455	6		DENNIS M WILSON REMONA WALLS	821	47
103	10,12440	6	9-7-25.2	REHDNA WALSA RALEH I WILSON	921	48 52
104	10117442	6	9-7-25.2	SHANE ALLEN AND MENDY JEAN ALLEN	921	13
105	ED*17443	4		MILLY FOUNDS CAMPBELL	921	33
107	10*17449	6	3-7-75.7	PHYLLET BLACE	521	15
106	10*17482	E		TRESA ESTACE RALYA AND DAVID L RALYA	927	48
110	10,1440	- 6		NEIDA 5 MCKSON	921 931	35
H	10/17465	6	0.7.25.2	AMANGUE ANN JACKSON ROBBINS GRALIAM	921	9
112	10*17527	6	9-7-25-2	LAMES MICHAEL EZELLAND LICOLED EZELL	571	.37
114	10,1322	6		JOHN REVACQUA AND PATRICILED EZELL JOHN REVACQUA	921	13
t15	10*17554	-6	9-2-25.2	MCRAILTAANRIN	521	36
116	10*17551	6		ROGER L TYRELL AND KATHRYN L TYRELL	92L	51
122	10*17564 10*17565	6	9-7-25.2		621 821	34
137	10*17566	6	W7 25.2	NATHAN'F LEDGSEY AND BARBARA'T ERDGSEY	103	10
120	10*17588	6	87-252		521	37
121	10,13632	6		MANY CHESTING MCKENIIA GRUNGE M GONTA JR	52t 52t	33
123	10712744	.6	9-7-25.2	SAMPRESERVEZELL	521	11
	1/17 1 10021	. 6	1 9-7-25 2	CHRISTOPHER & JACKIE HANIFAN	527	- 25
124	10,19053	6		DALER & CONTRIAL WARD	527	

				www.shataveys.com		
140.	Lease Name of No.	Toe	Parcel	Oil & Sax Royally Copper - Continues	Deed Box	
125	10*47051.725.12	6		ALICE SORBY/MARTIN	908	52 42
128	10-47051 225.15	5	97-252	LARRY D TABINT AND NANCY LTAUNT	908	34
129	10*47051.775.20	G	5-7-252 5-7-252	SARBARA A BUZZARD WARY I WARD AND SHARON D WARD.	508	24
133	30*47011.273.30	G	9-7-257	LAURIE DRIEGERS MANDERSON	928	183
132	10*47051.223.31	G	9-7-252	NANCY CIAFFAGLIONE HOUSLEY DEBYL LCIAFFAGLIONE	908	190
134	10*47051,223,6	G	9-7-21.2	IDENUA RINE AND RETIECCA RINE	907	534 32
135	10*47051.223.9	G	9-7-252 9-7-257	UNDA DEBERT THOMAS R WHITTIELD	880	401
137	10*47051.308,2	G	5-7-252	KIMBERLY A WHITPIELD	890	405
139	10*67051.308.2	H	5-7-251	THOMAS R WHITTIELD WINDERLY A WHITTIELD	850	40%
240	10*47031.308.1	1	9-7-25	THOMAS & WHITFIELD	.500 630	401
141	10*470% 303.2	1	37-25	DEAN FRIGHT AND SUSAN FIGSY	378	197
143	10715482	1	9-12-4	SUSAN NELSON	338	203 160
145	10*15940	1	9124	JOHN GMER BOLTZ SANDRA K TRULL	938	729
148	10*160M	1	9-12-4	MATTIE RUTH JACKSON PRESCOTT	300	252
146	20,72111	1	9-12-4	BUBY RIDDLE JACKSON BOBERTA LEADBETTER AND M RESECCA LEADBETTER	300	235
149	10*16286	1	9-12-4	GEGEFREY A SHITFER AND STEFFRANCE E SCHIEFER	900	224
151	10*16563	1	9-12-4	NO NEWT STEPHEN DRIGGERS MARY ELIZABETH BRIGGERS	304	208
151	10*16415	1	9-12-4	TERENCE; ANDERSON AND MANCY; ANDRESON	506	219
153	10*16416	1	9424	EVINTHIA HECICON MODERT I FIGBY	906	741
153	10*16445	1	9-12-4	MARION LAND EMILY CAMPBELL	905	245
157	10*16478 12*16514	1	9-12-4	ALEX RUSSELLAND JOYCE & CAMPRELL	202	248
150	10*16515	1	9-12-4	ANNA MARIE JACKSON	508	251
153	10"16916	1	9-12-4	WILSON ANDREW JACESON ROBERT G & FLIIN FOUNDS	905	250
161	10*16661	1	9-12-4 9-12-4	RICHARD THOMAS AND VICKTIMAS MICHAELP FYLE	908 908	255
163	10*16607	1	5-12-4	CHARLESP AND GAIL ANN PYLE	908	266
36.5	10*16666	1	S-12-4 S-12-4	JACK LAND MERRILLE PYLE JOHN 5 AND NATRICIA S DADO	900	257
766	10*18686	1	9624	CHERVLE M.TRACEY	927	475
167	10*18688 10*16688	1	9-12-4 9-12-4	JOHN C FOUNDS	927	461.
269	10*16@0	1	ii-13/4	RICARDO GRTIZ	921	357
170	10*16720 10*1673#	3	8-12-4 6-13-4	CIONNA ELAINE BRASKETT CHARLES A RINE AND RUTH CRINE	921	157
172	10*16742	1	B-12-4	PAULCWILSON	534	450
175	10*36747	1	9-12-4	WILLIAM DALE BRASKETT PATRICK A BANKIN AND ROBIN A BANKIN	901	364
175	10*16400	1	9-12-4	JAMES KENNETH JACKSON AND JULIE JACKSON	921	35
175	10*16807	1	5-17-4	CHRISTOPHER AND TAMMY REHARDSON WILLIAM N AND SHERRY D TAYLOR	921 921	495
178	10*16406	1	5-12-4	VIRGINIA WHITMAN TRUST DTD 7-25-1584 JON WHITMAN TRUSTIE	831	17.6
179	10*16807	1	5-12-4 5-12-4	DAVID TULLER AND SUSAN STORTS TULLER MICHAELL DRIVE	921	349
141	10*16815	1	B-12-4	HANDE WINE	921	147
142	10*16A19 10*16A21	1	9-13-4 9-13-4	TERESA ORTIZ BIGGS SHEILA BRASKETT WEICHEY	921	516
184	20*16496	1	B-12-4	RICK A AND LENONE A STORTS	921	507
185	10*15837 10*15838	1	5-12-4 5-12-4	TERRY LAND THELMA A FOFF ROBERT G FUNARI	927	472
187	10*15439	1	9-12-4	JAMES B FOUNDS AND LYNN M MOWERY	971 521	73 224
189	10*16NEA	1	9-12-4	TINA MODRE MICHAEL WISTORTS AND JESSICA MISTORIE	571	104
190	10"16819 0881"01	1	9-12-4 5-13-4	MARKE AND LISTLY A STORTS BEVERLY AND STORTS	921	501
192	20*28802	1	5-13-4	MARY BARCAW DUKE	922	105
198 194	10"16862 20"16876	1	9-13-4 9-13-4	DENTILS PAND NARBARA SIELL FLORY LESTER G AND DONSTANCE B HICKOLSON	921	70
198	10*1657	1	5-15-4	JEREMYCOCHENOUR	923	102
196	10*16/87	1	9-17:4 5-17-4	BRITTANY RICHARDSON	921	135
198	10*16E1	1	5-12-4	MARYELEN FOUNDS AND LAUREN FOUNDS	903	73
200	10*1606	1	9-12-4 9-12-4	THOMAS RAMON CINDY L BARGER	917	137
201	10*17155	1	5-12-4	IESSE LEON IR AND TERESA GAIL EZELLE	921	118
201	10*17156	1	9-12-4	HENRI NELLIACREON EEN BARNES JAMES IN RESVES IN AND RITA MIRESVES	971 921	139
201	10*17194	1	9-13-4	THOMAS G AND DIANEW BAYLESS	921	141
205	10°17205 10°17206	1	9-13-4 5-13-4	SANDRAJEAN WILSON PATRICKS GALLAGHER AND JOYCE ANN FOUNDS	921	524
207	10*17234	1	5-12-4	DAVID IT WILSON	921	474
208	10*17275	1	9-11-4 9-11-4	IOHN R REEVEL AND MONA GREEVES BERTHA SZELL WYATT	921	526
710	10*17776	1	9-11-4	MICHAELL EZELLE	971	121
211	10*17339	1	9-12-4	IOSEPH W FOUNDS MILTON HOWARD SZELLE IR AND DUZABETH A SZELLE	501 501	123
213	10117415	1	5-17-4	ANGREW MONTE	9/1	346
214	10*17455	1	5-12-4 5-12-4	DENNIS MWILSON KENDRA WALISA	921 921	484
216	10*17441	4	9-12-4	RALPH I WILSON	921	572
217	10*17442	1	9-12-4 9-12-4	SHANE ALLEN AND MENDY JEAN ALLEN MICHELLE MORROW-SACE	921	337
219	10*17444	1	8-17-4	KELLY FOUNDS CAMPBELL	501	99
221	10*17482	1	9-12-4 9-12-4	PHYLLIS J BLAXE TERESA EZELI E RALYA AND DAVIO L RALYA	927	150
222	10*17463	1	5-12-4	RICHARD I PYLE	921	359
			5-12-4	MARGIE ANN JACKSON ROBBINS GRAHAM	921	330
223	10*17484 10*17485	1	5-53-4			370
224	10*17484 10*17485 10*17586	1	5-12-4	INFREY CREVES AND JODY DREVES	201	440
224	10*17484 10*17485	1		HIPFREY LREIVES AND HOUY LREIVES JAMES MICHAEL EZELLAND LUC'LE D EZELL JOHN BEVACQUA AND PATRICIA A BEVACQUA	571 571	111
224 225 226 227 228	10*17484 10*17485 10*17526 10*17527 10*17522 10*17554	1 1 1	9-12-4 9-12-4 9-12-4 9-12-4	JAMES MICHAEL EZELLAND LUCTLE D EZELL JOHN BEVACQUA AND PATRICIA A BEVACQUA MICHAEL TRANKIN	971 971	144 361
224 325 226 227 228 225 230	10*17484 10*17485 10*17585 10*17585 10*17583 10*17584 10*17584 10*17584	1 1 1	9-12-4 9-12-4 9-12-4 9-12-4 9-12-4	JAMES MICHAEL ESELAND LICELE D ESSEL JOHN BENACIQUA AND PATRICIA A ENVACIQUA MICHAEL PANICIN ROGER L'THELL AND LATRICIN L'EXELL JAMES MONNAU DICKOLSON AND TA ACEY & MICKOLSON	971 971	144 361 919 340
224 225 226 227 221 225 230 231	10*17484 10*17485 10*17485 10*17507 10*17507 10*17504 10*1754 10*17564 10*17565	1 1 1	5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4	JAMES NORTHAL GERLAND LACRES DISCOLL JOHN BEVACQUA AND PATRICIA A ERVACQUA MOCRAEL TRANSCON MOCRAEL TRANSCON MOCRAEL TRANSCON JAMES ROYALO HICKOLSON AND TRACEY E NICKOLSON JESSE ALISH JACKSON AND GERANDED GLACKSON	971 971 921 921 921 921	144 861 919 340 927
224 325 226 227 228 325 230 231 232 232	10*17484 10*174845 10*17525 10*17525 10*17527 10*17524 10*17524 10*17525 10*17525 10*17525 10*17525	1 1 1 1	5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4	JAMES MICHAEL ESPLAND LICELE D ESPLA JOHN BEVACCIUM AND PATRICIA A ERVACCIUM MCRAEL TRANSIN ROGER L TRANSIN ROGER ROGER L TRANSIN ROGER L TRANSIT R TRAN	971 971 911 911 921 921 921 921	144 361 319 340 327 106 325
224 225 226 227 228 225 230 231 232 234 234	10*17484 10*17485 10*17485 10*17586 10*17587 10*17584 10*17584 10*17585 10*17586 10*17588	1 1 1 1 1	5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4	JAMES MECHAEL GELLAND LACILE O ESSIL JOHN BENACIOLA NO PATRICIA A BENACIOLA NICINAEL TRAJENA JAMES MONINA DICKNOLSON AND TRACEY E NICICOLSON LISSE ALIEN JACKSON AND REPARABA TERROMOV JAMES MIACKSON JAMES MIACKSON MARY CHRISTIAL EKSENNA	971 971 911 911 921 921 921 921 921	144 36; 319 340 327 108 325 325
224 225 225 227 228 225 230 231 232 234 234 235 238	10*17/484 10*17/485 10*17/525 10*17/525 10*17/524 10*17/524 10*17/524 10*17/525 10*17/526 10*17/525 10*17/525 10*17/525 10*17/525 10*17/525 10*17/525 10*17/525 10*17/525	1 1 1 1 1 1 1 1 1 1 1 1	5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4	JAMES MECHALI GELLA MOLLICILE O DEZILI. JOHN BENACIOLA AND PATRICIA A BENACIOLA MICHAEL TRANSIN AGGIACA TRANSIN BORREL TRANSIN JAMES BONALO HICKOLOGIC AND TRACET E MICHOLOGI JAMES BONALO HICKOLOGIC AND TRACET E MICHOLOGI JAMES BONALO HICKOLOGIC AND TRACET E MICHOLOGIC JAMES MIACUSON JAMES MIACUSON JAMES MIACUSON JAMES MIACUSON GEORGI M GONTA JIE JAMPAREL TRANSITULE DECENNA.	971 971 911 911 921 921 921 921	144 361 319 340 327 106 325
224 225 227 228 227 228 225 230 231 232 244 235 236 237	1017/845 1017/85 1017/85 1017/85 1017/85 1017/85 1017/85 1017/84 1017/85 1017/85 1017/86 1017/86 1017/86 1017/86 1017/86		5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4	JAMES MECHAL ESTLAND LICELS O ESTAL FORM SEXACIDIA AND PATRICIA R SENACIDIA MICHAEL TRAILICA MO LATRICIA R SENACIDIA MICHAEL TRAILICANO LATRICIA TRAILI LIMES MONIAN DICKOLSONI MODITACEY ENICECLICO LISSE ALIEN JACKSON AND BERMANA T RECOGNI AMERICAN PROSPONI AND REMANA T RECOGNI AMERICAN LICENSINA GEORGE M. CONTA JR. SAMP PRISLITY ESTEL CHESTOPHER & LACKSENA	571 971 971 971 971 971 971 971 971 971 9	144 365 919 340 127 108 325 325 312 89 136 367
224 225 225 227 228 228 230 231 232 232 233 234 235 235 236 237 238 237 238 238 239 239 239 239 239 239 239 239 239 239	10/17/84 10/11/85 10/17/85 10/17/85 10/17/85 10/17/85 10/17/85 10/17/85 10/17/86 10/17/86 10/17/86 10/17/86 10/17/86 10/17/86 10/17/86 10/17/86 10/17/86 10/17/86 10/17/86 10/17/86 10/17/86 10/17/86 10/17/86 10/17/86	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4 5-12-4	JAMES MECHAEL GELLAND LACILE O ESDAL JOHN BENACIOLAN DO PATRICIA REPLANCIUM MICHAEL TRANICIA MICHAEL TRANICIA MOGRAEL MO	971 971 971 971 971 971 971 971 971 971	144 861 919 340 927 108 925 322 89 136 367 254 218
224 225 226 227 228 228 230 231 232 234 234 235 236 237 238 237 238 239 240	10*17484 10*17485 10*17586 10*17591 10*17594 10*17594 10*17595 10*17596 10*17596 10*17599 10*17597 10*1759 10*175	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5-12-4 5-12-4	JAMES MICHAEL ESPLAND LICELS DESIDL JOHN BEVACCIUM AND PATRICIA R ENVACCIUM MCCRAEL TRANSON MCGRAEL TRANSON MCGRAEL TRANSON MCGRAEL TRANSON MARS MONINO HICKOLSON AND TRACEY & MICKOLSON JESSE ALIEN JACKISON AND ESPLATER DI JACKISON MAST CHIESTON AND DEBRABA T PRECISSY JAMES MI JACKSON MAST CHIESTON MCGRAEN MAST CHIESTON LA GEORGE MAST CHIESTON LA LACCUS HANNIAN CALE P. & CHIESTON AND MCGRAEN TRANS MONTE COURSE STORICH MCREET & GORDER MCGRAET MCGRAEN M	971 971 971 971 971 971 971 971 971 971	144 56; 319 340 127 108 325 325 312 89 136 267 254 218
224 225 226 227 228 230 231 232 233 234 235 235 236 237 238 237 238 237 238 237 238 237 238 237 238 238 238 238 238 238 238 238 238 238	10/17484 10/17485 10/17485 10/1759 10/		5-12-4 5-12-4	JAMES MECHALI CELLAND LACILE O EZUL JOHN BENACIQUA AN O PATRICIA R ERVACIQUA MICHAEL PANICIN ROGER L'TRIELL AND LATRICIA R ERVACIQUA MICHAEL THELL AND LATRICIA CHORTE JESSE ALLEN JACUSON AND TEACTY & MICEOLISON JESSE ALLEN JACUSON AND ELFACER HOLOSON ANATIANA Y ERROSON AND BERMARA T ERROSOY JAMES SANACICSON ANATY CHRETTINE LICKEDINA GEDIGE M GONTA IR SAM PRESLIT EZEL CHRESTOPHER A JACUSE HANNEAS DALER & CHREMA J WARD JESAM PRESLIT EZEL GRESTOPHER GENERAL CHANNEAS CHESTOPHER GENERAL CHANNEAS CHANGE GORBER FORCH AUGUST HER GENERAL CHANNEAS CHANGE GORBER ANATINI	571 571 572 573 573 573 573 571 573 573 573 573 574 577 578 577 578 577 578 577 578 577 578 577 578 577 578 577 578 578	144 361 319 340 327 106 325 312 80 136 367 254 47 37 52
224 225 225 227 228 228 230 231 232 233 234 235 235 236 237 237 238 237 237 238 240 241	10*17484 10*17485 10*17286 10*17286 10*17281 10*17281 10*17281 10*17281 10*17282 10*17288 10*17288 10*17288 10*17489 10*174		5-12-4 5-12-4	JAMES MECHAEL CELLAND LACELS O ESSEL JOHN BENACIOLA NO PATRICIA A BENACIOLA NICHAEL TRANSIN LOGER L'THREL AND KATHENS L'THREE JAMES NOVAN O HICKOLSON AND THACEY E NICEOLSON JUSSE ALIEN JACESON AND REPARA TE SECULSON JAMES MIRCOSON JAMES MACCISON JAMES MIRCOSON JAMES ADDRIVER	971 971 972 973 973 973 973 971 971 971 971 971 971 971 972 973 973 973 973 973 973 973 973 973 973	144 361 319 340 327 106 325 312 80 136 367 254 47 37 52 42
224 225 225 227 221 225 230 231 232 233 234 234 235 236 237 238 237 238 237 238 237 238 238 234 234 234 234 234 234 234 234 234 234	10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/46 10/		5-124 5-124	JAMES MECHAEL GELLAND LACELE O BESIL JOHN BEWAGELAN AND PATREGAS BEWAGELAS MICHAEL TRANSIN DIGER L'THELLAND KATHENES L'THESE JAMES BOHALD HICKOLSON AND TRACEY E MICHOLSON JESSE ALIEN JACKSON AND DEPARTE DISCUSSON JAMES MIACUSON JAMES JACKSON JAMES JAKES BURGES JAMES AND JAMES JOHN JAMES AGORDES JAMES GOORN STORCH MIRES AGORDES JAMES DOMEN ANTHI JAMES AGORDES	971 971 972 921 921 921 921 921 921 921 921 921 92	144 361 319 340 325 325 322 89 136 367 254 119 47 37 52 42 629 28
224 225 226 227 227 228 230 231 232 234 235 235 236 237 237 237 238 239 240 241 242 243	10/17/48/ 10/17/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5-12-4 5-12-4	JAMES MECHAEL CRILLAND LICELS O RESULA MICHAEL TRANSICA AND PATRICIA SERVACIOUS MICHAEL TRANSICA AND PATRICIA SERVACIOUS MICHAEL TRANSICA AND MATRICIA AND TRACTY E MICHOLSON JUSSE RULIEN JACKSON AND RUZARER DI LUCKSON JAMES MIACUSON AMBUS MIACUSON AMBUS MIACUSON AMBUS MIACUSON AMBUS MIACUSON AMBUS MIACUSON AMBUS MIACUSON CERMEN MIACUSON CERMEN MIACUSON CERMEN MIACUSON AMBUS MIACUSON AMBUS MIACUSON AMBUS MIACUSON AMBUS MIACUSON AMBUS MIACUSON AMBUS AND TRANSICA CHERTOPICA ELACUEL MANUAN DALEF & CHITTHIA, VINAED JAMA MAN COURS STORCH MICHAELTH ESTEP AUSE GORRY MARTIN JUSTIN DIVIN AND RECKY RINE URBIST DAMN'T AND RECKY RINE	571 571 571 572 573 573 573 571 571 571 571 571 571 571 571	144 361 319 340 527 106 325 322 80 136 267 254 218 47 52 47 52 42 629
224 225 225 227 228 229 231 232 231 232 234 235 235 236 237 238 239 240 240 241 242 243 244 244 245	10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/45 10/17/46 10/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5-124 5-124	JAMES MECHAEL GELLAND LACELE O BESIL JOHN BEWAGELAN AND PATREGAS BEWAGELAS MICHAEL TRANSIN DIGER L'THELLAND KATHENES L'THESE JAMES BOHALD HICKOLSON AND TRACEY E MICHOLSON JESSE ALIEN JACKSON AND DEPARTE DISCUSSON JAMES MIACUSON JAMES JACKSON JAMES JAKES BURGES JAMES AND JAMES JOHN JAMES AGORDES JAMES GOORN STORCH MIRES AGORDES JAMES DOMEN ANTHI JAMES AGORDES	971 971 971 971 971 971 971 971 971 971	144 361 919 340 925 106 325 322 89 136 267 267 27 52 47 57 52 62 62 62 63 64 64 64 64 64 64 64 64 64 64 64 64 64

FILE NO. 8655P15HUR3.dwg

AUGUST 29

__ , 20 _17

REVISED 09-01-2017, 01-12-2018 & 03-22-18

OPERATORS WELL NO.

TEN HIGH 1S-15HU

WELL



STATE OF WEST VIRGINIA DIVISION OF **ENVIRONMENTAL PROTECTION** OFFICE OF OIL AND GAS



WELL OPERATOR TUG HILL OPERATING, LLC

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 FORT WORTH, TX 76107

DIANNA STAMPER
CT CORPORATION SYSTEM

ADDRESS 5400 D BIG TYLER ROAD CHARLESTON WV 25313

TEN HIGH 1S LEASE UTICA UNIT - 623.86 AC. ± WELL 15HU





	Lance hame or fig.	Tet	Pércel	Dil & Got Royalty Owner - Continued	Deed Bo	DN/Prun
376	10*16285	a	3-12-29	RHONOA L PALASOTA AND SAMA PALASOTA	913	543
3477	10*10034	1	3-12-29	ICIA F NEVIUS	914	ALD
376	10*16364	I	0-12-29	STEVEN P.ROBERTS	914	416
379	10*15560	- 11	5-11-25	DONNA BURYS	TIE .	611
320	10*15525	п	9-12-29	THE JENNIFER TEACHINGS GAFFEY LIVING TRUST DATED OCTOBER SOTH 2013	926	637
382	10*16527	R	9-12-25	ROSELA M HORE AND WILLAND L'HORE	917	4
382	10"15606	H	9-12-79	WILLIAMT AND BARBARA W PAUL	919	252
384	10*15607	R	5-12-29	LOUISE M AND WILLIAM DI MCELHINAY	3(5	71
		_	3-12-25	KATHRYN BROWN AND BYLLEG BROWN	526	610
385	10*17#15	R	3-17-29	THE TESTAMENTARY TRUST OF CAREY B PAUL III	929	252
387	10*17882	R	9-12-29	MARY EHANM LANCE MEDER TRST MEDER LIVING	924	252
386	10*17891	n	5-12-25	INC D& AMANDA N PERMICE!	905	545
389	10*17978		9-12 25	MARGARET INGALLS SCHICE	924	345
3:90	10715015	- 8	9-12-29	KATHARINE & WILLIAM BUCKHAM	907	7.60
331	10*15171		9-12-29	MARYANNE (& HOWARD & BAUM	201	74
392	10*47051.316.1	R	9-12-29	JOSEPH PAUL FOX AND MARGARETH FOX	905	569
333	10*47051.518.25	1	9-12-29	MARIANN T DARGUSCH AND JONATHON DARGUSCH	905	549
394	10*47051.318.30	2	9-12-20	EYNTHIA TEACHNOR GRAHAM	905	355
895	30*47051.358.31	R	8-17-29	WILLIAM RICHARD FOX	905	361
396	10*47051,318.33	R	9-17-25	J RONALD FOX:	905	265
397	10*47051.315.35	R	9-17-79	ANNA MAE FATTERSON	905	573
396	10*47051 314.35	R	9-17-29	DANNY CARMICHAEL III	905	576
330	10*42051 518.4	R	9-17-25	MARY ELISE CAMP	905	557
400	10*47051.325.5E	R	≥ 17-29	SALLYMERRICK	905	614
403	10147051318.9	- 6	9-12-25	IANKE M MEDER	905	:545
402	10*47051.311.0	1	9-12-23	MICHAELI GUNTO AND ROSEMARY GUNTO	505	15
403	30147051,140.1	1	9-12-32	DAVID P CHAPMAN & DEBOTAH BORCK-CHAPMAN	MA	314
404	10147031 140.2	T	9-12-32	DOROTHY SULLIVAN PDA JAMES REIDSURLIVAN	473	501
406	30*4705L340.5 30*4705L340.5	U	\$-12-21	DAVID P CHAPMAN & DESCRAH BORCK-CHAPMAN	866	315
407	10*47031.140.1	V	9-13-21	DORDTHY SULLIVAN FOR JAMES REID SULLIVAN	875 ACE	501
ADE	10*47051.340.7	V	3-12-13	DAVID P CHAPMAN A DESCRAH BORCK-CHAPMAN DORDTHY SILLIVAN FOA JAMES REID SIALIVAN	8/6 875	501
AUG	10*16421	W	5-15-4	SAMUEL EDGAR LEWIS AND CLIZABETH LIWIS	921	301
410	10*16461	·W	9-15-4	BELAN WILL ENGINER	921	467
411	10*17325	W	9-154	PRIVILLE ADAMS AND IDSTPH ADAMS	909	120
412	10*17341	100	9-15-8	JUDITRY RICHARDSON AND DENNIS E ROMCHAUD	921	456
413	10*17412	W	9/154	CHARLES LISHITLITO	921	458
414	10+17439	W	9:15-4	WILLARD DI MCCALLIR AND ADELEHUEY MCCALL.	921	454
41.5	10*17509	W	5-15-6	MUAN A MCCALL	521	431
415	10*17/25	W	3-154	PAUL W STIFEL AND MARY M GROVER-STIFES	921	460
417	10*16234	W	5-15-4	MARY MAND WINFRED R MARTIN	923	141
418	10" A7051.21E.46	W	9/15-4	CAROLL BOREF AND DONALD / BOREY	905	600
41.9	10"47051318-45	W	5-15-F	DERORAH SUB KYLE 231 EAST Z4TH AVENUE	5475	600
420	10*15751		9-15-3	VIAM D. CKAMBERS AND DIBINA CHAMBERS	SUE	254
422	10*16016	X I	9-15-3	PLOYO A INCEADDEN	905	280
423	10*16:43		9-15-3	BARBARA MCFADDEN ALBRIGHT	505	
424	10*16144	X.	9-15-8	MARY EQUICHAMBERS PATTIES MADRID	905	278
425		*	9-15-1	LARRY LEHAMBERS	906	280
426	10*16150	- X	5-15-3	NORMA CHRISTINE WHIPP AND GERALD WAYNE BLACK	506	281
627	10*16152	×	9-15-3	FIRST CHRISTIAN CHURCH OF MOUNDSVILLE BY ROGER FRANCIS AND ROBERT ALBERT	505	283
42.8	10*16239	X	9-25-3	ANGELA L'OLDFIELD AND RENNETH W GLDFIELD	505	287
42.9	10*16285	X	9-15-1	JOHN A SHUTZ AND CYNTHIA J SHUTZ	905	291
430	10*16441	(X)	9-15-1	GEORGE PRANKLIN AND NANCY ANN REED	504	619
451	10*16441	00	9-15-1	FRED TAND JERRY LCHAMMERS	924	174
452	10*16443	100	9-15-8	BARBARA BROWN CHAMBERS	524	621
433	10*16464	-X)	3-153	CATHERI NE ELLEN CHAMBERS	524	683
454	10*16445	- X-	9-15-3	DOUGLAS CAND GWENDON D LEWTON	525	123
435	10116483	X	3-153	/CHN CAND BARBARA H WINTER	504	174
436	10*16486	X	P-15-5	GAVID ALAN WILKINSON AND PATRICIA LYNN WILKINSON	904	1.80
437	10*16490	Ŷ	5-15-5	WILLIAM H AND MERKY C DOTTON	504	176
438	10*16540	X	3-15-3	JAMES A WINTER AND CONNIEG WINTER	524	184
439	10*16580	R-	3-15-3	HAROLD C MOFADDEN	547	480
440	10*16680		9-15-3	RONALD J AND JENNIFER CHAMBERS FICEA	924	186
441	10*16726	×	9-15-3	LISLYK WHITE	924	182
443	10*16783	*	9-15-8	SARAH L BISHOP	50A 50A	171
444	10*16495 10*16046	X.	9-15-3 9-15-3	FARDERICK MLEWTON	50.4	156
445	10*16849	× .	9-15-3	STEVEN A AND MILAMIE LUTT	50A	138
445	10*16950	Ř	9453	JAYE AND CECILIA E LEWION	914	134
447	10*16952	*	3458	RUSSELL D HERVEY	924	132
445	15*16955	*	8458	DONALD TAND FAN E HODAN	52A	IAO
443	10*15990		9354	ROSEMARTH BEAVERS	224	152
450	10*16002		0-15-3	UNDACABRAHAM	5024	148
451	10715583	×	9-35-3	JULIA HUNIVER:	924	150
452	10*16913	X	9-153	CIANT ELSIE RAMSEY	924	146
435	10*17129	X-	F-15-1	ROBERTA JANE PARKINSON	52.4	142
454	10*17181	X	8-15-3	LALIBA E TOTTEN AND LOWNIE & TOTTEN	978	154
455	10*17134	1. X		UNITED CHRISTIAN MISSIGNARYSOCIETY	924	2.4
456	10*17209	K		GAYLE STHANNEN	924	168
457	t0*17289	×	5453	HAROLD R HUNTUR AND EUZABEDI A HUNT	924	170
458	10*17386	К.	9453	CHRISTINE URDD	923	154
450	10*17415	k i	0/15-1	ROBERT M CHAMBERS AND CHARLOTTE A CHAMBLES	92.6 51.6	156
860	10*17456		9151	ANDREW MHOOVER AND DIMAH R HOOVER	524	162
AGE	10*17445	A.	9153	ATAN H & MARY K DEGARMO ATAN H & MARY K DEGARMO	974	164
468	10*17452 10*17486	×	9-15-3 5-15-3	JOSELYN M KEELY	929	364
464	10*17467	×	5-15-1	DEBGRAH RIMOKOSH	924	166
463	10*17563	×	B-15-8	CONALD L WOOD	923	573
465	10°17617	X.	9-15-3	UNITED DISCIPLES OF CHRIST CHURCH	324	125
467	10*17674	×	5153	HOWARD L WOOD AND BETH E WOOD	9/3	305
AGB	10*17675	×	9-15-3	GREGGRY DEANE WIN E AND CARDLYN JEAN WISLE	513	907
469	10*17703	×	9-15-3	SUF ANN WORD	923	470
470	10*17702	K	9-15-3	TAMMY BETH RAMSEY	925	- 500
471	10*18416	×	9-15-1	BETH W WISHARD & GRED WISHARD	932	584
472	10*47031.3251	×	9-15-3	JUDITH A LEWANDOLKY AND ALAN E LEWANDOSKY	506	223
475	20*47051/325.3	×	F153	NICHOLAS D PAVLIK AND GLORIA'S PAVLIK	508	22.4
474	10*4/051.325.4	x	9-15-2	IAMES H WHITE AND RITA MANES WHITE	906	230
473	10" 6/051.325.5	X	9-15-1	EARMEE ALAN MCCOPD AND WINIFRED A MCCEL	SCE.	257
476	10" (7051.325.6	X	9-15-3	THOMAS O MCCDAD	935	215
ATI	10*47051.525.7	X	9-15-3	SHERONJONES	906	257
		Y		AICK PAVLIK	906	289
ATE	10*47651,525.8		9-15-3			

FILE NO. B655P15HUR3.dwg

AUGUST 29 REVISED 09-01-2017, 01-12-2018 & 03-22-18

- 051 -

OPERATORS WELL NO.

TEN HIGH 1S-15HU

WELL 47 -

COUNTY

- C2027 H6A PERMIT



STATE OF WEST VIRGINIA DIVISION OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS



P.S.

WELL OPERATOR TUG HILL OPERATING, LLC

ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500

FORT WORTH, TX 76107

DIANNA STAMPER
CT CORPORATION SYSTEM

ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313

STATE OF WEST VIRGINIA
COUNTY OF MARSHALL

ASSIGNMENT AND CONVEYANCE

THIS ASSIGNMENT AND CONVEYANCE (the "Assignment") is made and entered into this //day of October, 2017 (the "Effective Date"), by and between AMERICAN PETROLEUM PARTNERS OPERATING, LLC, (hereinafter "Assignor") and TH EXPLORATION, LLC (hereinafter "Assignee") pursuant to the terms of that certain Acreage Trade Agreement between the Assignor and the Assignee dated August 4, 2017 (the "Acreage Trade Agreement"). Capitalized terms used but not defined herein and defined in the Acreage Trade Agreement shall have the meanings given to such terms in the Acreage Trade Agreement.

WITNESSETH:

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to those certain Oil and Gas Leases situated in Marshall County, West Virginia, as described in Exhibit "A", attached hereto and made a part hereof (hereinafter the "Leases"); and

WHEREAS, Assignor desires to assign, set over, and transfer to Assignee all of Assignor's right, title, and interest in and to the Leases as described below.

- NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, and subject to the limited warranties, restrictions and conditions hereinafter mentioned, the parties hereto, intending to be legally bound, do covenant and agree as follows:
- Assignment. Assignor does hereby grant, bargain, sell, convey, deliver, assign, set over and transfer, as of the Effective Date, to Assignee, its respective successors and assigns, forever, all of Assignor's right, title and interest in and to the Leases, and the lands covered thereby, together with all rights incident thereto and appurtenances thereon.

TO HAVE AND TO HOLD such right, title and interest in and to the Leases unto Assignee or its designee, and their respective successors and assigns, forever, in accordance with the provisions of this Assignment.

2. Special Warranty. Assignor represents and warrants that Assignor has not conveyed or otherwise encumbered (other than Permitted Encumbrances) its interest in the

RECEIVED Office of Oil and Gas

APR 9 2018



51-02027

July 18, 2017

WV Department of Environmental Protection Office of Oil & Gas 601 57th Street, SE Charleston, WV 25304 Attention: Laura Adkins

RE: Ten High 1S-15HU

Dear Laura:

Tug Hill Operating, LLC (ThO) hereby submits this letter as confirmation that THO has obtained the right to drill, extract and produce the minerals under Marshall County Route 21/9 and 21/11 in the area reflected on the Ten High 1S-15HU well plat. THO has conducted a full title search in the relevant Court House to confirm its' ownership under said County Routes and is not currently aware of any recorded document that would suggest an ownership other than THO.

If your office has any questions or concerns regarding the contents of this letter, please do not hesitate to contact me at 304-376-0111 or by email at amiller@tug-hillop.com.

Sincerely,

Amy L. Miller

Permit Specialist - Appalachia

RECEIVED Office of Oil and Gas

APR 9 2018

WW-6AC (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS **NOTICE CERTIFICATION**

Date of Notic	e Certification: 04/04/2018		PI No. 47					
			Operator's Well No. Ten High 1S-15HU					
		W	Vell Pad N	ame: Ten High	<u> </u>			
Notice has b	een given:							
	e provisions in West Virginia Code §	22-6A, the Operator has provid	led the req	uired parties w	ith the Notice Forms listed			
	tract of land as follows:		• •	507.040.04				
State:	West Virginia		asting:	527,312.91				
County:	Marshail		lorthing:	4,406,362.22	ane (Co. Rt. 21/9)			
District:	Meade	Public Road Access Generally used farm			HIRLEY CONKLE, ESTS			
Quadrangle: Watershed:	Glen Easton 7.5' (HUC 10) Fish Creek	Generally used fain	n name.	LAWKENCE & SI	MINELT CONNEL, LOTO			
watershed.	(HOC TO) FISH Creek							
it has provide information re of giving the requirements Virginia Code	the secretary, shall be verified and set the owners of the surface described and (c), set surface owner notice of entry to surface owner notice of entry to surface owner notice of subsection (b), section sixteen of § 22-6A-11(b), the applicant shall thave been completed by the applicant	ped in subdivisions (1), (2) and oction sixteen of this article; (ii) the cross pursuant to subsection (a) of this article were waived in we ender proof of and certify to the	f (4), subs that the rec o, section to triting by	ection (b), sec quirement was en of this artic the surface ow	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wher; and Pursuant to West			
that the Ope	West Virginia Code § 22-6A, the Oprator has properly served the require ECK ALL THAT APPLY		s Notice Co	ertification	OOG OFFICE USE ONLY			
☐ 1. NOT	TICE OF SEISMIC ACTIVITY or	■ NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS			☐ RECEIVED/ NOT REQUIRED			
■ 2. NO	TICE OF ENTRY FOR PLAT SURV	YEY or D NO PLAT SURVE	Y WAS CO	ONDUCTED	☐ RECEIVED			
☐ 3. NO	TICE OF INTENT TO DRILL or	NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PL			☐ RECEIVED/ NOT REQUIRED			
		☐ WRITTEN WAIVER BY (PLEASE ATTACH)	Y SURFAC	CE OWNER				
■ 4. NO	TICE OF PLANNED OPERATION				☐ RECEIVED			
■ 5. PUE	BLIC NOTICE				☐ RECEIVED			
■ 6. NO	TICE OF APPLICATION				☐ RECEIVED			
					the state of the s			

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

> **RECEIVED** Office of Oil and Gas

9 2018 APR

07/13/2018

WW-6AC (1/12)

Certification of Notice is hereby given:

THEREFORE, I Amy L. Miller West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator:Tug Hill Operating, LLCAddress:380 Southpointe Blvd, Southepointe Plaza II, Suite 200By:Amy MillerCanonsburg, PA 15317Its:Permit Specialist - AppalachiaFacsimile:724-338-2030Telephone:724-749-8388Email:amiller@tug-hillop.com

NOTARY SEAL.
COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL
Chester Arthur West IV, Notary Public
Pine Twp., Allegheny County
My Commission Expires Feb. 10, 2020
MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Subscribed and sworn before me this 44 day of April 2018.

Notary Public

My Commission Expires 2-10-2020

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

RECEIVED Office of Oil and Gas

APR 9 2018

WW-6A (9-13) API NO. 47- 051 OPERATOR WELL NO. Ten High 1S-15HU
Well Pad Name: Ten High

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice Ti	me Requirement: r	notice shall be provid	led no later	than the filing date of permit application.	
Date of N Notice of		ate Permit Applicat	ion Filed: 4	/3/2018	
✓ PER	MIT FOR ANY	☐ CERTIFIC	CATE OF A	PPROVAL FOR THE	
	LL WORK			F AN IMPOUNDMENT OR PIT	
Delivery	method pursuant t	o West Virginia Co	de § 22-6A-	·10(b)	
☐ PER	SONAL 🗹	REGISTERED	☐ MET	THOD OF DELIVERY THAT REQUIRES A	
SER	RVICE	MAIL	REC	CEIPT OR SIGNATURE CONFIRMATION	
sediment of the surface oil and gas described operator of more coal well work impound have a war provide we proposed subsection records of provision Code R. §	control plan required e of the tract on whice is leasehold being deviate the erosion and seem lessee, in the event seams; (4) The owner, if the surface tract is nent or pit as describe ter well, spring or waster for consumption well work activity is a (b) of this section he the sheriff required to f this article to the constant of the same activity.	by section seven of the hard the well is or is properly by the proposed diment control plan so the tract of land on we have a few of record of the sure of record of the sure of the section nine of the ter supply source located by humans or domest to take place. (c)(1) If old interests in the land to be maintained pursue on traction of the section of the land to be maintained pursue on the section of the land to be maintained pursue on the section of the land the section of the land the section of the land the land the section of the land the section of the land th	tis article, and posed to be I and well work ubmitted purthich the well accement, cornis article; (5 ated within out animals; a more than the ds, the appliment to section holder is a tor shall also	ot or signature confirmation, copies of the application, different to each of the following persons: (1) To cated; (2) The owners of record of the surface tract of the surface tract is to be used for roads or other large suant to subsection (c), section seven of this article; (3) proposed to be drilled is located [sic] is known to be tracts overlying the oil and gas leasehold being development, enlargement, alteration, repair, removal or any surface owner or water purveyor who is known the thousand five hundred feet of the center of the well and (6) The operator of any natural gas storage field where tenants in common or other co-owners of interest cant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2) not notice to a landowner, unless the lien holder is the provide the Well Site Safety Plan ("WSSP") to the sing as provided in section 15 of this rule.	the owners of record of or tracts overlying the and disturbance as in the coal owner, a underlain by one or oped by the proposed abandonment of any ato the applicant to il pad which is used to within which the its described in on described in the Notwithstanding any alandowner. W. Va.
☑ Applic	cation Notice 🛭 W	SSP Notice E&	S Plan Noti	ce ☑ Well Plat Notice is hereby provided to:	
	CE OWNER(s)		1	☐ COAL OWNER OR LESSEE	
	Estate of Lawrence & Shirley	Mae Conkle c/o Roy Conkle	1	Name: Murray Energy Corporation	
Address:	75 Arlington Avenue			Address: 46226 National Road	
Name:	Moundsville, WV 26041 Roy A. Conkle, Sr., and Lo	orio A	-	St. Clairsville, OH 43950 COAL OPERATOR	_
	75 Arlington Avenue	ino A.		Name: Same as above coal owner	
Address.	Moundsville, WV 26041	*See Attached*		Address:	
M SURFA	CE OWNER(s) (Ro	ad and/or Other Dis	turbance)		
	Robert G. Hubbs and Scar			☑ SURFACE OWNER OF WATER WELL	
	132 Shepherds Ridge Land			AND/OR WATER PURVEYOR(s)	
W	Glen Easton, WV 26039			Name: *See supplement page 1A attached	
Name:				Address:	
Address:					The second second second
				☐ OPERATOR OF ANY NATURAL GAS ST	ORAGE FIELD
		poundments or Pits)		Name: None	_
Name: No				Address:	
Address:				*Please attach additional forms if necessary	_
				1 lease attach auditional forms if necessary	RECEIVED Office of Oil and Gar

APR 9 2018



WW-6A (8-13) RECEIVED
Office of Oil and Gas

APR 9 2018

4705102027

API NO. 47- 951 OPERATOR WELL NO. Ten High 1S-15HU
Well Pad Name: Ten High

Notice is hereby given: WV Department of Environmental Protection

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.e, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12. Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items WW-6A (8-13) API NO. 47-051

OPERATOR WELL NO. Ten High 1S-15HU

Well Pad Name: Ten High

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary. (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

RECEIVED

Chief. Office of Oil and Gas

Office of Oil and Gas

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

APR 9 2018

WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

WW-6A (8-13)

API NO. 47-051 OPERATOR WELL NO. Ten High 1S-15HU
Well Pad Name: Ten High

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons;
- (2) The plan for soil erosion and sediment control is not adequate or effective;
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

RECEIVED Office of Oil and Gas

APR 9 2018

WW-6A (8-13)

API NO. 47-051 OPERATOR WELL NO. Ten High 1S-15HU Well Pad Name: Ten High

Notice is hereby given by:

Well Operator: Tug Hill Operating, LLC

Telephone: 724-749-8388

Email: amiller@tug-hillop.com

Address: 380 Southepointe Blvd, Southpointe Plaza II, Suite 200

Canonsburg, PA 15317

Facsimile: 724-338-2030

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

COMMONWEALTH OF PENNSYLVANIA

NOTARIAL SEAL MAUREEN A STEAD **Notary Public** CECIL TWP, WASHINGTON COUNTY My Commission Expires Jan 28, 2019 Subscribed and sworn before me this 3 day of APRIL 2018.

My Commission Expires

April 2018.

Notary Public

My Commission Expires

RECEIVED Office of Oil and Gas

9 2018 APR

Operator Well Nos. TEN HIGH 1S-15HU

WW-6A Notice of Application Attachment 1 of 1

Surface Owner(s):

Name:

Teresa Anne Hughes and Michael J.

Address:

252 Conkle Drive

Glen Easton, WV 26039

Brenda Joyce Whetzel 1863 Shepherds Ridge Lane Glen Easton, WV 26039

Larry Lee Conkle and Donna D.

154 Conkle Drive

Glen Easton, WV 26039

RECEIVED Office of Oil and Gas

APR 9 2018

Exhibit WW-6A

Tug Hill Operating, LLC 380 Southpointe Blvd, Suite 200 Cannonsburg, PA 15137

Residences within Two-Thousand Feet (2,000')

Well: Ten High 1S – 15HU

District: Meade (House #'s 1-3)

State: WV

There are three (3) residences, no businesses, no churches, no schools or no emergency facilities within two-thousand feet (2,000') of the above referenced well location.

House 1

TM 7 Pcl. 24

Lawrence & Shirley Conkle Ests

Phone: 304-845-1808; 304-848-1808

Physical Address:

77B Shepards Lane 932 Shepherd Ridge Ln.

Glen Easton, WV 26039

Tax Address:

75 Arlington Ave.

Moundsville, WV 26041

House 2

TM 7 Pcl. 25

Thomas R. & Kimberly Whitfield

Phone: 304-843-1753

Physical Address:

53 Sallys Backbone Rd. 1834 Sally's Backbone Rd.

Glen Easton, WV 26039

Tax Address:

1838 Sallys Backbone Rd. Glen Easton, WV 26039 House 3

TM 7 Pcl. 25

Thomas R. & Kimberly Whitfield

Phone: 304-843-1753 Physical Address:

53 Sallys Backbone Rd. 1838 Sally's Backbone Rd. Glen Easton, WV 26039

Tax Address:

Same

RECEIVED Office of Oil and Gas

APR 9 2018

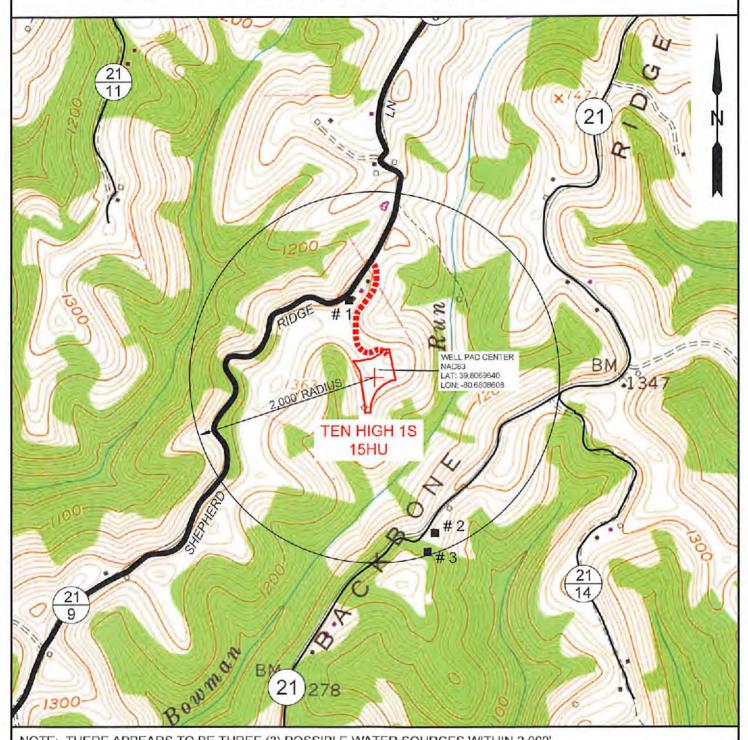
WW-6A

APR 9 2018

PROPOSED

SUPPLEMENT PG. 1B

WV Department of EN HIGH 1S - 15HU



NOTE: THERE APPEARS TO BE THREE (3) POSSIBLE WATER SOURCES WITHIN 2,000'.



	TOPO SI	ECTION:	OPERATOR:			
	GLEN EAS	STON 7.5'	PREPARED FOR: TUG HILL OPERATING, LLC 380 SOUTHPOINTE BLVD			
١	COUNTY	DISTRICT				
	MARSHALL	MEADE	SUITE 200 CANONSBURG, PA 15317			
١	DRAWN BY	JOB NO.	DATE	SCALE		
	K.G.M.	8655	08-14-17	1" - 1000'		



WW-6A3 (1/12) Operator Well No. TEN HIGH 1S-15HU

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF ENTRY FOR PLAT SURVEY

Date of Notice: Decivery method pursuant to West Virginia Code § 22-6A-10a Delivery method pursuant to West Virginia Code § 22-6A-10a Delivery method pursuant to West Virginia Code § 22-6A-10a Delivery method pursuant to West Virginia Code § 22-6A-10a Delivery method pursuant to West Virginia Code § 22-6A-10a Delivery method pursuant to West Virginia Code § 22-6A-10a Delivery method pursuant to West Virginia Code § 22-6A-10a, Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface cowner of such tract; (2) to any cowner or lessee of coal seams beneath such tract that has filed a declaration pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface cowner of such tract; (2) to any cowner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code is attained that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code is attained that include contact information, including the address for a web page on the Secretary is web site, to enable the surface owner to obtain copies from the secretary. Notice is hereby provided to: SURFACE OWNER(s) Name: SURFACE OWNER(s) N	Notice Tirentry	ne Requirement:	Notice shall be prov	ided at least	SEVEN (7) day	ys but no more than	1 FORTY-FIVE	E (45) days	prior to
PERSONAL REGISTERD METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 Street, SE, Charl		otice: December 9, 20	Date of Plan	ned Entry:	December 20, 2016				
Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to; (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosio and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary. Notice is hereby provided to: SURFACE OWNER(s) Name: ENTRY OWNER(s) Name: MOUNDSVILE, WV 28041 Name: STATE OF LAWNERCE ASSTON, WV 28049 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: Approx. Latitude & Longitude: LAT 384087775 LONG-80-809192 STATE OF THE PROPERTY	Delivery 1	nethod pursuant	to West Virginia Co	ode § 22-6A-	10a				
Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to; (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosio and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary. Notice is hereby provided to: SURFACE OWNER(s) Name: ENTRY OWNER(s) Name: MOUNDSVILE, WV 28041 Name: STATE OF LAWNERCE ASSTON, WV 28049 Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: Approx. Latitude & Longitude: LAT 384087775 LONG-80-809192 STATE OF THE PROPERTY	□ pep	SONAL []	REGISTERED	■ MET	HOD OF DEL	IVERY THAT RE	OUIRES A		
Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thinty-six, article six, chapter twenty-or of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosio and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary. Notice is hereby provided to: SURFACE OWNER(s) Name: SURFACE OWNER(s) Name: BEVATE OF WARRINGTON AVENUE MOUNDSVILLE, WV 26041 Name: BARRINGTON AV									
on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosio and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary. **RECEIVED** **Office of Oil and Gat** **BECHYCO** **Office of Oil and Gat** **BECHYCO** **Office of Oil and Gat** **Address: **76 ARLINGTON AVENUE** **MOUNDSYILE, WV 20041** **Name: **EATH OF NAMES CAS ASHINGTON AVENUE** **MOUNDSYILE, WV 20041** **Name: **BARINGTON AVENUE** **MOUNDSYILE, WV 20041** **Please sitach additional forms if necessary* **Notice is hereby given:** **Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: **State: **WEST VIRGINIA CODE § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: **State: **WEST VIRGINIA CODE § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: **State: **WEST VIRGINIA CODE § 22-6A-10(a), notice is hereby given that th	SEK	VICE	WAIL	REC	Ell I OK SIGI	ATOKE COM IK	MATION		
Notice is hereby provided to: SURFACE OWNER(s) Name: STATE OF LAWRENCE & SHIRLEY MAE CONKLE GO ROY CONKE Address: 76 ARLINGTON AVENUE MOUNDSYLLE, WV 26041 Name: LARRY CONKLE, SR Address: 76 ARLINGTON AVENUE MOUNDSYLLE, WV 26041 Name: LARRY CONKLE Address: 76 ARLINGTON AVENUE MOUNDSYLLE, WV 26041 Name: LARRY CONKLE Address: 76 ARLINGTON AVENUE MOUNDSYLLE, WV 26041 Name: LARRY CONKLE Address: 76 ARLINGTON AVENUE MOUNDSYLLE, WV 26041 Name: LARRY CONKLE Address: 76 ARLINGTON AVENUE MOUNDSYLLE, WV 26041 Name: LARRY CONKLE Address: 76 ARLINGTON AVENUE MOUNDSYLLE, WV 26041 Name: LARRY CONKLE Address: 76 ARLINGTON AVENUE MOUNDSYLLE, WV 26041 Name: Estate Of Lawrence & SHIRLEY MAE CONKLE GO ROY DOOKS Address: 76 ARLINGTON AVENUE MOUNDSYLLE, WV 26041 *please attach additional forms if necessary Notice is hereby given: Pursuant to West Viriginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: WEST VIRIGINIA Approx. Latitude & Longitude: VEST VIRIGINIA Approx. Latitude & Longitude: Public Road Access: HUC-10 FISH CREEK Quadrangle: GLEN EASTON 7.9 Generally used farm name: LAWRENCE CONKLE. SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: Tug HILL OPERATING LLC Address: 388 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II. SUITE 200 CANONSBURG, PA16317	on to the s but no mo- beneath su owner of r and Sedim Secretary,	urface tract to con re than forty-five of ich tract that has fi ninerals underlyin ent Control Manu which statement s	duct any plat surveys lays prior to such ent led a declaration purs g such tract in the col al and the statutes and hall include contact i	required pur ry to: (1) The suant to section to tax record d rules relate nformation,	rsuant to this are e surface owner on thirty-six, a rds. The notice d to oil and gas	ticle. Such notice s of such tract; (2) to ticle six, chapter to e shall include a state exploration and pro-	shall be provided to any owner or lowenty-two of thin tement that coping of the coping that the coping that the coping that the coping the coping that the coping the coping the coping that the coping the coping the coping the coping that the coping the	at least sevelessee of costs code; and ites of the state obtained f	en days al seams (3) any ate Erosion from the
SURFACE OWNER(s) Name: ESTATE OF LAWRENGE & SHRILEY MARE CONNELS OF Rey Connec Address: 75 ARLINGTON AVENUE MOUNDSVILLE, WV 26041 Name: LARRY CONNELS, R MOUNDSVILLE, WV 26041 Name: LARRY CONNELS, R MOUNDSVILLE, WV 26041 Name: LARRY CONNELS A MOUNDSVILLE, WV 26041 Name: LARRY CONNEL BORNER Address: 76 ARLINGTON AVENUE MOUNDSVILLE, WV 26041 Name: STATE OF LAWRENCE & SHIRLEY MARE CONNELS OF Rey Connect Address: 76 ARLINGTON AVENUE MOUNDSVILLE, WV 26041 **please attach additional forms if necessary Notice is hereby given: Notice is hereby given: Notice is hereby given: Approx. Latitude & Longitude: West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Approx. Latitude & Longitude: LAT 39.8067775 LONG -80.8699192 SHEPHERD RIGGE LANE (CO. RT. 21/9) District: MEADE Quadrangle: GLEN EASTON 7.5' Generally used farm name: LAWRENCE CONNEL SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: TUG HILL OPERATING LLC Address: 380 SOUTHPOINTE BLVD SOUTHPOINTE PLAZA II, SUITE 260 CANONSBURG, PA16317				e secretary.				RECE Office of C	EIVED oil and Gas
Name: ESTATE OF LAWRENCE & SHIRLEY MAE CONKLE OR Ray Conko Address: 75 ARLINGTON AVENUE MOUNDSVILLE, WV 26041 Name: ROY A CONKIE, SR Address: 76 ARLINGTON AVENUE MOUNDSVILLE, WV 26041 Name: LARRY CONKIE, SR Address: 76 ARLINGTON AVENUE MOUNDSVILLE, WV 26041 Name: LARRY CONKIE DRIVE GLEN EASTON, WV 20039 "SEE ATTACHED" Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: WEST VIRGINIA County: MARSHALL Public Road Access: SHEPIETRO RIDGE LANG (Go. RT. 21/9) District: MEADE Quadrangle: GLEN EASTON 7.5' Generally used farm name: LAWRENCE CONKIE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: Tug HILL OPERATING LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 CANONSBURG, PA15317						Water English State S		ADD	9 2018
Address: 76 ARLINGTON AVENUE MOUNDSVILLE, WV 26041 Name: ROY A CONKLE, SR Address: 76 ARLINGTON AVENUE MOUNDSVILLE, WV 26041 Name: LARRY CONKLE Address: 164 CONKLE DRIVE GLEN EASTON, WV 26039 "SEE ATTACHED" Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: LAT 39.8067775 LONG -80.8099192 SHEPHERD RIDGE LANE (Co. RT. 21/9) HUC-10 FISH CREEK Quadrangle: GLEN EASTON 7.5° Generally used farm name: LAWRENCE CONKLE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from	■ SURF	FACE OWNER(s)		1				ALK	9 2010
Address: 4828 NATIONAL ROAD Environmental Protect MOUNDSVILLE, WV 26041 Name: ROY A CONKLE, SR Address: 75 ARLINGTON AVENUE MOUNDSVILLE, WV 26041 Name: LARRY CONKLE Address: 154 CONKLE DRIVE GLEN EASTON, WV 26039 "SEE ATTACHED" Notice is hereby given: Notice is hereby given: Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: WEST VIRGINIA Approx. Latitude & Longitude: LAT 39.6067775 LONG-80.6699192 State: WEST VIRGINIA Approx. Latitude & Longitude: LAT 39.6067775 LONG-80.6699192 State: WEST VIRGINIA Approx. Latitude & Longitude: LAT 39.6067775 LONG-80.6699192 State: WEST VIRGINIA Approx. Latitude & Longitude: LAT 39.6067775 LONG-80.6699192 State: WEST VIRGINIA County: MARSHALL Public Road Access: SHEPHERD RIDGE LANE (Co. RT. 21/9) District: MEADE Watershed: HUC-10 FISH CREEK Quadrangle: GLEN EASTON 7.6 Generally used farm name: LAWRENCE CONKLE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: TUG HILL OPERATING, LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 CANONSBURG, PA18317	Trailie.	A Marie Control of the second of the second	NOT THE REPORT OF THE PARTY OF					WV Depa	artment of
Name: ROY A CONKLE, SR Address: 76 ARLINGTON AVENUE MOUNDSVILLE, WV 26041 Name: LARRY CONKLE Address: 156 CONKLE DRIVE GLEN EASTON, WV 26039 "SEE ATTACHED" Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Approx. Latitude & Longitude: LAT 39.6067775 LONG-80.6609192 Public Road Access: 9HEPHERD RIDGE LANE (Co. RT. 21/9) District: MEADE Watershed: HUC-10 FISH CREEK Quadrangle: GLEN EASTON 7.5' Generally used farm name: LAWRENCE CONKLE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: Tug HILL OPERATING, LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 CANONSBURG, PA16317				-	The second second is			Environmen	tal Protection
Address: 75 ARLINGTON AVENUE MOUNDSVILLE, WV 26041 Name: LARRY COMKLE Address: 76 ARLINGTON AVENUE Address: 75 ARLINGTON AVENUE MOUNDSVILLE, WV 26041 Name: LARRY COMKLE DRIVE Address: 75 ARLINGTON AVENUE MOUNDSVILLE, WV 25041 "SEE ATTACHED" *please attach additional forms if necessary Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia A Approx. Latitude & Longitude: LAT 39.8067775 LONG-80.5699192 County: MARSHALL Public Road Access: SHEPHERD RIDGE LANE (Go. RT. 21/9) District: MEADE Watershed: HUC-10 FISH CREEK Quadrangle: GLEN EASTON 7.8' Generally used farm name: LAWRENCE CONKLE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: Tug HILL OPERATING LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 CANONSBURG, PA15317			41	_		ST. CLAIRSVILLE, OH 439	350		
Name: LARRY CONKLE Address: 75 ARLINGTON AVENUE MOUNDSVILLE, WV 25041 "SEE ATTACHED" * Please attach additional forms if necessary Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: Approx. Latitude & Longitude: LAT 39.6067775 LONG -80.6609192 State: WEST VIRIGINIA Public Road Access: SHEPHERD RIDGE LANE (Go. RT. 21/9)	T. ICCITATION		/	-	(E)	n it ounmoit			
Name: LARRY CONKLE Address: 154 CONKLE DRIVE GLEN EASTON, WV 26039 "SEE ATTACHED" *please attach additional forms if necessary Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia A Approx. Latitude & Longitude: LAT 39.6067775 LONG -80.6699192 County: MARSHALL Public Road Access: SHEPHERD RIDGE LANE (Co. RT. 21/9) District: MEADE Watershed: HUC-10 FISH CREEK Quadrangle: GLEN EASTON 7.5' Generally used farm name: LAWRENCE CONKLE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: Tug HILL OPERATING LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 CANONSBURG, PA15317				-				1	
Address: 164 CONKLE DRIVE MOUNDSVILLE, WV 25041 "SEE ATTACHED" Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: WEST VIRGINIA Approx. Latitude & Longitude: LAT 39.8067775 LONG -80.6609192 County: MARSHALL Public Road Access: SHEPHERD RIDGE LANE (Co. RT. 21/9) District: MEADE Watershed: HUC-10 FISH CREEK Quadrangle: GLEN EASTON 7.5' Generally used farm name: LAWRENCE CONKLE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57 bill Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx. Notice is hereby given by: Well Operator: Tue HILL OPERATING, LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 Telephone: (724) 749-3368 CANONSBURG, PA15317			41	_			Y MAE CONKLE do Roy	onkie	
*please attach additional forms if necessary Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: WEST VIRGINIA Approx. Latitude & Longitude: LAT 39.8067775 LONG-80.6809192 County: MARSHALL Public Road Access: SHEPHERD RIDGE LANE (Co. RT. 21/9) District: MEADE Watershed: HUC-10 FISH CREEK Quadrangle: GLEN EASTON 7.5' Generally used farm name: LAWRENCE CONKLE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: Tug HILL OPERATING LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 CANONSBURG, PA15317			1	-	The second secon		/		
Notice is hereby given: Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: West Virginia Approx. Latitude & Longitude: LAT 39.8067775 LONG -80.6809192 County: MARSHALL Public Road Access: SHEPHERD RIDGE LANE (Co. RT. 21/9) District: MEADE Watershed: HUC-10 FISH CREEK Quadrangle: GLEN EASTON 7.5° Generally used farm name: LAWRENCE CONKLE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: Tug HILL OPERATING, LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 Telephone: 724/749-8368 CANONSBURG, PA15317			A MODE ATTACHED			THE COURSE IN TAXABLE AND THE		D**	
Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows: State: WEST VIRGINIA Approx. Latitude & Longitude: LAT 39.8067775 LONG -80.6809192 County: MARSHALL Public Road Access: SHEPHERD RIDGE LANE (Co. RT. 21/9) District: MEADE Watershed: HUC-10 FISH CREEK Quadrangle: GLEN EASTON 7.5' Generally used farm name: LAWRENCE CONKLE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: TUG HILL OPERATING, LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 CANONSBURG, PA15317		GLEN EASTON, WV 2603	SEE ATTACHED"	-	*please attac	h additional forms if ne	cessary		
County: MARSHALL Public Road Access: SHEPHERD RIDGE LANE (Co. RT. 21/9) District: MEADE Watershed: HUC-10 FISH CREEK Quadrangle: GLEN EASTON 7.5' Generally used farm name: LAWRENCE CONKLE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: TUG HILL OPERATING, LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 Telephone: (724) 749-8388 CANONSBURG, PA15317	Pursuant to a plat surv	o West Virginia C		otice is herel			operator is plan	ning entry t	o conduct
District: MEADE Watershed: HUC-10 FISH CREEK Quadrangle: GLEN EASTON 7.5' Generally used farm name: LAWRENCE CONKLE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: TUG HILL OPERATING, LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 Telephone: (724) 749-8388 CANONSBURG, PA15317		WEST VIRGINIA					LAT 39.8067775 LOI	NG -80.6809192	
Quadrangle: GLEN EASTON 7.5' Generally used farm name: LAWRENCE CONKLE, SR. Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: TUG HILL OPERATING, LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 Telephone: (724) 749-8388 CANONSBURG, PA15317		MARSHALL				Access:	SHEPHERD RIDGE	LANE (Co. RT.	21/9)
Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: Tug HILL OPERATING, LLC Tug HILL OPERATING, LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 CANONSBURG, PA15317									
may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx . Notice is hereby given by: Well Operator: Tug HILL OPERATING, LLC Tug HILL OPERATING, LLC Address: 380 SOUTHPOINTE BLVD., SOUTHPOINTE PLAZA II, SUITE 200 Telephone: (724) 749-8388 CANONSBURG, PA15317	Quadrangl	e: GLEN EASTON 7.	5'		Generally use	d farm name:	LAWRENCE CONKL	E, SR.	
Telephone: (724) 749-8388 CANONSBURG, PA15317	may be ob Charlestor obtained fi Notice is	tained from the Se a, WV 25304 (304 rom the Secretary hereby given by	cretary, at the WV D 4-926-0450). Copies by visiting <u>www.dep</u> y:	epartment of of such docu	Environmenta iments or addit and-gas/pages/o	I Protection headquional information re default.aspx.	uarters, located a elated to horizon	tt 601 57 th S tal drilling	treet, SE, may be
TO A STATE OF THE		and the same of th	9120 301 S. O. A. O. A.		1-2-2-3-6				
princeglogramic testing (127) and testing (127)		-			Facsimile	127727727			
	-man	Jwinte@tug-hillo	расоп		1 destinite.	(124) 300-2030			

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

Operator Well No. TEN HIGH 1S-15HU

WW-6A3 Notice of Entry for Plat Survey Attachment 1 of 1

Surface Owner(s):

Name: Address: Teresa Hughes 252 Conkle Drive

Glen Easton, WV 26039

Brenda Joyce Wetzel

RD 1, Box 79

Glen Easton, WV 26039

Surface Owner(s) Access Road:

Name:

Robert G. Hubbs and Scarlett E. Otte/

132 Sheperd Ridge Lane Glen Easton, WV 26039

Mineral Owner(s):

Name:

Roy A. Conkle, Sr. 75 Arlington Avenue

Moundsville, WV 26041

Larry Conkle 154 Conkle Drive

Glen Easton, WV 26039

Teresa Hughes 252 Conkle Drive

Glen Easton, WV 26039

Brenda Joyce Wetzel

RD 1, Box 79

Glen Easton, WV 26039

RECEIVED Office of Oil and Gas

9 2018

WW-6A5 (1/12) Operator Well No. Ten High 18-15HU

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Notice Time Date of Notic	Requirement: notice shall be provided no le: 04/03/2018 Date Permit App	ater than the filing dication Filed: 04/0	date of permit 4/2018	application.
Delivery met	hod pursuant to West Virginia Code § 22	-6A-16(c)		
■ CERTI	FIED MAIL	HAND		
		DELIVERY		
KETUI	CN RECEIPT REQUESTED 1	DELIVERT		
return receipt the planned of required to be drilling of a damages to th (d) The notice of notice.	V. Va. Code § 22-6A-16(c), no later than the requested or hand delivery, give the surface operation. The notice required by this subservation (b), section ten of the horizontal well; and (3) A proposed surface surface affected by oil and gas operations are required by this section shall be given to	e owner whose land section shall include his article to a surfa- e use and compens to the extent the da the surface owner a	will be used for le: (1) A copy ace owner whos ation agreemen mages are comp	or the drilling of a horizontal well notice of of this code section; (2) The information he land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter.
(at the addres	eby provided to the SURFACE OWNER(s listed in the records of the shoriff at the tin	s) ne of notice):		
Name: Estate	of Lawrence & Shirley Mae Conkle c/o Roy Conkle	Name:	Roy A. Conkle, Sr.,	
Address: 75 A		Address	75 Arlington Avenu	The second secon
Mour	dsville, WV 26041		Moundsville, WV 26041 "See Attached"	
operation on State: County:	the surface owner's land for the purpose of West Virginia Marshall	drilling a horizonta – UTM NAD 8	Facting.	527,312.91 4,406,362.22
District:	Meade	Public Road	A STATE OF THE PARTY OF THE PAR	Shepherd Ridge Lane (Co. Rt. 21/9)
Quadrangle:	Glen Easton 7.5'	Generally use		LAWRENCE & SHIRLEY CONKLE, ESTS
Watershed:	(HUC 10) Fish Creek		u min mino	
Pursuant to V to be provide horizontal we surface affect information r	Shall Include: //est Virginia Code § 22-6A-16(c), this notice that by W. Va. Code § 22-6A-10(b) to a surell; and (3) A proposed surface use and commed by oil and gas operations to the extention of the extention of the comment of th	rface owner whose pensation agreement the damages are contained a ed from the Secret	land will be unit containing an impensable und ary, at the WV	used in conjunction with the drilling of a offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection
Well Operato	T' Tua Hill Operating LLC	Address:	380 Southnointe Plu	d, Southepointe Plaza II, Suite 200
Telephone:	The state of the s	11441033.	Canonsburg, PA 153	0.00
Email:	724-749-8386	Facsimile:	724-338-2030	v 11
canan.	amiller@tug-hillop.com		7.24-000-2000	
The Office of	Privacy Notice: Oil and Gas processes your personal information may be disclosed to			

needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact

DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

RECEIVED Office of Oil and Gas

APR 9 2018
07/13/2018
WV Department of the convergence of the converge

Operator Well Nos. TEN HIGH 1S-15HM

WW-6A5 Notice of Planned Operation...... Attachment 1 of 1

Surface Owner(s):

Name:

Teresa Anne Hughes and Michael J.

Address:

252 Conkle Drive

Glen Easton, WV 26039

Brenda Joyce Whetzel 1863 Shepherds Ridge Lane Glen Easton, WV 26039

Larry Lee Conkle and Donna D, 154 Conkle Drive Glen Easton, WV 26039

Robert G. Hubbs and Scarlett E. Otte 132 Shepherds Ridge Lane Glen Easton, WV 26039

> RECEIVED Office of Oil and Gas

APR 9 2018



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Jim Justice Governor Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

May 16, 2017

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Ten High 1N Pad, Marshall County Ten High 1S Unit-15HU Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2017-0127 which has been issued to Tug Hill Operating, LLC for access to the State Road for a well site located off of Marshall County Route 21/9 SLS.

The operator has signed a STATEWIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

Very Truly Yours,

Gary K. Clayton, P.E.

Regional Maintenance Engineer Central Office O&G Coordinator

Ce: Jonathan White

Tug Hill Operating, LLC

CH, OM, D-6

File

Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection



PLANNED ADDITIVES TO BE USED IN FRACTURING OR STIMULATION

Well No. Ten High 1S-15HU

PRODUCT NAME: CHEMICAL DESCRIPTION: PRODUCT USE: HAZARDOUS COMPONENT:

GBW-20C Hemicellulase Breaker Breaker - Water None

ALPHA 1427 Biocide Glutaraldehyde – CAS#000111-30-8

Quaterary ammonium chloride

CAS# 007173-51-5

CAS# 14808-60-7

Alky dimethyl benzyl ammonium Chloride (C12-16) – CAS#068424-85-1

Ethanol – CAS# 000064-17-5 Water – CAS# 007732-18-5

FRAC SAND Silica Sand (various Mesh Proppant Crystalline silica (quartz)

sizes)

S-8C, Sand Silica Sand (100 mesh) Sand Silica – CAS# 14808-60-7

GW-3LDF Gellant - Water Petroleum Distillate Blend – Proprietary,

(Not Associated with Diesel Fuel) Guar gum – CAS# 009000-30-0

FRW-18 Friction Reducer Hydrotreated light distillate

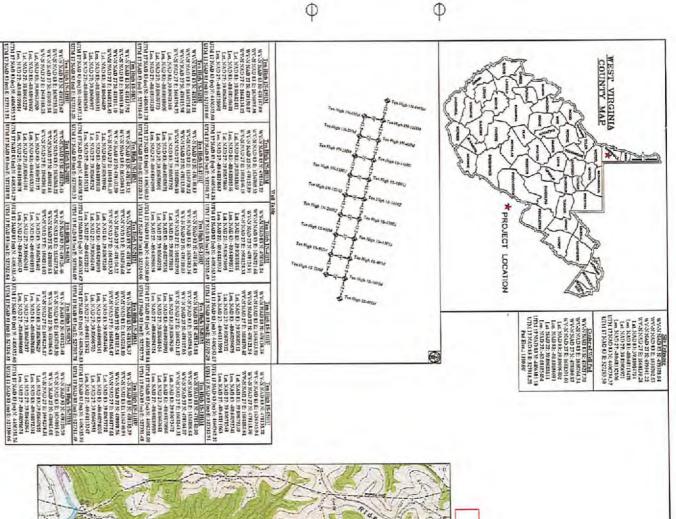
CAS# 064742-47-8

Scaletrol Scale Inhibitor Ethylene glycol – CAS# 000107-21-1

Diethylene glycol – CAS# 000111-46-6

RECEIVED Office of Oil and Gas

APR 9 2018 -



Erosion and Sec Site Design, C Ten Hig

Tug Hi Marsh Meac

Longitude Middle Fish

Latitude

Exhibit



φ

19 8106821 -30 5817200 39 8106821 -30 5817200

he topography information shown berein is based ouried pholography by filter Mountain Acrial Mappin

d Delinealizers as pay (dad by Albein hated factory 17, 2017

Φ

Tug Jilli Operating, J.L.C Jill Swithpoints Rivel Southpoints Plaza II, Park 200 Cassenberg, PA 15917

Gestechnikal Engineer
American Geotett, ber
Eard Fatel
1944-19-4277 Off. Zackary Symmetrical JOHNSTRANDO OR. John P. See 364-142-0229 Off. Kenach Kelly 104-138-6983 Off. greer and Engine

Gooff Radier - V.P. Production 817-632-5290 Off Zeathan White - Republicy Analysi 724-165-2000 Off. 301-645-7676 Cell

MISS UTILITY OF WEST VIRGINIA 1-800-245-4848 Section XIV Company Technology Company Technology Company Technology Company Comp IT'S THE LAW

The WV Mines Website was consulted. Previous (Current) mining activities are within the AOL

7 Well Site

39.80696402° e District all County 1 Operating iment Control Plans instruction Plan, &

RECEIVED Office of Oil and Gas

APR 9 2018

WV Department of Environmental Protection

Pertinent Site Information

Ten High Well Site
Emergency Number: 304-845-1920
Meade District, Marshall County, WV
Watershed: Middle Fish Creek Watershed
Tug Hill Contact Number: 1-817-632-3400

ACCEPTED AS-BUI WYDEP 000

Revision Design As-Built

1/9/2018



1: As-Built

Creek Watershed -80.68086081°

WV State Plany Coordinate Systems Morth Zone, NACH B3 Elevations, Hand on NACHB Established Dy Survey Oxede OFS and OPUS Post-Processing.

Sim Touristan) 5.52 1.78 1.39 7.18 TM - Percel Republished New Access Read Complexism 7-121 1,083.27 New Access Read Complexism 7-24 1,083.27 New Access Read Complexism

- Ten High Well Site

Lawrence Contile, et al



UG HILI

OPERATING

100000000000000000000000000000000000000		
177.77	56,651,32 60,332,01	
12,590.73 NA	0.00 12,590.73	terral Stockpile
1,22+09 30101+	2.558.18 3.782.18	progress.
122	01764071 15560715	Pr
Henron (CT) Max Stope Lett	CRICAL ENICE IS	ped
HICK	Ten ligh Well Site C	

EXISTING API NUMBERS 4705101934

All Pad cos

STATE OF 22214

Editor Commented July C. S. A.C.

De 121-201

Sections - Well Pad Sections - Access Road chnical Exhibit wner Disturbed Area Exhibit

d Sediment Control Details ad Details

4705101964	4705101945	4705101944	4705101943	

Stirlishance Center of Well Pad

of Omntifies	escription	

Cover Sheet

Ten High Well Site



	П	T
		١
		ı
		١
		١
		ı
		ı

Meade District Marshall County, WV