



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

March 1, 2018
PERMIT MODIFICATION APPROVAL
Horizontal 6A / New Drill

TUG HILL OPERATING, LLC
1320 SOUTH UNIVERSITY DRIVE, SUITE 500
FORT WORTH , TX 76107

Re: Permit Modification Approval for HEAVEN HILL 3-5HM
47-051-01948-00-00

Modified Bottom Hole Coordinates thereby Shortening the Lateral

TUG HILL OPERATING, LLC

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before 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: HEAVEN HILL 3-5HM
Farm Name: RICKY L. WHITLATCH
U.S. WELL NUMBER: 47-051-01948-00-00
Horizontal 6A / New Drill
Date Issued: March 1, 2018

Promoting a healthy environment.

03/02/2018

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

1) Well Operator: Tug Hill Operating, LLC 494510851 Marshall Meade Glen Easton 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Heaven Hill 3-5HM Well Pad Name: Heaven Hill 3

3) Farm Name/Surface Owner: Ricky L. Whitlatch Public Road Access: Yeater Land CR 21/11

4) Elevation, current ground: 1342' Elevation, proposed post-construction: 1326'

5) Well Type (a) Gas Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow Deep _____

Horizontal _____

JW
2/5/18

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus is the target formation at a depth of 6724 - 6776' thickness of 52' and anticipated pressure of approx. 3800 psi

8) Proposed Total Vertical Depth: 6,876'

9) Formation at Total Vertical Depth: Onondaga

10) Proposed Total Measured Depth: 14,866'

11) Proposed Horizontal Leg Length: 7,476'

12) Approximate Fresh Water Strata Depths: 70', 1038'

13) Method to Determine Fresh Water Depths: Offset well reports or noticeable flow at the flowline or when need to start soaping

14) Approximate Saltwater Depths: 2,167'

15) Approximate Coal Seam Depths: Sewickly Coal - 946' and Pittsburgh Coal - 1031'

16) Approximate Depth to Possible Void (coal mine, karst, other): None anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No _____

(a) If Yes, provide Mine Info: Name: Marshall County Coal Co. / Marshall County Mine
Depth: 1031' TVD and 311' subsea level
Seam: Pittsburgh #8
Owner: Murray Energy / Consolidated Coal Co.

RECEIVED
Office of Oil and Gas
FEB 6 2018

WV Department of
Environmental Protection

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'	338FT^3(CTS)
Fresh Water	13 3/8"	NEW	H40	48#	1,120'	1,120'	1142ft^3(CTS)
Coal	13 3/8"	NEW	H40	48#	1,120'	1,120'	1142ft^3(CTS)
Intermediate	9 5/8"	NEW	J55	36#	2,802'	2,802'	896ft^3(CTS)
Production	5 1/2"	NEW	P110	20#	14,866'	14,866'	3357ft^3(CTS)
Tubing	2 3/8"	NEW	N80	4.7#		7,231'	
Liners							

ju 2/2/18

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	13 3/8"	17 1/2"	.33	1,730	1,384	SEE #24	1.2
Coal	13 3/8"	17 1/2"	.33	1,730	1,384	SEE#24	1.2
Intermediate	9 5/8"	12 1/4"	.352	3,520	2,816	SEE#24	1.19
Production	5 1/2"	8 7/8_8 3/4	.361	12,640	10,112	SEE#24	1.17/1.19
Tubing	2 3/8"		.19	11,200	8,960		
Liners							

PACKERS

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

RECEIVED
Office of Oil and Gas
FEB 6 2018
WV Department of Environmental Protection

WW-6B
(10/14)

API NO. 47- 051 - 01948 mod
OPERATOR WELL NO. Heaven Hill 3-5HM
Well Pad Name: Heaven Hill 3

JW
2/5/18

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

Drill through the Marcellus and TD Pilot Hole 100' into the Onondaga. 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 30,792,500 lb prop and approximately 476,075 bbl of water. Max rate = 80 bpm; max psi = 9,000#.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 18.43

22) Area to be disturbed for well pad only, less access road (acres): 7.15

23) Describe centralizer placement for each casing string:

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

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

*See Attachment

RECEIVED
Office of Oil and Gas
FEB 6 2018
WV Department of
Environmental Protection

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

*Note: Attach additional sheets as needed.

51-01948 MCB



WELL NAME: Heaven Hill 3-SHM
 STATE: West Virginia COUNTY: Marshall
 DISTRICT: Meade
 OF Elev: 1,325' GL Elev: 1,325'
 TD: 14,866'
 IN Location: 39.80663272
 IN Longitude: -80.69317425
 BH Location: 39.78701046
 BH Longitude: -80.67428554

30" Csg @ 120' TVD

13 3/8" Csg @ 1,120' TVD

9 5/8" Csg @ 2,800' TVD

KOP @ 6,731' ft MD

CASING SUMMARY

Type	Hole Size (in)	Csg Size (in)	Depth (MD)	Depth (TVD)	Weight (lb/ft)	Grade	Top of Cement
Conductor	35	30	120'	120'	BW	BW	Surface
Surface	17.5	13 3/8	1,120'	1,120'	48	H40	Surface
Intermediate 1	12 1/4	9 5/8	2,802'	2,800'	36	J55	Surface
Production	8 7/8 x 8 3/4	5 1/2	14,866'	6,883'	20	P110	Surface

CEMENT SUMMARY

Seals	Class	Density	Fluid Type	Centralizer Notes
Conductor	A	15.6	Air	None
Surface	A	15.6	Air	3 Centralizers at equal distance
Intermediate 1	A	15	Air	1 Centralizer every other ft
Production	A	14.5	Air / SCBM	1 every other joint in lateral; 1 per joint in curve; 1 every other ft to sitc

FORMATION TOPS

Formation	Depth TVD
Deepen Fresh Water	1038
Sewickley Coal	946
Pittsburgh Coal	1031
Big Lime	2060
Weir	2486
Berea	2684
Gordon	2946
Rhinolite	6068
Genesco/Blanket	6586
Tully	6617
Herrilton	6650
Marellus	6724
Landing Depth	6753
Onondaga	6776
Pilot Hole Depth	6876

8/15/18

Lateral TD @ 14,866' ft MD
 6,883' ft TVD

RECEIVED
 Office of Oil and Gas
 FEB 6 2018
 WV Department of Environmental Protection

Pilot Hole
 PH TD @ 6,876' TVD

03/02/2018

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

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

Permit well - Heaven Hill 3-5HM

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

API Number	Operator Name	Total Depth	Perforated Fms	Producing zones not perforated	Is this well "known or reasonably expected to penetrate a depth that could 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	6737' TVD planned	None	None	No, Permitted Marcellus well	Permitted Marcellus well. Not yet drilled
4705101962	Tug Hill	6737' TVD planned	None	None	No, Permitted Marcellus well	Permitted Marcellus well. Not yet drilled
4705101963	Tug Hill	6737' TVD planned	None	None	No, Permitted Marcellus well	Permitted Marcellus well. Not yet drilled
4705101947	Tug Hill	6737' TVD planned	None	None	No, Permitted Marcellus well	Permitted Marcellus well. Not yet drilled
4705100846	Hope Natural Gas Co.	Unknown	Unknown	Unknown	Unknown but unlikely, Appears to be a coal test bore well	Well records are incomplete, plug date 12/12/1999
4705100843	Hope Natural Gas Co.	Unknown	Unknown	Unknown	Unknown but unlikely, Appears to be a coal test bore well	Well records are incomplete, plug date 9/16/1999
4705100595	Columbia Gas Transmission Corp.	2545	Gordon	Unknown	No. TVD depth of well is too shallow to be within Range of potential Fracture propagation from Marcellus wells	Well not plugged but no production reported in 2015
4705100853	Wheeling Natural Gas Co.	Unknown	Unknown	Unknown	Unknown but unlikely, Appears to be a shallow coal test bore well.	Well records are incomplete, plug date 3/6/2002

WV Geological & Economic Survey. Well: County = 51 Permit = 00846. Report Time: Thursday, J

Well Reassignment Information: Reassigned From
 OLD_COUNTY OLD_PERMIT NEW_COUNTY NEW_PERMIT
 51 00846 51 00846

Location Information: [View Map](#)

API	COUNTY	PERMIT	TAX DISTRICT	QUAD_75	QUAD_12	LAT_00	LOW_00	UTM_E	UTM_N
4705100846	Marshall	545	Meigs	Old Station	Carleton	39.727852	-85.654356	527024.4	4406258.2

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_DT	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_V
4705100846	12/12/1999		Plugging	Archie Wrenk	M-53				Consolidation Coal Co	Medley Coal Company	
4705100846				Archie Wrenk	592				Hope Natural Gas Company		

Completion Information:

API	CMP_DT	SPUD_DT	ELEV DATUM	FIELD	DEEPEST_FM	DEEPEST_FSY	INITIAL_CLASS	FINAL_CLASS	TYPE	RQW	CMP_MTHD	TVD	TRD
4705100846	12/12/1999	12/01/1999	1052	Ground Level			unclassified	unclassified	not available	unknown	unknown		
4705100846													

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

Plugging Information:

API	PLG_DT	DEPTH_PBT
4705100846	12/12/1999	0

There is no Sample data for this well

WVGS "Pipeline" Table Descriptions
County Code Translations
Permit/Jurisdiction Series
License Series
County Information
Disclaimer
WVGS Help
Feedback/Support

Select County: (051) Marshall | Select datatypes: (Check All)

Enter Permit #: 00843 | Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/Show/Water Logs Bottom Hole Log

Get Data | Reset

WV Geological & Economic Survey: **Well: County = 51 Permit = 00843** Report Time: Thursday, June 06, 2013 5:15

Well Reassignment Information: Reassigned From
 OLD_COUNTY OLD_PERMIT NEW_COUNTY NEW_PERMIT
 51 70887 51 843

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LONG_DD	UTME	UTMN
470510043	Marshall	51	Massa	Glen Easton	Camden	39 701419	-80 630268	527282.8	4426047.9

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_ID	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PRC
470510043	51	17066	Plugging	Completed	Neomi Guigay	M-25			Neomi Guigay	McElroy Coal Company		
470510043			Unknown	Prop. Mas.	H.A. Richmond		523		Neomi Guigay	Hope Natural Gas Company		

Completion Information:

API	CMP_ID	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTD
470510043	51	5/19/1999	93/1999	1322	Ground Level			UNCLASSIFIED	UNCLASSIFIED	not available	unknown	unknown			
470510043								UNCLASSIFIED	UNCLASSIFIED	not available	unknown	unknown			

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Stratigraphy data for this well

There is no Wireline (E-Log) data for this well

Plugging Information:

API	P.L.O. DT	DEPTH_FBT
470510043	6/19/1999	0

There is no Sample data for this well

WVGS "Pipeline" Table Descriptions
County Code Translations
Permit/Jurisdiction Series
License Series
County Information
Disclaimer
WVGS Help
Feedback/Support

Select County: (051) Marshall | Select datatypes: (Check All)

Enter Permit #: 00595 | Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/Show/Water Logs Bottom Hole Log

Get Data | Reset

WV Geological & Economic Survey: **Well: County = 51 Permit = 00595** Report Time: Thursday, June 06, 2013 5:15

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LONG_DD	UTME	UTMN
470510054	Marshall	52	Massa	Glen Easton	Camden	39 707718	-80 615622	527917.0	4424498.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_ID	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PROP_TRUST
470510054	51	1905	Original Les	Completed	Riley Miner		1	1224		Manufactured Light & Heat Co		
470510054			Unknown	Unknown	Mora M Alvar et al			591295		Columbia Gas Transmission Corp		

Completion Information:

API	CMP_ID	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTD
470510054	51	5/16/1908	425/1908		Camden-Camden	Gascon	Gascon	UNCLASSIFIED	UNCLASSIFIED	Gas	unknown	Not Over H	2540	2546	
470510054								UNCLASSIFIED	UNCLASSIFIED	not available	unknown	unknown			

There is no Pay data for this well

WVGS "Pipeline" Table Descriptions
County Code Translations
Permit/Jurisdiction Series
License Series
County Information
Disclaimer
WVGS Help
Feedback/Support

Select County: (051) Marshall | Select datatypes: (Check All)

Enter Permit #: 00863 | Location Production Plugging
 Owner/Completion Stratigraphy Sample
 Pay/Show/Water Logs Bottom Hole Log

Get Data | Reset

WV Geological & Economic Survey: **Well: County = 51 Permit = 00863** Report Time: Thursday, June 06, 2013 5:15

Well Reassignment Information: Reassigned From
 OLD_COUNTY OLD_PERMIT NEW_COUNTY NEW_PERMIT
 51 70114 51 651

Location Information: View Map

API	COUNTY	PERMIT	TAX_DISTRICT	QUAD_75	QUAD_15	LAT_DD	LONG_DD	UTME	UTMN
470510063	Marshall	50	Massa	Glen Easton	Camden	39 70227	-80 674932	527332.3	4424452.1

There is no Bottom Hole Location data for this well

Owner Information:

API	CMP_ID	SUFFIX	STATUS	SURFACE_OWNER	WELL_NUM	CO_NUM	LEASE	LEASE_NUM	MINERAL_OWN	OPERATOR_AT_COMPLETION	PROP_VD	PRC
470510063	34	2002	Plugging	Completed	Nyma R Gordon	M-22			Completion Coal Co	Completion Coal Co		
470510063			Unknown	Completed	Jimmie Minor		1	1647		Winning State Gas Co, The		

Completion Information:

API	CMP_ID	SPUD_DT	ELEV	DATUM	FIELD	DEEPEST_FM	DEEPEST_FMT	INITIAL_CLASS	FINAL_CLASS	TYPE	RIG	CMP_MTHD	TVD	TMD	NEW_FTD
470510063	34	2/02/2002	2/14/2002	845	Ground Level			UNCLASSIFIED	UNCLASSIFIED	not available	unknown	unknown			
470510063				525	Baseline			UNCLASSIFIED	UNCLASSIFIED	not available	unknown	unknown			

There is no Pay data for this well

There is no Production Gas data for this well

There is no Production Oil data for this well ** some operators may have reported NGL under Oil

There is no Production NGL data for this well ** some operators may have reported NGL under Oil

There is no Stratigraphy data for this well

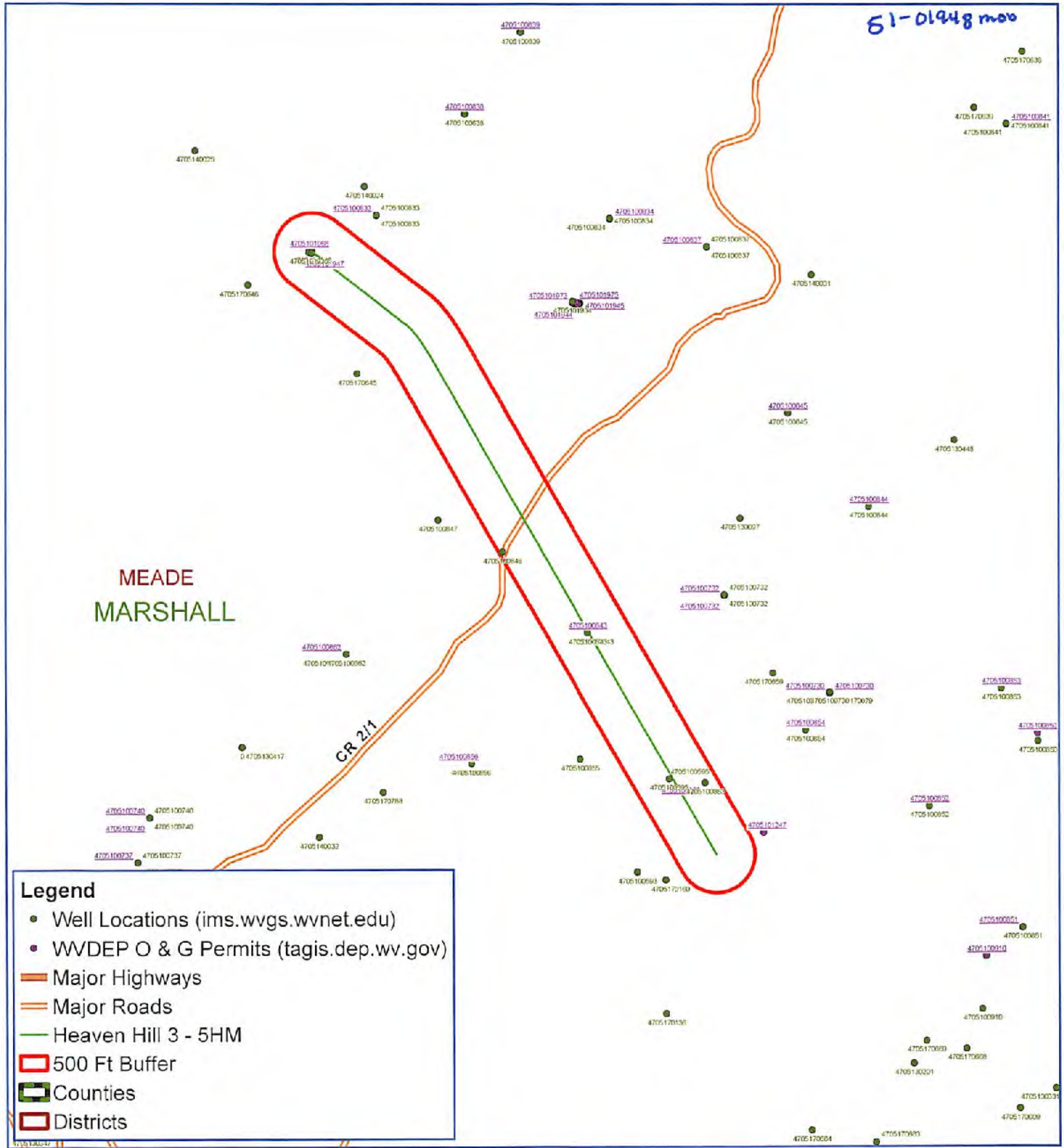
There is no Wireline (E-Log) data for this well

Plugging Information:

API	P.L.O. DT	DEPTH_FBT
470510063	3/6/2002	0

There is no Sample data for this well

51-01948 moa



MEADE
MARSHALL

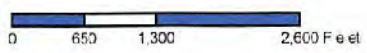
CR 211

Legend

- Well Locations (ims.wvgs.wvnet.edu)
- WVDEP O & G Permits (tagis.dep.wv.gov)
- Major Highways
- Major Roads
- Heaven Hill 3 - 5HM
- 500 Ft Buffer
- ▭ Counties
- ▭ Districts



Heaven Hill 3-5HM Meade District Marshall County, WV



Map Created: February 2, 2018
Map Current As Of: February 2, 2018

Notes:
All locations are approximate and are for visualization purposes only.



Tug Hill Operating, LLC Casing and Cement Program

Heaven Hill 3-5HM

Casing

	String	Grade	Bit Size	Depth (Measured)	Cement Fill Up
Conductor	30"	BW	36"	120'	CTS
Surface	13 3/8"	H40	17 1/2"	1,120'	CTS
Intermediate	9 5/8"	J55	12 1/4"	2,302'	CTS
Production	5 1/2"	P110	6 7/8 x 8 3/4"	14,866'	CTS

Cement

- Conductor: Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water – Conductor Cement mixed at 15.6 ppg, Y=1.2
- Surface: Premium NE-1 + 2% bwoc CaC12 + 46.5% Fresh Water – Surface Cement mixed at 15.6 ppg, Y=1.2
- Intermediate: Premium NE-1 + 1% bwoc CaC12 + 46.5% Fresh Water – Intermediate Cement mixed at 15.6 ppg, Y=1.19
- Kick Off Plug: Class H Cement + 1% CD-32 + .7% Sodium Metasilicate + .1% R-3 + .75 gal/100sk FP-13L – KOP Plug
- Production: 50:50 Poz: Premium NE-1 + .1% bwoc ASA-301 + 60lb/sk ASCA-1 + .35% bwoc BA-10A + .25% bwoc MPA-170, 44 lb sack + .5% bwoc R-3 + .75 gals/100sk FP-13L – Production Cement mixed at 15.2ppg, Y = 1.19

RECEIVED
Office of Oil and Gas
FEB 6 2018
WV Department of
Environmental Protection

**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 sheets

**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

RECEIVED
Office of Oil and Gas
FEB 6 2018

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 *Amy Miller*
 Its: Permit Specialist - Appalachia Region

WW-6A1 Supplement

15-0194860

RECEIVED
Office of Oil and Gas

FEB 6 2018

WV Department of
Environmental Protection

Operator's Well No. Heaven Hill 3 - 5HM

03/02/2018

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment
10*15557	A	9-7-30	RICKY L WHITTATOH ET AL	CHEVRON USA INC	1/8+	780 226	N/A	N/A	Chevron to Tug Hill: 36/148
10*15557	B	9-7-21	RICKY L WHITTATOH ET AL	CHEVRON USA INC	1/8+	780 226	N/A	N/A	Chevron to Tug Hill: 36/148
10*15486	C	9-7-22	RICHARD NEAL NORRIS AND CAROL NORRIS	TH EXPLORATION LLC	1/8+	905 430	N/A	N/A	N/A
10*15487	C	9-7-22	WILLIAM C RUTAN	TH EXPLORATION LLC	1/8+	905 475	N/A	N/A	N/A
10*15489	C	9-7-22	DONALD T SNODGRASS AND LILA F SNODGRASS	TH EXPLORATION LLC	1/8+	915 189	N/A	N/A	N/A
10*15492	C	9-7-22	HEATHER WHORTON STILLION AND CHRISTOPHER STILLION	TH EXPLORATION LLC	1/8+	905 473	N/A	N/A	N/A
10*15609	C	9-7-22	MICHELLE R WILHELM	CHEVRON USA INC	1/8+	834 456	N/A	N/A	Chevron to Tug Hill: 36/148
10*15610	C	9-7-22	SARAH STEVENS	CHEVRON U.S.A. INC.	1/8+	834 432	N/A	N/A	Chevron to Tug Hill: 36/148
10*15611	C	9-7-22	ROBERT S ZEHNDER	CHEVRON U.S.A. INC.	1/8+	834 437	N/A	N/A	Chevron to Tug Hill: 36/148
10*15612	C	9-7-22	VERA SHIRLENE & ARTHUR WORKMAN	CHEVRON U.S.A. INC.	1/8+	837 361	N/A	N/A	Chevron to Tug Hill: 36/148
10*15613	C	9-7-22	THOMAS L STEVENS	CHEVRON U.S.A. INC.	1/8+	836 290	N/A	N/A	Chevron to Tug Hill: 36/148
10*15614	C	9-7-22	DAVID F RINE	CHEVRON U.S.A. INC.	1/8+	837 130	N/A	N/A	Chevron to Tug Hill: 36/148
10*15615	C	9-7-22	PAUL WAYNE RINE	CHEVRON USA INC	1/8+	837 133	N/A	N/A	Chevron to Tug Hill: 36/148
10*15616	C	9-7-22	PHILLIP C RINE	CHEVRON U.S.A. INC.	1/8+	836 332	N/A	N/A	Chevron to Tug Hill: 36/148
10*15617	C	9-7-22	GLADYS M RINE	CHEVRON U.S.A. INC.	1/8+	836 329	N/A	N/A	Chevron to Tug Hill: 36/148
10*15618	C	9-7-22	CHARLES A RINE	CHEVRON U.S.A. INC.	1/8+	835 22	N/A	N/A	Chevron to Tug Hill: 36/148
10*15619	C	9-7-22	SHARON M REYNOLDS	CHEVRON U.S.A. INC.	1/8+	840 322	N/A	N/A	Chevron to Tug Hill: 36/148
10*15620	C	9-7-22	GLADYS RUCKMAN	CHEVRON U.S.A. INC.	1/8+	840 319	N/A	N/A	Chevron to Tug Hill: 36/148
10*15621	C	9-7-22	KATHERINE A STALMAKER	CHEVRON U.S.A. INC.	1/8+	840 325	N/A	N/A	Chevron to Tug Hill: 36/148
10*15622	C	9-7-22	JAY LEROY RINE	CHEVRON U.S.A. INC.	1/8+	840 351	N/A	N/A	Chevron to Tug Hill: 36/148
10*15623	C	9-7-22	SUSAN JANE WHEELER	CHEVRON U.S.A. INC.	1/8+	847 473	N/A	N/A	Chevron to Tug Hill: 36/148
10*15624	C	9-7-22	RONALD A ZEHNDER	CHEVRON U.S.A. INC.	1/8+	847 213	N/A	N/A	Chevron to Tug Hill: 36/148
10*15625	C	9-7-22	LAWRENCE W STRILING	CHEVRON U.S.A. INC.	1/8+	852 384	N/A	N/A	Chevron to Tug Hill: 36/148
10*15626	C	9-7-22	ROBERT J SEAVER	CHEVRON U.S.A. INC.	1/8+	854 77	N/A	N/A	Chevron to Tug Hill: 36/148
10*15627	C	9-7-22	PAULA R SEAVER	CHEVRON U.S.A. INC.	1/8+	853 483	N/A	N/A	Chevron to Tug Hill: 36/148
10*15628	C	9-7-22	JENNIFER SEAVER	CHEVRON U.S.A. INC.	1/8+	853 272	N/A	N/A	Chevron to Tug Hill: 36/148
10*15629	C	9-7-22	DANIEL L RINE	CHEVRON U.S.A. INC.	1/8+	860 86	N/A	N/A	Chevron to Tug Hill: 36/148
10*15630	C	9-7-22	JANE L HELPER	CHEVRON U.S.A. INC.	1/8+	836 342	N/A	N/A	Chevron to Tug Hill: 36/148
10*15631	C	9-7-22	DAVID HEINZERTH	CHEVRON U.S.A. INC.	1/8+	836 219	N/A	N/A	Chevron to Tug Hill: 36/148
10*15632	C	9-7-22	MARIAN D JONES	CHEVRON U.S.A. INC.	1/8+	835 38	N/A	N/A	Chevron to Tug Hill: 36/148
10*15633	C	9-7-22	ROGER W GATTS	CHEVRON U.S.A. INC.	1/8+	835 35	N/A	N/A	Chevron to Tug Hill: 36/148
10*15634	C	9-7-22	JAMES W DAYTON	CHEVRON U.S.A. INC.	1/8+	847 567	N/A	N/A	Chevron to Tug Hill: 36/148
10*15635	C	9-7-22	ELLEN L BETTNAZZI	CHEVRON U.S.A. INC.	1/8+	847 496	N/A	N/A	Chevron to Tug Hill: 36/148
10*15636	C	9-7-22	JOSEPH ASTON JR BY HIS ATTORNEY-IN-FACT MELVIN J. ASTON	CHEVRON U.S.A. INC.	1/8+	848 280	N/A	N/A	Chevron to Tug Hill: 36/148
10*15637	C	9-7-22	DONALD ASTON	CHEVRON U.S.A. INC.	1/8+	848 274	N/A	N/A	Chevron to Tug Hill: 36/148
10*15638	C	9-7-22	PAUL J ASTON A/K/A JACK ASTON	CHEVRON U.S.A. INC.	1/8+	848 277	N/A	N/A	Chevron to Tug Hill: 36/148
10*15639	C	9-7-22	DELLA M BURKEY A/K/A MAXINE ASTON	CHEVRON U.S.A. INC.	1/8+	848 435	N/A	N/A	Chevron to Tug Hill: 36/148
10*15640	C	9-7-22	EMMA JANE DAVIS A/K/A EMA ASTON	CHEVRON U.S.A. INC.	1/8+	848 271	N/A	N/A	Chevron to Tug Hill: 36/148
10*15641	C	9-7-22	HENRY W ASTON	CHEVRON U.S.A. INC.	1/8+	847 138	N/A	N/A	Chevron to Tug Hill: 36/148
10*15642	C	9-7-22	KENNETH L DAYTON	CHEVRON U.S.A. INC.	1/8+	852 366	N/A	N/A	Chevron to Tug Hill: 36/148
10*15643	C	9-7-22	NORMAN G JOHNSON	CHEVRON U.S.A. INC.	1/8+	848 363	N/A	N/A	Chevron to Tug Hill: 36/148
10*15644	C	9-7-22	RONALD BEN LAUGHTON	CHEVRON U.S.A. INC.	1/8+	852 360	N/A	N/A	Chevron to Tug Hill: 36/148
10*15645	C	9-7-22	KAREN K OLDFIELD	CHEVRON U.S.A. INC.	1/8+	854 111	N/A	N/A	Chevron to Tug Hill: 36/148
10*15646	C	9-7-22	JUDITH A CIRONE	CHEVRON USA INC	1/8+	848 428	N/A	N/A	Chevron to Tug Hill: 36/148
10*15647	C	9-7-22	KENNETH WENDELL OLDFIELD	CHEVRON U.S.A. INC.	1/8+	861 589	N/A	N/A	Chevron to Tug Hill: 36/148
10*15648	C	9-7-22	MARTHA CRAWFORD	CHEVRON U.S.A. INC.	1/8+	863 542	N/A	N/A	Chevron to Tug Hill: 36/148
10*15649	C	9-7-22	MARY JANE DANIEL	CHEVRON U.S.A. INC.	1/8+	858 28	N/A	N/A	Chevron to Tug Hill: 36/148
10*15650	C	9-7-22	MARY GLADYS KUHN BY ATTORNEY IN FACT CONNIE LYONS	CHEVRON USA INC	1/8+	860 89	N/A	N/A	Chevron to Tug Hill: 36/148

RECEIVED
Office of Oil and Gas

FEB 6 2018

WV Department of
Environmental Protection

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.
10*15651	C	9-7-22	THOMAS G ASTON
10*15652	C	9-7-22	ISAAC R ASTON A/K/A IKE ASTON
10*15653	C	9-7-22	EMILY M HENCEROTH
10*15654	C	9-7-22	GEORGE E HENNIGER
10*15655	C	9-7-22	ANNA EMERSON A/K/A ANNIE ASTON
10*15656	C	9-7-22	PATTY L MYERS
10*15657	C	9-7-22	MARY MARGARET ASTON
10*15658	C	9-7-22	GLEN MATTHEW LAUGHTON
10*15659	C	9-7-22	WILLIAM E DAYTON BY HIS AIF
10*15660	C	9-7-22	DOUGLAS PAUL HENCEROTH BY HIS AIF
10*15662	C	9-7-22	LARRY LEE CONKLE
10*15663	C	9-7-22	ROY A CONKLE SR
10*15664	C	9-7-22	THERESA ANNE HUGHES
10*15666	C	9-7-22	BRENDA J WHETZEL
10*15673	C	9-7-22	DIANE B ASTON
10*15679	C	9-7-22	CARA BONAR FREESE AND GEORGE H FREESE
10*15680	C	9-7-22	ROBERTA JANE CLAYTON
10*15688	C	9-7-22	JOSH GARY AND CHRISTINA M GARY
10*15689	C	9-7-22	JOHN LEROY BAKER AND CYNTHIA A BAKER
10*15690	C	9-7-22	ROBERT WHORTON AND LINDSAY WHORTON
10*15728	C	9-7-22	MARY LOU KITTELBERGER AND FREDERICK W KITTELBERGER
10*15729	C	9-7-22	DONNA KAY ALLEN AND ROGER ALLEN
10*15747	C	9-7-22	WILLIAM H BAKER
10*15748	C	9-7-22	CAROLYN LEE FUREY AND MARTIN J FUREY
10*15749	C	9-7-22	DIANA SMITH KNIGHT
10*16019	C	9-7-22	ROGER E GALLAGHER AND CONIE M GALLAGHER
10*16029	C	9-7-22	MARTHA ASHWORTH KNIGHT
10*16049	C	9-7-22	DANNY SHAWN KERNS AND AMY LYNN KERNS
10*16114	C	9-7-22	WILLIAM L GALLAGHER
10*16123	C	9-7-22	ROBERT SANDFORD BLACK AND JOAN BLACK
10*16177	C	9-7-22	PHYLLIS R GATTO
10*16179	C	9-7-22	JOSEPHINE BROWN
10*16287	C	9-7-22	DANA BERRY COPELAND
10*16295	C	9-7-22	CHARLINE M ENGLE AND KEVIN E ENGLE
10*16384	C	9-7-22	DONALD H SNYDER JR AND KAREN S SNYDER
10*16389	C	9-7-22	DANIELLE BONAR OSTER AND LOUIS MICHAEL OSTER
10*16423	C	9-7-22	CHARLES BERRY
10*16426	C	9-7-22	GAIL L. VAUGHN & LARRY L. VAUGHN
10*16440	C	9-7-22	RENE J RUTAN
10*16501	C	9-7-22	MELANIE C WILKINS AND ROBERT WILKINS
10*16513	C	9-7-22	LLOYD DOYLE MOORE AND GWENDOLYN K MOORE
10*16546	C	9-7-22	LOWELL D AND JANICE L KNIGHT
10*16553	C	9-7-22	WALTER C AND CHERYL A RINE
10*16558	C	9-7-22	MARK EDWARD AND KARRIE A GOODMAN
10*16571	C	9-7-22	PAUL BONAR KNIGHT AND SUZANNE L HOPKINS-KNIGHT
10*16585	C	9-7-22	GRACE LAURA BONAR
10*16588	C	9-7-22	DALE BRIAN GOODMAN
			EDWIN M KNABENSHUE ADMINISTRATOR OF THE ESTATE OF SARAH J KNABENSHUE, DECEASED

Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment
CHEVRON U.S.A. INC.	1/8+	860 83	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON U.S.A. INC.	1/8+	886 136	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON U.S.A. INC.	1/8+	862 574	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON U.S.A. INC.	1/8+	863 612	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON U.S.A. INC.	1/8+	864 603	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON U.S.A. INC.	1/8+	867 100	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON U.S.A. INC.	1/8+	868 283	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON U.S.A. INC.	1/8+	873 324	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON U.S.A. INC.	1/8+	871 190	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON U.S.A. INC.	1/8+	871 193	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON U.S.A. INC.	1/8+	863 354	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON USA INC	1/8+	863 311	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON USA INC	1/8+	863 343	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON USA INC	1/8+	863 635	N/A	N/A	Chevron to Tug Hill: 36/148
CHEVRON U.S.A. INC.	1/8+	864 595	N/A	N/A	Chevron to Tug Hill: 36/148
TH EXPLORATION LLC	1/8+	905 481	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 485	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 487	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 491	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 489	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 483	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 493	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 499	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 495	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 497	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 503	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 505	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 512	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 510	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 520	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 530	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 532	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 534	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	903 183	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 501	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 508	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 501	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 508	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 536	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	905 538	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	927 462	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907 392	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	927 458	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	927 456	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	909 81	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	927 460	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907 411	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	909 506	N/A	N/A	N/A
TH EXPLORATION LLC	1/8+	907 408	N/A	N/A	N/A

03/02/2018

WW-6A1 Supplement

Operator's Well No. Heaven Hill 3 - SHM1

RECEIVED
Office of Oil and Gas
FEB 6 2018
WV Department of
Environmental Protection

03/02/2018

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment
10*16589	C	9-7-22	MARY L WHITTINGTON	TH EXPLORATION LLC	1/8+	907 400	N/A	N/A	N/A
10*16719	C	9-7-22	HOWARD T CONNER AND NANETTE CONNER	TH EXPLORATION LLC	1/8+	912 37	N/A	N/A	N/A
10*16844	C	9-7-22	HOLLY A LONGFELLOW	TH EXPLORATION LLC	1/8+	927 454	N/A	N/A	N/A
10*16845	C	9-7-22	TRACY L AND KEITH W BARNBY	TH EXPLORATION LLC	1/8+	927 452	N/A	N/A	N/A
10*16896	C	9-7-22	MARTHA J BLACK	TH EXPLORATION LLC	1/8+	927 450	N/A	N/A	N/A
10*17296	C	9-7-22	DANIEL W HEINZEROTH AND KATHLEEN E HEINZEROTH	TH EXPLORATION LLC	1/8+	914 528	N/A	N/A	N/A
10*17365	C	9-7-22	MYSTI JOANNE GOODMAN	TH EXPLORATION LLC	1/8+	927 468	N/A	N/A	N/A
10*17370	C	9-7-22	KELLY JUNE GOODMAN	TH EXPLORATION LLC	1/8+	927 470	N/A	N/A	N/A
10*17497	C	9-7-22	SUZANNA DOOLING AND MICHAEL DOOLING	TH EXPLORATION LLC	1/8+	927 464	N/A	N/A	N/A
10*17584	C	9-7-22	WILLIAM THOMAS BONAR AND MONICA BONAR	TH EXPLORATION LLC	1/8+	927 466	N/A	N/A	N/A
10*47051.295.10	C	9-7-22	DEENA J PALOMO	TH EXPLORATION LLC	1/8+	905 470	N/A	N/A	N/A
10*47051.295.11	C	9-7-22	REGINA D FIGUEROA AND DAVID FIGUEROA	TH EXPLORATION LLC	1/8+	905 435	N/A	N/A	N/A
10*47051.295.12	C	9-7-22	EARL D WEILMAN	TH EXPLORATION LLC	1/8+	905 432	N/A	N/A	N/A
10*47051.295.13	C	9-7-22	THE DOLLVE F WOOD REVOCABLE TRUST BY NICHOLAS CHARLES WOOD AS TRUSTEE	TH EXPLORATION LLC	1/8+	904 641	N/A	N/A	N/A
10*47051.295.3	C	9-7-22	HAZEL ARIZONA MOORE REYNOLDS	TH EXPLORATION LLC	1/8+	904 632	N/A	N/A	N/A
10*47051.295.4	C	9-7-22	LLOYD D MOORE	TH EXPLORATION LLC	1/8+	904 459	N/A	N/A	N/A
10*47051.295.5	C	9-7-22	DALE R MOORE	TH EXPLORATION LLC	1/8+	904 635	N/A	N/A	N/A
10*47051.295.6	C	9-7-22	MARY I BURKHART	TH EXPLORATION LLC	1/8+	904 638	N/A	N/A	N/A
10*47051.295.7	C	9-7-22	JEANNE V MELCHIORI	TH EXPLORATION LLC	1/8+	904 462	N/A	N/A	N/A
10*47051.295.9	C	9-7-22	JAMES E HIMELRICK JR AND KAREN HIMELRICK	TH EXPLORATION LLC	1/8+	904 465	N/A	N/A	N/A
10*47051.256.22	D	9-7-23	BEVERLY J HOPSON	TH EXPLORATION LLC	1/8+	913 581	N/A	N/A	N/A
10*16121	D	9-7-23	ISALAH BENNETT BY K SHERINGTON	TH EXPLORATION LLC	1/8+	933 105	N/A	N/A	N/A
10*47051.256.1	D	9-7-23	BRENDA J WHEITZEL	TH EXPLORATION LLC	1/8+	881 145	N/A	N/A	N/A
10*15746	D	9-7-23	BRUCE D SCHURR	TH EXPLORATION LLC	1/8+	921 478	N/A	N/A	N/A
10*16247	D	9-7-23	CAROL RIGGLE PARSLEY AND JAMES DENNIS PARSLEY	TH EXPLORATION LLC	1/8+	925 327	N/A	N/A	N/A
10*47051.256.24	D	9-7-23	CATHERINE BONAR PETTIT BILLIE	TH EXPLORATION LLC	1/8+	904 628	N/A	N/A	N/A
10*47051.256.16	D	9-7-23	CHARLOTTE B HUMMEL	TH EXPLORATION LLC	1/8+	905 45	N/A	N/A	N/A
10*47051.256.15	D	9-7-23	CHARLOTTE J BONAR YOHO	TH EXPLORATION LLC	1/8+	904 455	N/A	N/A	N/A
10*17506	D	9-7-23	CHASKIA F HARRIS AND JAMES M HARRIS	TH EXPLORATION LLC	1/8+	919 239	N/A	N/A	N/A
10*17507	D	9-7-23	DEZRAY METCALF	TH EXPLORATION LLC	1/8+	919 235	N/A	N/A	N/A
10*17508	D	9-7-23	DILLION PITSENBARGER	TH EXPLORATION LLC	1/8+	919 241	N/A	N/A	N/A
10*17415	D	9-7-23	DILLON PITSENBARGER	TH EXPLORATION LLC	1/8+	919 241	N/A	N/A	N/A
10*16115	D	9-7-23	EARL W HARRIS	TH EXPLORATION LLC	1/8+	925 329	N/A	N/A	N/A
10*47051.256.10	D	9-7-23	GRACE LAURA BONAR	TH EXPLORATION LLC	1/8+	905 35	N/A	N/A	N/A
10*47051.256.14	D	9-7-23	HUGH R BUZZARD	TH EXPLORATION LLC	1/8+	905 43	N/A	N/A	N/A
10*47051.256.14	D	9-7-23	JACK L MASON AND JEAN M MASON	TH EXPLORATION LLC	1/8+	904 626	N/A	N/A	N/A
10*47051.256.21	D	9-7-23	JEFFREY THOMAS PYLES AND TERESA A PYLES	TH EXPLORATION LLC	1/8+	907 209	N/A	N/A	N/A
10*47051.256.20	D	9-7-23	JOHN L MASON	TH EXPLORATION LLC	1/8+	905 37	N/A	N/A	N/A
10*47051.256.11	D	9-7-23	JOHN WILLIAM BONAR AND SHIRLEY BONAR	TH EXPLORATION LLC	1/8+	913 522	N/A	N/A	N/A
10*47051.256.18	D	9-7-23	MARILYN SUE BUMER	TH EXPLORATION LLC	1/8+	905 29	N/A	N/A	N/A
10*47051.256.7	D	9-7-23	MAXINE G JOHNSON	TH EXPLORATION LLC	1/8+	904 457	N/A	N/A	N/A
10*47051.256.17	D	9-7-23	MICHAEL DAVID PYLES AND CYNTHIA A PYLES	TH EXPLORATION LLC	1/8+	907 207	N/A	N/A	N/A
10*47051.256.19	D	9-7-23	PAMELA ANN MASON	TH EXPLORATION LLC	1/8+	905 31	N/A	N/A	N/A
10*47051.256.8	D	9-7-23	ROBERT L BONAR	TH EXPLORATION LLC	1/8+	913 556	N/A	N/A	N/A
10*47051.256.23	D	9-7-23	STEVEN A BOHRER	TH EXPLORATION LLC	1/8+	905 39	N/A	N/A	N/A
10*47051.256.12	D	9-7-23	TOMMY BONAR AND TANYA S BONAR	TH EXPLORATION LLC	1/8+	925 325	N/A	N/A	N/A
10*16021	D	9-7-23	WANDA MASON SUNSHINE	TH EXPLORATION LLC	1/8+	905 33	N/A	N/A	N/A
10*47051.256.9	D	9-7-23	WILLIAM W CRAIG AND GLENDA L CRAIG	TH EXPLORATION LLC	1/8+	905 41	N/A	N/A	N/A

WW-6A1 Supplement

Operator's Well No. Heaven Hill 3 - SHM

03/02/2019

Feb 6 2018

WV Department of Environmental Protection

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment
10*15662	E	9-7-24	LARRY LEE CONKLE	CHEVRON U.S.A., INC.	1/8+	863 354	N/A	N/A	Chevron to Tug Hill: 36/148
10*15663	E	9-7-24	ROY A CONKLE SR	CHEVRON USA INC	1/8+	863 311	N/A	N/A	Chevron to Tug Hill: 36/148
10*15664	E	9-7-24	THERESA ANNE HUGHES	CHEVRON USA INC	1/8+	863 343	N/A	N/A	Chevron to Tug Hill: 36/148
10*15666	E	9-7-24	BRENDA J WHETZEL	CHEVRON USA INC	1/8+	863 635	N/A	N/A	Chevron to Tug Hill: 36/148
10*16049	E	9-7-24	DANNY SHAWN KERNS AND AMY LYNN KERNS	TH EXPLORATION LLC	1/8+	905 518	N/A	N/A	N/A
10*16501	E	9-7-24	LLOYD DOYLE MOORE AND GWENDOLYN K MOORE	TH EXPLORATION LLC	1/8+	907 392	N/A	N/A	N/A
10*16553	E	9-7-24	MARK EDWARD AND KARRIE A GOODMAN	TH EXPLORATION LLC	1/8+	909 81	N/A	N/A	N/A
10*16585	E	9-7-24	DALE BRIAN GOODMAN	TH EXPLORATION LLC	1/8+	909 506	N/A	N/A	N/A
10*17365	E	9-7-24	MYSTI JOANNE GOODMAN	TH EXPLORATION LLC	1/8+	927 468	N/A	N/A	N/A
10*17370	E	9-7-24	KELLY JUNE GOODMAN	TH EXPLORATION LLC	1/8+	927 470	N/A	N/A	N/A
10*47051.295.10	E	9-7-24	DEENA J PALOMO	TH EXPLORATION LLC	1/8+	905 470	N/A	N/A	N/A
10*47051.295.11	E	9-7-24	REGINA D FIGUEROA AND DAVID FIGUEROA	TH EXPLORATION LLC	1/8+	905 435	N/A	N/A	N/A
10*47051.295.12	E	9-7-24	EARL D WELLMAN	TH EXPLORATION LLC	1/8+	905 432	N/A	N/A	N/A
10*47051.295.13	E	9-7-24	THE DOLLVE F WOOD REVOCABLE TRUST BY NICHOLAS CHARLES WOOD AS TRUSTEE	TH EXPLORATION LLC	1/8+	904 641	N/A	N/A	N/A
10*47051.295.13	E	9-7-24	HAZEL ARIZONA MOORE RENOLDS	TH EXPLORATION LLC	1/8+	904 632	N/A	N/A	N/A
10*47051.295.3	E	9-7-24	LLOYD D MOORE	TH EXPLORATION LLC	1/8+	904 459	N/A	N/A	N/A
10*47051.295.4	E	9-7-24	DALE R MOORE	TH EXPLORATION LLC	1/8+	904 635	N/A	N/A	N/A
10*47051.295.5	E	9-7-24	MARY J BURKHART	TH EXPLORATION LLC	1/8+	904 638	N/A	N/A	N/A
10*47051.295.6	E	9-7-24	JEANNE V MELCHIORI	TH EXPLORATION LLC	1/8+	904 462	N/A	N/A	N/A
10*47051.295.7	E	9-7-24	JAMES E HIMELRICK JR AND KAREN HIMELRICK	TH EXPLORATION LLC	1/8+	904 465	N/A	N/A	N/A
10*47051.295.9	E	9-7-24	BEVERLY J HOPSON	TH EXPLORATION LLC	1/8+	913 581	N/A	N/A	N/A
10*47051.256.22	F	9-11-7	BRENDA J WHETZEL	TH EXPLORATION LLC	1/8+	881 145	N/A	N/A	N/A
10*47051.256.1	F	9-11-7	BRUCE D SCHURR	TH EXPLORATION LLC	1/8+	921 478	N/A	N/A	N/A
10*15746	F	9-11-7	CAROL RIGGLE PARSLEY AND JAMES DENNIS PARSLEY	TH EXPLORATION LLC	1/8+	925 327	N/A	N/A	N/A
10*16247	F	9-11-7	CATHERINE BONAR PETTIT BILLIE	TH EXPLORATION LLC	1/8+	904 628	N/A	N/A	N/A
10*47051.256.24	F	9-11-7	CHARLOTTE B HUMMEL	TH EXPLORATION LLC	1/8+	905 45	N/A	N/A	N/A
10*47051.256.16	F	9-11-7	CHARLOTTE J BONAR YOHO	TH EXPLORATION LLC	1/8+	904 455	N/A	N/A	N/A
10*47051.256.15	F	9-11-7	CHASKIA F HARRIS AND JAMES M HARRIS	TH EXPLORATION LLC	1/8+	919 239	N/A	N/A	N/A
10*17506	F	9-11-7	DEZRAY METCALF	TH EXPLORATION LLC	1/8+	919 235	N/A	N/A	N/A
10*17507	F	9-11-7	DILLON PITSENBARGER	TH EXPLORATION LLC	1/8+	919 241	N/A	N/A	N/A
10*17415	F	9-11-7	EARL W HARRIS	TH EXPLORATION LLC	1/8+	925 329	N/A	N/A	N/A
10*16115	F	9-11-7	GRACE LAURA BONAR	TH EXPLORATION LLC	1/8+	905 35	N/A	N/A	N/A
10*47051.256.10	F	9-11-7	HUGH R BUZZARD	TH EXPLORATION LLC	1/8+	905 43	N/A	N/A	N/A
10*47051.256.14	F	9-11-7	JACK L MASON AND JEAN M MASON	TH EXPLORATION LLC	1/8+	904 626	N/A	N/A	N/A
10*47051.256.21	F	9-11-7	JEFFREY THOMAS PYLES AND TERESA A PYLES	TH EXPLORATION LLC	1/8+	907 209	N/A	N/A	N/A
10*47051.256.20	F	9-11-7	JOHN L MASON	TH EXPLORATION LLC	1/8+	905 37	N/A	N/A	N/A
10*47051.256.11	F	9-11-7	JOHN WILLIAM BONAR AND SHIRLEY BONAR	TH EXPLORATION LLC	1/8+	913 522	N/A	N/A	N/A
10*47051.256.18	F	9-11-7	MARILYN SUE BUMER	TH EXPLORATION LLC	1/8+	905 29	N/A	N/A	N/A
10*47051.256.7	F	9-11-7	MAXINE G JOHNSON	TH EXPLORATION LLC	1/8+	904 457	N/A	N/A	N/A
10*47051.256.17	F	9-11-7	MICHAEL DAVID PYLES AND CYNTHIA A PYLES	TH EXPLORATION LLC	1/8+	907 207	N/A	N/A	N/A
10*47051.256.19	F	9-11-7	PAMELA ANN MASON	TH EXPLORATION LLC	1/8+	905 31	N/A	N/A	N/A
10*47051.256.8	F	9-11-7	ROBERT L BONAR	TH EXPLORATION LLC	1/8+	913 556	N/A	N/A	N/A
10*47051.256.23	F	9-11-7	STEVEN A BOHRER	TH EXPLORATION LLC	1/8+	905 39	N/A	N/A	N/A
10*47051.256.12	F	9-11-7	TOMMY BONAR AND TANUYA S BONAR	TH EXPLORATION LLC	1/8+	925 325	N/A	N/A	N/A
10*16021	F	9-11-7	WANDA MASON SUNSHINE	TH EXPLORATION LLC	1/8+	905 33	N/A	N/A	N/A
10*47051.256.9	F	9-11-7	WILLIAM W CRAIG AND GLENDA L CRAIG	TH EXPLORATION LLC	1/8+	905 41	N/A	N/A	N/A
10*47051.256.13	G	9-11-7.1	BEVERLY J HOPSON	TH EXPLORATION LLC	1/8+	913 581	N/A	N/A	N/A
10*47051.256.22	G	9-11-7.1	BRENDA J WHETZEL	TH EXPLORATION LLC	1/8+	881 145	N/A	N/A	N/A

BWV-6A1 Supplement

Operator's Well No. Heaven Hill 3 - SHM

88505-5
 10*15746
 10*16247
 10*47051.256.24
 10*47051.256.16
 10*47051.256.15
 10*17506
 10*17507
 10*17415
 10*16115
 10*47051.256.10
 10*47051.256.14
 10*47051.256.21
 10*47051.256.20
 10*47051.256.11
 10*47051.256.18
 10*47051.256.7
 10*47051.256.12
 10*47051.256.23
 10*47051.256.13
 10*16021
 10*47051.256.9
 10*15463
 10*15481
 10*15482
 10*15686
 10*15750
 10*16058
 10*16118
 10*16297
 10*16298
 10*16383
 10*16414
 10*16415
 10*16416
 10*16424
 10*16448
 10*16478
 10*16514
 10*16515
 10*16516
 10*16545
 10*16662
 10*16666
 10*16667
 10*16668

RECEIVED
 Office of Oil and Gas
FEB 6 2018
 WV Department of
 Environmental Protection

03/02/2018

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment
10*15746	G	9-11-7.1	BRUCE D SCHURR	TH EXPLORATION LLC	1/8+	921 478	N/A	N/A	N/A
10*16247	G	9-11-7.1	CAROL RIGGLE PARSLEY AND JAMES DENNIS PARSLEY	TH EXPLORATION LLC	1/8+	925 327	N/A	N/A	N/A
10*47051.256.24	G	9-11-7.1	CATHERINE BONAR PETTIT BILLIE	TH EXPLORATION LLC	1/8+	904 628	N/A	N/A	N/A
10*47051.256.16	G	9-11-7.1	CHARLOTTE B HUMMELL	TH EXPLORATION LLC	1/8+	905 45	N/A	N/A	N/A
10*47051.256.15	G	9-11-7.1	CHARLOTTE J BONAR VOHO	TH EXPLORATION LLC	1/8+	904 455	N/A	N/A	N/A
10*17506	G	9-11-7.1	CHASKIA F HARRIS AND JAMES M HARRIS	TH EXPLORATION LLC	1/8+	919 239	N/A	N/A	N/A
10*17507	G	9-11-7.1	DEZRAY METCALF	TH EXPLORATION LLC	1/8+	919 235	N/A	N/A	N/A
10*17415	G	9-11-7.1	DILLON PITSENBARGER	TH EXPLORATION LLC	1/8+	919 241	N/A	N/A	N/A
10*16115	G	9-11-7.1	EARL W HARRIS	TH EXPLORATION LLC	1/8+	925 329	N/A	N/A	N/A
10*47051.256.10	G	9-11-7.1	GRACE LAURA BONAR	TH EXPLORATION LLC	1/8+	905 35	N/A	N/A	N/A
10*47051.256.14	G	9-11-7.1	HUGH R BUZZARD	TH EXPLORATION LLC	1/8+	905 43	N/A	N/A	N/A
10*47051.256.21	G	9-11-7.1	JACK L MASON AND JEAN M MASON	TH EXPLORATION LLC	1/8+	904 626	N/A	N/A	N/A
10*47051.256.20	G	9-11-7.1	JEFFREY THOMAS PYLES AND TERESA A PYLES	TH EXPLORATION LLC	1/8+	907 209	N/A	N/A	N/A
10*47051.256.11	G	9-11-7.1	JOHN L MASON	TH EXPLORATION LLC	1/8+	905 37	N/A	N/A	N/A
10*47051.256.18	G	9-11-7.1	JOHN WILLIAM BONAR AND SHIRLEY BONAR	TH EXPLORATION LLC	1/8+	913 522	N/A	N/A	N/A
10*47051.256.7	G	9-11-7.1	MARILYN SUE BUMER	TH EXPLORATION LLC	1/8+	905 29	N/A	N/A	N/A
10*47051.256.17	G	9-11-7.1	MAXINE G JOHNSON	TH EXPLORATION LLC	1/8+	904 457	N/A	N/A	N/A
10*47051.256.19	G	9-11-7.1	MICHAEL DAVID PYLES AND CYNTHIA A PYLES	TH EXPLORATION LLC	1/8+	907 207	N/A	N/A	N/A
10*47051.256.8	G	9-11-7.1	PAMELA ANN MASON	TH EXPLORATION LLC	1/8+	905 31	N/A	N/A	N/A
10*47051.256.23	G	9-11-7.1	ROBERT L BONAR	TH EXPLORATION LLC	1/8+	913 556	N/A	N/A	N/A
10*47051.256.12	G	9-11-7.1	STEVEN A BOHRER	TH EXPLORATION LLC	1/8+	905 39	N/A	N/A	N/A
10*16021	G	9-11-7.1	TOMMY BONAR AND TANYA S BONAR	TH EXPLORATION LLC	1/8+	925 325	N/A	N/A	N/A
10*47051.256.9	G	9-11-7.1	WANDA MASON SUNSHINE	TH EXPLORATION LLC	1/8+	905 33	N/A	N/A	N/A
10*47051.256.13	G	9-11-7.1	WILLIAM W CRAIG AND GLENDA L CRAIG	TH EXPLORATION LLC	1/8+	905 41	N/A	N/A	N/A
10*15463	H	9-11-8	CHARLES A RINE	TH EXPLORATION LLC	1/8+	908 274	N/A	N/A	N/A
10*15481	H	9-11-8	DEAN P RIGBY AND SUSAN RIGBY	TH EXPLORATION LLC	1/8+	908 197	N/A	N/A	N/A
10*15482	H	9-11-8	SUSAN NELSON	TH EXPLORATION LLC	1/8+	908 203	N/A	N/A	N/A
10*15686	H	9-11-8	JOHN OMER BOLTZ	TH EXPLORATION LLC	1/8+	908 160	N/A	N/A	N/A
10*15750	H	9-11-8	SANDRA K TRULL	TH EXPLORATION LLC	1/8+	908 229	N/A	N/A	N/A
10*16058	H	9-11-8	MATTIE RUTH JACKSON PRESCOTT	TH EXPLORATION LLC	1/8+	908 231	N/A	N/A	N/A
10*16118	H	9-11-8	RUBY RIDDLER JACKSON	TH EXPLORATION LLC	1/8+	908 233	N/A	N/A	N/A
10*16297	H	9-11-8	ROBERT A LEADBETTER AND M REBECCA LEADBETTER	TH EXPLORATION LLC	1/8+	908 235	N/A	N/A	N/A
10*16298	H	9-11-8	GEOFFREY A SHIEFER AND STEPHANIE L SCHIEFER	TH EXPLORATION LLC	1/8+	908 238	N/A	N/A	N/A
10*16383	H	9-11-8	ROBERT STEPHEN DRIGGERS	TH EXPLORATION LLC	1/8+	908 224	N/A	N/A	N/A
10*16414	H	9-11-8	MARY ELIZABETH DRIGGERS	TH EXPLORATION, LLC	1/8+	908 208	N/A	N/A	N/A
10*16415	H	9-11-8	TERENCE J & NANCY J ANDERSON	TH EXPLORATION, LLC	1/8+	908 213	N/A	N/A	N/A
10*16416	H	9-11-8	CYNTHIA HUDSON	TH EXPLORATION, LLC	1/8+	908 219	N/A	N/A	N/A
10*16424	H	9-11-8	ROBERT J RIGBY	TH EXPLORATION, LLC	1/8+	908 241	N/A	N/A	N/A
10*16448	H	9-11-8	RALPH L AND JUANITA L CRIM	TH EXPLORATION LLC	1/8+	908 584	N/A	N/A	N/A
10*16478	H	9-11-8	MARION L AND EMILY CAMPBELL	TH EXPLORATION LLC	1/8+	908 245	N/A	N/A	N/A
10*16514	H	9-11-8	ALEX RUSSELL AND JOYCE A CAMPBELL	TH EXPLORATION LLC	1/8+	908 248	N/A	N/A	N/A
10*16515	H	9-11-8	ANNA MARIE JACKSON	TH EXPLORATION LLC	1/8+	908 251	N/A	N/A	N/A
10*16516	H	9-11-8	WILSON ANDREW JACKSON	TH EXPLORATION LLC	1/8+	908 253	N/A	N/A	N/A
10*16545	H	9-11-8	ROBERT G & ELLEN FOUNDS	TH EXPLORATION LLC	1/8+	908 260	N/A	N/A	N/A
10*16662	H	9-11-8	RICHARD THOMAS AND VICKI J MIMS	TH EXPLORATION LLC	1/8+	908 863	N/A	N/A	N/A
10*16666	H	9-11-8	MICHAEL P PYLE	TH EXPLORATION LLC	1/8+	908 255	N/A	N/A	N/A
10*16667	H	9-11-8	CHARLES F AND GAIL ANN PYLE	TH EXPLORATION LLC	1/8+	908 266	N/A	N/A	N/A
10*16668	H	9-11-8	JACK I AND MERRILEE PYLE	TH EXPLORATION LLC	1/8+	908 257	N/A	N/A	N/A

WW-6A1 Supplement

51-01948

RECEIVED
Office of Oil and Gas
FEB 6 2018
WV Department of
Environmental Protection

Operator's Well No. Heaven Hill 3 - 5HM

03/02/2018

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment
10*16669	H	9-11-8	JOHN S AND PATRICIA S DADO	TH EXPLORATION LLC	1/8+	908 269	N/A	N/A	N/A
10*16686	H	9-11-8	CHERYLE M TRACEY	TH EXPLORATION LLC	1/8+	927 475	N/A	N/A	N/A
10*16688	H	9-11-8	SHERRYL PYLE BAIR	TH EXPLORATION LLC	1/8+	927 481	N/A	N/A	N/A
10*16689	H	9-11-8	JOHN C FOUNDS	TH EXPLORATION LLC	1/8+	927 490	N/A	N/A	N/A
10*16690	H	9-11-8	RICARDO ORTIZ	TH EXPLORATION LLC	1/8+	921 352	N/A	N/A	N/A
10*16720	H	9-11-8	DONNA ELAINE BRASKETT	TH EXPLORATION LLC	1/8+	921 152	N/A	N/A	N/A
10*16742	H	9-11-8	PAUL C WILSON	TH EXPLORATION LLC	1/8+	927 490	N/A	N/A	N/A
10*16747	H	9-11-8	WILLIAM DALE BRASKETT	TH EXPLORATION LLC	1/8+	921 96	N/A	N/A	N/A
10*16798	H	9-11-8	PATRICK A RANKIN AND ROBIN A RANKIN	TH EXPLORATION LLC	1/8+	921 364	N/A	N/A	N/A
10*16800	H	9-11-8	JAMES KENNETH JACKSON AND JULIE JACKSON	TH EXPLORATION LLC	1/8+	921 93	N/A	N/A	N/A
10*16802	H	9-11-8	CHRISTOPHER AND TAMMY RICHARDSON	TH EXPLORATION LLC	1/8+	921 495	N/A	N/A	N/A
10*16804	H	9-11-8	WILLIAM N AND SHERRY D TAYLOR	TH EXPLORATION LLC	1/8+	921 510	N/A	N/A	N/A
10*16806	H	9-11-8	VIRGINIA I WHITMAN	TH EXPLORATION LLC	1/8+	921 528	N/A	N/A	N/A
10*16807	H	9-11-8	DAVID TULLER AND SUSAN STORTS-TULLER	TH EXPLORATION LLC	1/8+	921 513	N/A	N/A	N/A
10*16808	H	9-11-8	MICHAEL L ORTIZ	TH EXPLORATION LLC	1/8+	921 349	N/A	N/A	N/A
10*16815	H	9-11-8	HAROLD W PYLE	TH EXPLORATION LLC	1/8+	921 357	N/A	N/A	N/A
10*16819	H	9-11-8	TERESA ORTIZ BIGGS	TH EXPLORATION LLC	1/8+	921 147	N/A	N/A	N/A
10*16821	H	9-11-8	SHEILA BRASKETT WEICHEY	TH EXPLORATION LLC	1/8+	921 516	N/A	N/A	N/A
10*16836	H	9-11-8	RICK A AND LENORE A STORTS	TH EXPLORATION LLC	1/8+	921 507	N/A	N/A	N/A
10*16837	H	9-11-8	TERRY L AND THELMA A POFF	TH EXPLORATION LLC	1/8+	927 472	N/A	N/A	N/A
10*16838	H	9-11-8	ROBERT G FUNARI	TH EXPLORATION LLC	1/8+	921 82	N/A	N/A	N/A
10*16839	H	9-11-8	JAMES B FOUNDS AND LYNN M MOWERY	TH EXPLORATION LLC	1/8+	921 73	N/A	N/A	N/A
10*16863	H	9-11-8	TINA MOORE	TH EXPLORATION LLC	1/8+	921 334	N/A	N/A	N/A
10*16868	H	9-11-8	MICHAEL W STORTS AND JESSICA M STORTS	TH EXPLORATION LLC	1/8+	921 504	N/A	N/A	N/A
10*16879	H	9-11-8	MARK E AND LESLEY A STORTS	TH EXPLORATION LLC	1/8+	921 501	N/A	N/A	N/A
10*16880	H	9-11-8	BEVERLY ANN STORTS	TH EXPLORATION LLC	1/8+	921 498	N/A	N/A	N/A
10*16902	H	9-11-8	MARY BARCAW DUKE	TH EXPLORATION LLC	1/8+	921 105	N/A	N/A	N/A
10*16962	H	9-11-8	DENNIS P AND BARBARA EZZEL FLORY	TH EXPLORATION LLC	1/8+	921 70	N/A	N/A	N/A
10*16976	H	9-11-8	LESTER G AND CONSTANCE B NICKOLSON	TH EXPLORATION LLC	1/8+	921 343	N/A	N/A	N/A
10*16977	H	9-11-8	JEREMY COCHENOUR	TH EXPLORATION LLC	1/8+	921 102	N/A	N/A	N/A
10*16987	H	9-11-8	LAURIE EZZEL PERRY	TH EXPLORATION LLC	1/8+	921 355	N/A	N/A	N/A
10*16989	H	9-11-8	BRITTANY RICHARDSON	TH EXPLORATION LLC	1/8+	921 376	N/A	N/A	N/A
10*16991	H	9-11-8	MARYELLEN FOUNDS AND LAUREN FOUNDS	TH EXPLORATION LLC	1/8+	921 79	N/A	N/A	N/A
10*16996	H	9-11-8	THOMAS RANKIN	TH EXPLORATION LLC	1/8+	917 75	N/A	N/A	N/A
10*17130	H	9-11-8	CINDY L BARGER	TH EXPLORATION LLC	1/8+	921 137	N/A	N/A	N/A
10*17155	H	9-11-8	JESSE LEON JR AND TERESA GAIL EZZELLE	TH EXPLORATION LLC	1/8+	921 118	N/A	N/A	N/A
10*17156	H	9-11-8	HENRI NELL JACKSON KENT BARNES	TH EXPLORATION LLC	1/8+	921 139	N/A	N/A	N/A
10*17157	H	9-11-8	JAMES N REEVES JR AND RITA M REEVES	TH EXPLORATION LLC	1/8+	921 367	N/A	N/A	N/A
10*17198	H	9-11-8	THOMAS G AND DIANE W BAYLESS	TH EXPLORATION LLC	1/8+	921 141	N/A	N/A	N/A
10*17205	H	9-11-8	SANDRA JEAN WILSON	TH EXPLORATION LLC	1/8+	921 524	N/A	N/A	N/A
10*17208	H	9-11-8	PATRICK S GALLAGHER AND JOYCE ANN FOUNDS	TH EXPLORATION LLC	1/8+	921 86	N/A	N/A	N/A
10*17274	H	9-11-8	DAVID H WILSON	TH EXPLORATION LLC	1/8+	921 474	N/A	N/A	N/A
10*17275	H	9-11-8	JOHN R REEVES AND MONA G REEVES	TH EXPLORATION LLC	1/8+	921 373	N/A	N/A	N/A
10*17276	H	9-11-8	BERTHA EZZEL WYATT	TH EXPLORATION LLC	1/8+	921 526	N/A	N/A	N/A
10*17278	H	9-11-8	MICHAEL L EZZELLE	TH EXPLORATION LLC	1/8+	921 121	N/A	N/A	N/A
10*17339	H	9-11-8	JOSEPH W FOUNDS	TH EXPLORATION LLC	1/8+	921 76	N/A	N/A	N/A
10*17377	H	9-11-8	MILTON HOWARD EZZELLE JR AND ELIZABETH A EZZELLE	TH EXPLORATION LLC	1/8+	921 123	N/A	N/A	N/A
10*17416	H	9-11-8	ANDREW M. ORTIZ	TH EXPLORATION, LLC	1/8+	921 346	N/A	N/A	N/A

51-01948

RECEIVED
Office of Oil and Gas
FEB 6 2018
WV Department of
Environmental Protection

03/02/2018

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment
10*17438	H	9-11-8	DENNIS M WILSON	TH EXPLORATION LLC	1/8+	921 476	N/A	N/A	N/A
10*17440	H	9-11-8	KENDRA WALISA	TH EXPLORATION LLC	1/8+	927 484	N/A	N/A	N/A
10*17441	H	9-11-8	RALPH J WILSON	TH EXPLORATION LLC	1/8+	921 522	N/A	N/A	N/A
10*17442	H	9-11-8	SHANE ALLEN AND MENDY JEAN ALLEN	TH EXPLORATION LLC	1/8+	921 134	N/A	N/A	N/A
10*17443	H	9-11-8	MICHELE MORROW-BACK	TH EXPLORATION LLC	1/8+	921 337	N/A	N/A	N/A
10*17444	H	9-11-8	KELLY FOUNDS CAMPBELL	TH EXPLORATION LLC	1/8+	921 99	N/A	N/A	N/A
10*17449	H	9-11-8	PHYLLIS J BLAKE	TH EXPLORATION LLC	1/8+	921 150	N/A	N/A	N/A
10*17482	H	9-11-8	TERESA EZELE RALYA AND DAVID L RALYA	TH EXPLORATION LLC	1/8+	927 487	N/A	N/A	N/A
10*17483	H	9-11-8	RICHARD I PYLE	TH EXPLORATION LLC	1/8+	921 359	N/A	N/A	N/A
10*17484	H	9-11-8	NELDA S JACKSON	TH EXPLORATION LLC	1/8+	921 330	N/A	N/A	N/A
10*17485	H	9-11-8	MARGIE ANN JACKSON ROBBINS GRAHAM	TH EXPLORATION LLC	1/8+	921 91	N/A	N/A	N/A
10*17526	H	9-11-8	JEFFREY L REEVES AND JODY L REEVES	TH EXPLORATION LLC	1/8+	921 370	N/A	N/A	N/A
10*17527	H	9-11-8	JAMES MICHAEL EZELE AND LUCILLE D EZELE	TH EXPLORATION LLC	1/8+	921 111	N/A	N/A	N/A
10*17538	H	9-11-8	CHERYL RANKIN-KING	TH EXPLORATION LLC	1/8+	952 160	N/A	N/A	N/A
10*17552	H	9-11-8	JOHN BEVACQUA AND PATRICIA A BEVACQUA	TH EXPLORATION LLC	1/8+	921 144	N/A	N/A	N/A
10*17554	H	9-11-8	MICHAEL T RANKIN	TH EXPLORATION LLC	1/8+	921 361	N/A	N/A	N/A
10*17561	H	9-11-8	KATHRYN L & ROGER L TYRELL	TH EXPLORATION LLC	1/8+	921 519	N/A	N/A	N/A
10*17564	H	9-11-8	JAMES R & TRACEY E NICKOLSON	TH EXPLORATION, LLC	1/8+	921 340	N/A	N/A	N/A
10*17565	H	9-11-8	JESSE ALLEN JACKSON AND ELIZABETH D JACKSON	TH EXPLORATION LLC	1/8+	921 327	N/A	N/A	N/A
10*17566	H	9-11-8	NATHAN P & BARBARA T ERDOSSY	TH EXPLORATION, LLC	1/8+	921 108	N/A	N/A	N/A
10*17588	H	9-11-8	JAMES M JACKSON	TH EXPLORATION, LLC	1/8+	921 325	N/A	N/A	N/A
10*17589	H	9-11-8	MARY CHRISTINE MCKENNA	TH EXPLORATION, LLC	1/8+	921 332	N/A	N/A	N/A
10*17677	H	9-11-8	GEORGE M GONITA JR	TH EXPLORATION, LLC	1/8+	921 89	N/A	N/A	N/A
10*17744	H	9-11-8	SAM PRESLEY EZELE	TH EXPLORATION LLC	1/8+	921 116	N/A	N/A	N/A
10*47051.223.1	H	9-11-8	JEAN ANNE GORBY STORCH	TH EXPLORATION LLC	1/8+	877 216	N/A	N/A	N/A
10*47051.223.10	H	9-11-8	ROBERT E GORBY	TH EXPLORATION LLC	1/8+	908 47	N/A	N/A	N/A
10*47051.223.11	H	9-11-8	ELIZABETH ESTEP	TH EXPLORATION LLC	1/8+	908 37	N/A	N/A	N/A
10*47051.223.12	H	9-11-8	ALICE GORBY MARTIN	TH EXPLORATION LLC	1/8+	908 52	N/A	N/A	N/A
10*47051.223.13	H	9-11-8	JUSTIN RINE AND BECKY RINE	TH EXPLORATION LLC	1/8+	908 42	N/A	N/A	N/A
10*47051.223.14	H	9-11-8	LARRY D TAUNT AND NANCY L TAUNT	TH EXPLORATION LLC	1/8+	907 639	N/A	N/A	N/A
10*47051.223.15	H	9-11-8	BETTY LOU STERN AND WILLIAM KEITH STERN	TH EXPLORATION LLC	1/8+	908 64	N/A	N/A	N/A
10*47051.223.16	H	9-11-8	RALPH E HUNTER JR AND CHARLOTTE HUNTER	TH EXPLORATION LLC	1/8+	908 9	N/A	N/A	N/A
10*47051.223.17	H	9-11-8	BRITNEY MIENEAR	TH EXPLORATION LLC	1/8+	908 57	N/A	N/A	N/A
10*47051.223.18	H	9-11-8	JASON RINE AND HEATHER RINE	TH EXPLORATION LLC	1/8+	907 629	N/A	N/A	N/A
10*47051.223.19	H	9-11-8	BARBARA A BUZZARD	TH EXPLORATION LLC	1/8+	908 24	N/A	N/A	N/A
10*47051.223.20	H	9-11-8	GARY T WARD AND SHARON D WARD	TH EXPLORATION LLC	1/8+	908 19	N/A	N/A	N/A
10*47051.223.21	H	9-11-8	SALLY COLE	TH EXPLORATION LLC	1/8+	908 74	N/A	N/A	N/A
10*47051.223.22	H	9-11-8	RONALD S CRIM	TH EXPLORATION LLC	1/8+	908 79	N/A	N/A	N/A
10*47051.223.23	H	9-11-8	JO DEE K DAVIS	TH EXPLORATION LLC	1/8+	908 136	N/A	N/A	N/A
10*47051.223.24	H	9-11-8	JOANNE WELCH	TH EXPLORATION LLC	1/8+	908 141	N/A	N/A	N/A
10*47051.223.25	H	9-11-8	WENDY L SMARKEI	TH EXPLORATION LLC	1/8+	908 69	N/A	N/A	N/A
10*47051.223.26	H	9-11-8	TIM J HOBBS	TH EXPLORATION LLC	1/8+	908 277	N/A	N/A	N/A
10*47051.223.27	H	9-11-8	KAREN S GAST	TH EXPLORATION LLC	1/8+	908 150	N/A	N/A	N/A
10*47051.223.28	H	9-11-8	PATSY JO RAUJ	TH EXPLORATION LLC	1/8+	908 155	N/A	N/A	N/A
10*47051.223.29	H	9-11-8	LAURIE DRIGGERS MANDERSON	TH EXPLORATION LLC	1/8+	908 165	N/A	N/A	N/A
10*47051.223.30	H	9-11-8	JANICE M GONITA GAVALIK	TH EXPLORATION LLC	1/8+	908 180	N/A	N/A	N/A
10*47051.223.31	H	9-11-8	JOSEPH GORBY DAKAN	TH EXPLORATION LLC	1/8+	908 175	N/A	N/A	N/A

03/02/2018

RECEIVED
Office of Oil and Gas
FEB 6 2018
WV Department of
Environmental Protection

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment
10*47051.223.33	H	9-11-8	NANCY CIAFFAGNONE HOUSLEY	TH EXPLORATION LLC	1/8+	908 185	N/A	N/A	N/A
10*47051.223.34	H	9-11-8	JOHN CIAFFAGNONE	TH EXPLORATION LLC	1/8+	908 170	N/A	N/A	N/A
10*47051.223.35	H	9-11-8	DEBRA L CIAFFAGNONE	TH EXPLORATION LLC	1/8+	908 190	N/A	N/A	N/A
10*47051.223.5	H	9-11-8	HAROLD S BROWN II AND MARIA A BROWN	TH EXPLORATION LLC	1/8+	907 641	N/A	N/A	N/A
10*47051.223.6	H	9-11-8	JOSHUA RINE AND REBECCA RINE	TH EXPLORATION LLC	1/8+	907 634	N/A	N/A	N/A
10*47051.223.7	H	9-11-8	JACK R WILSON JR AND JANE A WILSON	TH EXPLORATION LLC	1/8+	908 4	N/A	N/A	N/A
10*47051.223.8	H	9-11-8	DAVID M WILSON	TH EXPLORATION LLC	1/8+	907 649	N/A	N/A	N/A
10*47051.223.9	H	9-11-8	LINDA DELBERT	TH EXPLORATION LLC	1/8+	908 32	N/A	N/A	N/A
10*15606	I	9-12-2	CHK-MAC LLC	CHESEAPEAKE APPALACHIA LLC	1/8+	798 150	N/A	Chesapeake to Chevron: 30/461	Chevron to Tug Hill: 36/148
10*47051.309.3	I	9-12-2	GERALD W QUIGLEY AND VICKI L QUIGLEY	TH EXPLORATION LLC	1/8+	905 12	N/A	N/A	N/A
10*16932	I	9-12-2	HAYMAKER PROPERTIES LP	CHEVRON U.S.A. INC.	1/8+	902 447	N/A	N/A	Chevron to Tug Hill: 37/437
10*47051.309.1	I	9-12-2	LESLIE E QUIGLEY	TH EXPLORATION LLC	1/8+	905 8	N/A	N/A	N/A
10*47051.309.2	I	9-12-2	LEWIS M QUIGLEY AND MAXINE V QUIGLEY	TH EXPLORATION LLC	1/8+	907 217	N/A	N/A	N/A
10*16238	I	9-12-2	SUSAN MARIE JOHNSON AKA SUSAN MARIE HUBER	TH EXPLORATION LLC	1/8+	924 614	N/A	N/A	N/A
10*15461	J	9-12-30	SANDRA SUE HALL AND DAVID HALL	TH EXPLORATION LLC	1/8+	905 622	N/A	N/A	N/A
10*15462	J	9-12-30	JUDITH F TEMPLE AND LOUIS I TEMPLE	TH EXPLORATION LLC	1/8+	905 617	N/A	N/A	N/A
10*15468	J	9-12-30	KEITH W STORCH AND DEBORAH A STORCH	TH EXPLORATION LLC	1/8+	905 624	N/A	N/A	N/A
10*15496	J	9-12-30	FRANK A STORCH JR AND SUSAN STORCH	TH EXPLORATION LLC	1/8+	906 1	N/A	N/A	N/A
10*15497	J	9-12-30	TOM ALLEY	TH EXPLORATION LLC	1/8+	905 644	N/A	N/A	N/A
10*15498	J	9-12-30	DELBERT D RUSH AND BETTY RUTH RUSH	TH EXPLORATION LLC	1/8+	905 647	N/A	N/A	N/A
10*15682	J	9-12-30	THELMA W BIRDWELL	TH EXPLORATION LLC	1/8+	906 9	N/A	N/A	N/A
10*15684	J	9-12-30	CHARLES R WILLAMSON JR	TH EXPLORATION LLC	1/8+	906 7	N/A	N/A	N/A
10*15685	J	9-12-30	TRACY RAND	TH EXPLORATION LLC	1/8+	906 4	N/A	N/A	N/A
10*15727	J	9-12-30	TIMOTHY LEE COLLEY	TH EXPLORATION LLC	1/8+	906 12	N/A	N/A	N/A
10*15740	J	9-12-30	LARRY W ALLEY	TH EXPLORATION LLC	1/8+	912 49	N/A	N/A	N/A
10*16032	J	9-12-30	MELINDA M GREENOUGH AND DOUGLAS CORWIN GREENOUGH	TH EXPLORATION LLC	1/8+	906 26	N/A	N/A	N/A
10*16035	J	9-12-30	CLARISSA MALONE	TH EXPLORATION LLC	1/8+	906 23	N/A	N/A	N/A
10*16047	J	9-12-30	PEGGY KOHRMANN AND DAVID KOHRMANN	TH EXPLORATION LLC	1/8+	906 32	N/A	N/A	N/A
10*16054	J	9-12-30	MEGAN R AUSTIN AND ANTHONY B POWERS	TH EXPLORATION LLC	1/8+	906 29	N/A	N/A	N/A
10*16071	J	9-12-30	VIRGINIA LESLIE BERTRAM	TH EXPLORATION LLC	1/8+	901 370	N/A	N/A	N/A
10*16110	J	9-12-30	KATHLEEN D AND STEVEN MONIGOLD	TH EXPLORATION LLC	1/8+	906 35	N/A	N/A	N/A
10*16137	J	9-12-30	RODNEY K. BANE & CATHE J. BANE	TH EXPLORATION LLC	1/8+	906 41	N/A	N/A	N/A
10*16184	J	9-12-30	RAYMOND P RIEK AND GARDALEE RIECK	TH EXPLORATION LLC	1/8+	906 44	N/A	N/A	N/A
10*16189	J	9-12-30	MARLENE BAKER	TH EXPLORATION LLC	1/8+	906 50	N/A	N/A	N/A
10*16232	J	9-12-30	DANIEL L ALLEY AND TERESA ALLEY	TH EXPLORATION LLC	1/8+	906 53	N/A	N/A	N/A
10*16241	J	9-12-30	NANNETTE BERLECH AND MATTHEW S BERLECH JR	TH EXPLORATION LLC	1/8+	906 56	N/A	N/A	N/A
10*16243	J	9-12-30	CATHERINE I AND ERNEST M SILVERIO	TH EXPLORATION LLC	1/8+	906 47	N/A	N/A	N/A
10*16280	J	9-12-30	CHRISTOPHER SAUDERS	TH EXPLORATION LLC	1/8+	905 612	N/A	N/A	N/A
10*16290	J	9-12-30	JENNIFER ALLEY	TH EXPLORATION LLC	1/8+	906 59	N/A	N/A	N/A
10*16330	J	9-12-30	LISA R IMHOFF AND CHAD IMHOFF	TH EXPLORATION LLC	1/8+	905 626	N/A	N/A	N/A
10*16331	J	9-12-30	LOLA F BLEVINS	TH EXPLORATION LLC	1/8+	905 630	N/A	N/A	N/A
10*16366	J	9-12-30	STEVEN P ROBERTS	TH EXPLORATION LLC	1/8+	905 628	N/A	N/A	N/A
10*16374	J	9-12-30	KAREN L ZUCKER AND MICHAEL D ZUCKER	TH EXPLORATION LLC	1/8+	905 632	N/A	N/A	N/A
10*16375	J	9-12-30	GEORGE E HOLMES AND SUSAN HOLMES	TH EXPLORATION LLC	1/8+	905 635	N/A	N/A	N/A
10*16381	J	9-12-30	DONNA BURNS	TH EXPLORATION LLC	1/8+	906 20	N/A	N/A	N/A
10*16382	J	9-12-30	LINDA M HONE AND VAUGHN HONE SR	TH EXPLORATION LLC	1/8+	906 17	N/A	N/A	N/A
10*16410	J	9-12-30	SUSAN I BAKER	TH EXPLORATION LLC	1/8+	905 638	N/A	N/A	N/A
10*16418	J	9-12-30	DENZIL ALLEY JR	TH EXPLORATION, LLC	1/8+	905 641	N/A	N/A	N/A

WW-6A1 Supplement

Operator's Well No. Heaven Hill 3 - 5HM1

51-019487

RECEIVED
Office of Oil and Gas
FEB 6 2018
WV Department of
Environmental Protection

03/02/2018

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment
10*16435	J	9-12-30	DENISE WILLIAMSON	TH EXPLORATION LLC	1/8+	926 622	N/A	N/A	N/A
10*16437	J	9-12-30	BECKY LANDRIS	TH EXPLORATION LLC	1/8+	926 625	N/A	N/A	N/A
10*16487	J	9-12-30	JOHN WILLIAMSON JR	TH EXPLORATION LLC	1/8+	927 27	N/A	N/A	N/A
10*16488	J	9-12-30	RACHEL AND FRED THORNE JR	TH EXPLORATION LLC	1/8+	926 628	N/A	N/A	N/A
10*16491	J	9-12-30	BELA N WELLENREITER	TH EXPLORATION LLC	1/8+	921 467	N/A	N/A	N/A
10*16508	J	9-12-30	JUDITH C LORADTCH	TH EXPLORATION LLC	1/8+	926 631	N/A	N/A	N/A
10*16528	J	9-12-30	ROSELLA M HORR AND WILLARD L HORR	TH EXPLORATION LLC	1/8+	927 1	N/A	N/A	N/A
10*16539	J	9-12-30	KATHRYN BROWN AND BRUCE G BROWN	TH EXPLORATION LLC	1/8+	926 641	N/A	N/A	N/A
10*16541	J	9-12-30	DEBORAH L TURLEY	TH EXPLORATION LLC	1/8+	926 644	N/A	N/A	N/A
10*16578	J	9-12-30	JESSE HOLMES	TH EXPLORATION LLC	1/8+	909 502	N/A	N/A	N/A
10*16606	J	9-12-30	WILLIAM T AND BARBARA W PAUL	TH EXPLORATION LLC	1/8+	919 252	N/A	N/A	N/A
10*16607	J	9-12-30	LOUISE M AND WILSON D MCELHINNY	TH EXPLORATION LLC	1/8+	909 72	N/A	N/A	N/A
10*16616	J	9-12-30	WILLIAM BRYAN COLLEY	TH EXPLORATION LLC	1/8+	913 628	N/A	N/A	N/A
10*16671	J	9-12-30	NATHAN AND KARI KOHRMANN	TH EXPLORATION LLC	1/8+	913 40	N/A	N/A	N/A
10*16672	J	9-12-30	ANNE R AND JOSEPH A MURPHY	TH EXPLORATION LLC	1/8+	910 215	N/A	N/A	N/A
10*16737	J	9-12-30	ARIC A HOLMES AND CARI M HOLMES	TH EXPLORATION LLC	1/8+	913 389	N/A	N/A	N/A
10*16744	J	9-12-30	THE JENNIFER TEACHNOR GAFFEY LIVING TRUST DATED OCTOBER 30TH 2013	TH EXPLORATION LLC	1/8+	926 634	N/A	N/A	N/A
10*16769	J	9-12-30	CHARLES C SEAMON	TH EXPLORATION LLC	1/8+	910 219	N/A	N/A	N/A
10*16785	J	9-12-30	JOSHUA W SEAMON	TH EXPLORATION LLC	1/8+	910 223	N/A	N/A	N/A
10*16818	J	9-12-30	BRENDA REED	TH EXPLORATION LLC	1/8+	927 30	N/A	N/A	N/A
10*16823	J	9-12-30	PEGGY N AND JAMES E GLASER	TH EXPLORATION LLC	1/8+	913 373	N/A	N/A	N/A
10*16886	J	9-12-30	DALE R ALLEY	TH EXPLORATION LLC	1/8+	927 19	N/A	N/A	N/A
10*16898	J	9-12-30	VICTOR E ALLEY JR AND DEBRA A ALLEY	TH EXPLORATION LLC	1/8+	926 647	N/A	N/A	N/A
10*17172	J	9-12-30	LINDA K AND MICHAEL HUMES	TH EXPLORATION LLC	1/8+	927 33	N/A	N/A	N/A
10*17177	J	9-12-30	JAMES P MILLER	TH EXPLORATION LLC	1/8+	926 608	N/A	N/A	N/A
10*17294	J	9-12-30	JOHN P HOLMES AND DEBRA A HOLMES	TH EXPLORATION LLC	1/8+	927 6	N/A	N/A	N/A
10*17375	J	9-12-30	GEORGE R CORNELIUS JR AND JANINA JANOUSEK CORNELIUS	TH EXPLORATION LLC	1/8+	927 36	N/A	N/A	N/A
10*17388	J	9-12-30	LORI A FARMER AND DANIEL K FARMER	TH EXPLORATION LLC	1/8+	927 13	N/A	N/A	N/A
10*17475	J	9-12-30	LARRY R CRANE	TH EXPLORATION LLC	1/8+	927 207	N/A	N/A	N/A
10*17476	J	9-12-30	CHRISTINA NESTELL AND CHARLES E NESTELL III	TH EXPLORATION LLC	1/8+	927 39	N/A	N/A	N/A
10*17477	J	9-12-30	MICHAEL SAUDERS AND AMI SAUDERS	TH EXPLORATION LLC	1/8+	927 16	N/A	N/A	N/A
10*17496	J	9-12-30	STACY L BARNHART	TH EXPLORATION LLC	1/8+	909 512	N/A	N/A	N/A
10*17536	J	9-12-30	MABEL MCCARTHY	TH EXPLORATION LLC	1/8+	927 211	N/A	N/A	N/A
10*17619	J	9-12-30	BRENDA GILBERT	TH EXPLORATION LLC	1/8+	927 204	N/A	N/A	N/A
10*17620	J	9-12-30	DANIEL E WILLIAMSON AND HEATHER R WILLIAMSON	TH EXPLORATION LLC	1/8+	927 215	N/A	N/A	N/A
10*17655	J	9-12-30	ANN M & CURTIS STEVENS	TH EXPLORATION, LLC	1/8+	927 218	N/A	N/A	N/A
10*17678	J	9-12-30	KATHERINE & DANIEL DEGROOT	TH EXPLORATION, LLC	1/8+	927 200	N/A	N/A	N/A
10*17705	J	9-12-30	EARL & LYDIA ARMENTA FRAZIER	TH EXPLORATION, LLC	1/8+	927 480	N/A	N/A	N/A
10*17726	J	9-12-30	C FREEMAN MCCALL AND SUSAN M MCCALL	TH EXPLORATION LLC	1/8+	915 66	N/A	N/A	N/A
10*17809	J	9-12-30	MARY M MORRIS	TH EXPLORATION LLC	1/8+	921 252	N/A	N/A	N/A
10*17815	J	9-12-30	THE TESTAMENTARY TRUST OF CAREY B PAUL III	TH EXPLORATION LLC	1/8+	919 128	N/A	N/A	N/A
10*17818	J	9-12-30	KATHLEEN REILLY MANNIX AND J MICHAEL MANNIX	TH EXPLORATION, LLC	1/8+	924 552	N/A	N/A	N/A
10*17882	J	9-12-30	MARY E HANM	TH EXPLORATION, LLC	1/8+	924 545	N/A	N/A	N/A
10*17893	J	9-12-30	ERIC D & AMANDA N PETRUCCI	TH EXPLORATION, LLC	1/8+	905 569	N/A	N/A	N/A
10*47051.318.1	J	9-12-30	JOSEPH PAUL FOX AND MARGARET H FOX	TH EXPLORATION LLC	1/8+	904 600	N/A	N/A	N/A
10*47051.318.10	J	9-12-30	DONNA JUNE STRAIT	TH EXPLORATION LLC	1/8+	904 604	N/A	N/A	N/A
10*47051.318.11	J	9-12-30	RICHARD TAYLOR	TH EXPLORATION LLC	1/8+	904 606	N/A	N/A	N/A
10*47051.318.12	J	9-12-30	BARBARA J BEVERIDGE	TH EXPLORATION LLC	1/8+	904 606	N/A	N/A	N/A

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment
10*47051.318.15	J	9-12-30	DONNA CHMELVNSKI	TH EXPLORATION LLC	1/8+	904 610	N/A	N/A
10*47051.318.16	J	9-12-30	BULA F YOST	TH EXPLORATION LLC	1/8+	904 614	N/A	N/A
10*47051.318.17	J	9-12-30	CORA ALICE DAUBE	TH EXPLORATION LLC	1/8+	904 618	N/A	N/A
10*47051.318.18	J	9-12-30	MICHAEL WAYNE ALLEY AND LINDA ALLEY	TH EXPLORATION LLC	1/8+	904 622	N/A	N/A
10*47051.318.19	J	9-12-30	JUDY LYNN CHILPINSKI	TH EXPLORATION LLC	1/8+	904 496	N/A	N/A
10*47051.318.2	J	9-12-30	CHRISTAL L SCHAFER	TH EXPLORATION LLC	1/8+	904 531	N/A	N/A
10*47051.318.20	J	9-12-30	CHARLES R BENNETT JR AND DONNA S BENNETT	TH EXPLORATION LLC	1/8+	904 500	N/A	N/A
10*47051.318.21	J	9-12-30	DORETTA RUSH	TH EXPLORATION LLC	1/8+	904 504	N/A	N/A
10*47051.318.22	J	9-12-30	ELIZABETH STARC	TH EXPLORATION LLC	1/8+	904 508	N/A	N/A
10*47051.318.23	J	9-12-30	EMMA CRISWELL	TH EXPLORATION LLC	1/8+	904 512	N/A	N/A
10*47051.318.24	J	9-12-30	CARLA MAE ALLEY	TH EXPLORATION LLC	1/8+	904 516	N/A	N/A
10*47051.318.25	J	9-12-30	MAARIANN T DARGUSCH AND JONATHON DARGUSCH	TH EXPLORATION LLC	1/8+	905 549	N/A	N/A
10*47051.318.27	J	9-12-30	KAREN J BRUGGEMAN	TH EXPLORATION LLC	1/8+	904 520	N/A	N/A
10*47051.318.28	J	9-12-30	LORAIN GAIL STARC HORNER AND CHARLES HORNER	TH EXPLORATION LLC	1/8+	904 524	N/A	N/A
10*47051.318.3	J	9-12-30	RANDY W MORRIS AND CHERYL MORRIS	TH EXPLORATION LLC	1/8+	904 535	N/A	N/A
10*47051.318.30	J	9-12-30	CYNTHIA TEACHNOR GRAHAM	TH EXPLORATION LLC	1/8+	905 553	N/A	N/A
10*47051.318.31	J	9-12-30	WILLIAM RICHARD FOX	TH EXPLORATION LLC	1/8+	905 561	N/A	N/A
10*47051.318.32	J	9-12-30	SHARON KELLER JOEY KELLER JR	TH EXPLORATION LLC	1/8+	904 539	N/A	N/A
10*47051.318.33	J	9-12-30	J RONALD FOX	TH EXPLORATION LLC	1/8+	905 565	N/A	N/A
10*47051.318.34	J	9-12-30	DONNA SMITH WEEKLEY	TH EXPLORATION LLC	1/8+	905 442	N/A	N/A
10*47051.318.35	J	9-12-30	ANNA MAE PATTERSON	TH EXPLORATION LLC	1/8+	905 573	N/A	N/A
10*47051.318.36	J	9-12-30	DANNY CARMICHAEL III	TH EXPLORATION LLC	1/8+	905 576	N/A	N/A
10*47051.318.37	J	9-12-30	GENELDA MASON	TH EXPLORATION LLC	1/8+	905 580	N/A	N/A
10*47051.318.38	J	9-12-30	SHERWOOD MASON NILA JUNE MASON	TH EXPLORATION LLC	1/8+	905 448	N/A	N/A
10*47051.318.39	J	9-12-30	DONNA K DUNN AND JAMES DUNN	TH EXPLORATION LLC	1/8+	905 444	N/A	N/A
10*47051.318.4	J	9-12-30	MARY ELISE CAMP	TH EXPLORATION LLC	1/8+	905 557	N/A	N/A
10*47051.318.40	J	9-12-30	NANCY MARIE DUNN AND GEORGE L DUNN	TH EXPLORATION LLC	1/8+	905 590	N/A	N/A
10*47051.318.41	J	9-12-30	JOHN T CRISWELL AND CATHERINE A CRISWELL	TH EXPLORATION LLC	1/8+	905 582	N/A	N/A
10*47051.318.42	J	9-12-30	TARA E CAUSEY	TH EXPLORATION LLC	1/8+	905 586	N/A	N/A
10*47051.318.43	J	9-12-30	CHAD ERIC BENNETT AND MARY A BENNETT	TH EXPLORATION LLC	1/8+	905 588	N/A	N/A
10*47051.318.44	J	9-12-30	STACY R BENNETT	TH EXPLORATION LLC	1/8+	905 596	N/A	N/A
10*47051.318.45	J	9-12-30	PATRICIA KIRCHNER	TH EXPLORATION LLC	1/8+	905 592	N/A	N/A
10*47051.318.46	J	9-12-30	CAROL L BOBBY AND DONALD J BOBBY	TH EXPLORATION LLC	1/8+	905 603	N/A	N/A
10*47051.318.47	J	9-12-30	FRIEDA A REINBEAU AND RONALD REINBEAU	TH EXPLORATION LLC	1/8+	905 598	N/A	N/A
10*47051.318.49	J	9-12-30	DEBORAH SUE KYLE 231 EAST 24TH AVENUE	TH EXPLORATION LLC	1/8+	905 600	N/A	N/A
10*47051.318.5	J	9-12-30	WILLIAM F EWART JR AND JOAN REED EWART	TH EXPLORATION LLC	1/8+	905 594	N/A	N/A
10*47051.318.5	J	9-12-30	WILLIAM F EWART JR AND JOAN REED EWART	TH EXPLORATION LLC	1/8+	905 438	N/A	N/A
10*47051.318.52	J	9-12-30	PETER G STORCH AND LAURIE L STORCH	TH EXPLORATION LLC	1/8+	905 608	N/A	N/A
10*47051.318.53	J	9-12-30	ROSEMARIE BERISFORD	TH EXPLORATION LLC	1/8+	905 610	N/A	N/A
10*47051.318.56	J	9-12-30	SALLY MERRICK	TH EXPLORATION LLC	1/8+	905 614	N/A	N/A
10*47051.318.57	J	9-12-30	RHONDA L PALASOTA AND SAM A PALASOTA	TH EXPLORATION LLC	1/8+	905 620	N/A	N/A
10*47051.318.6	J	9-12-30	JOSEPH F STARC JR AND DONNA STARC	TH EXPLORATION LLC	1/8+	904 596	N/A	N/A
10*47051.318.7	J	9-12-30	REED O MILLER AND EFFIE M MILLER	TH EXPLORATION LLC	1/8+	904 598	N/A	N/A
10*47051.318.8	J	9-12-30	JOHN M SHALLENBERGER AND JOANNE SHALLENBERGER	TH EXPLORATION LLC	1/8+	905 541	N/A	N/A
10*47051.318.9	J	9-12-30	JANICE M MIEDER	TH EXPLORATION LLC	1/8+	905 545	N/A	N/A
10*47051.317.0	K	9-12-37	JAN GRIMES SIMNACHER LEONARD A SIMNACHER	TH EXPLORATION LLC	1/8+	904 472	N/A	N/A
10*47051.140.1	L	9-12-32	DAVID P CHAPMAN & DEBORAH BORCK-CHAPMAN	TH EXPLORATION LLC	1/8+	866 318	N/A	N/A

Office of Oil and Gas
FEB 6 2018
 WV Department of Environmental Protection

03/02/2018

WW-6A1 Supplement

Operator's Well No. Heaven Hill 3 - SHM1

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment
10*47051.140.2	L	9-12-32	DOROTHY SULLIVAN POA JAMES REID SULLIVAN	TH EXPLORATION LLC	1/8+	873 501	N/A	N/A
10*17555	M	9-14-18	AARON AND JANA K PARRY	TH EXPLORATION LLC	1/8+	924 113	N/A	N/A
10*17452	M	9-14-18	ALAN H & MARY K DEGAMIO	TH EXPLORATION, LLC	1/8+	924 164	N/A	N/A
10*17139	M	9-14-18	ALICE G WEINER AND GERALD S WEINER	TH EXPLORATION, LLC	1/8+	915 131	N/A	N/A
10*16183	M	9-14-18	ALLEN R L DAVIS AND DIANA LEE PATTERSON	TH EXPLORATION, LLC	1/8+	906 285	N/A	N/A
10*17436	M	9-14-18	ANDREW M HOOVER AND DINAH R HOOVER	TH EXPLORATION, LLC	1/8+	924 156	N/A	N/A
10*16239	M	9-14-18	ANGELA L OLDFIELD AND KENNETH W OLDFIELD	TH EXPLORATION, LLC	1/8+	906 287	N/A	N/A
10*17880	M	9-14-18	ANNA M WRIGHT	TH EXPLORATION, LLC	1/8+	924 586	N/A	N/A
10*16443	M	9-14-18	BARBARA BROWN CHAMBERS	TH EXPLORATION, LLC	1/8+	924 621	N/A	N/A
10*16018	M	9-14-18	BARBARA MCFADDEN ALBRIGHT	TH EXPLORATION, LLC	1/8+	906 262	N/A	N/A
10*17708	M	9-14-18	BETTY LOU NOBLE	TH EXPLORATION, LLC	1/8+	923 127	N/A	N/A
10*17612	M	9-14-18	BEVERLY A LEDBETTER	TH EXPLORATION, LLC	1/8+	923 480	N/A	N/A
10*16240	M	9-14-18	BONNIE SUE PATTERSON SWISHER	TH EXPLORATION, LLC	1/8+	906 289	N/A	N/A
10*17830	M	9-14-18	BRIAN AND MELINDA MASTERS	TH EXPLORATION, LLC	1/8+	925 319	N/A	N/A
10*16031	M	9-14-18	CARL J CHMIELEWSKI AND KATHLEEN A CHMIELEWSKI	TH EXPLORATION, LLC	1/8+	906 266	N/A	N/A
10*17613	M	9-14-18	CARLTON DOBBS JR AND MIKHAIL PROKOPENKO	TH EXPLORATION, LLC	1/8+	924 120	N/A	N/A
10*16444	M	9-14-18	CATHERINE ELLEN CHAMBERS	TH EXPLORATION, LLC	1/8+	924 623	N/A	N/A
10*16083	M	9-14-18	CECIL HARRY LILLY, III AND PAMELA KAY KNIGHT LILLY	TH EXPLORATION, LLC	1/8+	912 47	N/A	N/A
10*17771	M	9-14-18	CHARLES AND USA WARRICK	TH EXPLORATION, LLC	1/8+	923 477	N/A	N/A
10*16535	M	9-14-18	CHARLES E CARSON AND MARY KAY CARSON	TH EXPLORATION, LLC	1/8+	906 420	N/A	N/A
10*17396	M	9-14-18	CHRISTINE L KIDD	TH EXPLORATION, LLC	1/8+	924 158	N/A	N/A
10*16486	M	9-14-18	DAVID ALAN WILKINSON AND PATRICIA LYNN WILKINSON	TH EXPLORATION, LLC	1/8+	924 180	N/A	N/A
10*17614	M	9-14-18	DAVID DOBBS	TH EXPLORATION, LLC	1/8+	923 489	N/A	N/A
10*17528	M	9-14-18	DEAN E GARRISON	TH EXPLORATION, LLC	1/8+	923 535	N/A	N/A
10*17487	M	9-14-18	DEBORAH R MOKOSH	TH EXPLORATION, LLC	1/8+	924 166	N/A	N/A
10*17711	M	9-14-18	DEBRA A WENNEMAN AND KURT J WENNEMAN	TH EXPLORATION, LLC	1/8+	923 520	N/A	N/A
10*16995	M	9-14-18	DIANE ELSIE RAMSEY	TH EXPLORATION, LLC	1/8+	924 146	N/A	N/A
10*17579	M	9-14-18	DON COFFIELD & GLENDA DOBBS	TH EXPLORATION, LLC	1/8+	923 525	N/A	N/A
10*17563	M	9-14-18	DONALD L WOOD	TH EXPLORATION, LLC	1/8+	923 523	N/A	N/A
10*16953	M	9-14-18	DONALD T AND JEAN K HOGAN	TH EXPLORATION, LLC	1/8+	924 140	N/A	N/A
10*16582	M	9-14-18	DORA BROCK BRAMMER	TH EXPLORATION, LLC	1/8+	907 429	N/A	N/A
10*16445	M	9-14-18	DOUGLAS C AND GWENDLYN D LEWTON	TH EXPLORATION, LLC	1/8+	925 123	N/A	N/A
10*16511	M	9-14-18	DOUGLAS R BOWEN	TH EXPLORATION, LLC	1/8+	906 475	N/A	N/A
10*17766	M	9-14-18	EDWARD S & NANCY A ROSENTHAL	TH EXPLORATION, LLC	1/8+	923 495	N/A	N/A
10*16131	M	9-14-18	ERIC S DOBBS	TH EXPLORATION, LLC	1/8+	902 68	N/A	N/A
10*16835	M	9-14-18	ERNEST CARL AUGUSTINE JR	TH EXPLORATION, LLC	1/8+	924 188	N/A	N/A
10*16182	M	9-14-18	FIRST CHRISTIAN CHURCH OF MOUNDSVILLE BY ROGER FRANCIS AND ROBERT ALBERT TRUSTEES	TH EXPLORATION, LLC	1/8+	906 283	N/A	N/A
10*16017	M	9-14-18	FLOYD A MCFADDEN	TH EXPLORATION, LLC	1/8+	906 260	N/A	N/A
10*15730	M	9-14-18	FRANCES V CARPENTER	TH EXPLORATION, LLC	1/8+	906 256	N/A	N/A
10*16442	M	9-14-18	FRED T AND JERRY L CHAMBERS	TH EXPLORATION, LLC	1/8+	924 174	N/A	N/A
10*17448	M	9-14-18	FREDERICK L HERVEY AND CATHY J HERVEY	TH EXPLORATION, LLC	1/8+	924 162	N/A	N/A
10*16948	M	9-14-18	FREDERICK M LEWTON	TH EXPLORATION, LLC	1/8+	924 136	N/A	N/A
10*17209	M	9-14-18	GAYLE S SHANNON	TH EXPLORATION, LLC	1/8+	924 168	N/A	N/A
10*16441	M	9-14-18	GEORGE FRANKLIN AND NANCY ANN REED	TH EXPLORATION, LLC	1/8+	924 619	N/A	N/A
10*17515	M	9-14-18	GLADYS E DOBBS	TH EXPLORATION, LLC	1/8+	923 541	N/A	N/A
10*17769	M	9-14-18	GLADYS FRAZIER KING	TH EXPLORATION, LLC	1/8+	923 492	N/A	N/A
10*17504	M	9-14-18	GREGG ALAN MILLER AND BETH ANN MILLER	TH EXPLORATION, LLC	1/8+	924 118	N/A	N/A
10*17675	M	9-14-18	GREGORY D & CAROLYN J WIBLE	TH EXPLORATION, LLC	1/8+	923 507	N/A	N/A

9888

FEB 6 2018
WV Department of Environmental Protection

03/02/2018

WW-6A1 Supplement

Operator's Well No. Heaven Hill 3 - 5HM

10
15
20
25
30
35
40
45
50
55
60
65
70
75
80
85
90
95
100

03/02/2018

RECEIVED
Office of Oil and Gas
FEB 6 2018
WV Department of
Environmental Protection

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment
10*16580	M	9-14-18	HAROLD C MCFADDEN	TH EXPLORATION LLC	1/8+	907 480	N/A	N/A	N/A
10*17289	M	9-14-18	HAROLD R HUNT JR AND ELIZABETH A HUNT	TH EXPLORATION LLC	1/8+	924 170	N/A	N/A	N/A
10*17879	M	9-14-18	HARRY R WRIGHT JR	TH EXPLORATION, LLC	1/8+	924 588	N/A	N/A	N/A
10*16581	M	9-14-18	HELEN L SCHILLING	TH EXPLORATION, LLC	1/8+	907 489	N/A	N/A	N/A
10*17674	M	9-14-18	HOWARD L & BETH E WOOD	TH EXPLORATION, LLC	1/8+	923 505	N/A	N/A	N/A
10*16540	M	9-14-18	JAMES A WINTER AND CONNIE G WINTER	TH EXPLORATION, LLC	1/8+	924 184	N/A	N/A	N/A
10*17676	M	9-14-18	JAMES C & DEIDRE G DORIA	TH EXPLORATION, LLC	1/8+	923 513	N/A	N/A	N/A
10*47051.325.4	M	9-14-18	JAMES H WHITE AND RITA FRANKS WHITE	TH EXPLORATION LLC	1/8+	906 230	N/A	N/A	N/A
10*17731	M	9-14-18	JAMES J MCGHEE AND JEANNINE CHAMBERS MCGHEE	TH EXPLORATION LLC	1/8+	914 519	N/A	N/A	N/A
10*17671	M	9-14-18	JAMES L STOUT	TH EXPLORATION LLC	1/8+	923 484	N/A	N/A	N/A
10*16882	M	9-14-18	JAMES LEROY AND DARLENE DOBBS OWENS	TH EXPLORATION LLC	1/8+	924 190	N/A	N/A	N/A
10*16569	M	9-14-18	JANICE C BALE	TH EXPLORATION LLC	1/8+	907 425	N/A	N/A	N/A
10*17503	M	9-14-18	JANICE L KUHN	TH EXPLORATION LLC	1/8+	924 122	N/A	N/A	N/A
10*16950	M	9-14-18	JAY E AND CECILIA E LEWTON	TH EXPLORATION LLC	1/8+	924 134	N/A	N/A	N/A
10*16532	M	9-14-18	JEAN ANN MCFADDEN	TH EXPLORATION LLC	1/8+	906 459	N/A	N/A	N/A
10*16285	M	9-14-18	JOHN A SHUTZ AND CYNTHIA J SHUTZ	TH EXPLORATION LLC	1/8+	906 291	N/A	N/A	N/A
10*16483	M	9-14-18	JOHN C AND BARBARA H WINTER	TH EXPLORATION LLC	1/8+	924 178	N/A	N/A	N/A
10*16966	M	9-14-18	JOHN GILLETTE AND BARBARA GILLETTE	TH EXPLORATION LLC	1/8+	913 377	N/A	N/A	N/A
10*17785	M	9-14-18	JOHN RUSSELL BECKER	TH EXPLORATION, LLC	1/8+	924 540	N/A	N/A	N/A
10*17582	M	9-14-18	JOHN THOMAS ERAZMUS AND JEAN R ERAZMUS	TH EXPLORATION LLC	1/8+	924 124	N/A	N/A	N/A
10*47051.325.1	M	9-14-18	JOSEPH F CHMIELEWSKI AND SANDRA CHMIELEWSKI	TH EXPLORATION LLC	1/8+	906 264	N/A	N/A	N/A
10*16993	M	9-14-18	JUDITH A LEWANDOSKY AND ALAN E LEWANDOSKY	TH EXPLORATION LLC	1/8+	906 225	N/A	N/A	N/A
10*17517	M	9-14-18	JULIA HOOVER	TH EXPLORATION LLC	1/8+	924 150	N/A	N/A	N/A
10*16085	M	9-14-18	JULIO ENRIQUE & DEBRA K TORRES	TH EXPLORATION, LLC	1/8+	923 537	N/A	N/A	N/A
10*16086	M	9-14-18	KATHARIN ANNETTE LILLY LAING AND FREDDIE JOE LAING	TH EXPLORATION LLC	1/8+	912 43	N/A	N/A	N/A
10*16531	M	9-14-18	KATHARIN DAY LILLY	TH EXPLORATION LLC	1/8+	906 272	N/A	N/A	N/A
10*17668	M	9-14-18	KENNETH R DOBBS	TH EXPLORATION, LLC	1/8+	923 503	N/A	N/A	N/A
10*16537	M	9-14-18	KIM D BOWEN AND MADONNA M BOWEN	TH EXPLORATION LLC	1/8+	907 415	N/A	N/A	N/A
10*15752	M	9-14-18	KIM O CHAMBERS AND DEBRA CHAMBERS	TH EXPLORATION LLC	1/8+	906 258	N/A	N/A	N/A
10*16180	M	9-14-18	LARRY L CHAMBERS	TH EXPLORATION LLC	1/8+	906 280	N/A	N/A	N/A
10*17131	M	9-14-18	LAURA E TOTTEN AND LONNIE R TOTTEN	TH EXPLORATION LLC	1/8+	924 154	N/A	N/A	N/A
10*16726	M	9-14-18	LESLY K WHITE	TH EXPLORATION LLC	1/8+	924 182	N/A	N/A	N/A
10*16576	M	9-14-18	LINDA A MINER AND MICHAEL W MINER	TH EXPLORATION LLC	1/8+	907 484	N/A	N/A	N/A
10*16992	M	9-14-18	LINDA C ABRAMAM	TH EXPLORATION LLC	1/8+	924 148	N/A	N/A	N/A
10*17520	M	9-14-18	LUCY P SULLIVAN	TH EXPLORATION LLC	1/8+	923 533	N/A	N/A	N/A
10*17559	M	9-14-18	MARVIN JERRY BLAKE AND LINDA D BLAKE	TH EXPLORATION LLC	1/8+	923 528	N/A	N/A	N/A
10*16087	M	9-14-18	MARY PENELOPE LILLY MURPHY	TH EXPLORATION LLC	1/8+	912 41	N/A	N/A	N/A
10*17516	M	9-14-18	MARY V DOBBS	TH EXPLORATION LLC	1/8+	923 539	N/A	N/A	N/A
10*17505	M	9-14-18	MICHAEL R & LEANNE DOBBS	TH EXPLORATION, LLC	1/8+	924 116	N/A	N/A	N/A
10*47051.325.3	M	9-14-18	NICHOLAS D PAVLIK AND GLORIA K PAVLIK	TH EXPLORATION LLC	1/8+	906 228	N/A	N/A	N/A
10*16181	M	9-14-18	NORMA CHRISTINE WHIPP AND GERALD WAYNE BLACK	TH EXPLORATION LLC	1/8+	906 281	N/A	N/A	N/A
10*16144	M	9-14-18	PATTIE S MADRID	TH EXPLORATION LLC	1/8+	906 278	N/A	N/A	N/A
10*17580	M	9-14-18	PAUL CRAIG CUNNINGHAM	TH EXPLORATION LLC	1/8+	923 530	N/A	N/A	N/A
10*17615	M	9-14-18	PAULA JO WRIGHT	TH EXPLORATION, LLC	1/8+	923 482	N/A	N/A	N/A
10*17581	M	9-14-18	PAULA WEIRES	TH EXPLORATION LLC	1/8+	923 486	N/A	N/A	N/A
10*47051.325.8	M	9-14-18	RICK PAVLIK	TH EXPLORATION LLC	1/8+	906 239	N/A	N/A	N/A
10*16570	M	9-14-18	ROBERT D BOWEN AND MARGA M R BOWEN	TH EXPLORATION LLC	1/8+	907 420	N/A	N/A	N/A

31-0948
 WV-6A1 Supplement

RECEIVED
 FEB 6 2018
 WV Department of
 Environmental Protection

Operator's Well No. Heaven Hill 3 - 5HM1

03/02/2018

Lease Name or No.	Tag	Parcel	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Deed Book/Page	Assignment	Assignment	Assignment
10*17878	M	9-14-18	ROBERT E & SARAH M ROUSH	TH EXPLORATION, LLC	1/8+	924 590	N/A	N/A	N/A
10*17413	M	9-14-18	ROBERT M CHAMBERS AND CHARLOTTE A CHAMBERS	TH EXPLORATION LLC	1/8+	924 160	N/A	N/A	N/A
10*17129	M	9-14-18	ROBERTA JANE PARKINSON	TH EXPLORATION LLC	1/8+	924 142	N/A	N/A	N/A
10*17700	M	9-14-18	ROGER L & MARILYN L GARRISON	TH EXPLORATION, LLC	1/8+	923 472	N/A	N/A	N/A
10*17616	M	9-14-18	RONALD & ELIZABETH DOBBS	TH EXPLORATION, LLC	1/8+	924 107	N/A	N/A	N/A
10*15477	M	9-14-18	RONALD A WYCINSKI	TH EXPLORATION LLC	1/8+	906 241	N/A	N/A	N/A
10*16680	M	9-14-18	RONALD J AND JENNIFER CHAMBERS FICCA	TH EXPLORATION LLC	1/8+	924 186	N/A	N/A	N/A
10*16990	M	9-14-18	ROSEMARY H BEAVERS	TH EXPLORATION, LLC	1/8+	923 152	N/A	N/A	N/A
10*17664	M	9-14-18	RUDOLPH H PARSONS	TH EXPLORATION, LLC	1/8+	923 511	N/A	N/A	N/A
10*16952	M	9-14-18	RUSSELL D HERVEY	TH EXPLORATION, LLC	1/8+	924 132	N/A	N/A	N/A
10*47051.325.5	M	9-14-18	SAMUEL ALAN MCCORD AND WINIFRED A MCKEE	TH EXPLORATION LLC	1/8+	906 232	N/A	N/A	N/A
10*16733	M	9-14-18	SARAH L BISHOP	TH EXPLORATION LLC	1/8+	924 172	N/A	N/A	N/A
10*47051.325.7	M	9-14-18	SHERON JONES	TH EXPLORATION, LLC	1/8+	906 237	N/A	N/A	N/A
10*16533	M	9-14-18	SHIRLEY ANN DOBBS	TH EXPLORATION, LLC	1/8+	906 469	N/A	N/A	N/A
10*17703	M	9-14-18	SHIRLEY N COX	TH EXPLORATION, LLC	1/8+	923 498	N/A	N/A	N/A
10*16949	M	9-14-18	STEVEN R AND BRIANNE L UTT	TH EXPLORATION, LLC	1/8+	924 138	N/A	N/A	N/A
10*17701	M	9-14-18	SUE ANN WORD	TH EXPLORATION, LLC	1/8+	923 470	N/A	N/A	N/A
10*17702	M	9-14-18	TAMMY BETH RAMSEY	TH EXPLORATION, LLC	1/8+	925 500	N/A	N/A	N/A
10*16967	M	9-14-18	TARA JEANNE MINOR AND JENNIFER A KNAPP	TH EXPLORATION, LLC	1/8+	914 612	N/A	N/A	N/A
10*16534	M	9-14-18	TERRY LEE LASAVAGE	TH EXPLORATION, LLC	1/8+	906 443	N/A	N/A	N/A
10*17667	M	9-14-18	THOMAS BRIAN WARRICK	TH EXPLORATION, LLC	1/8+	923 509	N/A	N/A	N/A
10*47051.325.6	M	9-14-18	THOMAS O MCCORD	TH EXPLORATION, LLC	1/8+	906 235	N/A	N/A	N/A
10*47051.325.2	M	9-14-18	TIMMY LEE STOUT AND DOROTHY MARIE STOUT	TH EXPLORATION, LLC	1/8+	906 222	N/A	N/A	N/A
10*17560	M	9-14-18	TREVOR HOOKS	TH EXPLORATION, LLC	1/8+	924 110	N/A	N/A	N/A
10*17134	M	9-14-18	UNITED CHRISTIAN MISSIONARY SOCIETY	TH EXPLORATION, LLC	1/8+	924 144	N/A	N/A	N/A
10*17617	M	9-14-18	UNITED DISCIPLES OF CHRIST CHURCH	TH EXPLORATION, LLC	1/8+	924 129	N/A	N/A	N/A
10*17881	M	9-14-18	WAYLON L & ANGELA J MURPHEE	TH EXPLORATION, LLC	1/8+	924 555	N/A	N/A	N/A
10*16490	M	9-14-18	WILLIAM H AND MERRY C COTTON	TH EXPLORATION, LLC	1/8+	924 176	N/A	N/A	N/A
10*17767	M	9-14-18	WILLIAM K & LINDA J MERRITT	TH EXPLORATION, LLC	1/8+	923 474	N/A	N/A	N/A
10*16965	M	9-14-18	WILLIAM L WRIGHT AND CAROLINA WRIGHT	TH EXPLORATION, LLC	1/8+	914 524	N/A	N/A	N/A



Well Site Safety Plan

Tug Hill Operating, LLC

2/5/18

Well Name: Heaven Hill 3-5HM

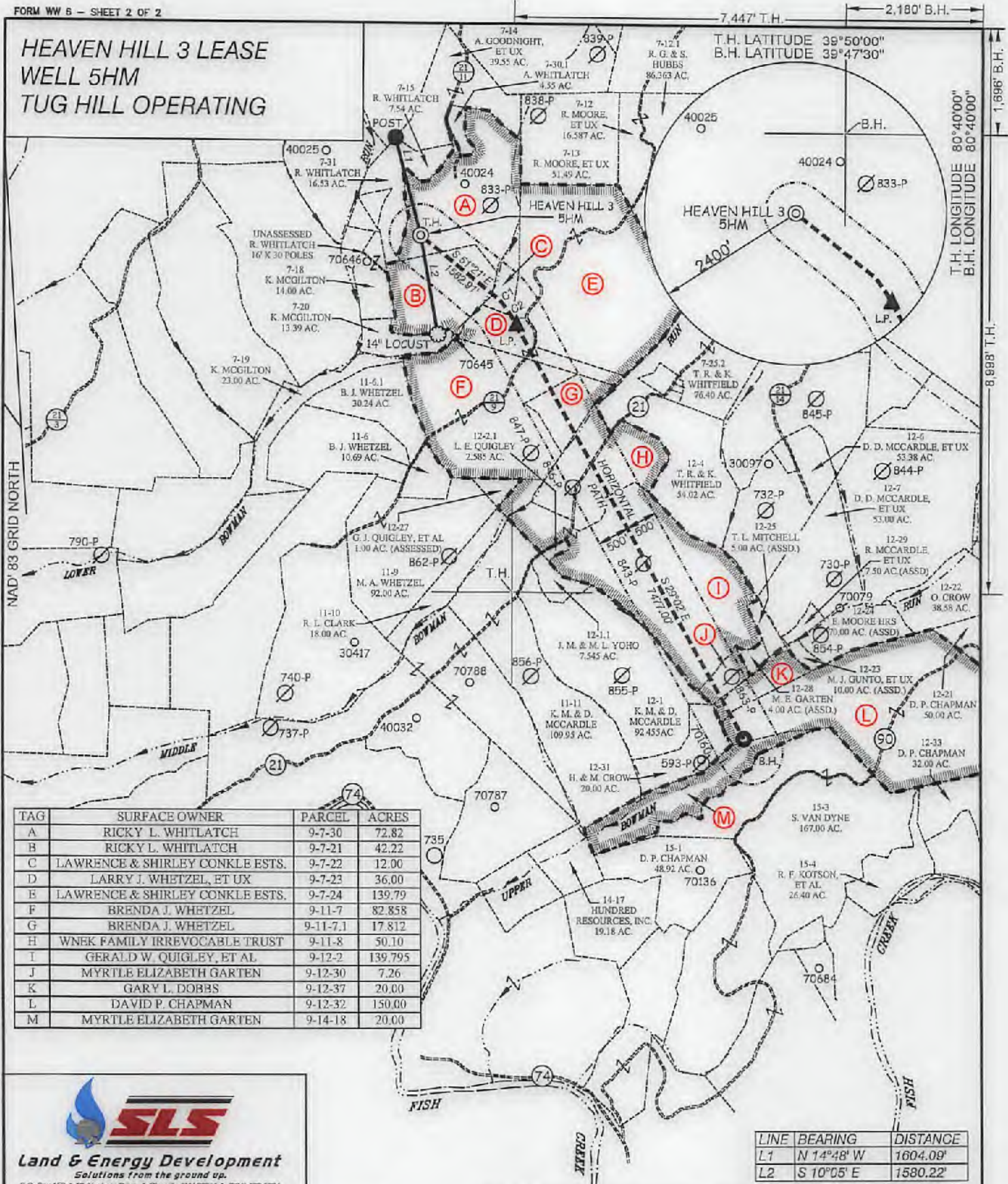
Pad Location: Heaven Hill 3

Marshall County, West Virginia

UTM (meters), NAD83, Zone 17:
Northing-4,406,562.70
Easting -526,263.54

February 2018

**HEAVEN HILL 3 LEASE
WELL 5HM
TUG HILL OPERATING**



TAG	SURFACE OWNER	PARCEL	ACRES
A	RICKY L. WHITLATCH	9-7-30	72.82
B	RICKY L. WHITLATCH	9-7-21	42.22
C	LAWRENCE & SHIRLEY CONKLE ESTS.	9-7-22	12.00
D	LARRY J. WHETZEL, ET UX	9-7-23	36.00
E	LAWRENCE & SHIRLEY CONKLE ESTS.	9-7-24	139.79
F	BRENDA J. WHETZEL	9-11-7	82.858
G	BRENDA J. WHETZEL	9-11-7.1	17.812
H	WNEK FAMILY IRREVOCABLE TRUST	9-11-8	50.10
T	GERALD W. QUIGLEY, ET AL	9-12-2	139.795
J	MYRTLE ELIZABETH GARTEN	9-12-30	7.26
K	GARY L. DOBBS	9-12-37	20.00
L	DAVID P. CHAPMAN	9-12-32	150.00
M	MYRTLE ELIZABETH GARTEN	9-14-18	20.00

P.O. Box 150 | 12 Vanhorn Drive | Glenville, WV 26031 | (304) 452-5534
www.slsurveys.com

P.S. 677
Gregory A. Smith

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'83 S.P.C. (FT)	N. 478,871.18	E. 1,633,313.44
NAD'83 GEO.	LAT: (N) 39.809893	LONG: (W) 80.693174
NAD'83 UTM (M)	N. 4,405,562.70	E. 528,263.54

LANDING POINT

NAD'83 S.P.C. (FT)	N. 477,483.4	E. 1,634,847.7
NAD'83 GEO.	LAT: (N) 39.804824	LONG: (W) 80.697647
NAD'83 UTM (M)	N. 4,405,141.6	E. 525,738.1

BOTTOM HOLE

NAD'83 S.P.C. (FT)	N. 470,925.5	E. 1,638,477.3
NAD'83 GEO.	LAT: (N) 39.787010	LONG: (W) 80.674425
NAD'83 UTM (M)	N. 4,404,168.6	E. 527,877.2

SCALE 1" = 2000' FILE NO. 8854P5HMR.dwg

DATE JUNE 30, 20 17

REVISED FEBRUARY 2, 20 18

OPERATORS WELL NO. HEAVEN HILL 3-5HM

API WELL NO. 47 — 051 — 01948

STATE COUNTY PERMIT



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

MOD

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

LEGEND

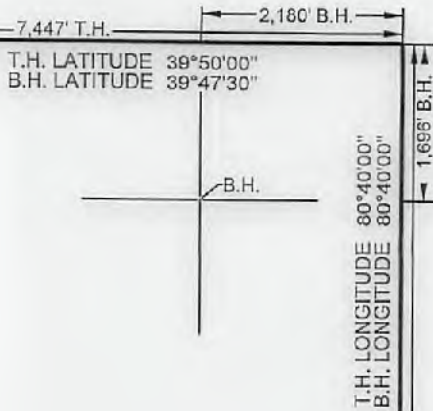
LEASE LINE	
SURFACE LINE	
WELL LATERAL	
OFFSET LINE	
TIE LINE	
CREEK	
ROAD	
COUNTY ROUTE	
PROPOSED WELL	
EXISTING WELL	
PERMITTED WELL	
TAX MAP-PARCEL	00-00
LEASE # (SEE WW-6A1)	(A)
SURFACE OWNER (SEE TABLE)	

WELL OPERATOR TUG HILL OPERATING, LLC	DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500	ADDRESS CT CORPORATION SYSTEM
FORT WORTH, TX 76107	5400 D BIG TYLER ROAD
	CHARLESTON, WV 25313

COUNTY NAME PERMIT

03/02/2018

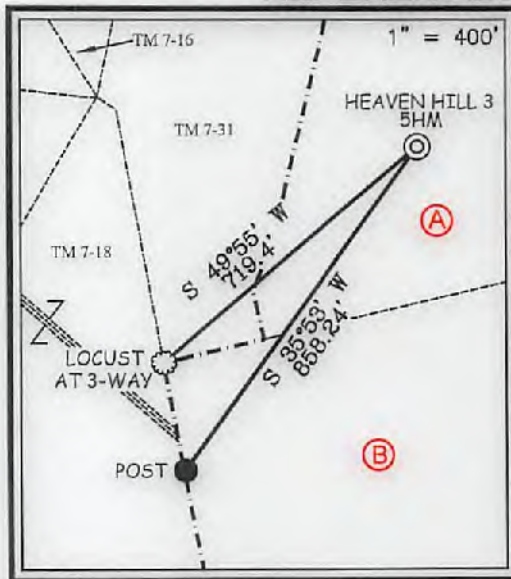
**HEAVEN HILL 3 LEASE
WELL 5HM
TUG HILL OPERATING**



(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)		
NAD'83 S.P.C.(FT)	N. 478,871.18	E. 1,633,313.44
NAD'83 GEO.	LAT-(N) 39.808633	LONG-(W) 80.693174
NAD'83 UTM (M)	N. 4,408,562.70	E. 526,263.54
LANDING POINT		
NAD'83 S.P.C.(FT)	N. 477,463.4	E. 1,634,847.7
NAD'83 GEO.	LAT-(N) 39.804824	LONG-(W) 80.687647
NAD'83 UTM (M)	N. 4,408,141.8	E. 526,738.1
BOTTOM HOLE		
NAD'83 S.P.C.(FT)	N. 470,926.5	E. 1,636,477.3
NAD'83 GEO.	LAT-(N) 39.787010	LONG-(W) 80.674425
NAD'83 UTM (M)	N. 4,404,168.6	E. 527,877.2



REFERENCES



NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS \geq 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF PROPOSED WELL PAD.
2. WELL SPOT CIRCLE & TOPO MARK SCALE IS 1"=2000'

P.O. Box 150 • 12 Vanhorn Drive • Glenville, WV 26351 • (304) 402-5954
www.slsurveys.com

I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
DATE JUNE 30, 20 17
REVISED FEBRUARY 2, 20 18
OPERATORS WELL NO. HEAVEN HILL 3-5HM
API WELL NO. 47-051-01948 *#to A MOD*
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 8654P5HMR.dwg
HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION GROUND = 1,342.20' PROPOSED = 1,326.35' WATERSHED LOWER BOWMAN RUN OF FISH CREEK (HUC 10)
DISTRICT MEADE COUNTY MARSHALL QUADRANGLE GLEN EASTON 7.5'

SURFACE OWNER RICKY L. WHITLATCH ACREAGE 72.82±
ROYALTY OWNER RICKY L. WHITLATCH, ET AL - SEE WW-6A1 ACREAGE 72.82±

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION MARCELLUS
ESTIMATED DEPTH TVD: 6,876' / TMD: 14,866'

WELL OPERATOR TUG HILL OPERATING, LLC DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1320 SOUTH UNIVERSITY DRIVE, SUITE 500 ADDRESS 5400 D BIG TYLER ROAD
FORT WORTH, TX 76107 CHARLESTON, WV 25313

COUNTY NAME PERMIT

03/02/2018