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**west virginia** department of environmental protection

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

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

August 19, 2014

**WELL WORK PERMIT**

**Horizontal Well**

This permit, API Well Number: 47-1304747, issued to BUCKEYE OIL PRODUCING CO, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: J.M. BENNETT IHA  
Farm Name: TAYLOR, DOUGLAS E. & SHIRLI  
**API Well Number: 47-1304747**  
**Permit Type: Horizontal Well**  
Date Issued: 08/19/2014

Promoting a healthy environment.

08/22/2014

## 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

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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 on this well. Such notice shall be provided by sending an email to [DEPOOGNotify@wv.gov](mailto:DEPOOGNotify@wv.gov) within 30 days of commencement of drilling.

WW - 2B  
(Rev. 8/10)

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

1) Well Operator: BUCKEYE OIL PRODUCING

306103	CALHOUN	SHERIDAN	GRANTSVILLE 7.5'
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Operator ID      County      District      Quadrangle

2) Operator's Well Number: J.M.BENNETT 1-H-A      3) Elevation: 1002'

4) Well Type: (a) Oil  or Gas   
(b) If Gas: Production  / Underground Storage \_\_\_\_\_  
Deep \_\_\_\_\_ / Shallow

5) Proposed Target Formation(s): BEREA      Proposed Target Depth: 2467' TVD

6) Proposed Total Depth: 4840' Feet      Formation at Proposed Total Depth: BEREA

7) Approximate fresh water strata depths: 61'

8) Approximate salt water depths: 20011

9) Approximate coal seam depths: NONE

10) Approximate void depths, (coal, Karst, other): NONE

11) Does land contain coal seams tributary to active mine? NO

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed) H.S.

DRILL & SET 60' OF CONDUCTOR. DRILL & SET 300' OF 95/8" CASING, CEMENT TO SURFACE. DRILL AND START BUILDING CURVE, SET 2000' 7" CASING ON 45 DEGREE ANGLE 8 DEGREE -100'CTS. AT 2000' START 61/2" HOLE FINISH CURVE 8-100' TO 2467', FINISH LATERAL TO 4840'TMD. RUN 41/2" CASING & SET 8-10 PACKERS. SEE ATTACHED SHEET. CEMENT ABOVE K.O.P.

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE	INTERVALS	CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill-up (Cu. Ft.)
Conductor	11/34	J-55	38#	60	60	
Fresh Water	95/8	J-55	29#	300	300	C.T.S
Coal						
Intermediate	7	J-55	20#	2000	2000	C.T.S.
Production	41/2	J-55	11.6#	4840	4840	BY RULE 35CSR 4-11.1
Tubing						
Liners						

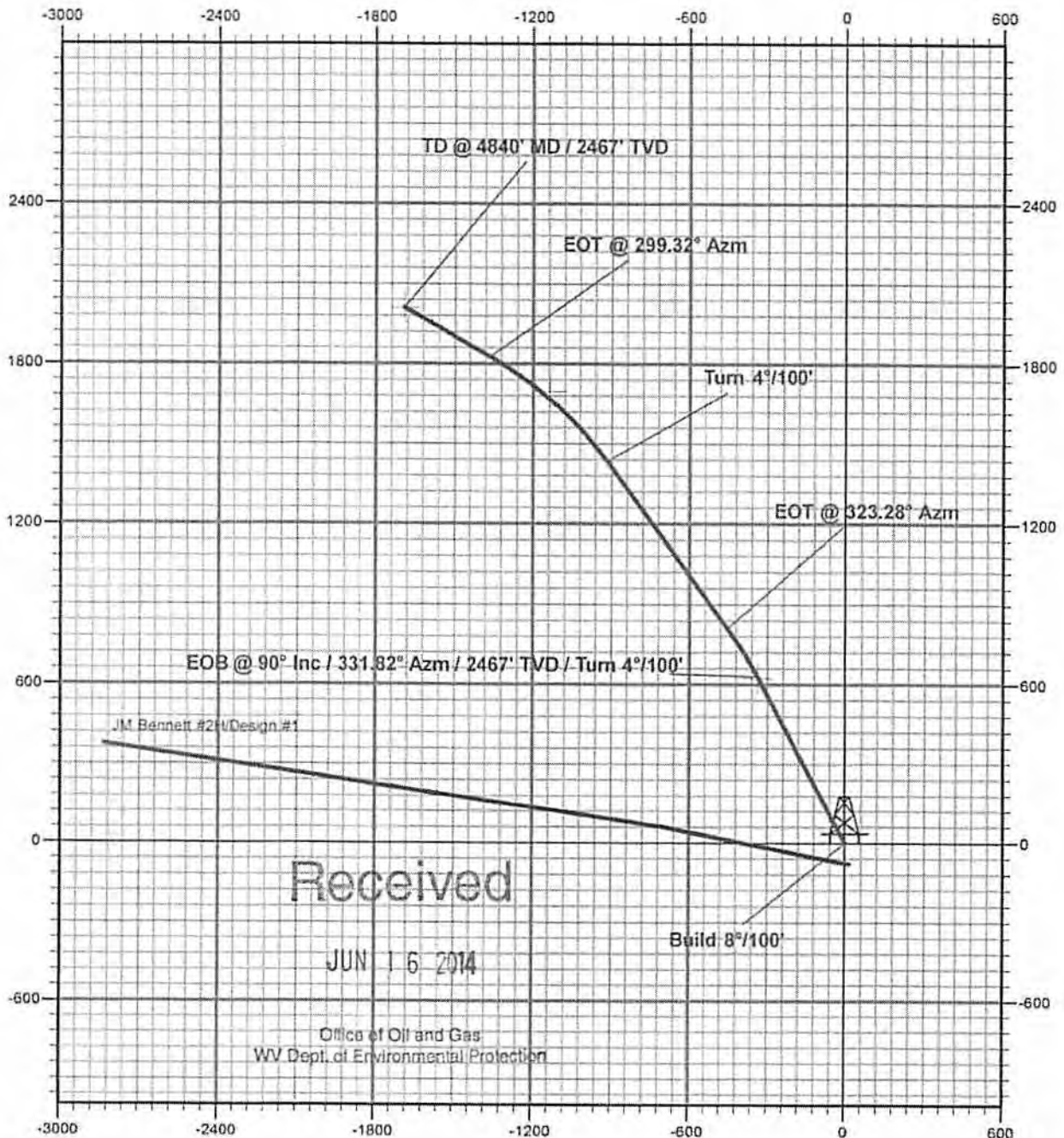
Packers: Kind: PEAK  
Sizes: 41/2 X5.75" OPEN HOLE PACKER  
Depths Set 1600" TO 4840' SETTING 10 PACKERS

OK PER  
ED GWINER

08/22/2014  
By JMM 8/18/14

# Buckeye Oil Producing

Calhoun, West Virginia  
 JM Bennett #1H  
 Design #1



Office of Oil and Gas  
 WV Dept. of Environmental Protection

1304744H

Cross Section

# Buckeye Oil Producing

Calhoun, West Virginia

JM Bennett #1H

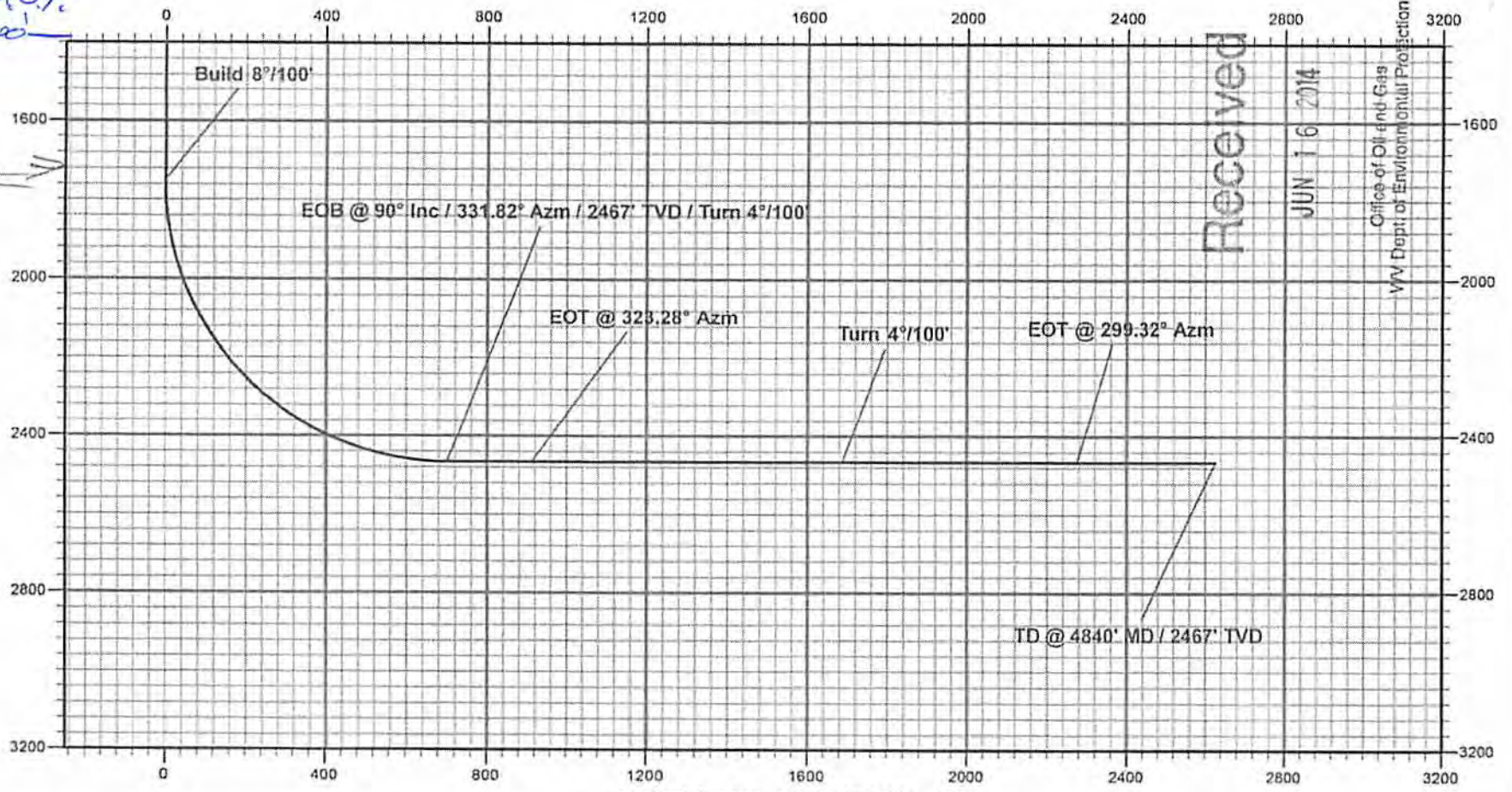
Design # 1



H.S.

K.P.  
1500'

CSG



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Office of Oil and Gas  
WV Dept of Environmental Protection

Vertical Section at 319.93° (400 usf/in)

1304747H  
1304744H

# Buckeye Oil Producing

Calhoun, West Virginia

JM Bennett

JM Bennett #1H A

Wellbore #1A

Plan: Design #1

## DDC Well Planning Report

, 12 May, 2014

Received

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Office of Oil and Gas  
WV Dept. of Environmental Protection



08/22/2014

**DDC**  
Well Planning Report

1304744H  
1304747H

Database: EDM 5000.1 Single User Db  
Company: Buckeye Oil Producing  
Project: Calhoun, West Virginia  
Site: JM Bennett  
Well: JM Bennett #1H  
Wellbore: Wellbore #1  
Design: Design #1

Local Co-ordinates Reference: Well JM Bennett #1H  
TVD Reference: Mean Sea Level (Sys  
MD Reference: Mean Sea Level (Sys  
North Reference: Grid  
Survey Calculation Method: Minimum Curvature

**Received**

Project: Calhoun, West Virginia  
Map System: US State Plane 1983  
Geo Datum: North American Datum 1983  
Map Zone: West Virginia Southern Zone

System Datum:

Mean Sea Level  
JUN 16 2014

Site: JM Bennett

Office of Oil and Gas  
WV Dept. of Environmental Protection

Site Position: Northing: 724,087.31 usft Latitude: 38° 59'  
From: Lat/Long Easting: 1,936,322.61 usft Longitude: 81° 6'  
Position Uncertainty: 0.0 usft Slot Radius: 13-3/16" Grid Convergence:

Well: JM Bennett #1H

Well Position: +N-S 0.0 usft Northing: 724,087.31 usft Latitude: 38° 59'  
+E-W 0.0 usft Easting: 1,936,322.61 usft Longitude: 81° 6'  
Position Uncertainty: 0.0 usft Wellhead Elevation: 0.0 usft Ground Level:

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Fi
	IGRF2010	5/9/2014	-8.17	66.63	

Design: Design #1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (usft)	+N-S (usft)	+E-W (usft)	Direction (°)
	0.0	0.0	0.0	319.93

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Dogleg Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.00
1,750.8	0.00	0.00	1,750.8	0.0	0.0	0.00
2,875.8	90.00	331.82	2,467.0	631.3	-338.2	8.00
3,089.3	90.00	323.28	2,467.0	811.3	-452.7	4.00
3,866.3	90.00	323.28	2,467.0	1,434.1	-917.2	0.00
4,465.2	90.00	299.32	2,467.0	1,826.6	-1,363.9	4.00
4,840.1	90.00	299.32	2,467.0	2,010.1	-1,690.8	0.00

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N-S (usft)	+E-W (usft)	Vert Sec (us)
0.0	0.00	0.00	0.0	0.0	0.0	0.0
100.0	0.00	0.00	100.0	0.0	0.0	0.0
200.0	0.00	0.00	200.0	0.0	0.0	0.0
300.0	0.00	0.00	300.0	0.0	0.0	0.0

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1304744H-  
1304747H

400.0	0.00	0.00	400.0	0.0	0.0
500.0	0.00	0.00	500.0	0.0	0.0
600.0	0.00	0.00	600.0	0.0	0.0
700.0	0.00	0.00	700.0	0.0	0.0
800.0	0.00	0.00	800.0	0.0	0.0
900.0	0.00	0.00	900.0	0.0	0.0
1,000.0	0.00	0.00	1,000.0	0.0	0.0
1,100.0	0.00	0.00	1,100.0	0.0	0.0
1,200.0	0.00	0.00	1,200.0	0.0	0.0
1,300.0	0.00	0.00	1,300.0	0.0	0.0
1,400.0	0.00	0.00	1,400.0	0.0	0.0
1,500.0	0.00	0.00	1,500.0	0.0	0.0
1,600.0	0.00	0.00	1,600.0	0.0	0.0
1,700.0	0.00	0.00	1,700.0	0.0	0.0
<b>Build 8"/100'</b>					
1,750.8	0.00	0.00	1,750.8	0.0	0.0
1,800.0	3.94	331.82	1,800.0	1.5	-0.8
1,900.0	11.94	331.82	1,898.9	13.6	-7.3
2,000.0	19.94	331.82	1,995.0	37.8	-20.3
2,100.0	27.94	331.82	2,086.3	73.6	-39.4
2,200.0	35.94	331.82	2,171.1	120.2	-64.4
2,300.0	43.94	331.82	2,247.7	176.7	-94.7
2,400.0	51.94	331.82	2,314.7	242.1	-129.7
2,500.0	59.94	331.82	2,370.6	315.0	-168.8
2,600.0	67.94	331.82	2,414.5	394.2	-211.2
2,700.0	75.94	331.82	2,445.5	477.9	-256.0
2,800.0	83.94	331.82	2,463.0	564.6	-302.5
<b>EOB @ 90° Inc / 331.82° Azm / 2467' TVD / Turn 4"/100'</b>					
2,875.8	90.00	331.82	2,467.0	631.3	-338.2
2,900.0	90.00	330.85	2,467.0	652.5	-349.8
3,000.0	90.00	326.85	2,467.0	738.1	-401.5
<b>EOT @ 323.28° Azm</b>					
3,089.3	90.00	323.28	2,467.0	811.3	-452.7
3,100.0	90.00	323.28	2,467.0	819.9	-459.1
3,200.0	90.00	323.28	2,467.0	900.0	-518.9
3,300.0	90.00	323.28	2,467.0	980.2	-578.6
3,400.0	90.00	323.28	2,467.0	1,060.3	-638.4
3,500.0	90.00	323.28	2,467.0	1,140.5	-698.2
3,600.0	90.00	323.28	2,467.0	1,220.7	-758.0
3,700.0	90.00	323.28	2,467.0	1,300.8	-817.8
3,800.0	90.00	323.28	2,467.0	1,381.0	-877.6
<b>Turn 4"/100'</b>					
3,866.3	90.00	323.28	2,467.0	1,434.1	-917.2
3,900.0	90.00	321.93	2,467.0	1,460.9	-937.7
4,000.0	90.00	317.93	2,467.0	1,537.4	-1,002.1
4,100.0	90.00	313.93	2,467.0	1,609.2	-1,071.6
4,200.0	90.00	309.93	2,467.0	1,676.1	-1,146.0
4,300.0	90.00	305.93	2,467.0	1,737.5	-1,224.6
4,400.0	90.00	301.93	2,467.0	1,793.3	-1,307.8
<b>EOT @ 299.32° Azm</b>					

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Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	Office + EQ and Gas WV Dept. of Environmental Protection (usft)	Vert Sec (usft)
4,465.2	90.00	299.32	2,467.0	1,826.6	-1,363.9	
4,500.0	90.00	299.32	2,467.0	1,843.6	-1,394.2	
4,600.0	90.00	299.32	2,467.0	1,892.6	-1,481.4	
4,700.0	90.00	299.32	2,467.0	1,941.5	-1,568.6	
4,800.0	90.00	299.32	2,467.0	1,990.5	-1,655.8	
<b>TD @ 4840' MD / 2467' TVD</b>						
4,840.1	90.00	299.32	2,467.0	2,010.1	-1,690.8	

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Eas (usft)
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08/22/2014



1304747H8  
~~1304744H~~

LP JM Bennett #1H - plan misses target center by 709.2usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E) - Point	0.00	360.00	0.0	625.1	-334.9	724,712.38	1.9
T2 JM Bennett #1H - plan misses target center by 2042.5usft at 0.0usft MD (0.0 TVD, 0.0 N, 0.0 E) - Point	0.00	0.00	0.0	1,898.0	-1,135.2	725,785.31	1.9
PBHL JM Bennett #1H - plan hits target center - Point	0.00	360.00	2,467.0	2,010.1	-1,690.8	726,097.44	1.9

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,750.8	1,750.8	0.0		0.0 Build 8°/100°
2,875.8	2,467.0	631.3		-338.2 EOB @ 80° Inc / 331.82° Azm / 2467' TVL
3,089.3	2,467.0	811.3		-452.7 EOT @ 323.28° Azm
3,866.3	2,467.0	1,434.1		-917.2 Turn 4°/100°
4,465.2	2,467.0	1,826.6		-1,363.9 EOT @ 299.32° Azm
4,840.1	2,467.0	2,010.1		-1,690.8 TD @ 4840' MD / 2467' TVD

Received

JUN 16 2014

Office of Oil and Gas  
 WV Dept. of Environmental Protection

08/22/2014

1304747 H  
~~1304744 H~~

# BENNETT #1H

**Frac well -**

- Stage 1** Pump end of 4-1/2" with 550 Bbl. total water and 25,000# 20/40 sand
- Stage 2** Frac with 500 Bbls. total water and 25,000# 20/40 sand
- Stage 3** Frac with 500 Bbls. total water and 25,000# 20/40 sand
- Stage 4** Frac with 500 Bbls. total water and 25,000# 20/40 sand
- Stage 5** Frac with 500 Bbls. total water and 25,000# 20/40 sand
- Stage 6** Frac with 500 Bbls. total water and 25,000# 20/40 sand
- Stage 7** Frac with 500 Bbls. total water and 25,000# 20/40 sand
- Stage 8** Frac with 500 Bbls. total water and 25,000# 20/40 sand
- Stage 9** Frac with 600 Bbls. total water and 25,000# 20/40 sand

**Received**

**JUN 16 2014**

Office of Oil and Gas  
WV Dept. of Environmental Protection

08/22/2014

~~1304744H~~  
1304747H

Permit Addendum

J. M. Bennett #1H *A*

There remains question as to the whereabouts and identity of old well bores on the J. M. Bennett lease.

According to our records the J. M. Bennett #20 was drilled in 1922 to the Berea with no shows and plugged back to the Big Injun. After extensive field work this well has not been located and is assumed plugged.

The J. M. Bennett #21 Permit #013-30087 and located 685' northeast of our projected Bennett #1H borehole was drilled on 5-30-1922 to a TD of 2085' and never penetrated the Berea Sandstone and is assumed plugged.

The J. M. Bennett #22 permit # 013-30154 and located 545' northeast of our projected Bennett #1H borehole was drilled on 1-10-1923 to a TD of 2450' and shot with 30 quarts of nitroglycerine. The well has not been located after extensive field work and is assumed plugged.

The J. M. Bennett #1H was designed to best avoid any geological hazards such as the wells noted above and as such precautions are being taken to avoid any issues that could occur.

The J. M. Bennett #1H will be completed using a packer system, and as such questionable portions of the wellbore can be isolated. WILL *9/16/14 7/22/14*

A distance of 545' is believed to be adequate distance from a shot hole using 500 barrels of total fluid per stage in a 300' staged frac.

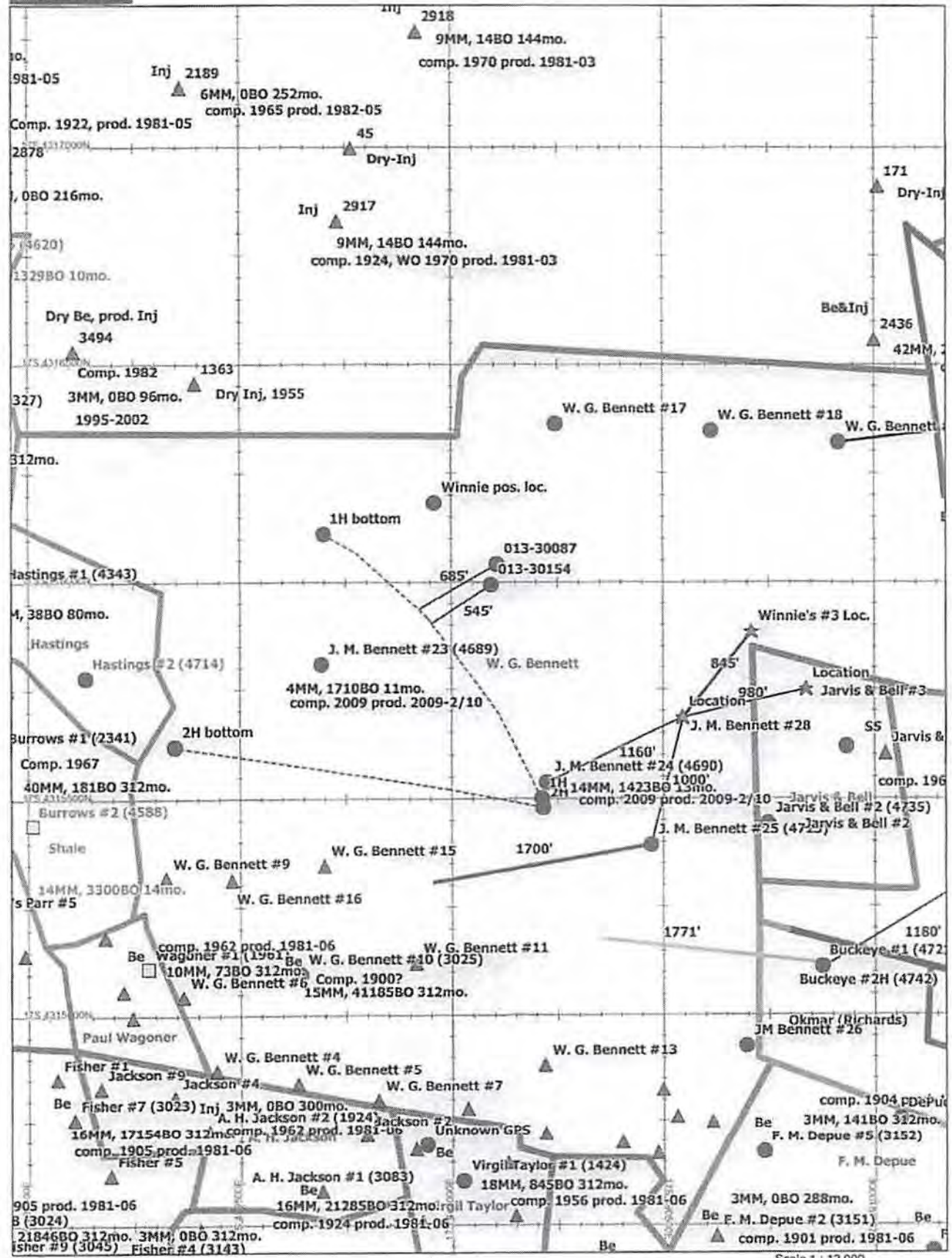
Since the #21 and #22 wells are non-existent from a surface perspective and assumed plugged the general area in which the wells once existed will be monitored daily throughout the drilling and completion process.

08/22/2014

1304744H  
1304747H

DELORME

XMap® 6



Data use subject to license.

© DeLorme, XMap® 6.

08/22/2014

WR-35

DATE: 2/19/09  
API #: 47-1300690  
13.04690

State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas

Well Operator's Report of Well Work

Farm name: J. M. BENNETT Operator Well No.: 24  
LOCATION: Elevation: 1024 Quadrangle: GRANTSVILLE  
District: SHERIDAN County: CALHOHN  
Latitude:        Feet South of        Deg.        Min.        Sec.  
Longitude        Feet West of        Deg.        Min.        Sec.

Company: BUCKEYE OIL PRODUCING CO.

	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: <u>P.O. BOX 129</u>	<u>9 5/8</u>			
<u>WOOSTER OH 44691</u>	<u>7</u>	<u>251</u>	<u>251</u>	<u>CMT TO SURFACE</u>
Agent: <u>WINNIE SINNETT</u>	<u>4 1/2</u>	<u>2945</u>	<u>2945</u>	<u>1600'</u>
Inspector: <u>ED GAINER</u>				
Date Permit Issued: <u>9/8/08</u>				
Date Well Work Commenced: <u>9/17/08</u>				
Date Well Work Completed: <u>10/16/08</u>				
Verbal Plugging:				
Date Permission granted on:				
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig				
Total Depth (feet): <u>2950</u>				
Fresh Water Depth (ft.): <u>90'</u>				
Salt Water Depth (ft.): <u>1000'</u>				
Is coal being mined in area (N/Y)? <u>NO</u>				
Coal Depths (ft.): <u>      </u>				

**RECEIVED**  
Office of Oil & Gas  
MAR 02 2009  
WV Department of Environmental Protection

OPEN FLOW DATA

Producing formation GORDAN-GANTZ Pay zone depth (ft) 2568-2830  
Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 50 MCF/d Final open flow 1 Bbl/d  
Time of open flow between initial and final tests - Hours  
Static rock Pressure 400 psig (surface pressure) after 18 Hours

Second producing formation BEREA Pay zone depth (ft) 2446-2462  
Gas: Initial open flow - MCF/d Oil: Initial open flow - Bbl/d  
Final open flow 20 MCF/d Final open flow 1 Bbl/d  
Time of open flow between initial and final tests        Hours  
Static rock Pressure 400 psig (surface pressure) after 18 Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Signed: Mark S. Lytle  
By: MARK S. LYTLE, PRESIDENT  
Date: 2/19/09





DEPARTMENT OF MINES  
OIL AND GAS DIVISION

1304747H

Permit No. CAL-154-A **WELL RECORD**

Oil or Gas Well  
(circle)

Company H.W. Russell, Trustee Under Morrow Trusts  
 Address Parkersburg, W. Va.  
 Farm Bannett Heirs Acres 69  
 Location (waters) \_\_\_\_\_  
 Well No. 20 Elev. 1005  
 District Sheridan County Calhoun  
 The surface of tract is owned in fee by J.S. Fortney  
 Address \_\_\_\_\_  
 Mineral rights are owned by See Above  
 Address \_\_\_\_\_  
 Drilling commenced \_\_\_\_\_  
 Drilling completed \_\_\_\_\_  
 Date Shot From \_\_\_\_\_ To \_\_\_\_\_  
 With \_\_\_\_\_  
 Open Flow /10ths Water in \_\_\_\_\_ Inch  
 /10ths Merc. in \_\_\_\_\_ Inch  
 Volume \_\_\_\_\_ Cu. Ft.  
 Rock Pressure \_\_\_\_\_ lbs. \_\_\_\_\_ hrs.  
 OIL \_\_\_\_\_ bbls., 1st 24 hrs.  
 Fresh water \_\_\_\_\_ feet  
 Salt water \_\_\_\_\_ feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			
18			Kind of Packe...
12			375
10			Size of 6-5/8 X 2
8 1/2			
6 1/2		1990	Depth set 2085
5 1/2			
3			Perf. top
2		2085	Perf. bottom
			Perf. top
			Perf. bottom

LIQUORS USED \_\_\_\_\_  
 CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. Ft. \_\_\_\_\_ Date \_\_\_\_\_  
 COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
 \_\_\_\_\_ FEET \_\_\_\_\_ INCHES

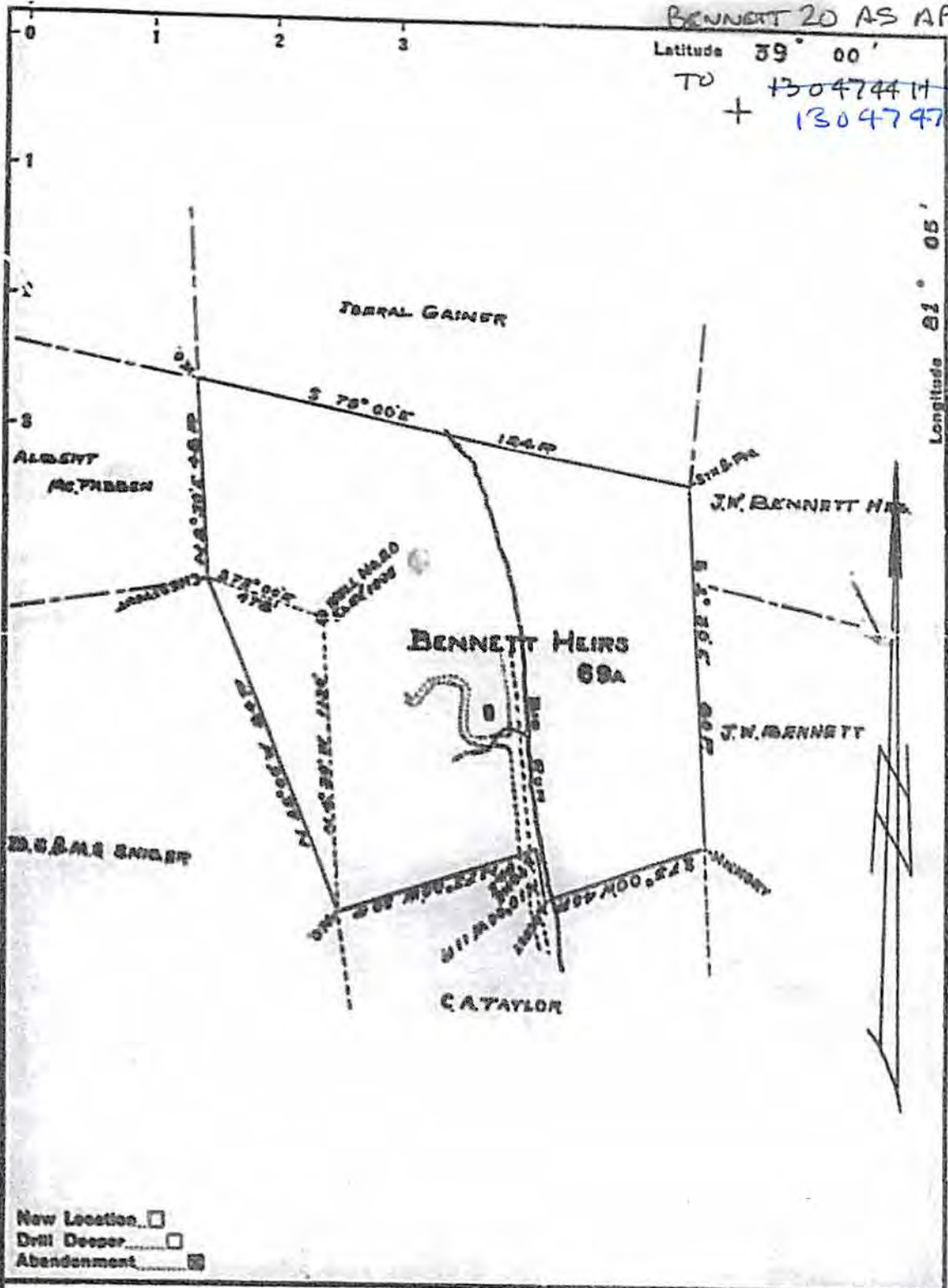
Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth found	Remarks
Big Injun				2100	Gas		





BENNETT 20 AS APPLICABLE

Latitude 39° 00'  
TO 1304744H  
+ 1304797H



New Location   
 Drill Deeper   
 Abandonment

Company H.M. RUSSELL TRUSTEE FOR MORTON  
 Address FAIRMONT, West Virginia  
 Farm BENNETT HEIRS  
 Tract \_\_\_\_\_ Acres 69 Lease No. \_\_\_\_\_  
 Well (Farm) No. 20 Serial No. \_\_\_\_\_  
 Elevation (Spirit Level) 1025'  
 Quadrangle ARNOLD BRIDGE  
 County CALVERT District SHEPHERD  
 Engineer Dale Piddell  
 Engineer's Registration No. \_\_\_\_\_  
 File No. \_\_\_\_\_ Drawing No. \_\_\_\_\_  
 Date 5-7-22 Scale 1" = 200'

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

**WELL LOCATION MAP**  
 FILE NO. CAL-154-A

⊗ Denotes location of well on United States Topographic Maps, scale 1 to 62,500, latitude and longitude lines being represented by border lines as shown.

- Denotes one inch spaces on border line of original tracing.

08/22/2014

Bennett Heirs No. 20

69-A.

Leading Creek

Chamber Oil

Completed 9-18-22 to 2036

Big Line	1950 - 2008	8 1/4	1020'
Big Injin	2020 - 2036		
Gas	2024 - 2036	6 5/8	1960'

drilled down 2" thin  
6-17-30  
Square 2069-2076  
Gas 2074-2076  
2500 No Beer.  
4/10 W 2" sp 1 hr after  
shot 30ft in  
Square sand.  
Drilled through Beer.  
Dry hole Square.

Gas test: 18/10 Marc 2" Opg. in Injin 2036

Remarks: Old well Drilled Deeper

Bennett Heirs No 21

S 31 W 27

Leading Creek

Chamber Oil

Completed 5-30-22 to 2085'

Big Line	1925 - 2045	6 5/8	1990'
Injin	2045 - 2075		
Gas	2048 - 2068		

Note: This well is No 20 on  
the Mtna Topo. Co. plat. record.  
Shot May 22, 1922 40ft  
Sand 2040 - 2075  
Shot 2050 - 2070, 1st shot  
Shot May 22, 1930 30ft  
Sand 2070 - 2089  
Shot 2073 - 2083  
3rd shot

Gas test: 18/10 Marc 2" Opg. in Injin 2068

Bennett Heirs No 22

S. 32 W 17

Leading Creek

Chamber Oil

Completed 1-10-23 to 2450'

Mason	1775 - 1855	10"	235'
Sho gas	1780	8 1/4	1025'
Injin	2021 - 2027	6 5/8	1941'
Sho gas	2021 - 2024		
Beer	2438 - 2444		
Sho oil	2444		

Note: This well is No 21 on  
the Mtna Topo. Co. plat. record.  
Shot Jan 23, 1923 30ft.  
Sand 2025 - 2071  
Shot 2025 - 2035  
1937 shot: 6 5/8

--- u. l. c. - i. b. a.

WEST VIRGINIA DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
WELL RECORD

Permit No. QAL-87-i

Oil or Gas Well GAS  
(Kind)

Company M. C. & G. K. Rogers Co.  
Address Pittsburgh, Pa.  
Farm Joseph Fortney Acres 69  
Location (waters) Big Run of Yellow Creek  
Well No. Twenty Elev. 1050  
District Sheridan County Calhoun  
The surface of tract is owned in fee by M. C. Fortney  
et. al. Address Big Bend, W. Va.  
Mineral rights are owned by Hanfer M. Bennett et.  
al. Address Weston, W. Va.

Drilling commenced March 1, 1922  
Drilling completed April 28, 1922  
Date shot April 30, 1922 Depth of shot 2075-85  
Open Flow /10ths Water in \_\_\_\_\_ Inch  
/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			Size of
10			Depth set
8 1/2		1990	Perf. top
5 3/16			Perf. bottom
3			Perf. top
2			Perf. bottom
Liners Used			

CASING CEMENTED \_\_\_\_\_ SIZE \_\_\_\_\_ No. FT. \_\_\_\_\_ Date \_\_\_\_\_  
COAL WAS ENCOUNTERED AT \_\_\_\_\_ FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES  
\_\_\_\_\_ FEET \_\_\_\_\_ INCHES FEET \_\_\_\_\_ INCHES

Formation	Color	Hard or Soft	Top	Bottom	Oil Gas or Water	Depth Found	Remarks
Big Injan			2040		Gas	2075	
				2085'			

Total depth



# NOTICE OF INTENTION TO PLUG AND ABANDON WELL

(REQUIRED BY SECTION 9, ARTICLE 4, CHAPTER 22 OF THE CODE)

## WEST VIRGINIA DEPARTMENT OF MINES

### OIL AND GAS DIVISION

To THE DEPARTMENT OF MINES,  
Charleston, W. Va.

No Coal  
COAL OPERATOR OR COAL OWNER

ADDRESS

COAL OPERATOR OR COAL OWNER

ADDRESS

Hunter M. Bennett, et. al.  
LEASE OR PROPERTY OWNER

Weston, W. Va.  
ADDRESS

M. C. & G. K. Rogers Co.  
NAME OF WELL OPERATOR

Mail all correspondence to  
T. W. Henley, Mannington, W. Va.  
COMPLETE ADDRESS

Sept. 6 1938

WELL TO BE ABANDONED

Sheridan District

Calhoun County

39° 00'

Well No. Twenty 81° 05'

Joseph Fortney Farm

Bennett Heirs

*See Cal. 84  
for original  
return*

Gentlemen—

The undersigned well operator is about to abandon the above described well and will commence the

work of plugging and abandoning said well on the.....day of....., 19.....  
(which date shall not be less than five days after the day on which this notice so mailed is received, or in due course should be received by the Department of Mines).

This notice is given 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 represented the undersigned will proceed on that date, or shortly thereafter, to plug and fill said well in the manner required by Section 10, Article 4, Chapter 22 of the Code and given in detail on the reverse side of this notice, in "Work Order."

This notice is being mailed by registered mail to each of you at the above addresses on the above date.

Very truly yours,

T. W. Henley  
Well Operator.



NOTE: Upon the abandonment of all wells drilled prior to June 1, 1929, a plat prepared by a competent engineer, showing the district and county in which the tract of land is located, the name and acreage of same, the names of the owners of adjacent tracts, and the location of the about to be abandoned well, determined by survey, and the courses and distances of such well from two permanent points or landmarks on said tract, shall be submitted with this notice.

(Over)

1304747H

WEST VIRGINIA DEPARTMENT OF MINES  
OIL AND GAS DIVISION  
WORK ORDER

CALHOUN  
87A

Well to be plugged and filled as follows:

WORK ORDER ARRANGED BY THE DEPARTMENT OF MINES

Total depth 2085'  
Pull tubing  
Fill with red clay from bottom 2085' - 2020' - 20' above Big Injun sand.  
Wood Plug 2020' - 2010' 2017'  
Cement 2010' - 2009' - sealing producing sand.  
2017'

Full 6-5/8" casing as balance of hole is filled and plugged.

Continue to fill with red clay from 2000' - 1550'  
Cement 1550' - 1540'  
Red Clay 1540' - 1250'  
Cement 1250' - 1240' - sealing hole above Big Dunkard Sand.  
Continue to fill with clay to 900'

Set a permanent bridge at 350'  
1 sack cement on bridge.  
Red Clay 350' - to surface.  
Erect Marker such as is required by Rule 18, 1931 regulations.

NOTE: CEMENT FOR MAKING CEMENT PLUGS BE MIXED WITH WATER ONLY--APPROXIMATELY FIVE GAL WATER TO ONE SACK CEMENT.

To the Department of Mines,  
Coal Owner or Operator,  
Lease or Property Owner.

Gentlemen:

This "work order" is submitted for your approval and concurrence and unless notified of your disapproval or non-concurrence, the undersigned will proceed with the plugging and filling of said well in the above described manner on the date stated in the notice of intention to plug and abandon the said well on opposite side of this sheet.

Very truly yours,

*Thos. H. Handley*  
Well Operator.

No objections have been filed by the coal owner or coal operator, or any available adjacent lease or property owners or interposed by the Department of Mines to the manner herein described for the plugging and filling of the well above mentioned. Therefore, the same is hereby approved this \_\_\_\_\_ day

of \_\_\_\_\_, 193\_\_\_\_\_

September

3

DEPARTMENT OF MINES  
Oil and Gas Division

By: \_\_\_\_\_

NOTE: This "work order" must be filed in duplicate, one copy for the files of the Department of Mines and the other to be approved or corrected and returned to the well operator as his authority for plugging said well.

08/22/2014



WW-2A Surface Waiver

SURFACE OWNER WAIVER

County CALHOUN

Operator  
Operator well number

BUCKEYE OIL PROUDUCING  
J.M. BENNETT 1-H-A

**INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A**

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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 57<sup>th</sup> 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 **FIFTEEN (15) 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 a 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.

**List of Water Testing Laboratories.** The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

**VOLUNTARY STATEMENT OF NO OBJECTION**

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application for a Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through \_\_\_ including a work order on Form WW2-B, a survey plat, and a soil and erosion plan, all for proposed well work on my surface land as described therein.

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

FOR EXECUTION BY A CORPORATION, ETC.

*Shirley Taylor*  
Signature  
*Shirley Taylor*  
*Douglas Taylor*

Date 8-13-14

Print Name  
Shirley Taylor

8-13-14

Company Name \_\_\_\_\_  
By \_\_\_\_\_  
Its \_\_\_\_\_ Date \_\_\_\_\_

Signature \_\_\_\_\_ Date \_\_\_\_\_

WW-2A1  
(Rev. 1/11)

Operator's Well Number Bennett #1HA

**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
Okmar Oil Company	Buckeye Oil Producing Co.	1/8th	229 / 543

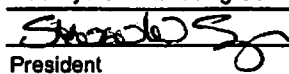
**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

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

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

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

Well Operator:  
By: Its:

Buckeye Oil Producing Co.  
  
President



WW-2B1  
(5-12)

Well No. Bennett #1HA

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 Laboratory Name Microboc Lab  
Sampling Contractor Buckeye Oil Producing Co.

Well Operator Buckeye Oil Producing Co.  
Address PO Box 129  
Wooster, OH 44691  
Telephone 330-264-8847

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 you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

(1)  
DOUG & SHIRLEY TAYLOR  
3868 YELLOW CREEK ROAD  
BIG BEND, WV 26136

1304747H

WW-9  
(5/13)

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - \_\_\_\_\_ - \_\_\_\_\_  
Operator's Well No. Bennett #1HA

*Existing  
Pit from  
P. 4744*

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Buckeye Oil Producing Co. OP Code 306103

Watershed (HUC 10) Unnamed drain & Big Run of Yellow Creek Quadrangle Grantsville

Elevation 1002 County Calhoun District Sheridan

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

Will a pit be used for drill cuttings? Yes X No \_\_\_\_\_

If so, please describe anticipated pit waste: rock cuttings; drilled solids, drilling & completion fluids

Will a synthetic liner be used in the pit? Yes X No \_\_\_\_\_ If so, what ml? 20

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number \_\_\_\_\_ )
- Reuse (at API Number \_\_\_\_\_ )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Existing pit if necessary)

*8/19/14*

*Existing*

Will closed loop system be used? air drilling operations, no fluid drilling (if necessary) - Yes

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. air, foam/soad, fresh water, water base polymer mud

-If oil based, what type? Synthetic, petroleum, etc. N/A

Additives to be used in drilling medium? drilling mud - sodium/calcium/potassium chlorides, starch, xanthan gum, sodium bicarbonates, caustic soda, biocide.

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. primary plan - leave in pits; alternate plan - landfill

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

-Landfill or offsite name/permit number? if necessary, haul to Meadowfill Landfill

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, 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 *Steven W. Sigler*

Company Official (Typed Name) Steven W. Sigler

Official Title President



Subscribed and sworn before me this 13th day of August, 2014

*Cheryl L. Becker* Notary Public

CHERYL L. BECKER

NOTARY PUBLIC  
STATE OF OHIO

My Commission Expires  
November 4, 2017

**08/22/2014**

Proposed Revegetation Treatment: Acres Disturbed 2.3 +/- Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

Fertilizer (10-20-20 or equivalent) 1/3 ton lbs/acre (500 lbs minimum)


Mulch straw 2 Tons/acre

Seed Mixtures

Seed Type	Area I	lbs/acre	Seed Type	Area II	lbs/acre
KY - 31		40	Orchard Grass		15
Alsike Clover		5	Alsike Clover		5
Annual Rye		15			

Attach:  
Drawing(s) of road, location, pit and proposed area for land application.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: \_\_\_\_\_

- Existing location -  
had to plug first hole - this is  
an alternate on existing site.

Title: Inspector Date: 8/15/14

Field Reviewed?  Yes  No

1304747H

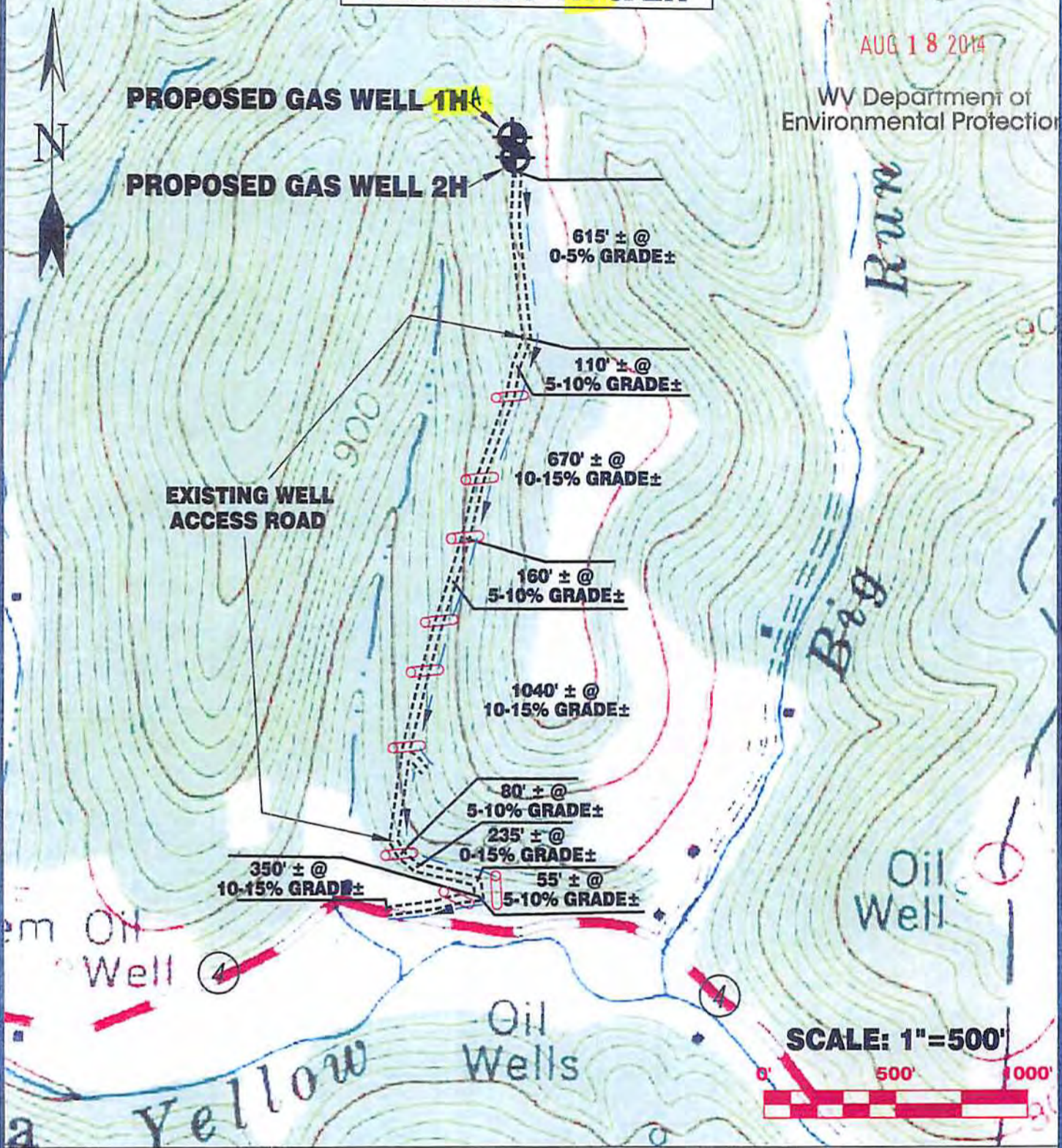


# J.M. BENNETT LEASE WELL NO.S 1H & 2H

page of  
RECEIVED  
Office of Oil and Gas

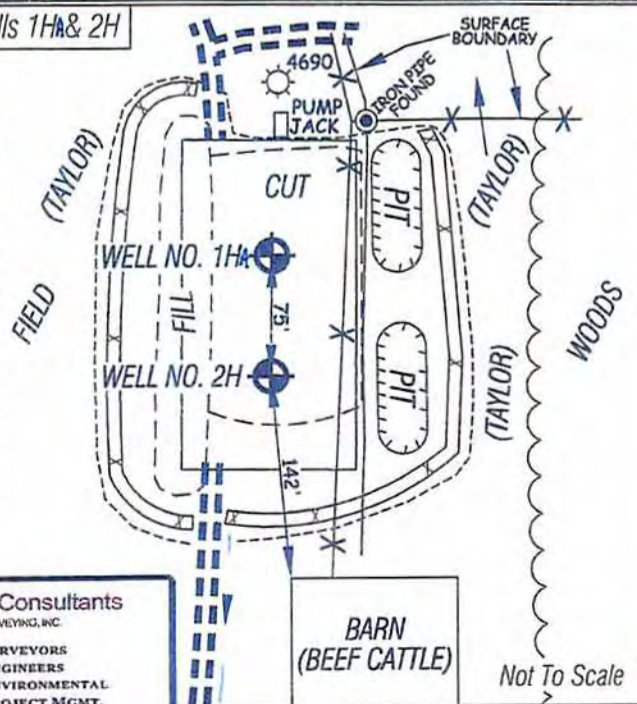
AUG 18 2014

WV Department of  
Environmental Protection



Detail Sketch for Proposed Wells 1H & 2H

OK EDC #1009  
by JMM  
8/18/14  
WOODS



ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BMP MANUAL ENTRANCES AT COUNTY STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATION. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

SEDIMENT BASINS (TRAPS) AND APPROPRIATE EROSION CONTROL BARRIERS ARE TO BE CONSTRUCTED AT ALL CULVERT AND CROSS DRAIN INLETS AND OUTLETS AS REQUIRED IN THE WV D.E.P. OIL AND GAS BMP MANUAL. FIELD CONDITIONS (ROCK OUTCROPS AND BEDROCK) MAY PROHIBIT INLET TRAPS BEING INSTALLED. WHEN THESE CONDITIONS EXIST ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

EARTHWORK CONTRACTORS ARE RESPONSIBLE FOR NOTIFICATION TO THE OPERATOR AND INSPECTOR PRIOR TO ANY DEVIATION FROM THIS PLAN.

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL

APPLICATIONS FOR SEPARATE PLC PERMITS ON THE ACCESS ROAD STREAM CROSSINGS HAVE BEEN PREPARED (IF APPLIES).

- EXISTING CULVERT
- PROPOSED CULVERT 15' MIN UNLESS OTHERWISE NOTED
- PROPOSED STREAM CROSSING
- APPROXIMATE LIMITS OF DISTURBANCE

08/22/2014

Professional Energy Consultants  
A DIVISION OF SMITHLAND SURVEYING, INC.

**SLS**

SURVEYORS  
ENGINEERS  
ENVIRONMENTAL  
PROJECT MGMT.

(304) 482-9534  
WWW.SLSURVEYS.COM

DRAWN BY: K.O.W. FILE NO.: 8040 DATE: 06/09/14 CADD FILE:

TOPO SECTION OF GRANTSVILLE 7.5' USGS TOPO QUADRANGLE

**NOTES ON SURVEY**

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL.

POSSIBLE 109 ACRES± TRACT

LATITUDE 39°00'00"

LONGITUDE 81°05'00"

NAD'27 GRID NORTH

BUCKEYE OIL PRODUCING 34.25 ACRES±

HEARTWOOD FORESTLAND FUND IV LIMITED PARTNERSHIP 199.15 ACRES± TM 08-07

DOUGLAS & SHIRLEY TAYLOR 69 ACRES±

DOUGLAS E. & SHIRLEY TAYLOR 62 ACRES± TM 08-12

DOUGLAS & SHIRLEY TAYLOR 99.44 ACRES± TM 08-15

DOUGLAS TAYLOR 105.59 ACRES±

**LEGEND**

LEASE LINE	---
SURFACE LINE	----
WELL LATERAL	- - - -
OFFSET LINE	----
TIE LINE	----
CREEK	~~~~~
FENCE	* * * * *
PROPOSED WELL	⊙
EXISTING WELL	⊙
PERMITTED WELL	⊙
TAX MAP-PARCEL	00-00

BOTTOM HOLE WELL NO. 1HA

WELL NO. 1HA

N 60°41' W 374.86'  
 A = 665.29'  
 R = 1484.72'  
 D = 26°01'28"

A = 200.00'  
 R = 1440.59'  
 D = 07°57'16"

N 67°15' W 3002.58'

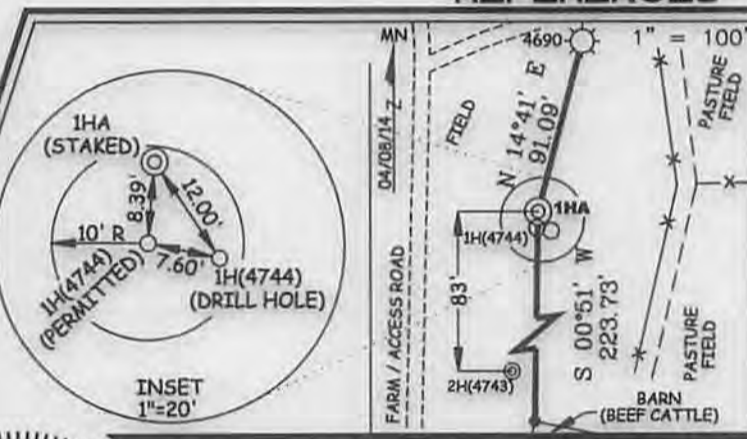
1" REBAR FOUND

**J.M. BENNETT LEASE  
700 ACRES±  
WELL NO. 1HA**

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

NAD'27 S.P.C.(FT) N. 724,083 E. 1,987,824  
 NAD'27 GEO. LAT-(N) 38.98839 LONG-(W) 81.11319  
 NAD'83 UTM (M) N. 4,315,503 E. 490,211  
**BOTTOM HOLE**  
 NAD'27 S.P.C.(FT) N. 726,085 E. 1,966,135  
 NAD'27 GEO. LAT-(N) 39.99388 LONG-(W) 81.11914  
 NAD'83 UTM (M) N. 4,316,113 E. 489,697

**REFERENCES**



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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 09, 20 14  
 REVISED AUGUST 12, 20 14  
 OPERATORS WELL NO. J.M. BENNETT 1HA  
 API WELL NO. 47-013-04747H  
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 8040P1HA  
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (MAPPING GRADE TIE TO CORS NETWORK) SCALE 1" = 500'

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 1,002' WATERSHED UNNAMED DRAIN & BIG RUN OF YELLOW CREEK  
 DISTRICT SHERIDAN COUNTY CALHOUN QUADRANGLE GRANTSVILLE 7.5'

SURFACE OWNER DOUGLAS E. AND SHIRLEY TAYLOR ACREAGE 62±  
 ROYALTY OWNER J.M. BENNETT HEIRS AND/OR ASSIGNS ACREAGE 700±

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 BEREA  
 ESTIMATED DEPTH TVD 2,467' TMD 4,840'

WELL OPERATOR BUCKEYE OIL PRODUCING CO. DESIGNATED AGENT HENRY W. SINNETT  
 ADDRESS P.O. BOX 129 ADDRESS RT. 1 BOX 150A  
WOOSTER, OH 44691 BIG BEND, WV 26136

08/22/2014

COUNTY NAME PERMIT