



 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

Wednesday, April 24, 2019

WELL WORK PLUGGING PERMIT
 Vertical Plugging

LAMAR OIL & GAS CO., INC.
 375 HAPPY HOLLOW ROAD

WAVERLY, WV 261840000

Re: Permit approval for MORRIS 1-B
 47-085-07256-00-00

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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. Please be advised that form WR-38, Affidavit of Plugging and Filling Well, 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: MORRIS 1-B
 Farm Name: ECOSYSTEMS INVESTMENT⁺
 U.S. WELL NUMBER: 47-085-07256-00-00
 Vertical Plugging
 Date Issued: 4/24/2019

I

47-085-07256 P

04/26/2019

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. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. 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.
3. Well work activities shall not constitute a hazard to the safety of persons.

04/26/2019

WW-4B
Rev. 2/01

- 1) Date Sept. 26, 2018
- 2) Operator's Well No. Morris 1-B
- 3) API Well No. 47-085-07256

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil / Gas / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow

5) Location: Elevation 674 Watershed Little Kanawha
District Murphy County Ritchie Quadrangle Harrisville

6) Well Operator Lamar Oil & Gas Company 7) Designated Agent CEC - Tim Denicola
Address 375 Happy Hollow Road Address 600 Marketplace Ave. Suite 2
Waverly WV 26184 Bridgeport, WV 26330

8) Oil and Gas Inspector to be notified Name Michael Goff 9) Plugging Contractor Name Hydrocarbon Well Services, Inc.
Address 3045499823 Address PO Box 995
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:
Please see attached plugging prognosis

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Office of Oil and Gas

APR 19 2019

WV Department of
Environmental Protection

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector Michael Goff Date 4/15/19

04/26/2019

PLUGGING PROGNOSIS

Morris # 1B
 API# 47-085-07256
 District, Murphy
 Ritchie County, WV

BY: K. Metz
 DATE: 4/17/18

CURRENT STATUS:**TD @ 4321'****Elevation @ 695'**

16" casing @ 30'
 8 5/8" casing @ 789' (CTS)
 4.5" casing @ 4000'

Fresh Water @ 150'
 Saltwater @ 1200'
 Gas & Oil Show @ None reported
 Coal @ None reported
 Perfs: 3897' - 3860', 3621' - 3658', 3511' - 3521', 3301' - 3321'

WELL WAS FRACKED IN BIG INJUN 5/24/1989. 1 STAGE 1680 - 1684

1. Notify inspector, Michael Goff, @ 304-549-9823, 48 hrs. prior to commencing operations.
2. Check Td with cable tools
3. TIH w/tbg to 4000', set 200 CIA cement plug from 4000' to 3800'. (perfs @ 3897' - 3860')
4. TOOH w/tbg to 3800' gel hole from 3800' to 3700'
5. TOOH w/tbg to 3700', set 250' CIA cement plug from 3700' to 3450'. (perfs @ 3658' - 3621', 3521' - 3511')
6. TOOH w/tbg to 3450' gel hole 3450' to 3370'.
7. TOOH w/tbg to 3370', set 100' CIA cement plug 3370' to 3270'. (perfs @ 3321' - 3301')
8. TOOH w/tbg to 3270', gel hole 3270' to 2000'.
9. TOOH w/tbg, Free point 4.5" casing, cut casing @ free point. TOOH w/csg
10. TIH w/tbg to 2000', set 100' CIA cement plug 2000' - 1900'. (4.5" casing cut estimated 2000'.

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- 11a -
11. TOOH w/tbg to 1900', gel hole 1900' to 1700'. Set 100' CIA cement plug from 1700'-1600'
 12. TOOH w/tbg to 830', set 100' CIA cement plug from 830' to 730', 8 5/8" csg seat @ 789 cts,
 13. TOOH w/tbg to 730', gel hole from 730' to 200'
 14. TOOH w/tbg to 200', set 200' CIA cement plug 200' - 0'
 15. Erect monument with API#, Date plugged
 16. Reclaim location and road to WV-DEP specifications.
- 11 a. GEL HOLE FROM 1600' TO 830'.

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WV Department of
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Michael Daff
4/15/19

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Department of Energy
JUN 2 89
Office of Director
Oil and Gas Division



WR-35

State of West Virginia
DEPARTMENT OF ENERGY
Oil and Gas Division

Date 5/24/89
Operator's Well No. Morris 1-B
Farm Burke Morris
API No. 47-085-7256-F

WELL OPERATOR'S REPORT
OF
DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow X /)
LOCATION: Elevation: 695' Watershed Left Fork MacFarland Creek
District: Murphy County Ritchie Quadrangle MacFarland 7.5'

COMPANY Drilling Appalachian Corp.
ADDRESS P. O. Box 99, Alma, WV 26320
DESIGNATED AGENT Kenneth Mason
ADDRESS PO Box 99, Alma, WV 26320
SURFACE OWNER Westvaco Corp.
ADDRESS #2 Ferguson Dr., Parkersburg,
MINERAL RIGHTS OWNER Kelly Land & Minerals
ADDRESS 258 E. Torrence Rd, Co. mbus,
OIL AND GAS INSPECTOR FOR THIS WORK Annual
ADDRESS Rt 1, Box 240, Hersman
PERMIT ISSUED 4/16/87 Harrisville, WV 26336
DRILLING COMMENCED (refrac only) 5/24/84
DRILLING COMPLETED (refrac only) 5/24/89
IF APPLICABLE: PLUGGING OF DRY HOLE OR
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON

Casing Tubing	Used in Drilling	Left in Well	Cement fill up Cu. ft.
Size 20-16			
Cond. 13-10"			
9 5/8			
8 5/8	789	789	CTS
7			
5 1/2			
4 1/2		4025	
3			
2			
Liners used			

206 SACKS CEMENT

GEOLOGICAL TARGET FORMATION Big Injun (refrac) Depth 1682 feet
Depth of completed well 1682 feet Rotary ✓ Cable Tools
Water strata depth: Fresh 150 feet; Salt 120 feet
Coal seam depths: Is coal being mined in the area? NO

OPEN FLOW DATA

Producing formation BIG INJUN Pay zone depth 1682 feet
Gas: Initial open flow 300 Mcf/d Oil: Initial open flow 2 Bbl/d
Final open flow 300 Mcf/d Final open flow 2 Bbl/d
Time of open flow between initial and final tests 24 hours
Static rock pressure 500 psig (surface measurement) after 24 hours shut in
(If applicable due to multiple completion--)
Second producing formation NONE Pay zone depth feet
Gas: Initial open flow Mcf/d Oil: Initial open flow Bbl/d
Final open flow Mcf/d Oil: Final open flow Bbl/d
Time of open flow between initial and final tests hours
Static rock pressure psig (surface measurement) after hours shut in

(Continue on reverse side)

RIT 7256-F

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

1 STAGE 1680-1684
30,000 lb. sand

NO S 118' holes
retained in 200 mesh
nominal size 10

bls. water

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS Including indication of all free and salt water, coal, oil and gas
Permian Sands/shales			0	500	
Pennsylvanian sands/shales			500	1200	
Mauch Chunk			1200	1447	
Maxon Sand			1447	1501	
Blue Monday			1534	1539	
Big Lime			1550	1616	
Keener Sand			1617	1630	
Big Injun Sand			1631	1682	

(Attach separate sheets as necessary)

DRILLING APPALACHIAN CORPORATION

Well Operator

By: Frederick R. Warren

Date: 5/24/89

Note: Regulation 2.02(i) provides as follows:
"The term 'log' or 'well log' shall mean a systematic
detailed geological record of all formations, including
minerals, encountered in the drilling of a well."
185

04/26/1987

FORM WV-2(B) FILE COPY
(Obverse)



- 1) Date: March 4, 1987
- 2) Operator's Well No. Morris I-B
- 3) API Well No. 47 - 085 - 7256 - FRAC
State County Permit

RECEIVED
APR 16 1987

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, OIL AND GAS DIVISION
APPLICATION FOR A WELL WORK PERMIT

DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

- 4) WELL TYPE: A Oil / Gas / B (If "Gas", Production / Underground storage / Deep / Shallow /
- 5) LOCATION: Elevation: 695' / Watershed: Left Fork MacFarland Creek
District: Murphy 3 / County: Ritchie 085 / Quadrangle: MacFarland 7.5' 450
- 6) WELL OPERATOR Drilling Appal. Corp. CODE: 14425 7) DESIGNATED AGENT Kenneth R. Mason
Address P. O. Box #8 / Address P. O. Box 48
Alma, WV 26320-0048 / Alma, WV 26320-0048
- 8) OIL & GAS INSPECTOR TO BE NOTIFIED Name Samuel Hersman 9) DRILLING CONTRACTOR: Name n/a
Address P. O. Box 66 / Address _____
Smithville, WV 26178
- 10) PROPOSED WELL WORK: Drill / Drill deeper / Redrill / Stimulate /
Plug off old formation / Perforate new formation /
Other physical change in well (specify) _____
- 11) GEOLOGICAL TARGET FORMATION, Big Injun 1631-1682
12) Estimated depth of completed well, 4321 feet
13) Approximate strata depths: Fresh, 150 feet; salt, 1200 feet.
14) Approximate coal seam depths: None Is coal being mined in the area? Yes / No

15) CASING AND TUBING PROGRAM

CASING OR TUBING TYPE	SPECIFICATIONS					FOOTAGE INTERVALS		CEMENT FILL-UP OR SACKS (Cable feet)	PACKERS	
	Size	Grade	Wgt' per ft.	New	Used	For drilling	Left in well		Kind	Size
Conductor										
Fresh water										
Coal										
Intermediate	8 5/8	J-55	24#	X		789.7'	789.7'	241		
Production	4 1/2	J-55	10 1/2#	X		4000'	4000'	705		Depths set
Tubing										Perforations
Lin. "										Top Bottom

OFFICE USE ONLY
DRILLING PERMIT

Permit number 47-085-7256-FRAC. Date April 21 19 87

This permit covering the well operator and well location shown below is evidence of permission granted to drill in accordance with the pertinent legal requirements subject to the conditions contained herein and on the reverse hereof. Notification must be given to the District Oil and Gas Inspector. (Refer to No. 8) Prior to the construction of roads, locations and pits for any permitted work. In addition, the well operator or his contractor shall notify the proper district oil and gas inspector 24 hours before actual permitted work has commenced.)

The permitted work is as described in the Notice and Application, plat, and reclamation plan, subject to any modifications and conditions specified on the reverse hereof.
Permit expires April 21, 1989 unless well work is commenced prior to that date and prosecuted with due diligence.

Bond: <input checked="" type="checkbox"/>	Agent: <input checked="" type="checkbox"/>	Plat: <input checked="" type="checkbox"/>	Casing: <input checked="" type="checkbox"/>	Fee: <u>22 73</u> <u>175</u>	WPCP: <input checked="" type="checkbox"/>	S&P: <input checked="" type="checkbox"/>	Other: <input checked="" type="checkbox"/>
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NOTE: Keep one copy of this permit posted at the drilling location.

[Signature]
Director, Division of Oil and Gas File

See the reverse side of the APPLICANT'S COPY for instructions to the well operator.

1710

OFFICE OF OIL AND GAS
OP-77 (06-94)

RECORD NO. 42617

STATE OF WEST VIRGINIA
DIVISION OF ENVIRONMENTAL PROTECTION
NITRO, WEST VIRGINIA 25143

WV Division of
Environmental Protection

THIS IS TO ACKNOWLEDGE THAT THE WELL: API NO.

47-085-7256

DISTRICT:

Murphy

WELL NO.:

Morris 1B

FARM NAME

Morris

IS HEREBY TRANSFERRED FROM:

THE TRANSFEROR COMPANY:

DRILLING APPALACHIAN CORPORATION

CODE #

14425

ADDRESS:

POST OFFICE BOX 99, ALMA, WV 26320

TO:

THE TRANSFEREE COMPANY:

LAMAR OIL AND GAS COMPANY

CODE #

27015

ADDRESS:

POST OFFICE BOX 4120, PARKERSBURG WV 26102

THE TRANSFEREE BY THIS DOCUMENT IS ACCEPTING ALL RESPONSIBILITY FOR COMPLIANCE WITH THE PROVISIONS OF CHAPTER 22 et seq. OF THE WEST VIRGINIA CODE OF 1931, AS AMENDED AND ALL RULES AND REGULATIONS PROMULGATED THEREUNDER, FOR THE LISTED WELL.

THE TRANSFEREE HAS REGISTERED AND DESIGNATED AN AGENT ON FORM OP-1, WHO IS DESIGNATED AGENT (NAME) A.D. STEED

ADDRESS: POST OFFICE BOX 4120, PARKERSBURG, WV 26102

WHICH IS ON FILE WITH THE OFFICE OF OIL & GAS.

THE TRANSFEREE HAS BONDED THE SAID WELL BY (CHECK ONE):

SECURITIES CASH SURETY BOND LETTER OF CREDIT

AMOUNT:

\$50,000.00

EFFECTIVE DATE:

March 1, 1997

REGISTERED AUTHORIZED Huntington Bank ID. NO. 108

 BETTY FLETCHER
P.O. Box 11
Alma, WV 26320

TRANSFEREE: Lamar Oil and Gas Company
BY: [Signature]
ITS: President

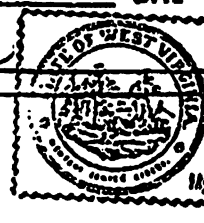
TAKEN, SUBSCRIBED AND SWORN BEFORE ME THIS 6th DAY OF October 1997.

NOTARY PUBLIC MY COMMISSION EXPIRES Feb. 13, 2001

TRANSFEROR: Drilling Appalachian Corporation
BY: [Signature]
ITS: President

TAKEN, SUBSCRIBED AND SWORN BEFORE ME THIS 30th DAY OF September 1997.

NOTARY PUBLIC MY COMMISSION EXPIRES Feb. 13, 2001

 OFFICIAL SEAL
BETTY FLETCHER
P.O. Box 11
Alma, WV 26320
My commission expires February 13, 2001



COPY

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Rev 8-81)

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

State of West Virginia
Department of Mines
Oil and Gas Division

Date February 12, 1985
Operator's
Well No. Morris #1-3
Farm Burke-Morris
API No. 47 - 085 - 7256

WELL OPERATOR'S REPORT
OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil X / Gas X / Liquid Injection / Waste Disposal /
(If "Gas," Production X / Underground Storage / Deep / Shallow X.)

LOCATION: Elevation: 695' Watershed Left Fork Macfarlan Creek
District: Murphy County Ritchie Quadrangle 7.5'

COMPANY DRILLING APPALACHIAN CORPORATION

ADDRESS Route 1, Box 51A, Calro, WV 26337

DESIGNATED AGENT Kenneth R. Mason

ADDRESS Route 1, Box 51A, Calro, WV 26337

SURFACE OWNER Westvaco Corp.

ADDRESS #2 Ferguson Drive, Parkersburg, WV 26101

MINERAL RIGHTS OWNER Kelly Land & Minerals

ADDRESS 285 E. Torrence Road, Columbus, OH 43214

OIL AND GAS INSPECTOR FOR THIS WORK
Samuel Hersman ADDRESS Smithville, WV 26178

PERMIT ISSUED December 10, 1984

DRILLING COMMENCED December 17, 1984

DRILLING COMPLETED December 22, 1984

IF APPLICABLE: PLUGGING OF DRY HOLE ON
CONTINUOUS PROGRESSION FROM DRILLING OR
REWORKING. VERBAL PERMISSION OBTAINED
ON N/A

Casing Tubing	Used in Drilling	Left in Well	Cost Cu. Ft.
Size 20-16 Cond.	16" 30'	30'	None
13-10"			
9 5/8			
8 5/8	789.7'	789.7'	241
7			
5 1/2			
4 1/2	4000'	4000'	705
3			
2			
Liners used			

GEOLOGICAL TARGET FORMATION Alexander Depth 5300' feet

Depth of completed well 4321 feet Rotary X / Cable Tools

Water strata depth: Fresh 150 feet; Salt 1200 feet

Coal seam depths: None Is coal being mined in the area? No

OPEN FLOW DATA

Producing formation Devonian Shale Pay zone depth 3897-3301' feet

Gas: Initial open flow Show Mcf/d Oil: Initial open flow 0 bbl/d

Final open flow 30 Mcf/d Final open flow 0 bbl/d

Time of open flow between initial and final tests 24 hours

Static rock pressure 200 psig (surface measurement) after 24 hours shut in

(If applicable due to multiple completion--)

Second producing formation Pay zone depth feet

Gas: Initial open flow Mcf/d Oil: Initial open flow bbl/d

Final open flow Mcf/d Oil: Final open flow bbl/d

Time of open flow between initial and final tests hours

Static rock pressure psig (surface measurement) after hours shut in

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

1st stage: 3897'-3860' 20 holes
500,000 SCF Nitrogen

2nd stage: 3621'-3658' 60 holes
500,000 SCF Nitrogen

3rd stage: 3511'-3521' 20 holes
500,000 SCF Nitrogen

4th stage: 3301'-3321' 40 holes
400,000 SCF Nitrogen

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DIVISION OF OIL & GAS
DEPARTMENT OF ENERGY

WELL LOG

FORMATION	COLOR	HARD OR SOFT	TOP FEET	BOTTOM FEET	REMARKS
					Including indication of all fossils and salt water, coal, oil and gas
Permian Sands/Shales			0	500	
Pennsylvanian Sands/Shales			500	1200	
Mauch Chunk			1200	1447	
Maxon Sand			1447	1501	
Blue Monday			1534	1539	
Big Lime			1550	1616	
Keener Sand			1617	1630	
Big Injun Sand			1631	1682	
Weir Sand			1890	1976	
Berea Sandstone			2108	2109	
Gordon Stray			2206	2234	
Gordon Sandstone			2490	2500	
Upper Speichley			3303	3319	
Lower Speichley			3512	3530	
Upper Balltown			3620	3670	
Lower Balltown			3860	3902	
Riley			4114	4150	
TD				4323	

(Attach separate sheets as necessary)

DRILLING APPALACHIAN CORPORATION

Well Operator

By: Kenneth Mason KENNETH MASON

Date: February 12, 1985

42-085-07256P

04/26/2019

02-11

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

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JAN 4 - 1985

INSPECTOR'S WELL REPORT
OIL & GAS DIVISION
DEPT. OF MINES

Permit No. 85-7256

Oil or Gas Well
(KIND)

Company <u>Drilling Appalachian Corp.</u>	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Address _____	Size _____			Kind of Packer _____
Farm <u>Westrace</u>	16			
Well No <u>Morris 1-B</u>	13			Size of _____
District <u>Murphy</u> County <u>Ritchie</u>	10			
Drilling commenced <u>12-17-84</u>	8 3/4			Depth set _____
Drilling completed <u>12-21-84</u> Total depth <u>4321</u>	6 3/4	<u>4 1/2"</u>	<u>4025</u>	
Date shot _____ Depth of shot _____	3			Perf. top _____
Initial open flow _____ /10ths Water in _____ Inch	2			Perf. bottom _____
Open flow after tubing _____ /10ths Merc. in _____ Inch	Liners Used _____			Perf. top _____
Volume _____ Cu. Ft.				Perf. bottom _____
Rock pressure _____ lbs _____ hrs.	CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
Oil _____ bbls., 1st 24 hrs.	NAME OF SERVICE COMPANY _____			
Fresh water _____ feet _____ feet	COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
Salt water _____ feet _____ feet	_____ FEET _____ INCHES FEET _____ INCHES			
	_____ FEET _____ INCHES FEET _____ INCHES			

Drillers' Names _____

Remarks: on 12-21-84 T.O. Hole at 4321 feet depth
Ran 4025 feet of 4 1/2" casing - Cemented by B. J. Hughes
Rig moved off location.

12-27-84
DATE

Samuel N. Herndon
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS WELLS DIVISION

47-085-07256 P
 04/26/2019
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 DEC 26 1984
 OIL & GAS DIVISION
 DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-7256

Oil or Gas Well _____
 (KIND)

Company Drilling Appalachian Corp.
 Address _____
 Farm Westwood
 Well No. Morris 1-B
 District Murphy's County RITCHIE
 Drilling commenced 12-17-84
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer _____
13			
10			Size of _____
<u>8 5/8</u>	<u>789'</u>	<u>789'</u>	
6 3/4			Depth set _____
5 3/16			
3			Perf. top _____
2			Perf. bottom _____
Liners Used			Perf. top _____
			Perf. bottom _____

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____
 NAME OF SERVICE COMPANY B. J. Hughes

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES
 _____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: On 12-18-84 ran 789' foot of 8 5/8" casing - B. J. Hughes
ran 206 sacks cement, neat, 370 cc and cellflite.
3554 foot deep at time of visit

1525-1651 BIG LIME
1651-1775 INJUN SAND
12-21-84

DATE

1440 - OIL + GAS SHOW
3500 - GAS SHOW

Samuel N. Herzman
 DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

47-085-07256P

RECEIVED
04/26/2019

DEC 26 1984

OIL & GAS DIVISION

DEPT. OF MINES

INSPECTOR'S WELL REPORT

Permit No. 85-7256

Oil or Gas Well _____
(KIND)

Company Drilling Appalachian Corp.
 Address _____
 Farm Westwood
 Well No. Morris 1-B
 District Murphy's County RITCHIE
 Drilling commenced 12-17-84
 Drilling completed _____ Total depth _____
 Date shot _____ Depth of shot _____
 Initial open flow _____ /10ths Water in _____ Inch
 Open flow after tubing _____ /10ths Merc. in _____ Inch
 Volume _____ Cu. Ft.
 Rock pressure _____ lbs. _____ hrs.
 Oil _____ bbls., 1st 24 hrs.
 Fresh water _____ feet _____ feet
 Salt water _____ feet _____ feet

CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
Size			
16			Kind of Packer
13			
10			Size of
<u>8 5/8</u>	<u>789'</u>	<u>789'</u>	
6 3/4			Depth set
5 3/16			
3			Perf. top
2			Perf. bottom
Liners Used			Perf. top
			Perf. bottom

CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____

NAME OF SERVICE COMPANY _____

COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

_____ FEET _____ INCHES FEET _____ INCHES

Drillers' Names _____

Remarks: On 12-18-84 ran 789 foot of 8 5/8" casing - B. J. Hughes
ran 206 sacks cement, neat, 370 CC and all flake.
3554 foot deep at time of visit

1525-1651 BIG LIME
1651-1775 INJUN SAND
12-21-84

1440 - OIL + GAS SHOW
3500 - GAS SHOW

Samuel N. Herberman
DISTRICT WELL INSPECTOR

STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS WELLS DIVISION

47-085-07256 P
04/26/2019
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DEC 26 1984

INSPECTOR'S WELL REPORT DEPT. OF MINES

Permit No. 85-725.6

Oil or Gas Well _____
(NIND)

Company	Address	Farm	Well No.	District	County	Drilling commenced	Drilling completed	Date shot	Initial open flow	Open flow after tubing	Volume	Block pressure	Oil	Fresh water	Salt water	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
																Size			Kind of Packer
<u>Drilling Appalachians Corp.</u>		<u>Westview</u>	<u>Morris 1-B</u>	<u>Murphy</u>	<u>Pitkin</u>	<u>12-17-84</u>										16			
																13			
																10			Size of
																8 3/4			
																6 3/4			Depth set
																5 3/16			
																3			Perf. top
																2			Perf. bottom
																Liners Used			Perf. top
																			Perf. bottom
																CASING CEMENTED _____ SIZE _____ No. FT. _____ Date _____			
																NAME OF SERVICE COMPANY _____			
																COAL WAS ENCOUNTERED AT _____ FEET _____ INCHES			
																_____ FEET _____ INCHES _____ FEET _____ INCHES			
																_____ FEET _____ INCHES _____ FEET _____ INCHES			

Drillers' Names Mark E. Parker / Andy Starks

Rig # 4 C.T. Drilling Paul Poulos Bill Parker
Remarks: Visit - 570' foot deep - hit 3" to 4" stream of water at 80'
Pit full - Had drill & more pits to hold water
Called pit spill into Parkersburg D.N.R. Office
Had water under control when it had left location

12-18-84
DATE

Samuel M. Heroman
DISTRICT WELL INSPECTOR

47-085-07256A

04/26/2019

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Office of Oil and Gas

WW-4A
Revised 6-07

APR 24 2019

1) Date: 12/11/2018
2) Operator's Well Number
Morris 1-B

WV Department of
Environmental Protection

3) API Well No.: 47 - 085 - 07256

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Ecosystems Investment</u>	Name <u>None</u>
Address <u>Partners III, LLC</u>	Address _____
<u>5550 Newbury St. Suite B</u>	_____
(b) Name <u>Baltimore, MD 21209</u>	(b) Coal Owner(s) with Declaration
Address <u>Heath Rushing, Manager</u>	Name <u>Richard Startzman</u>
_____	Address <u>2009 Oakwood Trail College</u>
_____	<u>Station TX</u>
(c) Name _____	Name _____
Address _____	Address _____
6) Inspector <u>Michael Goff</u>	(c) Coal Lessee with Declaration
Address _____	Name <u>None</u>
_____	Address _____
Telephone <u>3045499823</u>	_____

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

Well Operator Lamar Oil & Gas Company
 By: [Signature]
 Its: PRESIDENT
 Address 375 Happy Hollow Road
Waverly, WV 26184
 Telephone 3044810562

Subscribed and sworn before me this 15 day of December 2018
Danielle E. Lipps Notary Public
 My Commission Expires October 7, 2020



Oil and Gas Privacy Notice

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 Officer at depprivacyofficer@wv.gov.

04/26/2019

SURFACE OWNER WAIVER

Operator's Well
Number

4708507256

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (Note: If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

**NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.
WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:**

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

Time Limits and methods for filing comments. The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

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

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation..."

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

RECEIVED
APR 19 2019
Office of Oil and Gas

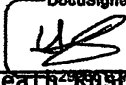
VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of the Permit and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

**FOR EXECUTION BY A NATURAL PERSON
ETC.**

FOR EXECUTION BY A CORPORATION,

_____	Date _____	Name _____	DocuSigned by: 
Signature		By Its	Heath Rushing Manager

			Date _____

WW-4B

API No.	<u>4708507256</u>
Farm Name	<u>Morris</u>
Well No.	<u>Morris 1-B</u>

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

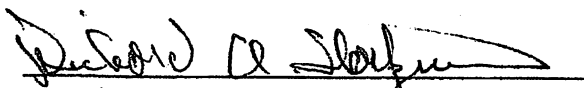
This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator ____ / owner X / lessee ____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: 4/10/19


 By: Richard A Startzman
 Its Owner

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APR 19 2019

WV Department of
Environmental Protection

04/26/2019

WW-9
(5/16)

API Number 47 085 07256
Operator's Well No. Morris 1-B

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS
FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Lamar Oil & Gas Company OP Code _____
Watershed (HUC 10) Little Kanawha Quadrangle Harrisville

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: _____

Will a synthetic liner be used in the pit? Yes No If so, what ml? _____

Proposed Disposal Method For Treated Pit Wastes:

- Land Application (if selected provide a completed form WW-9-GPP)
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

Will closed loop system be used? If so, describe: n/a

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. n/a

-If oil based, what type? Synthetic, petroleum, etc. n/a

Additives to be used in drilling medium? n/a

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. n/a

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) _____

-Landfill or offsite name/permit number? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on April 1, 2016, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

Company Official Signature [Signature]
Company Official (Typed Name) A.D. Steed
Company Official Title President

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Office of Oil and Gas
APR 19 2019
WV Department of Environmental Protection

Subscribed and sworn before me this 15 day of December, 20 18

Danielle E. Lipps Danielle E. Lipps

My commission expires October 7, 2020



Proposed Revegetation Treatment: Acres Disturbed less than 5 Prevegetation pH unknown

Lime 2-3 Tons/acre or to correct to pH _____

Fertilizer type 10-20-20 or equivalent

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Fescue	40	Fescue	40
Landino Clover	5	Landino Clover	5

Attach:

Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, provide water volume, include dimensions (L, W, D) of the pit, and dimensions (L, W), and area in acres, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: Michael Doff

Comments: Preseed and mulch any disturbed areas.

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Environmental Protection

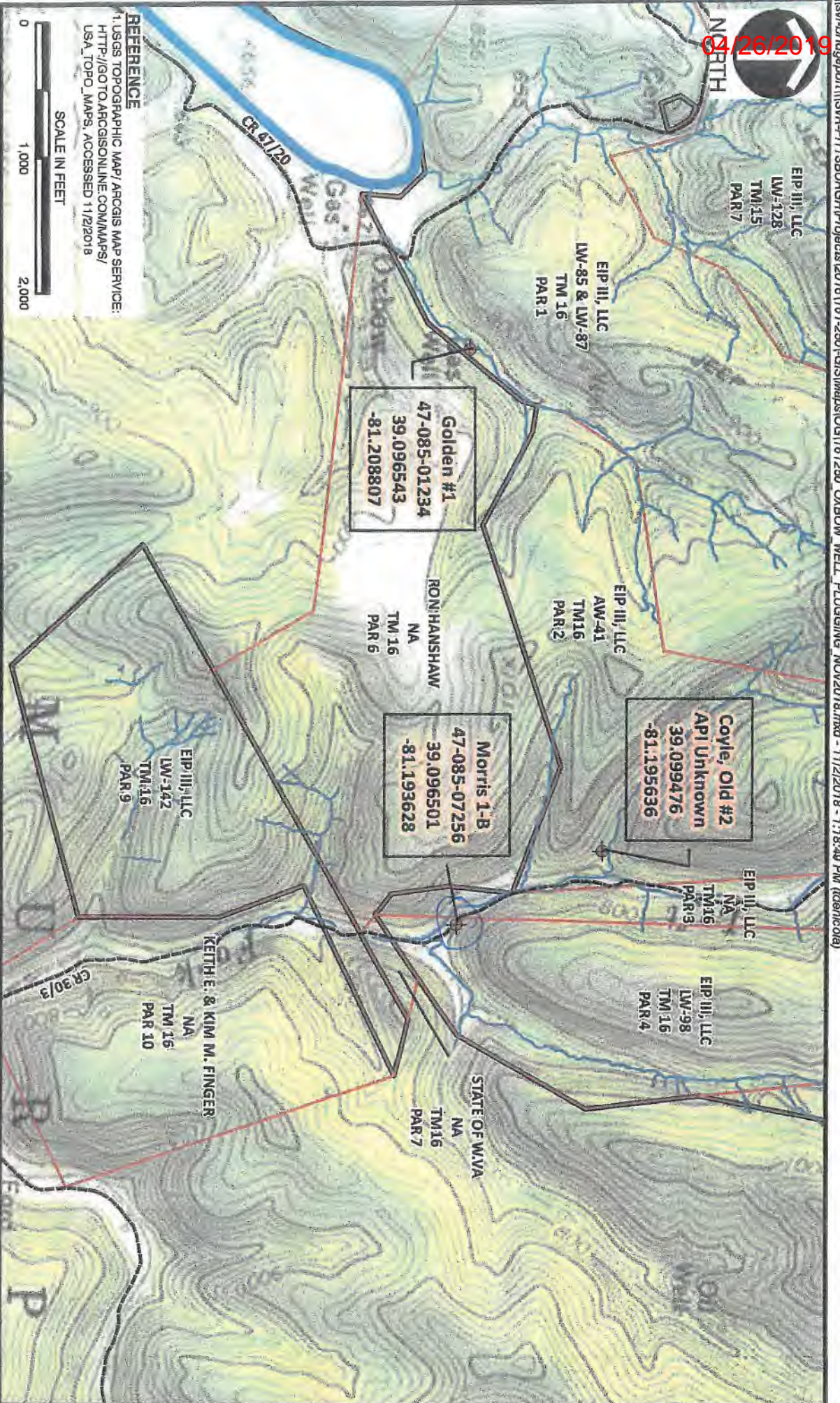
Title: Oil & Gas Inspector

Date: 4/15/19

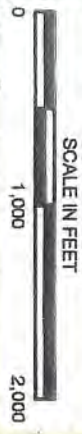
Field Reviewed? Yes No

01/26/2019

\\sfr-bridgeport\ll\SVR-FITTSBURGH\Projects\2018\161-250-IGIS\Mapsets\OGI\161250_OXBOW_WELL_PLUGGING_NOV2018.mxd - 11/21/2018 - 1:18:49 PM (tdenckole)



REFERENCE
 1. USGS TOPOGRAPHIC MAP/ARCGIS MAP SERVICE:
 HTTP://GOTO.ARCGISONLINE.COM/MAPS/
 USA_TOPO_MAPS, ACCESSED 11/22/2018



LEGEND

- WELLS (TO BE PLUGGED)
- COUNTY ROUTE (UNIMPROVED)
- STREAMS
- SOUTH FORK HUGHES RIVER
- PROPERTY OWNERS
- PROJECT BOUNDARY



Civil & Environmental Consultants, Inc.

600 Marketplace Avenue, Suite 200 - Bridgeport, WV 26330-9121
 Ph: 304-933-3119 • Toll: 855-488-9599 • Fax: 304-933-3327
 www.cecinc.com

DRAWN BY: TAD
 CHECKED BY: MKD
 DATE: 11/02/2018
 SCALE: 1" = 1,000'

**EIP III CREDIT CO., LLC
 OXBOW MITIGATION BANK
 RITCHIE COUNTY, WEST VIRGINIA**

WELL PLUGGING

APPROVED BY: NSO
 PROJECT NO: 161-250.020
 FIGURE NO: -

04/26/2019

WW-7
8-30-06



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

API: 4708507256 WELL NO.: Morris 1-B

FARM NAME: Morris

RESPONSIBLE PARTY NAME: Lamar Oil & Gas Company

COUNTY: Ritchie DISTRICT: Murphy

QUADRANGLE: Harrisville

SURFACE OWNER: Ecosystems Investment Partners III, LLC

ROYALTY OWNER: Kelly Land & Mineral & Lyndall V.

UTM GPS NORTHING: 4327503.33

UTM GPS EASTING: 483256.2 GPS ELEVATION: 695

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential

Mapping Grade GPS : Post Processed Differential
Real-Time Differential

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Office of Oil and Gas

APR 19 2019

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

[Signature]
Signature

PRESIDENT
Title

12-15-2018
Date