

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 Earl Ray Tomblin , Governor Randy C. Huffman , Cabinet Secretary www.dep.wv.gov

Wednesday, August 03, 2016 WELL WORK PERMIT Vertical / Re-Work - 2

EQUITRANS, L. P. 625 LIBERTY AVENUE SUITE 1700

PITTSBURGH, PA 152220000

Re: Permit approval for LAWLIS 8271

47-049-01940-00-00

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: LAWLIS 8271
Farm Name: CONSOLIDATION COAL CO

U.S. WELL NUMBER: 47-049-01940-00-00

Vertical / Re-Work - 2

Date Issued: 8/3/2016

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

CONDITIONS

- 1. 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 §22-6-20, 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 fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced, drilling ceased, completion of any other permitted well work and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 2B (Rev. 8/10)

\$ 650.00

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

ator ID	County	District	
			Quadrangle
	3) Elevation:	1021	
nd Stor X	rage X	-	
on at P	Proposed Tar Proposed Tota	al Depth: Keen	er Sand
? Y	es, but already l	ongwall mined	_
	21		
PF	PROGR	PROGRAM	detail (attach additional sheets if need buttom of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to bottom of 7" casing and center of 4.5" tubing to 4.5" tubing to 4.5" tubing the 4.5" tubing

TYPE S	SPECIFIC	ATIONS		FOOTAGE	INTERVALS	CEMENT
	Size	<u>Grade</u>	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	16"	N/A	N/A	30' MD		
Fresh Water	13-3/8"	N/A	N/A	80' MD	80' MD	562 Cu. Ft.
Coal	9-5/8"	J-55	40#	808' MD	808' MD	262 Cu. Ft.
Intermediate	7"	J-55	23#	2345' MD/2023' TVD	2345' MD/2023' TVD	393 Cu. Ft.
Production	4-1/2"	J-55	11.6#	2280' MD/1967' TVD	2280' MD/1967' TVD	267 Cu. Ft.
Tubing				1		
Liners					Office of	EIVED

Packers: Kind: Cementing Packer Shoe

Sizes: 4-1/2" X 7" JUL 1 9 2016

Depths Set 1967' TVD

WW-2B1	
(5-12)	

Well No.	47-049-01940
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West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Labora Sampling Contr	· · · · · · · · · · · · · · · · · · ·	
, -		
14/ 11 0		
Well Operator	Equitrans LP	
Address	Equitrans LP 625 Liberty Ave.	
•		

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one property have selected to sample and analyze. If there are no water wells or springs within 1000 less of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site. Oil & Gas

Potential Water Sample Data Sheet

Well: 47-049-00224 (606188) EQT

County: Marion

District: Mannington

Well Location 39.517957 -80.440463

Quad: Glover Gap

5 Potential water wells within 1000'

- 1. 917' H. Batson, 484 Curtisville Road, Mannington WV 26582
- 2. 766' Well #1, B. Stull, 493 Curtisville Road, Mannington WV 26582
- 3. 842' Well #2, B. Stull, 493 Curtisville Road, Mannington WV 26582
- 4. 630' Well #3, B. Stull, 493 Curtisville Road, Mannington WV 26582
- 5. 808' Well #4, B. Stull, 493 Curtisville Road, Mannington WV 26582

Office of Oil & Gas
JUN 21 2016

Topo Quad: Glover Gap Scale: N/A Date: 4/15/2016 County: Marion Mannington District: Project No:_____ Water 47-049-00224 (WV 606188) 12-49-37 12-49-40 12-48-15 12-50-12 12-49-39 12-48-14 Site #1 Site #5 12-50-15 Site #4 Site #2 12-48-8 2-48-11 12-50-14 Site #3 12-48-10 2-48-11 47-103-00841 WV601769 12-48-9 12-48-10 5 Potential water wells within 1000' 12-50-13 Lat: 39.5180416 Lon: 80.44027 Gas 12-51-6 JUN 21 29.8 12-50-21 Copyright © 2013 National Geographic Society, Joubed Equitrans L. P. 303 Sand Cut Road Clarksburg, WV 26301 08/05/2016 WORKOVER OF GAS STORAGE WELL 608271 IN LOGANSPORT STORAGE

2016

Workover Procedure

SITE PREPARATION

Field reconnaissance

Acquire necessary road bonding and driveway permits

Install all necessary erosion control measures

Upgrade existing well access roads

Upgrade existing well sites to accommodate service rig and ancillary equipment

FIELD WORK

MIRU wireline and run multi-finger caliper

Dig sump around wellhead and install liner

Move in and rig up mud pump and above ground pit for well control

Move in and rig up service rig and ancillary equipment

Install annular BOP on 7" casing

Rig up mill, BHA, collars and work string to mill out deformed production string as close to original ID as possible (7" 20#, J-55, ID 6.456")

MIRU wireline and run multi-finger caliper

Fill pit with weighted killed fluid, load hole with weighted fluid and have pumps on

standby ABOVE GROUND STEEL PIT

Drill out cement plug, and fish inflatable bridge plug and lost downhole pressure gauge

Install 4.5" X 7" casing hanger and pump in tee

Run 4.5" casing with packer shoe and centralizers

MIRU cementing unit

Cement 4.5" casing to surface with Class A cement with 10% excess

Pump wiper plug with latch down

Shut in well and wait on cement for 12 hours

Install 4-1/16" 2M gate valve

MIRU coiled tubing and wireline

Convey segmented bond log on coiled tubing - log 4.5" casing

Convey High Resolution MicroVertolog on coiled tubing - log 4.5" casing

RDMO wireline

Drill out wiper plug with coiled tubing and down motor

Rig up cleaning tool on bottom of coiled tubing

Trip in hole with coiled tubing unloading hole while tripping in and clean openhole section to TD

Dry up hole with nitrogen from TD to surface

Flow back well until nitrogen is removed

RDMO coiled tubing

Perform wellhead tie-in to pipeline

Purge well and pipelines and turn well back inline

SITE RECLAMATION

Reclaim access road and well site

Remove culverts and stone aggregate

Reclaim to original grade, seed and mulch

PERMITTING

Submit final completion report to the WVDEP Oil & Gas Division

WR-35 Rev. 8/23/13 Page 1 of 4

State of West Virginia Department of Environmental Protection - Office of Oil and Gas Well Operator's Report of Well Work

API 47 049 01940	County Marion	Dist	rict Manningto	on
Quad Glovers Gap 7.5'	Pad Name Lawlis		d/Pool Name L	
Farm name John Lawlis			ll Number 608	
Operator (as registered with the OOG)	Equitrans, L.P.			
Address 625 Liberty Ave.	City Pitts	burgh	State PA	Zip 15222
	Northing 4374436.7		548122.5	
	Northing 4374360.7		547965.1	
Bottom Hole	Northing <u>4374112.0</u>	Easting	547432.0	
Elevation (ft) 1021' GL	Type of Well	New DExisting	Type of Report	□Interim ■Final
Permit Type 🗆 Deviated 💄 H	orizontal Horizont	al 6A 🛮 Vertical	Depth Type	□ Deep 💄 Shallow
Type of Operation □ Convert □ I	Deepen ■ Drill □	Plug Back	Rework	□ Stimulate
Well Type □ Brine Disposal □ CBM	M □ Gas □ Oil □ Seco	ondary Recovery	on Mining A St	torage 🗆 Other
Type of Completion ■ Single □ Mu	Itiple Fluids Produc	ed □ Brine ■Gas □	NGL □ Oil	□ Other
Drilled with □ Cable ■ Rotary	100000000000000000000000000000000000000			
Drilling Media Surface hole Air Production hole Air Mud Mud Type(s) and Additive(s) Bentonite with KCI	r □ Mud □Fresh Wat □ Fresh Water □ Brine		∄ Air □ Muo	d □ Fresh Water □ Brine
2/20/2009		10/14/2009		11/9/2009
Date permit issued3/20/2008	Date drilling comm		_ Date drilling	
Date completion activities began		Date completion activities		
Verbal plugging (Y/N) N	Date permission granted		Granted by	
Please note: Operator is required to s	ubmit a plugging applica	ation within 5 days of verba	al permission to	plug
Freshwater depth(s) ft	746'	Open mine(s) (Y/N) depth	ns	N
	1220'	Void(s) encountered (Y/N		N
	40'	Cavern(s) encountered (Y	11 75	N N
Is coal being mined in area (Y/N)	Υ		KECEI	and Gas Reviewed by:

JUL 1 9 2016 -

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Rev. 8/23/13									1 age 01
API 47- 049	01940	Farm n	ame_John Lav	wlis		We	ell number_608	3271	
CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft		Basket Depth(s)		ent circulate (Y/N) le details below*
Conductor	17.5"	16"	30'	New		N/A	Jepin(s)		id not cement
Surface	14.75"	13.375"	80'	New		N/A			Υ
Coal	12.375"	9.625"	808'	New	J-5	5 40#		-	Y
Intermediate 1									
Intermediate 2						-			
Intermediate 3									
Production	8.75"	7"	2345'	New	J-5	5 23#	1620', 2315'		Y
Tubing									
Packer type and dep	pth set								
Comment Details CEMENT	Class/Type	Numbe	er Slum		Yield	Volum	e Ceme		woo
DATA	of Cement	of Sack		pg) (f	t³/sks)	(ft.2)			WOC (hrs)
Conductor									
Surface	Class A nea	it 100				562	Surfa	ice	8
Coal	Class A	280	14.	7	1.41	393	Surfa	ice	8
Intermediate 1	45-0								
Intermediate 2									
Intermediate 3									
Production	Class A	320	14.	7	1.41	449	Surfa	ice	18
Tubing						2			
Drillers TD (ft) Deepest formati Plug back proc	ion penetrated	Big Injun ack vertical hole from 2	180' to 1223' with 208	Loggers T Plug back B sacks (225 Cu. 1	to (ft) 12	23' TVD	n a yield of 1.08		
Kick off depth (≣ caliper ≝ neutron	density resistivity		ed/directi a ray		induction temperature	≜sonic	s
Well cored 🛚	Yes 🖪 No	Conventi	onal Side	wall	W	ere cuttin	gs collected	Yes =	No No
DESCRIBE TH		IZER PLACEM 36.	ENT USED FO	OR EACH C	ASING S	TRING _	Total of 18 centralizer	s on product	ion string on joints:
WAS WELL C	OMPLETED ,	AS SHOT HOL	E □ Yes #	No D	ETAILS	-			
WAS WELL C	OMPLETED	OPEN HOLE?	∄ Yes □ N	No DET	AILS 2	345' MD to 438	55' MD in the Keener	Sand RECEI	VED
		are 12 96 -	Toronto de la companya del companya de la companya del companya de la companya de	2011	Walter Co.				and Gas
WERE TRACE	ERS USED C	Yes ■ No	TYPE OF T	racer(s)	USED _		00	0, 01	and Gas

Page 3 of 4

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					17540
		Land to the second seco			

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units
								7
								Troter Live
								e-cular state
-								
			1122111					
			- Him bi w i					
			O-Manager Co.					
						-		
_								
							RECEN	

Please insert additional pages as applicable.

Office of Oil and Gas

JUL 1 9 2016

WR-35 Rev. 8/23/13									Page 4 of 4
	_ 01940	Farm	name_John Lav	wlis		Well n	umber_	30827	71
PRODUCING	FORMATION(S	<u>S)</u>	<u>DEPTHS</u>						
Keener			2029'-2056'	TVD		MD			
DI	on the same was so					_			
	ditional pages a								
GAS TEST	□ Build up □	Drawdown	□ Open Flow	0	IL TEST 🗆 I	Flow 🗆	Pump		
SHUT-IN PRE	SSURE Surf	ace 1000	_psi Botto	m Hole	psi	DURAT	ION O	F TES	Γ hrs
OPEN FLOW			NGL bpd			GAS M	EASUI	RED B	Y fice Dilot
LITHOLOGY/ FORMATION	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	TOP DEPTH IN FT	BOTTOM DEPTH IN FT	DESCRIBE	OCK TVE	E AND I	ECOPI	O QUANTITYAND
ORWATION	NAME TVD	TVD	MD	MD					NE, OIL, GAS, H ₂ S, ETC)
	0	1,15	0	, mo	11100111	OID (TREE	71.117.11	it, Ditti	VE, OIE, 0/10, 1120, E1C)
Pittsburgh Coal	740	746							
1st Gas Sand	1348	1376							
1st Salt Sand	1434	1515			-				
2nd Salt Sand	1582	1631							
Maxton	1918	1963							
Big Lime	1976	2026							
Keener	2029	2056							
Big Injun	2063	2154							
Please insert ad	lditional pages a	s applicable.			1				
Dailling Contro	ctor Highland D	rilling							
Address 900 Vir	rginia Street East	iming	City	Charleston		State	w	Zip	25301
		11:					-	-	
	any Schlumberg	ger							Section .
Address 229 Ca	apital Street		City	Charleston		State	wv	_Zip	25301
Cementing Cor	mpany Halliburto	on							Code.
Address New Ja	ackson S Mill Road		City	Jane Lew		State	W	_ Zip	26378
Stimulating Co	mpany								
Address			City			State		_ Zip	
Please insert ac	lditional pages a	as applicable.							
Completed by	Brian A. Hall	-		enior Storage S	Telephone	304-627	-6419 Date 7	SE:	RECEIVED of Oil and Go
Signature	7/								CONTRACTOR AND ADDRESS OF THE PARTY AND ADDRES

4901940W

WEST VIRGINIA GEOLOGICAL PROGNOSIS

Horizontal Well

Well #8271 (H2) Lawless Lease

Drilling Objectives:

Keener Sand (Storage)

Quad: Elevation: Glover Gap 7.5 min.

1031 KB

County:

Recommended Azimuth

245 Degrees

1021 GL Recommended total wellbore length: 2500'

Marion

Proposed Logging Suite:

Recommend LWD while drilling lateral, log suite TBBD

Mudloggers to be on location at kickoff point to run samples and measure gas

thru both the curve and lateral sections.

Recommended Gas Tests:

FSTIMATED FORMATION TORE

Formation	Top(TVD)	Base (TVD)	Comments	Top(MD) Base (MD)
Fresh Water Zone	1	748		
Pittsburgh Coal	742	748		
1st Gas Sand	1455	1509		
1st Salt Sand	1539	1632		
- 1st Salt Sand-A	1539	1547		
- 1st Salt Sand-B	1581	1608	\ \	ľ
- 1st Salt Sand-C	1613	1632	11 8	
2nd Salt Sand	1733	1795	$\nabla \mathcal{L} = 0$	
- 2nd Salt Sand-A	1733	1763	() ()	
- 2nd Salt Sand-B	1772	1783	$\bigcup \ \langle v \rangle$	
- 2nd Salt Sand-C	1787	1794		
Maxton Sand	1913	1971	`5	
Big Lime	1993	2036	U	
Keener	2036	2062	Storage Zone	
- Lateral Target	. 2049	2095		
Big Injun	2070	-		1

Comments: All measurements taken from estimated KB elevation. Base of fresh water and coal estimated from surrounding data Intermediate casing point is recommended to be set at the bottom of the curve to shut off any water production from the Salt Sand and Maxton Sand. The well is planned to drill laterally along the middle of the Keener Sand, the storage zone for this area. Structurally, the formations are expected to plunge approximately 45' along the wellbore length, so the wellbore will need to drop angle along the planned

RECOMMENDED CASING POINTS

9.5/8" casing:

CSG OD **CSG DEPTH:**

50' below base of coal & fresh water

Intermediate (thru curve):

Production: CSG OD

CSG DEPTH:

set at bottom of curve

shut off salt water

L. J. Morris

7/9/2007

Office of Oil & Gas

MAR 13 2008

WV Department of Environmental Protesti2016

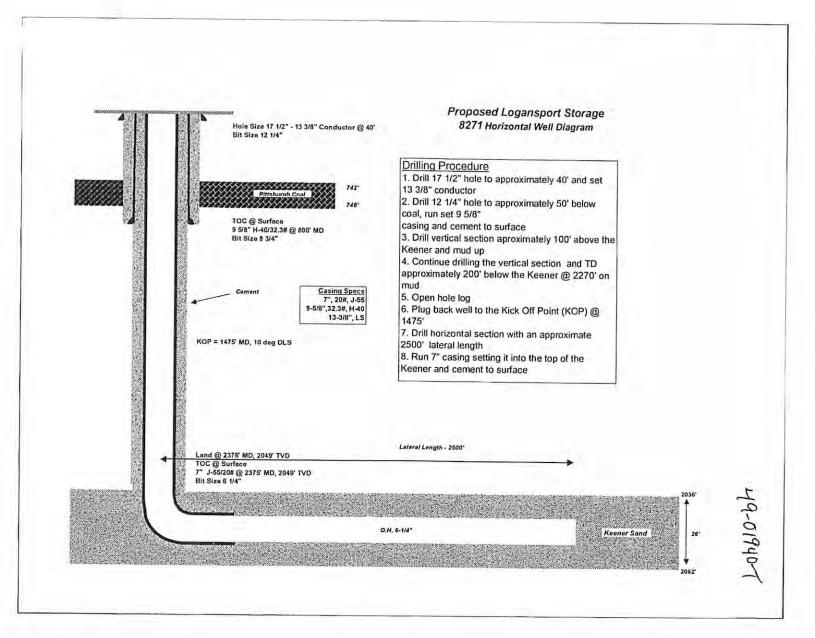
49-01940-1

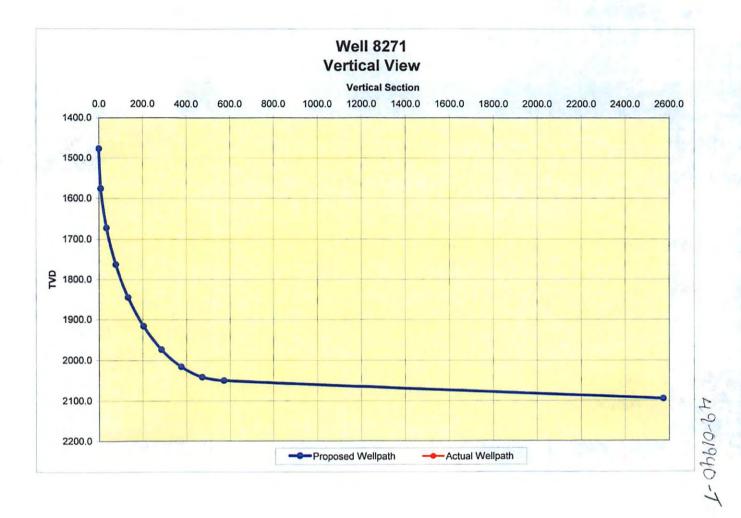
Well Schematic Equitable Resources

Well Name # 8271 **Elevation GL:** County Marion Target Keener Sand State w Prospect Logansport Storage MEASURED DEPTH O' Hole Size 17 1/2" - 13 3/8" Conductor @ 40" Bit Size 12 1/4" 500 -TOC @ Surface 748' Fresh Water 9 5/8" H-40/32.3# @ 800' MD 742' Pittsburgh Coal Bit Size 8 3/4" 1,000 — 1,500 - 1455' 1st Gas Sand KOP = 1475' MD, 10 deg DLS 1539' 1st Salt Sand A 1581' 1st Salt Sand B 1613' 1st Salt Sand C 1733' 2nd Salt Sand A 2,000 __ 1772' 2nd Salt Sand B 1787' 2nd Salt Sand C 1913' Maxton Sand 1993' Big Lime Land @ 2375' MD, 2049' TVD 2036' Keener TOC @ Surface 2,500 — 2070' Big Injun 7" J-55/20#@ 2375' MD, 2049' TVD Bit Size 6 1/4" 3.000 --3,500 -4,000 -TD @ 4375' MD, 2095' TVD 4.500 -

For lossing only Plugback over Keener Set whipstock Edrill

horizontal hole. to MPOPUBYS





Longitude: -80.44033 Coordinate System: NAD 83 LONG. 80°26'25.9" -6,680 /LATITUDE 39°32'30' JOHN LAWLIS ET UX LEASE 80°25'00' 80 ACRES± DORIS THORNE BERDINE ERICO. DUNCAN 117.5 AC.± - 23.5 AC.± (SURFACE) FENCE POST (SURFACE) S 83'36' E IGITUDE ROGER L. &
PAULINE A. ELSHELMAN
25.09 AC±
(SURFACE) WILLARD J. & TO LOGANSPORT KAREN L. WOLFE 46.83 AC± ALLEN L CONSOLIDATION COAL (7): HILLBERRY (SURFACE) 18.18 AC.± (SURFACE) (SURPACE) RICHARD L. & WILLARD J. & KAREN L. CONSOLIDATION BRENDA D. LAMBERT WOLFE 0.873 AC.± 26 61 AC 4: GURGACE) (SURFACE) (SURFACE) RICHARD L. & WELL NO. 8271 STATE PLANE BRENDA D. LAMBERT 4.546 AC.± COORDINATES REBAR (SURFACE) LAWLIS 71 ACRE ȚCT. (FOUND) SURFACE LOCATION (N) 372,182 (E) 1,734,671 WELL LAUREN G. CONSOLIDATIO NORT COAL CO 15.62 AC.± MUSGRAVE 47 AC± BOTTOM HOLE COORDINATES (N) 371,126 (E) 1,732,405 (SURPACE) (SURFACE) WELL NO. WELL NO. 8271 BOTTOM HOLE OWEN 47-049-0221 NOTES ON SURVEY REFERENCES 1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE BASED ON GRID NORTH FOR THE WY SIAIR PLANE COORDINATE SYSTEM NORTH ZONE NAD '27.

2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 04/16/07.

3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM ORIGINAL PLAT FOR WELL APIF 47-049-0224 DATED APRIL 10, 1951 BY KENNETH B. MOORE.

4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF MARION COUNTY OLERK RECORDS OF MARION COUNTY IN JULY, 2006.

5. WELL LAT./LONG. ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

6. PER PHONE CONVERSATION WITH EQUITARNS ON 05/15/07 THE BOTTOM HOLE LOCATION OF PROPOSED GAS WELL BZ71 IS COMPLETELY WITHIN THE LOGANSPORT STORAGE FIELD. 202 WELL NO. 8271 S 1021P WELL NO. 8271 RISER LABLÉD 224 207 47-049-0224 221 DAVY WELL TAGGED 668 IN FIELD APPEARS TO BE WRONG MOOS = 50' (+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS Gas ORY A STATE I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY DATE MAY 15 No. 677
STATE OF STAT KNOWLEDGE AND BELIEF AND SHOWS ALL OPERATORS WELL NO. 2 1 2006 THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION. WELL 049 01940 COUNTY PERMIT STATE STATE OF WEST VIRGINIA FILE NO. 5301P8271 (223 - 69) MINIMUM DEGREE 1/2500 OF ACCURACY DIVISION OF ENVIRONMENTAL PROTECTION 1" = 500" SCALE PROVEN SOURCE OFFICE OF OIL AND GAS DGPS (SUBMETER MAPPING GRADE) OF ELEVATION WASTE LIQUID WELL "GAS" PRODUCTION_____ STORAGE_X_ DEEP___ ___ SHALLOW_ INJECTION DISPOSAL TYPE: OIL WATERSHED OWEN DAVY FORK OF BUFFALO CREEK LOCATION: 1,021 ELEVATION _ **GLOVER GAP 7.5**° COUNTY MARION QUADRANGLE MANNINGTON DISTRICT $17.50 \pm$ CONSOLIDATION COAL COMPANY ACREAGE SURFACE OWNER -80± ₹ WILLIAM M. BURNSIDE, ET AL LEASE ACREAGE ROYALTY OWNER _ 24832 08/05 LEASE NO. PROPOSED WORK: PLUG OFF-OLD FRACTURE OR STIMULATE. REDRILL DRILL DEEPER . CONVERT CLEAN OUT AND REPLUG. _OTHER_X PLUG AND ABANDON. PERFORATE NEW FORMATION. FORMATION_ **BIG INJUN & KEENER** TARGET FORMATION _ PERMIT "CLEAN UP THROUGH BIG INJUN PHYSICAL CHANGE IN WELL (SPECIFY) 2,095 ESTIMATED DEPTH. AND ACIDIZE KEENER WILLIAM HOSTUTLER EQUITRANS, L.P. DESIGNATED AGENT. WELL OPERATOR P.O. BOX 1550 225 NORTHSHORE DRIVE ADDRESS . **ADDRESS** CLARKSBURG, WV 26302 PITTSBURGH, PA 15212

Latituuc, Jo.J to to

WW-2A1 (Rev. 1/11)

Sperator 5 VVCII INGITIDE	0	perator's	Well	Number	60827
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INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) 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:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
John Lawlis & Arsula Lawlis	South Penn Oil Company	Flat Fee	156/218
South Penn Oil Company	Equitable Gas Company	W.i.	Conveyed by Sales Agreement
Equitable Gas Company	Equitable Resources, Inc.	W.I.	By Articles of Incorporation 7/30/84
Equitable Resources, Inc.	Equitrans, Inc.	W.L	by Articles of Incorporation 1/20/85

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

The per mit app licant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for per mits 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:

RECEIVED

Office of Oil and Gas

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

JUL 18 2016

WV Department of Environmental Protection

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need f or other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be ac quired f rom the appr opriate aut hority bef ore t he af fected activity is initiated.

Well Operator: By:Its: Equitrans LP

Justin Macken: VP Gas Systems Planning

WW-2	2A
(Rev.	6-14)

1). Date: 4/15/2016

2.) Operator's Well Number

608271 County

049

Permit

3.) API Well No.:

State 47-

01940

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

	vner(s) to be served:	5) (a) Coal Op	erator
(a) Name	Consol Mining Co. LLC ~	Name	Murray Energy Corporation
Address	1000 Consol Energy Dr.	Address	46226 National Road
	Cannonsburg, PA 15317		St. Clairsville, OH 43950
(b) Name		(b) Coal O	wner(s) with Declaration
Address		Name	
		Address	
(c) Name		Name	
Address	·	Address	
Address	-	Address	-
6) Inspector	Bill Hendershot	(c) Coal Le	essee with Declaration
Address	403 James Street	Name	
	Mannington, WV 26582	Address	
Telephone	304-206-7750		
	TO THE PERSONS N	AMED ABOVE T	AKE NOTICE THAT:
	he lease or leases or other continuir	ng contract or contra	acts by which I hold the right to extract oil and gas
<u>OR</u>			
			n 8(d) of the Code of West Virginia (see page 2)
	that as required under Chapter 22-	6 of the West Virg	inia Code I have served conies of this notice and
	그리 살아 보다 아들이 되었다. 그 아름은 사람들이 들어지면 하는데 하는데 하는데 하는데 하는데 하는데 하는데 되었다.		
application, a loc		ments pages 1 thro	ugh on the above named parties by:
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application, a loc	Personal Service (Affidavit att Certified Mail (Postmarked po	ments pages 1 thro cached) estal receipt attache	ugh on the above named parties by:
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The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a 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 of your personal information, please contact DEP's Chief Privacy Office 40/05/2016 depprivacyofficer@wv.gov

API Number	47 -	049	-	01940

Operator's Well No. 608271

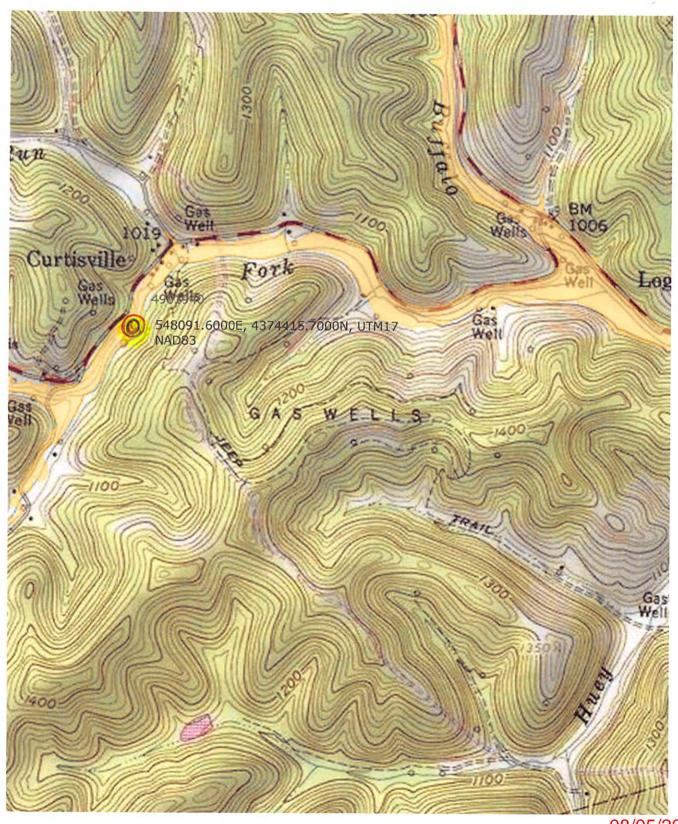
STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OFFICE OF OIL AND GAS

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Equitrans LP	OP Code 307652
Watershed (HUC 10)_Owens Davy Run	Quadrangle Glover Gap
Do you anticipate using more than 5,000 bbls of water to of Will a pit be used? Yes No No No (2)	- ALL COLD LODGE AND AND AND AND LODGE AND
If so, please describe anticipated pit waste: Dri	
Will a synthetic liner be used in the pit? Yes	-
Proposed Disposal Method For Treated Pit Waste	
Land Application	
	Permit Number)
Reuse (at API Number	
Off Site Disposal (Supply form Other (Explain	1 WW-9 for disposal location)
Will closed loop system be used? If so, describe: Yes, ab	pove ground steel pits connected to mud pump and well
Drilling medium anticipated for this well (vertical and hor	rizontal)? Air, freshwater, oil based, etc. Freshwater
-If oil based, what type? Synthetic, petroleum, et	c
Additives to be used in drilling medium? Bentonite clay, Ko	CI, clay stabilization, bactericide, and corrosion inhibitor
Drill cuttings disposal method? Leave in pit, landfill, remo	oved offsite, etc. Landfill
-If left in pit and plan to solidify what medium w	ill be used? (cement, lime, sawdust)
-Landfill or offsite name/permit number? _TBD	
	and Gas of any load of drill cuttings or associated waste rejected at any vided within 24 hours of rejection and the permittee shall also disclose
on August 1, 2005, by the Office of Oil and Gas of the We provisions of the permit are enforceable by law. Violatic law or regulation can lead to enforcement action. I certify under penalty of law that I have perso application form and all attachments thereto and that, obtaining the information, I believe that the information penalties for submitting false information, including the position of the person of the perso	and conditions of the GENERAL WATER POLLUTION PERMIT issued est Virginia Department of Environmental Protection. I understand that the ons of any term or condition of the general permit and/or other applicable enally examined and am familiar with the information submitted on this based on my inquiry of those individuals immediately responsible for its true, accurate, and complete. I am award that there are significant ossibility of fine or imprisonment.
Company Official Signature	NOTARIAL SEAL DEBORAN & SEAL
Company Official (Typed Name) Justin Macken	CITY OF ALL STITLE COLLEGE
Company Official Title VP Gas Systems Planning	CITY OF PITTSBURGH ALLEGHENY COUNTY My Commission Expires Apr 11, 2018
Subscribed and sworn before me this day	
Qt Col	Notary Public
My commission expires 41 11	00/05/2016
	08/05/2016

Operator's Well No. 608271

Equitrans LP			
Proposed Revegetation Treat	tment: Acres Disturbed 0	Prevegetation pl	I
Lime	Tons/acre or to correct to pH	.	
Fertilizer type			
Fertilizer amount_	lbs/ac	re	
Mulch	Tons/acre		
	Seed M	ixtures	
Te	emporary	Perma	nent
Seed Type	lbs/acre	Seed Type	lbs/acre
Photocopied section of involution of involut	ved 7.5' topographic sheet.		
		Circ	ina
			aas
			IN 2 1 2016
Fitle: E WU. romek	Ja 1 Inspector	jų	N 2 1 2016.



RECEIVED Office of Oil and Gas

JUN 23 2016

WW-7 8-30-06



WV Department of Environmental Protection

West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-049-01940	WELL NO.: 608271	
FARM NAME: J. Lawlis		
RESPONSIBLE PARTY NAME: Equitrar	is L.P.	
COUNTY: Marion	DISTRICT: Mannington	
QUADRANGLE: Glover Gap 7.5		
SURFACE OWNER: Consolidation C	oal Company	
ROYALTY OWNER: William M. Burr	nside Et Al	
UTM GPS NORTHING: 4374415.682		:
UTM GPS EASTING: 548091.594	GPS ELEVATION: 311.2008 meters	(10211)
The Responsible Party named above has chosen to preparing a new well location plat for a plugging pabove well. The Office of Oil and Gas will not accepte following requirements: 1. Datum: NAD 1983, Zone: 17 North, Concepte height above mean sea level (MSL) — north above mean sea level (MSL) — n	permit or assigned API number on the ept GPS coordinates that do not meet coordinate Units: meters, Altitude: neters.	
Real-Time Differenti	al	
Mapping Grade GPS X : Post Processed Di	fferential X	
Real-Time Differe		
4. Letter size copy of the topography m I the undersigned, hereby certify this data is correct belief and shows all the information required by la prescribed by the Office of Oil and Gas. Signature Feffet Langt T	et to the best of my knowledge and	-2
Signature reference Countries	Date	