



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

Tuesday, July 9, 2019
WELL WORK PERMIT
Horizontal 6A / New Drill

JAY-BEE OIL & GAS, INC.
1720 RT. 22 E

UNION, NJ 070830000


Re: Permit approval for DOC 3
47-095-02621-00-00

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: DOC 3
Farm Name: FRANCIS W. TENNANT SR. 
U.S. WELL NUMBER: 47-095-02621-00-00
Horizontal 6A New Drill
Date Issued: 7/9/2019

PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

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

WW-6B
(04/15)

47 09 502621
API NO. 47- _____
OPERATOR WELL NO. Doc 3
Well Pad Name: Doc

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

1) Well Operator: Jay-Bee Oil & Gas, Inc. 24610 Tyler McElroy Shirley 7.5'
Operator ID County District Quadrangle

2) Operator's Well Number: Doc 3 Well Pad Name: Doc

3) Farm Name/Surface Owner: Francis Tennant Sr & Randy Tustin Public Road Access: Indian Creek Rd

4) Elevation, current ground: 1,039.5' Elevation, proposed post-construction: 1,039.5'

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

Other _____

(b) If Gas Shallow Deep _____

Horizontal _____

JOB
4/18/2019

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, Target Depth 6,785', 41-60' thick, 3500# pressure

8) Proposed Total Vertical Depth: 6,785'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 12,282'

11) Proposed Horizontal Leg Length: 3,811.4'

12) Approximate Fresh Water Strata Depths: 60-90'

13) Method to Determine Fresh Water Depths: API 47-095-02191

14) Approximate Saltwater Depths: N/A

15) Approximate Coal Seam Depths: N/A

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

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

(a) If Yes, provide Mine Info: Name: _____
Depth: _____
Seam: _____
Owner: _____

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	16	New	J55	40	30'	30'	8.22 CTS
Fresh Water	11 3/4	New	J55	32	300'	300'	142.25 CTS
Coal							
Intermediate	8 5/8	New	J55	24	2,000'	2,000'	508.43 CTS
Production	5 1/2	New	P110	17	12,282'	12,282'	1954 CF1000' from surface
Tubing	N/A						
Liners	N/A						

JCS
4/10/2019

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	16	17 1/2	.495	3,000#	50	Class A	1.19
Fresh Water	11 3/4	15	.333	1,500#	1,000	Class A	1.26
Coal							
Intermediate	8 5/8	11	.264	2,950#	1,500	Class A	1.45
Production	5 1/2	7 7/8	.304	15,000#	2,500	Type 1 Cement	1.34
Tubing	N/A						
Liners	N/A						

PACKERS

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

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

Drill and Stimulate a new Horizontal Well. Using a top hole rig, we will drill top hole to kick off point by drilling the conductor, freshwater and intermediate holes. Using a directional rig we will drill the production holes.

JCB
4/18/2019

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

300-350' per stage 8,500bbls of water, 150,000-400,000lbs of sand, friction reducer, 1# per gallon, scale inhibitor and bacteria prevention 1/4# per gallon 2000 gallons 15% vol acid. 77bpm @ 6500# pressure.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 11.47

22) Area to be disturbed for well pad only, less access road (acres): 6.34

23) Describe centralizer placement for each casing string:

Vertical - Every 500' Bow Centralizer, and 50' from top of ground. Horizontal every 42' Spiral Centralizer, Curve - Every 84' Spiral Centralizer.

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

15" hole for the 11 3/4 fresh water case, Class A Cement, 2% Calcium Chloride, 1/4# flake.
11" hole for the 8 5/8 intermediate base, Class A Cement, 2% Calcium Chloride
7 7/8" hole for the 5 1/2 production case, Type1 Cement, Fly Ash, Barite, Finetol 300L, R-3 Celio Flake, Sugar, CD-32, FL-62

25) Proposed borehole conditioning procedures:

Air Hole: 15" hole for the 11 3/4 fresh water case - Circulate until clean with air. If soaping, slug then dry.

Air Hole: 11" hole for the 8 5/8 intermediate base - Circulate until clean with air. If soaping, slug then dry.

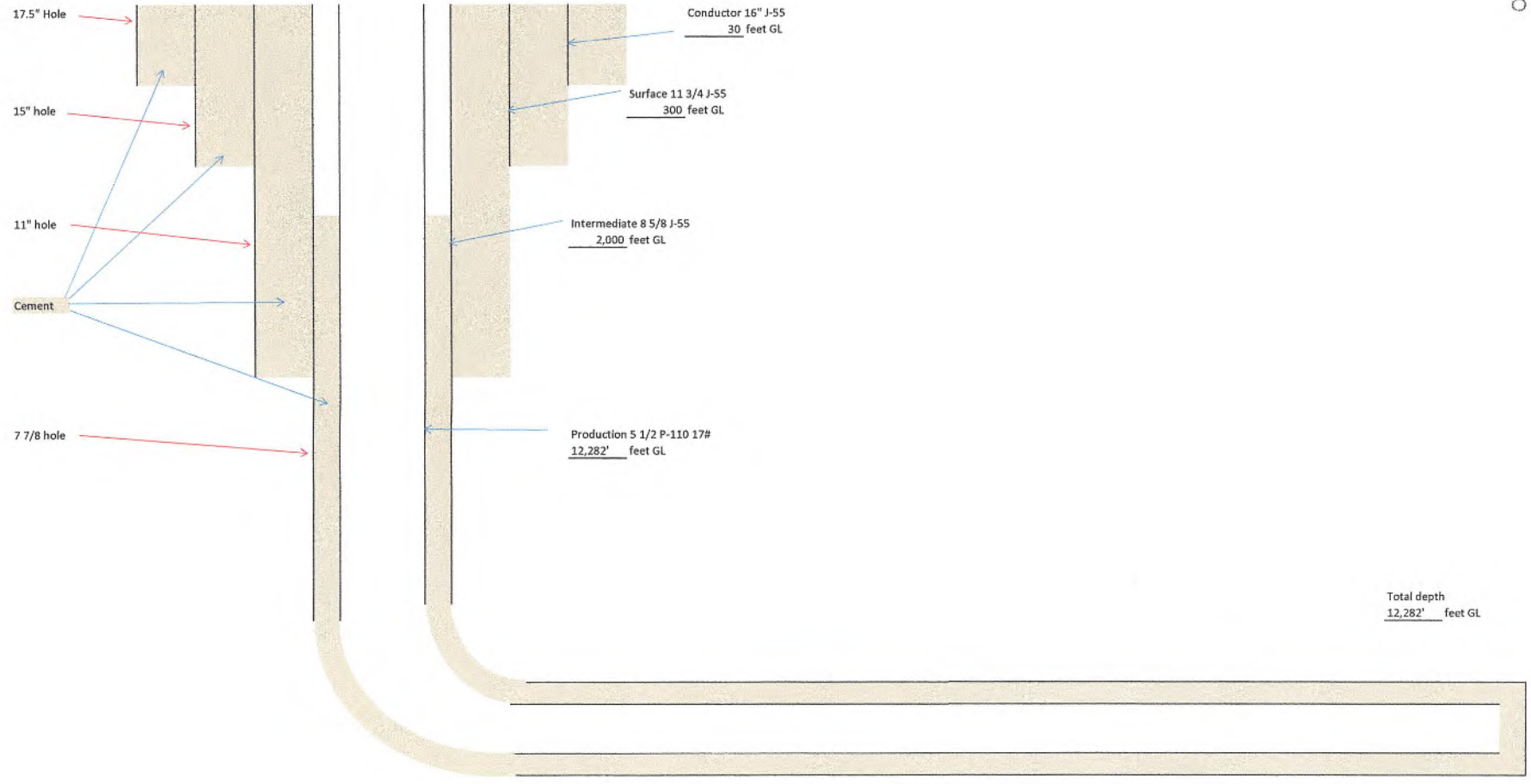
7 7/8" hole for the 5 1/2 production case - Circulate with mud and sweeps for two times bottoms up. If needed weight up mud until no cuttings retrieved, then circulate with mud and sweeps for two times bottoms up.

*Note: Attach additional sheets as needed.

4709502621

Jay-Bee Oil & Gas Inc.
Well Name Doc 3
GL Elevation 1039.5'
KB 14 feet

Date 4/16/2019
District McElroy
County Tyler
State West Virginia



JEB
4/18/2019

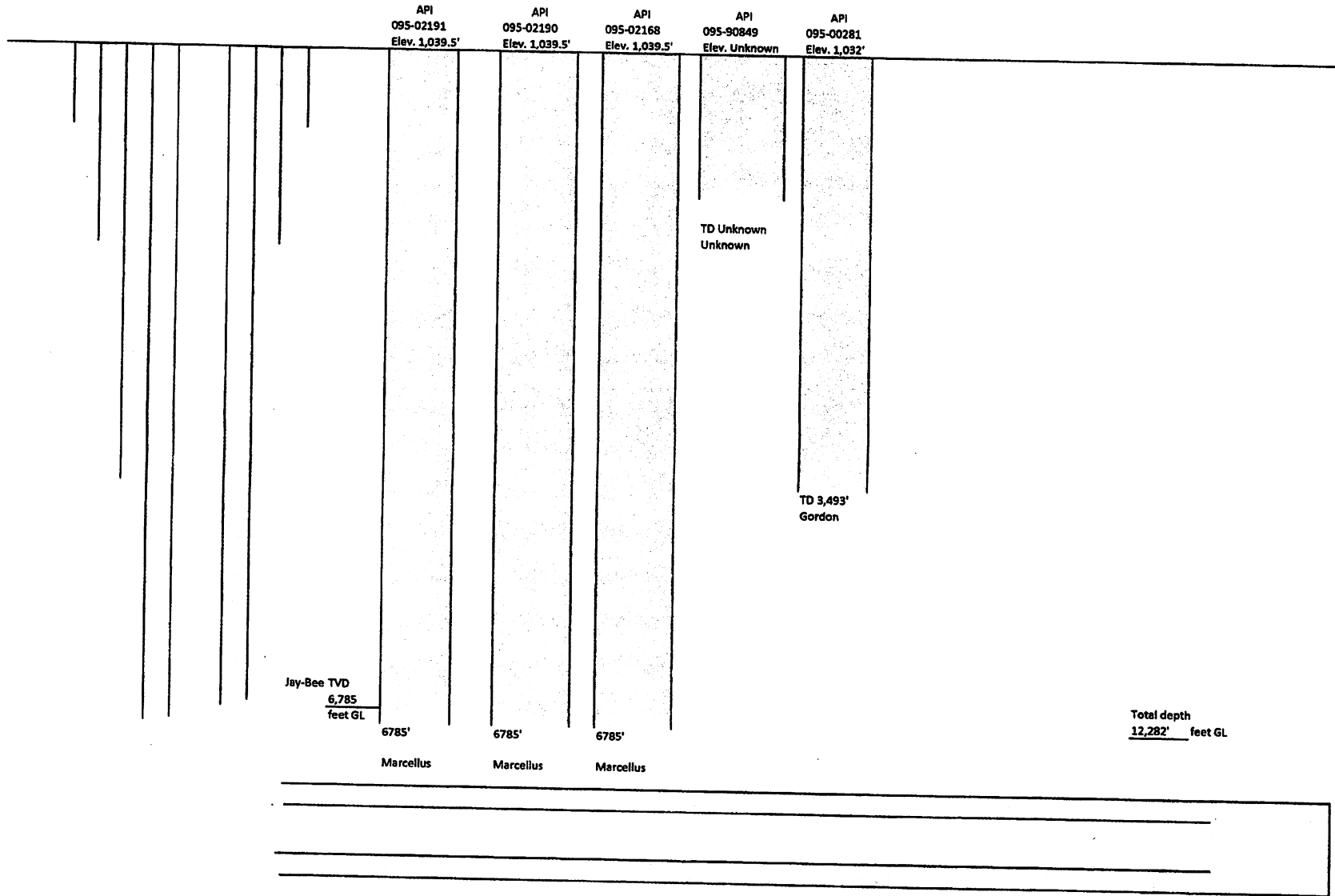
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Jay-Bee Oil & Gas Inc.
Well Name Grumpy 7
GL Elevation 1039.5'

Well-Site Safety Plan Anti-Collision Schematic



95-021621

Well-Site Safety Plan Anti-Collision Schematic

Top Hole



API 47-095-90849

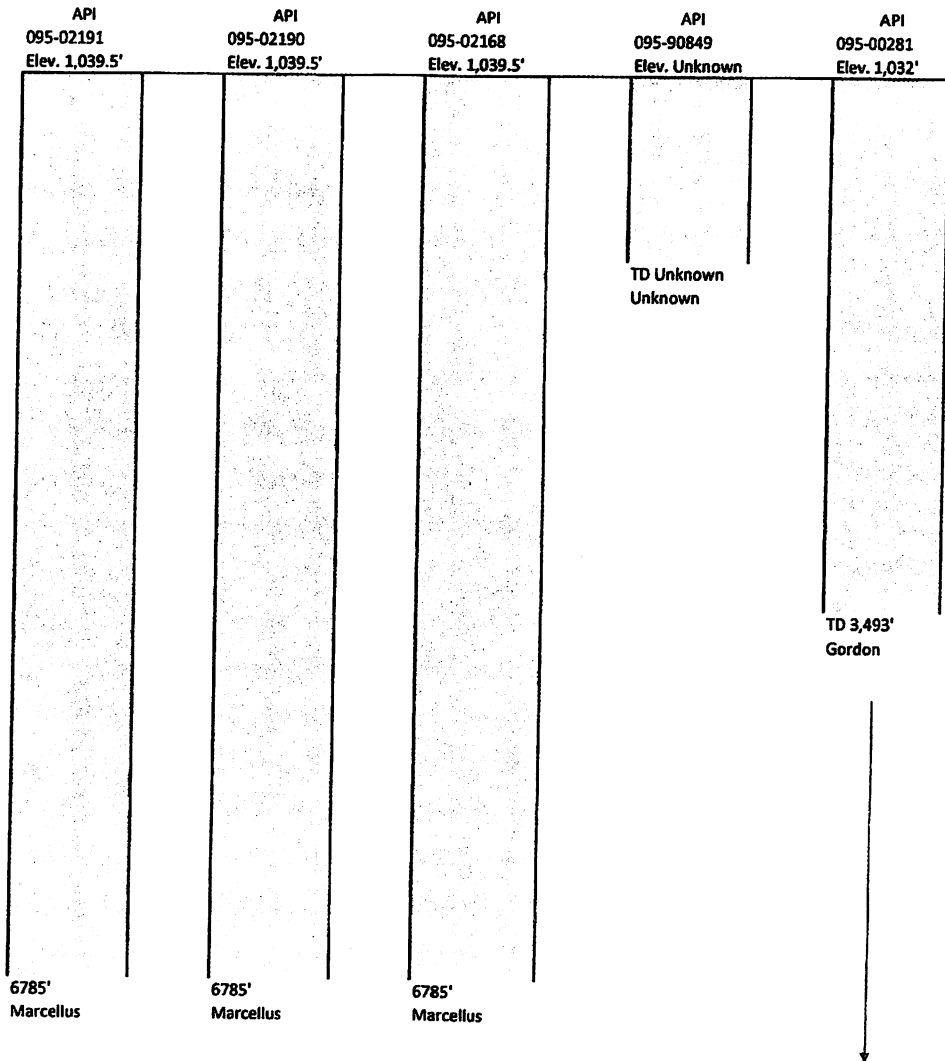


API 47-095-00281



Bottom Hole

Area of Review
Doc 3 - API Pending



Operator	Jay-Bee Oil & Gas, Inc		Jay-Bee Oil & Gas, Inc		Jay-Bee Oil & Gas, Inc		Unknown		Commonwealth Energy
Well Name	Doc 1		Doc 2		Doc 6		Unknown		1
Perforated Formations	Marcellus		Marcellus		Marcellus		Unknown		Gordon
Unperforated Producing Formations	Elk		Elk		Elk				Gordon
	Alexander		Alexander		Alexander				Gantz
	Benson		Benson		Benson				Berea
	Riley		Riley		Riley				Weir
	Speechley		Speechley		Speechley				Big Injun
	Warren		Warren		Warren				Keener
	Gordon		Gordon		Gordon				Big Lime
	Gantz		Gantz		Gantz				Maxon
	Berea		Berea		Berea				Big Dunkard
	Weir		Weir		Weir				Little Dunkard
	Big Injun		Big Injun		Big Injun				Cow Run
	Keener		Keener		Keener				
	Big Lime		Big Lime		Big Lime				
	Maxon		Maxon		Maxon				
	Big Dunkard		Big Dunkard		Big Dunkard				
	Little Dunkard		Little Dunkard		Little Dunkard				
	Cow Run		Cow Run		Cow Run				

WW-9
(4/16)

API Number 47 - _____ - _____
Operator's Well No. Doc 3

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Jay-Bee Oil & Gas, Inc. OP Code 24610

Watershed (HUC 10) Outlet Middle Island Creek Quadrangle Shirley 7.5'

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
- Underground Injection (UIC Permit Number 47-085-09721)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Using Contract Haulers (API's 47-085-05151))

*JCB
4/16/2019*

Will closed loop system be used? If so, describe: Yes, Centrifuge Drying Shaker System for Top Hole & Horizontal section

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

-If oil based, what type? Synthetic, petroleum, etc. ABS 40 (Aliphatic Base System) Synthetic

Additives to be used in drilling medium? Barite, ABS MUL/VIS, Bentone990, CACL2, CalCarb,FLR, Lime,Multifiber,Permaseal,Nut Plug

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. Landfill

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

-Landfill or offsite name/permit number? Meadowfill/Permit 101219WV

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 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 Chris Lindsey

Company Official (Typed Name) Chris Lindsey

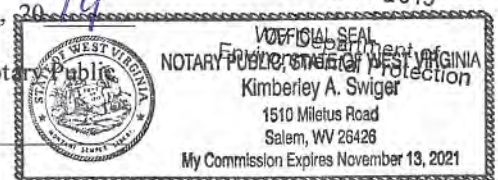
Company Official Title Office Manager

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Subscribed and sworn before me this 17th day of April, 2019

Kimberley A. Swiger
Notary Public

My commission expires November 13, 2021



Jay-Bee Oil & Gas, Inc.

Proposed Revegetation Treatment: Acres Disturbed 11.47 Prevegetation pH 6.8

Lime 2-3 Tons/acre or to correct to pH 6.8

Fertilizer type 10-20-20

Fertilizer amount 500 lbs/acre

Mulch Hay 2 Tons/acre

Seed Mixtures

Temporary		Permanent	
Seed Type	lbs/acre	Seed Type	lbs/acre
Annual Ryegrass	40	KY Bluegrass	20
Field Bloomgrass	40	Creeping Red Fescue	30
Sudangrass	40	Perennial Ryegrass	10

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, include dimensions (L x W x D) of the pit, and dimensions (L x W), and area in acreage, of the land application area.

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments:

Title: Oil & Gas Inspector

Date: 4/18/2019

Field Reviewed? (X) Yes () No

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DOC 3

WELL SITE SAFETY PLAN

JAY-BEE OIL & GAS, INC

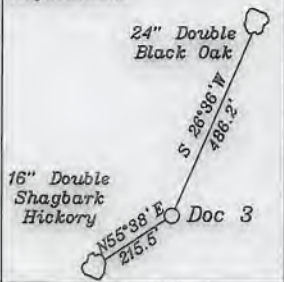
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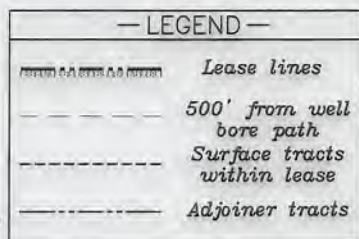
WV Department of
Environmental Protection

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4/18/2019

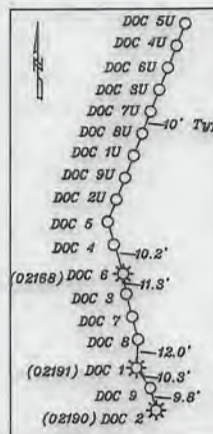
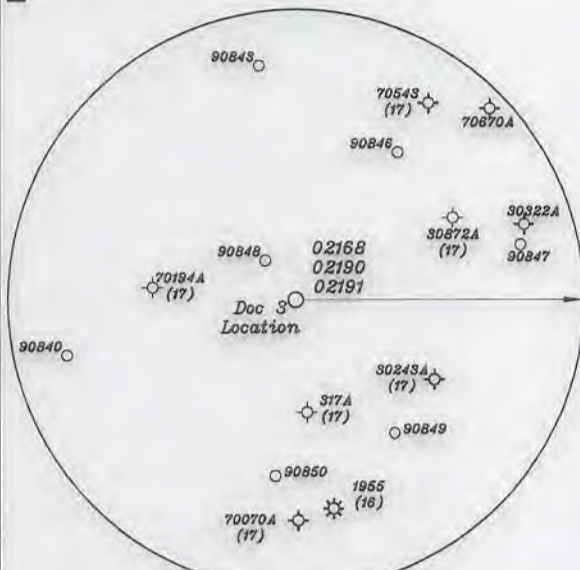
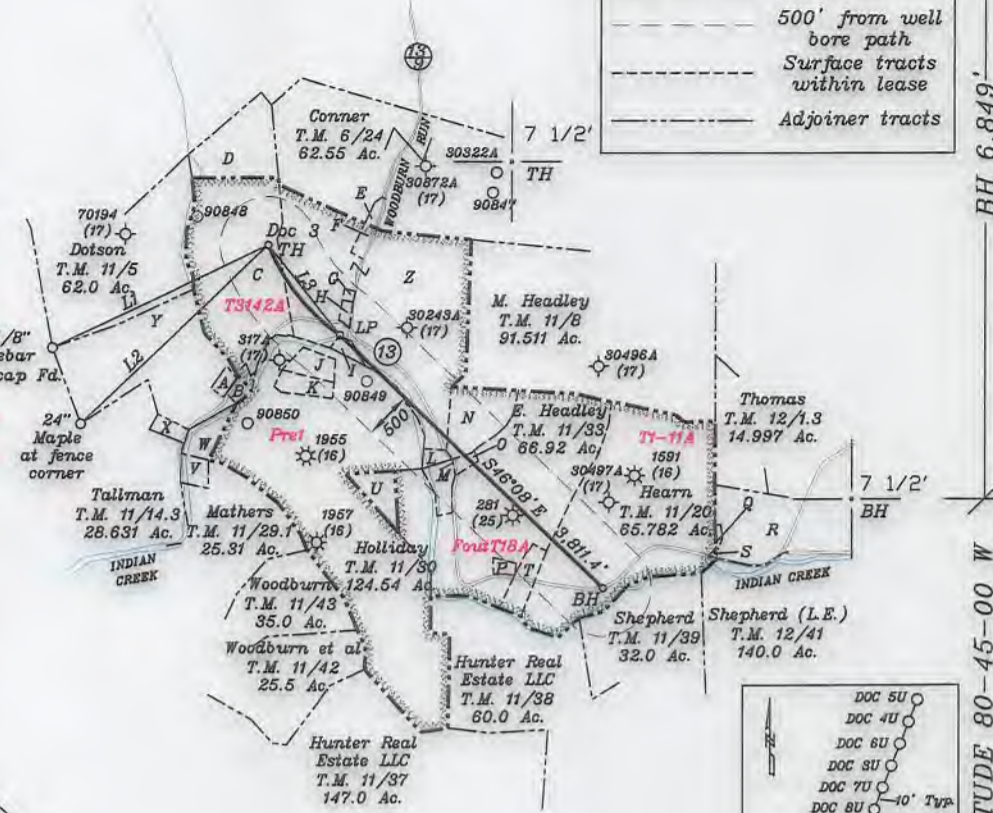
References:



LATITUDE 39-27-30 N



- A- R. Dotson T.M. 11/5.2 1.0 Ac.
- B- Straight T.M. 11/15 0.88 Ac.
- C- Tennant & Tustin T.M. 11/6 46.51 Ac.
- D- Jay Bee Oil & Gas, Inc T.M. 6/35.1 8.0 Ac.
- E- Fields & Leisure T.M. 11/52 1.25 Ac.
- F- Hoover T.M. 11/17.4 1.12 Ac. **T3048A**
- G- Hoover T.M. 11/17.2 0.25 Ac. **T3048B3**
- H- Lancaster T.M. 11/17.3 0.6 Ac. **T3048B2**
- I- Mt. Zion Cemetery T.M. 11/16 0.88 Ac. **Pre1**
- J- Victory Cemetery Association T.M. 11/30.4 3.76 Ac. **Pre2,3**
- K- Victory Cemetery Association T.M. 11/30.5 2.70 Ac. **Pre2,3**
- L- Wilson & Black T.M. 11/17.1 0.65 Ac. **T3048A3**
- M- Wilson & Black T.M. 11/31 2.4 Ac. **T3048A4**
- N- M. Headley T.M. 11/33.1 9.227 Ac. **FoudT18B**
- O- Eureka T.M. 11/32 0.88 Ac. **FoudT18A**
- P- T. Headley T.M. 11/34 0.78 Ac. **FoudT18A**
- Q- Lancaster T.M. 12/1.1 0.298 Ac.
- R- Thomas T.M. 12/1.2 14.702 Ac.
- S- Thomas T.M. 12/67.1 0.095 Ac.
- T- Lancaster T.M. 11/35 1.32 Ac. **FoudT18A**
- U- Holliday T.M. 11/30.1 12 Ac.
- V- Holliday T.M. 11/30.2 0.56 Ac.
- W- Holliday T.M. 11/30.3 0.52 Ac.
- X- Woodburn et al T.M. 11/14.1 2.0 Ac.
- Y- E. Dotson T.M. 11/5.1 37.0 Ac.
- Z- Hoover T.M. 11/17 73.38 Ac. **T3048A**



NUMBER	DIRECTION	DISTANCE
L1	N64°42'E	2,479.4'
L2	N46°30'E	2,684.5'
L3	S38°17'E	1,185.4'

Top Hole - TH
 Geo NAD 83- 39.449166 N, 80.768239 W
 UTM NAD 83(Meters)-4366648.62 N, 519941.10 E
 UTM NAD 83(Feet)-14326246.36 N, 1705840.10 E

Landing Point - LP
 Geo NAD 83- 39.446676 N, 80.765536 W
 UTM NAD 83(Meters)-4366372.88 N, 520174.40 E
 UTM NAD 83(Feet)-14325341.69 N, 1706806.50 E

Bottom Hole - BH
 Geo NAD 83- 39.439531 N, 80.755676 W
 UTM NAD 83(Meters)-4365582.16 N, 521024.93 E
 UTM NAD 83(Feet)-14322747.46 N, 1709395.96 E

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

FILE NO. _____
 DRAWING NO. 1
 SCALE 1" = 2000'
 MINIMUM DEGREE OF ACCURACY 1 in 200
 PROVEN SOURCE OF ELEVATION GPS
submeter unit

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

(SIGNED) David L. Jackson
 R.P.E. _____ P.S. 708



STATE OF WEST VIRGINIA
 Division of Environmental Protection
 OFFICE OF OIL AND GAS

DATE January 26, 2018
 OPERATOR'S WELL NO. Doc 3
 API WELL NO. _____

WELL TYPE: OIL GAS LIQUID INJECTION _____ WASTE DISPOSAL _____ STATE 47 COUNTY 95 PERMIT 0262146A
 (IF "GAS") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X

LOCATION: ELEVATION 1,039.5' WATER SHED Indian Creek of Outlet Middle Island Creek (HUC-10)
 DISTRICT McElroy COUNTY Tyler
 QUADRANGLE Shirley 7 1/2'

SURFACE OWNER Francis W. Tennant Sr. & Randy W. Tustin ACREAGE 46.51 Ac.
 OIL & GAS ROYALTY OWNER Arnold Schulberg LEASE ACREAGE 46.51 Ac.
 LEASE NO. See Above

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION _____ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
 TARGET FORMATION Marcellus ESTIMATED DEPTH TVD = 6,785'; TMD = 12,282'
 WELL OPERATOR Jay-Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
 ADDRESS 1720 Route 22 E, Union, NJ 07083 ADDRESS 3570 Shields Hill Rd., Cairo, WV 26337

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

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
T3142A ✓	Arnold Schulberg	JB Exploration I, LLC	12.5%	400-336
T3048A ✓	Ascent Resources, LLC	JB Exploration I, LLC	12.5%	496-377
Pre1 ✓	Precision Operating, LLC	JB Exploration I, LLC	12.5%	403-802
FoutT18B ✓	Mark Headley	Jay-Bee Production Company	12.5%	387-327
FoutT18A ✓	Kenneth & Jennifer Mason	JB Exploration I, LLC	12.5%	401-385
T1-11A ✓	Joan Ross	JB Exploration I, LLC	12.5%	418-532
Affidavit	Jay-Bee Production Company	Jay-Bee Oil & Gas, Inc.		
Affidavit	JB Exploration I, LLC	Jay-Bee Oil & Gas, Inc.		

**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: Jay-Bee Oil & Gas, Inc.

By: Chris Lindsey

Its: Office Manager

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Office of Oil and Gas

APR 24 2019

Chris Lindsey

AFFIDAVIT FILED PURSUANT TO
W. Va. CODE §§ 22-6-8 & 22-6A-5(a)(5)

STATE OF WEST VIRGINIA

COUNTY OF RITCHIE, to-wit:

Randy Broda, President of Jay-Bee Oil & Gas, Inc., and Randy Broda, Managing Member of JB Exploration I, LLC being duly sworn, state as follows:

1. I, Randy Broda, am the President of the applicant, Jay-Bee Oil & Gas, Inc. In my capacity as President, I am qualified and authorized to certify and verify the information set forth or referenced herein on behalf of the applicant.
2. I, Randy Broda, am the Managing Member of JB Exploration I, LLC, which holds the rights to extract, produce or market the oil or gas. In my capacity as Managing Member, I am qualified and authorized to certify and verify the information set forth or referenced herein on behalf of JB Exploration I, LLC.
3. We certify that we are authorized by the holders of the right to extract, produce or market the oil or gas, if not the applicant, to state that the applicant has the right to extract, produce or market the oil or gas pursuant to the leasing and other continuing contract information provided in the application(s) for the Doc 3, Doc 4, Doc 5, Doc 7, Doc 8, Doc 9 wells (API No(s). to be determined), on Form WW-6A1.
4. We certify that we are authorized by the owner of the working interest in the well to state that it shall tender to the owner of the oil or gas in place not less than one eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced or marketed from the well.
5. We certify under the penalty of law that we have personally examined and are familiar with the information contained and referenced herein and that, based on our inquiries of those individuals immediately responsible for obtaining the information, we believe that the information is true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

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APR 24 2019

WV Department of
Environmental Protection

Further affiants sayeth naught.

[Signature]
Randy Broda, President of Jay-Bee Oil & Gas, Inc.

Taken, subscribed and sworn to before me, the undersigned Notary Public, this 10th day of January, 2018 by Randy Broda, President of Jay-Bee Oil & Gas, Inc., on behalf of the corporation.

My commission expires: April 18, 2022

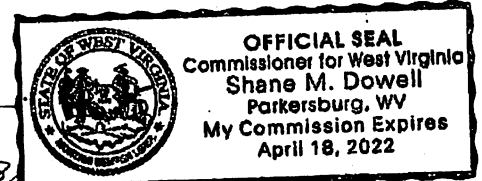


[Signature]
NOTARY PUBLIC

[Signature]
Randy Broda, Managing Member of JB Exploration I, LLC

Taken, subscribed and sworn to before me, the undersigned Notary Public, this 10th day of January, 2018 by Randy Broda, Managing Member of JB Exploration I, LLC, on behalf of the company.

My commission expires: April 18, 2022



[Signature]
NOTARY PUBLIC

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AFFIDAVIT FILED PURSUANT TO
W. Va. CODE §§ 22-6-8 & 22-6A-5(a)(5)

STATE OF WEST VIRGINIA

COUNTY OF RITCHIE, to-wit:

Randy Broda, President of Jay-Bee Oil & Gas, Inc., and Randy Broda, Managing Member of Jay-Bee Production Company, being duly sworn, state as follows:

1. I, Randy Broda, am the President of the applicant, Jay-Bee Oil & Gas, Inc. In my capacity as President, I am qualified and authorized to certify and verify the information set forth or referenced herein on behalf of the applicant.
2. I, Randy Broda, am the Managing Member of Jay Bee Production Company, which holds the rights to extract, produce or market the oil or gas. In my capacity as Managing Member, I am qualified and authorized to certify and verify the information set forth or referenced herein on behalf of Jay Bee Production Company.
3. We certify that we are authorized by the holders of the right to extract, produce or market the oil or gas, if not the applicant, to state that the applicant has the right to extract, produce or market the oil or gas pursuant to the leasing and other continuing contract information provided in the application(s) for the Doc 3, Doc 4, Doc 5, Doc 7, Doc 8, Doc 9 wells (API No(s). to be determined), on Form WW-6A1.
4. We certify that we are authorized by the owner of the working interest in the well to state that it shall tender to the owner of the oil or gas in place not less than one eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced or marketed from the well.
5. We certify under the penalty of law that we have personally examined and are familiar with the information contained and referenced herein and that, based on our inquiries of those individuals immediately responsible for obtaining the information, we believe that the information is true, accurate, and complete. We are aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment.

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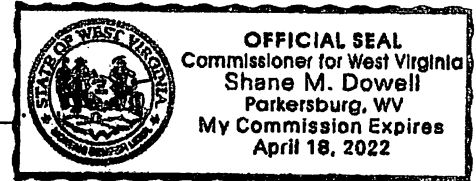
Department of
Environmental Protection

Further, affiants sayeth naught.

[Signature]
Randy Broda, President of Jay-Bee Oil & Gas, Inc.

Taken, subscribed and sworn to before me, the undersigned Notary Public, this 10th day of January, 2018 by Randy Broda, President of Jay-Bee Oil & Gas, Inc., on behalf of the corporation.

My commission expires: April 18, 2022

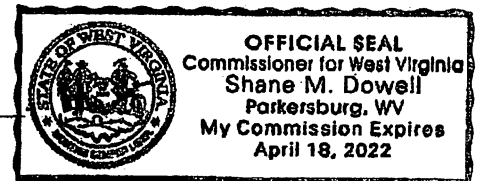


[Signature]
NOTARY PUBLIC

[Signature]
Randy Broda, President of Jay-Bee Production Company

Taken, subscribed and sworn to before me, the undersigned Notary Public, this 10th day of January, 2018 by Randy Broda, President of Jay-Bee Production Company, on behalf of the company.

My commission expires: April 18, 2022



[Signature]
NOTARY PUBLIC

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Environmental Protection



JAY-BEE OIL & GAS, INC.

April 16, 2019

Permitting Office
Office of Oil and Gas
West Virginia Dept. of Environmental Protection
601 57th Street SE
Charleston, WV 25304

RE: Doc 3 Well

Permitting Office:

As you know we have applied for a well permit for the Doc 3 Well in Tyler County, West Virginia. This pad is located on what we call the T3142A tract. County Route 13 runs south of this tract and our proposed well leg runs under this roadway.

You have requested that we review the courthouse records to determine if the Department of Highways has any right to the minerals underneath this section of roadway. Our outside counsel has reviewed documents in the Tyler County Courthouse and could find no agreement that conveys mineral interests to the Department of Highways. Therefore Jay-Bee believes it has obtained leases from all mineral interests holders necessary to proceed with drilling on this tract after the permit is issued.

If you would have any questions concerning this matter, please feel free to contact our office at the numbers listed below.

Sincerely,

Chris Lindsey
Office Manager

3570 Shields Hill Rd, Cairo, WV 26337 • Phone 304-628-3111 • Fax 304-628-3119

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WV Department of
Environmental Protection

WW-2B1

Well No. Doc 3,4,5,7,8,9

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.

If no water well or spring is located within 1000 feet, the Chief may require the operator to sample and analyze water from a water well or spring within 2000 feet of the proposed well site.

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

The laboratory used by the operator to analyze the samples will be approved by the Chief. The operator named below has decided to use the following laboratory to analyze the water samples:

	Contractor Name	<u>Reliance Laboratories</u>
<input checked="" type="checkbox"/>	Well operator's private laboratory	
	Well Operator	<u>Jay-Bee Oil & Gas, INC</u>
	Address	<u>3570 Shields Hill Rd / 1720 Route 22 East</u> <u>Cairo, WV 26337 / Union, NJ 07083</u>
	Telephone	<u>304-628-3111</u>

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 please indicate such.

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WV Department of
Environmental Protection

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

Date of Notice Certification: 04/18/2019

API No. 47- 95 - 02621
Operator's Well No. Doc 3, 4, 5, 7, 8, 9
Well Pad Name: Doc Pad

Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

State: <u>West Virginia</u>	UTM NAD 83	Easting: <u>519, 941.10</u>
County: <u>Tyler</u>		Northing: <u>4, 366,648.62</u>
District: <u>McElroy</u>	Public Road Access:	<u>Indian Creek Rd.</u>
Quadrangle: <u>Shirley 7.5'</u>	Generally used farm name:	<u>Randy Tustin and Francis Tennant Sr.</u>
Watershed: <u>Outlet Middle Island Creek</u>		

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following:

*PLEASE CHECK ALL THAT APPLY

- 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

OOG OFFICE USE ONLY

- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED/ NOT REQUIRED
- RECEIVED
- RECEIVED
- RECEIVED

Required Attachments:

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

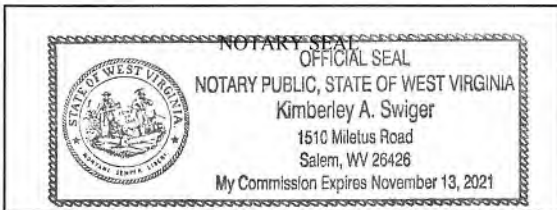
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Certification of Notice is hereby given:

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

Well Operator:	<u>Jay Bee Oil and Gas, Inc.</u>	Address:	<u>3570 Shields Hill Rd.</u>
By:	<u>Chris Lindsey</u>		<u>Cairo, WV 26337</u>
Its:	<u>Office Manager</u>	Facsimile:	<u>304-629-3111</u>
Telephone:	<u>304-628-3111</u>	Email:	<u>clindsey@jaybeoil.com</u>



Subscribed and sworn before me this 17th day of April, 2019
Kimberley A. Swiger Notary Public
 My Commission Expires November 13, 2021

Oil and Gas Privacy Notice:

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

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WV Department of
Environmental Protection

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.

Date of Notice: 4/18/2016 Date Permit Application Filed: 4/22/19

Notice of:

- PERMIT FOR ANY WELL WORK CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

- PERSONAL SERVICE REGISTERED MAIL METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice WSSP Notice E&S Plan Notice Well Plat Notice is hereby provided to:

SURFACE OWNER(s)
Name: _____
Address: _____

Name: Thelma Dotson
Address: 4423 Indian Creek Rd., Alma, WV 26320

SURFACE OWNER(s) (Road and/or Other Disturbance)
Name: Elizabeth Dotson (Life)
Address: 4347 Indian Creek Rd, Alma, WV 26320

Name: Richard Dotson (Life)
Address: 4349 Indian Creek Rd., Alma WV 26320

SURFACE OWNER(s) (Impoundments or Pits)
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: _____
Address: _____

COAL OPERATOR
Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: _____
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD
Name: _____
Address: _____

*Please attach additional forms if necessary

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WV Department of Environmental Protection

Notice is hereby given:

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

This Notice Shall Include:

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

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

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

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

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

Well Location Restrictions

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

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

Water Well Testing:

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

Water Testing Laboratories:

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

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

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

Written Comment:

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

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

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WV Department of
Environmental Protection

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

Time Limits and Methods for Filing Comments.

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

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

Comment Requirements

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

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

Permit Denial or Condition

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

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

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

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

RECEIVED
Office of Oil and Gas

APR 24 2019

WV Department of
Environmental Protection

Notice is hereby given by:

Well Operator: Jay Bee Oil and Gas, Inc

Address: 3570 Shields Hill Rd., Cairo, WV 26337

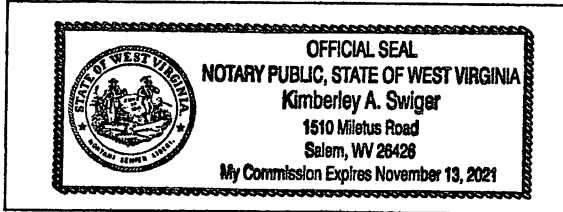
Telephone: 304-628-3111

Email: clindsey@jaybeoil.com

Facsimile: 304-629-3111

Oil and Gas Privacy Notice:

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

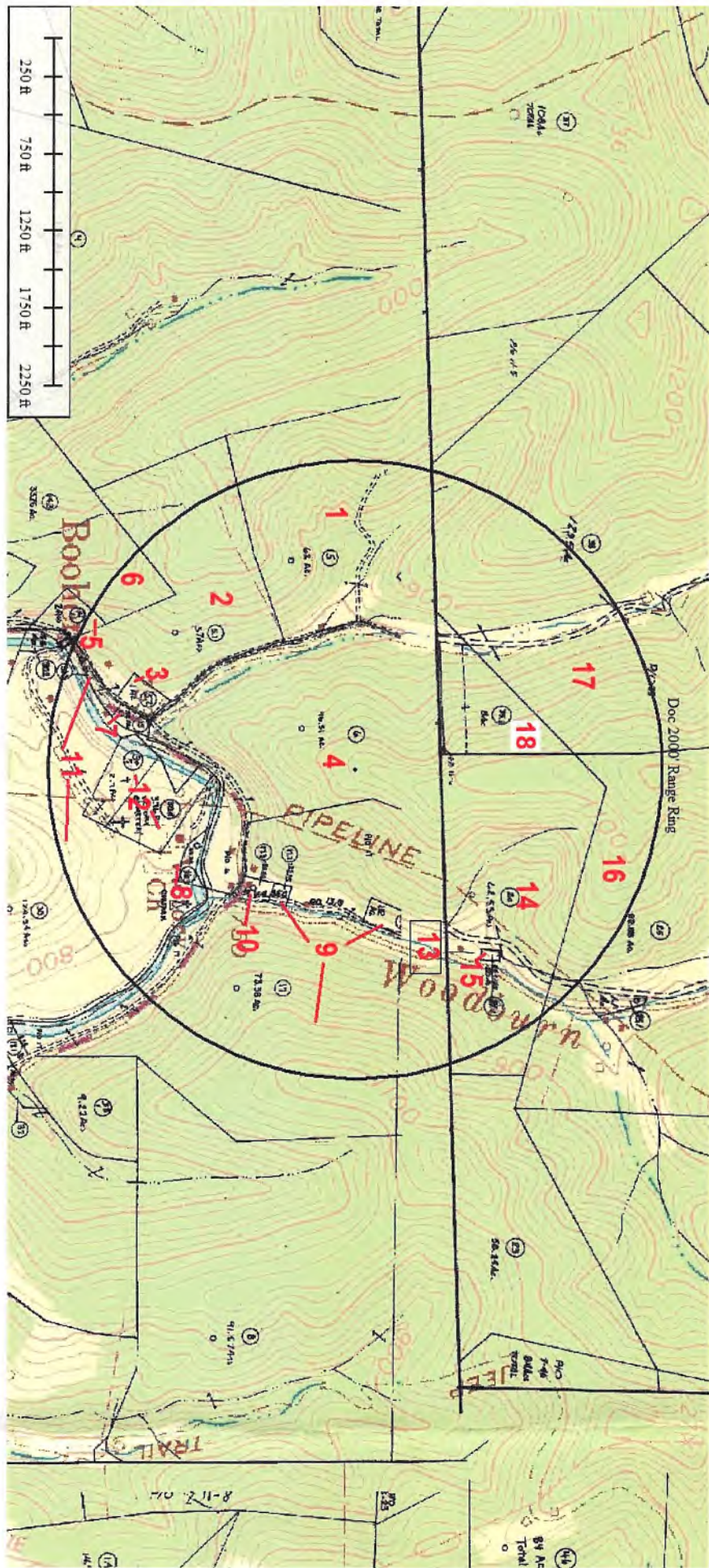


Subscribed and sworn before me this 17th day of April, 2019
Kimberley A. Swiger Notary Public
My Commission Expires November 13, 2021

RECEIVED
Office of Oil and Gas

APR 24 2019

WV Department of
Environmental Protection



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

Notice Time Requirement: Notice shall be provided at least **SEVEN (7)** days but no more than **FORTY-FIVE (45)** days prior to entry

Date of Notice: 1/24/2018 **Date of Planned Entry:** 2/1/2018

Delivery method pursuant to West Virginia Code § 22-6A-10a

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to West Virginia Code § 22-6A-10(a), Prior to filing a permit application, the operator shall provide notice of planned entry on to the surface tract to conduct any plat surveys required pursuant to this article. Such notice shall be provided at least seven days but no more than forty-five days prior to such entry to: (1) The surface owner of such tract; (2) to any owner or lessee of coal seams beneath such tract that has filed a declaration pursuant to section thirty-six, article six, chapter twenty-two of this code; and (3) any owner of minerals underlying such tract in the county tax records. The notice shall include a statement that copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, which statement shall include contact information, including the address for a web page on the Secretary's web site, to enable the surface owner to obtain copies from the secretary.

Notice is hereby provided to:

- SURFACE OWNER(s)

Name: _____
Address: _____

Name: _____
Address: _____

Name: _____
Address: _____

- COAL OWNER OR LESSEE

Name: _____
Address: _____

- MINERAL OWNER(s)

Name: Janet Baker ?
Address: 530 Hinderer Ave. SW Massillon OH 44646

*please attach additional forms if necessary

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(a), notice is hereby given that the undersigned well operator is planning entry to conduct a plat survey on the tract of land as follows:

State: <u>West Virginia</u>	Approx. Latitude & Longitude: <u>519,919.10 E; 4,366,648.62 N</u>
County: <u>Tyler</u>	Public Road Access: <u>Indian Creek Rd</u>
District: <u>McElroy</u>	Watershed: <u>Outlet Middle Island Creek</u>
Quadrangle: <u>Shirley 7.5'</u>	Generally used farm name: <u>Tustin</u>

Copies of the state Erosion and Sediment Control Manual and the statutes and rules related to oil and gas exploration and production may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450). Copies of such documents or additional information related to horizontal drilling may be obtained from the Secretary by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: Jay Bee Oil and Gas Inc
Telephone: 304-628-3111
Email: sdowell@jaybeeoil.com

Address: 3570 Shields Hill Rd.
Cairo, WV 26337
Facsimile: 304-629-3111

RECEIVED
Office of Oil and Gas

APR 24 2019

WV Department of
Environmental Protection

Oil and Gas Privacy Notice:

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

Well	Doc 3,4,5,7,8,9 6A3 Listing	Address
7,8,9	Janet Baker	5365 Brookwood Drive NW Canton, OH 44708
3,4,5,7,8,9	Arnold L. Schulberg	16591 Sagamore Bridge Way Delray Beach FL 38446
7,8,9	Sandra Spencer Fehn	1076 Big Run Rd Alma, WV 26320
7,8,9	Sharon Smith	131 Haskins Lane Hilton NY 14468
8,9	Darrell Swiger	10542 Ewing Dr., Cattlesburg, KY 41129
8,9	Linda Rowe Wagner Administratrix for the Estate of Betty Lou Rowe	411 Arch St., Apt B Oakland, MD 21550
3,4,5,7,8,9	Karen Loeffler	16 Quarter Horse Drive Burgettstown PA 15021
3,4,5,7,8,9	Patty Lowther	109 Pullman Dr. Pennsboro WV 26415
3,4,5,7,8,9	Glenda Jo Clark	3861 Henderson Road Hickory PA 15340
3,4,5,7,8,9	Challis Yeater	Woodburn Run Middlebourne WV 26149
3,4,5,7,8,9	Ila Hupp	46546 Metz Road Columbiana OH 44408
3,4,5,7,8,9	Larry R. Wright	843 Bakers Bridge Road Douglasville GA 30134
3,4,5,7,8,9	Diane Campbell	230 Campbell Lane Weirton WV 26062
3,4,5,7,8,9	Rodney Tate	4507 St. Andrews Drive Grand Prairie TX 75052
3,4,5,7,8,9	Carolyn Sue Westbrook	HC 69 Box 9C Alma WV 26320
3,4,5,7,8,9	Bill Tennant	508 Effa Street Weirton WV 26062
3,4,5,7,8,9	Wayland Williams	18540 State Route 550 Marietta OH 45750
3,4,5,7,8,9	Janyce Underwood	1229 Boyd Rd. Colliers WV 26035
3,4,5,7,8,9	Roxie Sosenko	11405 County Road CR525 Mansfield TX 76063
3,4,5,7,8,9	Rosemary Underwood Stillson	1049 Boyd Road Colliers WV 26035
3,4,5,7,8,9	Perley Edward "Ed" Underwood, Jr.	66005 Willow Grove Road Bellairre OH 43950
3,4,5,7,8,9	Ruth Ilene Kittle	51868 Hells Kitchen Road St. Clairsville OH 43950
3,4,5,7,8,9	OeAnna Riter	4114 Indian Creek Road Alma WV 26320
3,4,5,7,8,9	Roger Tate	155 Laurel Drive Weirton WV 26062
3,4,5,7,8,9	Peggy J. Mead	41 Smith Road New Cumberland WV 26047
3,4,5,7,8,9	Jerry Morgan	9037 Middle Island Road Alma WV 26320-7203
3,4,5,7,8,9	Audrey Otto	908 Warwood Ave. Wheeling WV 26003
3,4,5,7,8,9	Robin Underwood	207 Arena Drive Weirton WV 26062
3,4,5,7,8,9	Antonette Dakota DeLlar	1029 Rice Boulevard Weirton WV 26062
3,4,7	Nancy Fout	390 1A Beach Blvd. Unit 36 St. Augustine, FL 32080
3,4,5,7,8,9	Judith A. Benson	230 Cloverlane Avenue SW Hartsville OH 44632
3	Kenneth & Jennifer Mason	P.O. Box 103 Alma WV 26320
3	Delaware River Minerals, LLC	807 Robert E. Lee, Austin, TX 78704
3,4	Caroline Genewick	P.O. Box 524 Santee SC 26142
3,4	Encil R. & Glenda Headley	HC 62 Box 75 Alma WV 26320
3,4	C. Philip Fluharty	P.O. Box 843 Santee SC 26142
3,4	Donald G. Fluharty	P.O. Box 524 Santee SC 26142
3,4,5,7,8,9	Lawrence Anthony Underwood	940 Donegal Dr. E. Foliassbee WV 26037
3,4,5,7,8,9	DeEtta Ernestine Burris	256 Purdy Road Burgettstown PA 15021
3,4,5,7,8,9	Betsy Rosalinda Faulkner	11919 Hickory Creek Drive Fredericksburg VA 22407
3,4,5,7,8,9	Lori Balre	428 Hazlett Ave. Wheeling WV 26003-6925
3,4,5,7,8,9	Melinda Coates	409 Helen St. Weirton WV 26062
3,4,5,7,8,9	Roma Grose	4141 Henderson Road Hickory PA 15390
3,4,5,7,8,9	Mark D. Underwood	5133 Greystone Way Birmingham AL 35242
3,4,5,7,8,9	Michael D. Underwood	3915 Hanlin Way Weirton WV 26062
3,4,5,7,8,9	Richard S Underwood	1229 Boyd Road Colliers WV 26035
3,4,5,7,8,9	Troy Underwood	40 Lawrence Lane Colliers WV 26035
3,4,5,7,8,9	Estate of Francis W. Tennant, Sr., Francis W. Tennant, Jr., Executor	4403 Nelson Mosler Road Southington OH 44470
3,4,5,7,8,9	Rose Mary Underwood	2365 Courtland Blvd., Deltona 32738
3,4,5,7,8,9	Arnold L. Schulberg	16591 Sagamore Bridge Way Delray Beach FL 38446
3,4,5,7,8,9	Zachary Shane Underwood	c/o Lori Cook Underwood 321 Orchard Place Steubenville OH 43953-3941
3,4,5,7,8,9	Margaret Conaway Torok	9290 Highland Drive Brecksville OH 44141
3,4,5,7,8,9	Charles O Conaway	2 Mount Marcy Circle East Greenbush NY 12061
3,4,5,7,8,9	Randy W. Tustin	248 Logan Mountain Ln Winchester TN 37398
3,4,5,7,8,9	James D. Yeater	c/o Sandra L. Dotson, POA 4717 Middle Island Road Middlebourne WV 26149-6825
3,4,5,7,8,9	Bethel Yeater	P. O. Box 112 Shirley WV 26434
3,4,5,7,8,9	Rhea Anderson	645 Forest Lane Hurst TX 76053
3,4,5,7,8,9	Randy W. Tustin	248 Logan Mountain Ln Winchester TN 37398
5	Michael Roy Martz	244 Griggs Acres Drive Pt. Harbor NC 27964
5	Mark Headley	HC 62 Box 14B Alma WV 26320
5	Kenneth Wayne Martz	Box 164 Phillippi WV 26416
5	Paula Ann Farley	2432 Covert St. Parkersburg WV 26101
5	Fred D. Midcap	101 Kidwell Lane Sistersville WV 26175
7,8,9	Heinold Living Trust	23275 Buck Neck Road Chestertown MD 21620-3706
7,8,9	William Woodburn	722 Circle Dr. Belpre OH 45714
7,8,9	Richard L. Clark	1137 Dutch Ridge Rd, Parkersburg, WV 26104
7,8,9	Kay Baker	13200 David Ranch Rd. Cabot AR 72023
7,8,9	Keith Fetty Freeland	2012 Tyler Highway Stistersville WV 26175-9147
7,8,9	Janice K. Lancaster	2301 Tyler Highway Sistersville WV 26175
7,8,9	TNG, LLC	Rt. 1 Box 338 Middlebourne WV 26149
7,8,9	Gerald K. Heinold, Jr.	517 Gum Bush Road Townsend DE 19734-9133
7,8,9	Linda Hoover	5599 Middle Island Road Middlebourne WV 26149
7,8,9	Mary Ann Heinold	607 Lakelawn Drive Milford DE 19963-2925
3,4,5	Ascent Resources - Marcellus, LLC F/K/A American Energy - Marcellus, LLC	P.O. Box 18756 Oklahoma City OK 73154
3,4,5	Somerset Mineral LP	14860 Montfort Dr., Suite 209 Dallas TX 75254
3,4,5	OKY USA, Inc.	5 Greenway Plaza, Suite 110 Houston TX 77046
3,4,5	BP Mineral Holdings II, LLC	8117 Preston Road, Suite 260 Dallas TX 75225
3	Sara H. Weekley	325 Jones Ave. Bridgeport WV 26330 (304) 842-2764
3	American Energy-Marcellus Minerals, LLC	301 NW 63rd St., Ste 600, Oklahoma City, OK 73116
3	Charles Orrin Conaway	2 Mount Marcy Cir, East Greenbush NY 12061 518-477-8668
3,4	Barbara Ann Fletcher	P.O. Box 27 Alma WV 26320
3,4	Rodney P. Moore	99 Russel Ave. Sistersville WV 26175
3,4	Pamela Farhart	P.O. Box 114 Middlebourne WV 26149
3,4,5	Mary Jayne Meredith	8551 Bayberry Dr. NE Warren OH 44484
3,4,5	Richard & Brenda Hearn	HC 62 Box 76 Alma WV 26320
3,4,5	Joan Ross	c/o Joan A. Ross 1643 Washington Blvd. Huntington WV 25701
4,5	Don T. Ritz	P.O. Box 5519 New Martinsville WV 26155
4,5	Fritzi L. Cavalli	6221 Madison Ct. Bensalem PA 19020-1802
4,5	Carol J. Morris	20 Colonel Winstead Dr. Brentwood TN 37027-8936

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

Notice Time Requirement: notice shall be provided no later than the **filing date of permit application.**

Date of Notice: 04/18/2019 **Date Permit Application Filed:** 04/22/2019

Delivery method pursuant to West Virginia Code § 22-6A-16(c)

- CERTIFIED MAIL HAND
- RETURN RECEIPT REQUESTED DELIVERY

Pursuant to W. Va. Code § 22-6A-16(c), no later than the date for filing the permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation. The notice required by this subsection shall include: (1) A copy of this code section; (2) The information required to be provided by subsection (b), section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. (d) The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice.

Notice is hereby provided to the SURFACE OWNER(s)
(at the address listed in the records of the sheriff at the time of notice):

Name: Thelma Dotson
Address: 4423 INDIAN CREEK RD ALMA WV 26320

Name: _____
Address: _____

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-16(c), notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

State:	<u>West Virginia</u>	UTM NAD 83	Easting:	<u>519,941.10</u>
County:	<u>Tyler</u>		Northing:	<u>4,366,648.62</u>
District:	<u>McElroy</u>	Public Road Access:	<u>Indian Creek Rd</u>	
Quadrangle:	<u>Shirley 7.5'</u>	Generally used farm name:	<u>Randy Tustin & Francis Tennant Sr</u>	
Watershed:	<u>Outlet Middle Island Creek</u>			

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Operator: Jay-Bee Oil & Gas, Inc
Telephone: 304-628-3111
Email: clindsey@jaybeoil.com

Address: 3570 Shields Hill Rd
Cairo, WV 26337
Facsimile: 304-628-3119

Oil and Gas Privacy Notice:

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**WEST VIRGINIA DEPARTMENT OF TRANSPORTATION****Division of Highways**

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

Byrd E. White, III
Secretary of Transportation

June 21, 2019

Jimmy Wriston, P. E.
Deputy Secretary/
Acting Commissioner

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

Subject: DOH Permit for the Doc Pad, Tyler County
Doc 3 Well site

Dear Mr. Martin,

This well site will be accessed from a DOH permit #06-2014-0113 issued to Jay-Bee Oil & Gas, Inc. for access to the State Road for a well site located off of Tyler County Route 13 SLS.

This operator is in compliance with §22-6A-20 of the WV Code. Operator has signed a DISTRICT WIDE OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated October 1, 2018.

Very Truly Yours,

A handwritten signature in black ink that reads "Gary K. Clayton".

Gary K. Clayton, P.E.
Regional Maintenance Engineer
Central Office O&G Coordinator

Cc: Chris Lindsey
Jay-Bee Oil & Gas, Inc.
CH, OM, D-6
File



JAY-BEE OIL & GAS, INC.

May 14, 2014

Permitting Office
Office of Oil and Gas
West Virginia Dept. of Environmental Protection
601 57th Street SE
Charleston, WV 25304

RE: Frac Additives

Permitting Office:

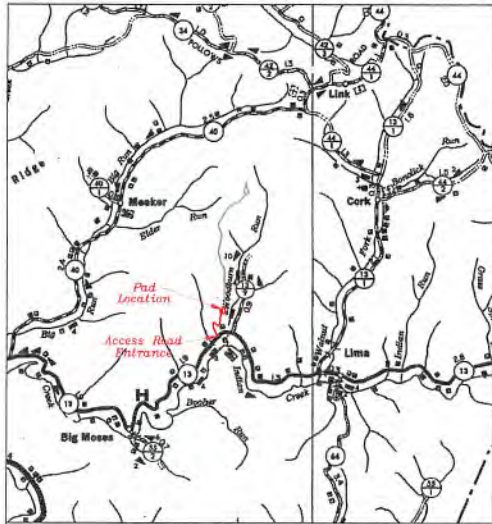
As requested on the Well Permit Checklist, the CAS numbers are referenced for all submitted permits on WW6B, page 1, and listed below:

- Water (7732-18-5)
- Sand (14808-60-7)
- Friction Reducer (64742-47-8)
- Scale Inhibitor (107-21-1 & 10043-52-4)
- Bacteria Prevention (111-30-8, 7173-51-5, 68424-85-1, & 64-17-5)
- 15% Vol Acid (7647-01-0).

If you would have any questions concerning this matter, please feel free to contact our office at the numbers listed below.

Sincerely,

Chris Lindsey
Office Manager



Doc Well Pad As-Built Site Plan

McElroy District, Tyler County, WV
Prepared for JAY BEE OIL & GAS

Date: December 27, 2017

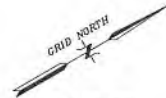
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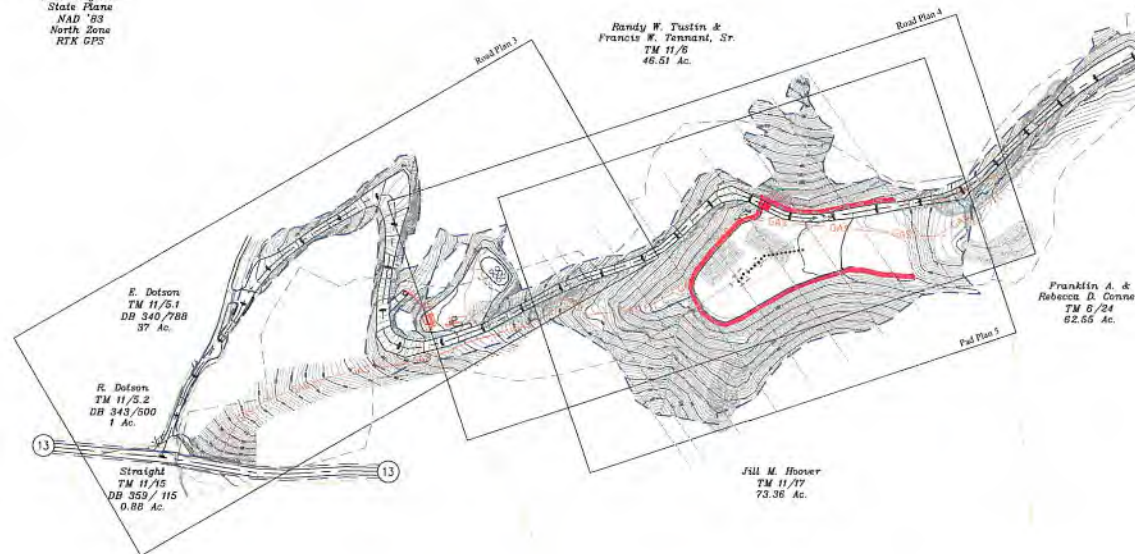


WEST VIRGINIA DISTRICT MAP
NOT TO SCALE

RECEIVED
Office of Oil and Gas
APR 24 2019
WV Department of
Environmental Protection



West Virginia
State Plane
NAD 83
North Zone
RTK GPS



E. Dotson
TM 11/51
DB 340/788
37 Ac.

R. Dotson
TM 11/52
DB 343/600
1 Ac.

Straight
TM 11/15
DB 339/115
0.88 Ac.

Randy W. Tustin &
Francis W. Tennant, Sr.
TM 11/8
46.51 Ac.

Franklin A. &
Rebecca D. Conner
TM 8/24
62.65 Ac.

Jill M. Hoover
TM 11/77
73.38 Ac.

Sheet	Description
1	Cover
2	Details & Notes
3	Road Plan & Profile
4	Road Plan & Profile
5	Pad Plan
6	Pad Sections
7	Pad Sections
8	Reclamation Plan

CENTER DOC PAD
Geographic NAD 83
Latitude: 39.449200
Longitude: 80.768243

CENTER ROAD INT.
(Sta. 0+00)
Geographic NAD 83
Latitude: 39.445329
Longitude: 80.769228

DOC PAD DISTURBED AREAS (LIMITS OF DISTURBANCE)	
Route 13 R/W	Road=285 Sq. Ft. Total=0.01 Ac.
R. Dotson T.M. 11/52	Road=2,870 Sq. Ft. Total=0.07 Ac.
E. Dotson T.M. 11/51	Road=1,030 Sq. Ft. Total=0.02 Ac.
Randy W. Tustin & Francis W. Tennant, Sr. T.M. 11/8	Road=219,430 Sq. Ft. Pad=94,655 Sq. Ft. Total=7.20 Ac.
Jill M. Hoover T.M. 11/17	Pad=182,070 Sq. Ft. Total=4.18 Ac.
	Road Total=5.13 Acres Pad Total=6.34 Acres

TOTAL PERMITTED LOD: 13.84 Acres
TOTAL MODIFIED LOD: 11.47 Acres

JOB
4/18/2019

WEST VIRGINIA 811
CALL BEFORE YOU DIG!
Dial 811 or 800.245.4848
www.WV811.com



Design Certification
The drawings, construction notes and reference diagrams attached hereto have been prepared in accordance with the West Virginia Code of State Rules, Division of Environmental Protection, Office of Oil and Gas.

The information reflects a gas well drilling pad and road.

Joshua R. Cook RPE 17950: _____ Date: 12-27-2017



North Central Engineering, LLC
Joshua Cook, RPE
P.O. Box 828
Bridgeport, WV 26330
Cell: 304-299-1583
E-Mail: jcook@NorthCentralEngineering.com



Jackson Surveying Inc.

COVER
SHEET 1
DOC WELL PAD
AS-BUILT

1. Best Management Practices shall be utilized for erosion and sediment control. The most effective method is concurrent seeding and mulching. Compost Filter Sock (preferable) or filter fence shall be installed in areas down slope of construction where adequate brush filter strips cannot be maintained. Rock check dams or sumps shall be installed at culvert inlets and riprap protection at culvert exits.

2. The contractor shall contact WV BH prior to any disturbance.

3. The attached drawings show existing and proposed grades and dimensions on which the estimated quantities are based. These grades and dimensions may need to be adjusted during construction to meet field conditions. If any adjustment is needed beyond a reasonable conformance with the drawings, the contractor shall contact the engineer.

4. Clearing and grubbing shall be in conformance with Section 201 of the current WVDOH Specifications. All other earthwork shall be in conformance with Section 207 of the current WVDOH Specifications.

5. Stockpile topsoil and protect for use in regrading the disturbed areas prior to seeding and mulching.

6. If subgrade is unsuitable, the exposed surface shall be compacted until a relatively unyielding surface is achieved.

7. Surface water and subsurface water shall be prevented from flowing into the disturbed areas during construction.

8. Earthen fill slopes should be constructed with slopes no steeper than a ratio of two-to-one (2:1). No embankment shall be placed on frozen material. The fill material shall be clean mineral soil, free from roots, woody vegetation, stumps, sod, large rocks, or other objectionable material. The fill material shall exhibit adequate soil strength and moisture content to ensure that proper compaction will be achieved. Fill material will be placed in lifts or layers over the length of the fill. Lift thickness of soil shall be as thin as the suitable random excavated material will permit, typically from 6 to 12 inches. The size of rock lifts shall not exceed 36 inches. The rock shall not be greater in any dimension than thirty-six (36) inches. Use a maximum of two foot thick lifts with 95% compaction to the standard proctor density (ASTM D-698).

9. Any imported fill shall be approved by Engineer prior to placement.

10. Prevent surface water and subsurface water from flowing into excavations and flooding the work. Remove water from excavations to prevent softening of foundation soils and creating soil changes detrimental to the stability of subgrades. Provide and maintain pumps, sumps, suction and discharge lines, and other dewatering system components necessary to convey water away from the site. Convey water removed from excavations to collections or to runoff areas. During periods of inclement weather, temporary slope drains may be utilized as necessary.

11. In areas to receive fill and at the final cut subgrade, proof roll and compact the exposed ground surface following clearing and grubbing and any required excavation with a minimum of four passes of an approved compactor and obtain at least the density required for a suitable impoundment pit foundation and as indicated below. Proof rolling shall be under the observation of the Engineer as described herein. Immediately following the completion of excavation to proposed subgrades in cut areas, proof rolling shall be performed as specified. Any areas which deflect, rut or pump under the loaded dump truck shall be undercut and replaced with compacted fill material or stone base course as directed by the Engineer. Proof rolling methods shall be as follows:

a. After the subgrade has been completed the subgrade shall then be proof rolled. The coverage areas and methods will be identified by the Engineer;

b. The equipment shall be operated at a speed that the Engineer can comfortably and slowly walk along side the equipment;

c. If it becomes necessary to take corrective action, such as but not limited to underdrain installation, undercut and backfill of an unsuitable material, and aeration of excessive wet material in areas that have been proof rolled. These areas shall be proof rolled again following the completion of the necessary corrections.

12. Photographic documentation shall include DAILY photos of before, during and after conditions of all construction activities.

13. The engineer shall be contacted to make site inspections:

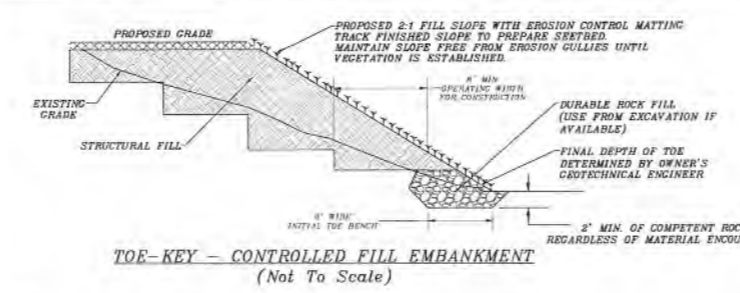
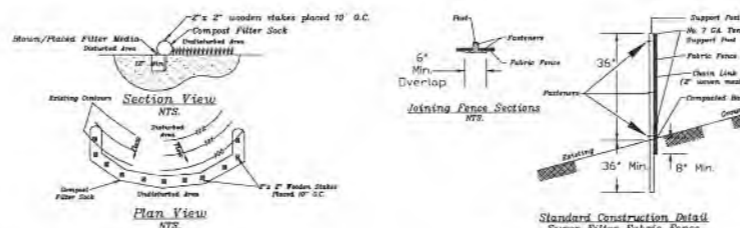
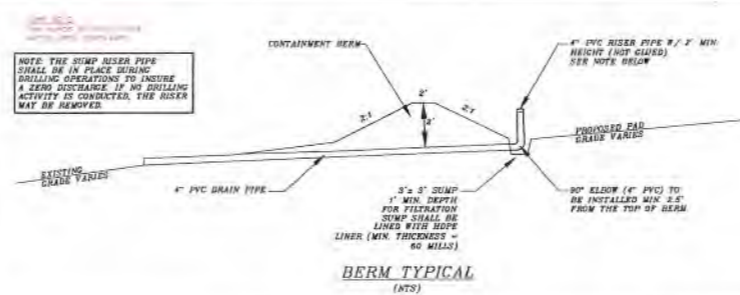
- after clearing and grubbing is complete
- to approve the general fill.
- half way through the cut and fill operations
- at the conclusion of the cut and fill operations

14. Erosion Control Blanket(s) shall be installed on all fill slopes which are in excess of 20' in length. Slope water breaks shall be installed on all fill slopes which are in excess of 40' in length. In some instances flex-terra product may be used in place of erosion control blankets at the discretion of the project engineer.

15. There was no geotechnical analysis performed for this site.

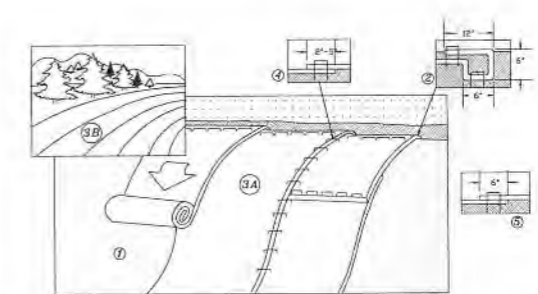
16. Existing & proposed culverts shall have adequate cover of (12" minimum). If the cover requirement can not be met, the culvert shall be protected with steel plates or timber mats.

17. All pits and impoundments that are not required or allowed by state or federal law or rule or agreement between the operator and the surface owner must be backfilled. Use a maximum of two foot thick lifts with 95% compaction to the standard proctor density (ASTM D-698).



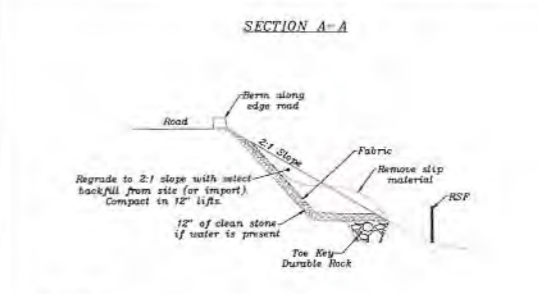
- NOTES:
- BENCHES SHALL BE EXCAVATED INTO EXISTING SLOPE AS SPECIFIED OR UNTIL BEDROCK IS EXPOSED.
 - ALL BENCHES SHALL BE SLOPED TO PROMOTE POSITIVE DRAINAGE DURING CONSTRUCTION (1% - 3% TYP).
 - ALL FILLOUSES SHALL BE CHAINED TO WITHIN 1/2" - 2" INCHES OF FINISHED GRADE WITH STRUCTURAL FILL. ALL FILL SLOPES SHALL BE COVERED WITH EROSION CONTROL MATTING, SEEDS AND MULCH PER THE PERMANENT SEEDING REQUIREMENTS.
 - COMPACT ALL FILL SLOPES TO 95% PROCTOR DENSITY.

- Well Cellars:**
- A person shall not open any valve at the wellhead without using a portable container to catch and contain any organic liquid that would otherwise drop on the ground or into the well cellar. Such container shall be kept closed when not in use.
 - Immediately before a well is steamed or after a well head is steam cleaned, the well cellar in which it is located shall be pumped out.
 - Neither of the following conditions shall occur unless the owner or operator discovered the condition and the well cellar is pumped within 7 days of discovery.
 - Liquid depth exceeding 50 percent of the depth of the well cellar.
 - Oil/petroleum depth exceeding 2 inches.
 - Cellar shall be constructed and installed in a manner that prevents the subsurface infiltration of surface water and fluids.
 - If a well cellar cannot be accessed by a vacuum truck due to muddy conditions, the well cellar shall be pumped as soon as it becomes accessible.
 - Steel matting shall be used to cover the cellar at all times except during inspection and pumping.



- NOTES:
- Prepare soil before installing rolled erosion control products (RECP's), including any necessary applications of lime, fertilizer, and seed. NOTE: When using Cut-O-Seed, DO NOT seed prepared area. Cut-O-Seed must be installed with proper side slope.
 - Begin at the top of the slope by anchoring the RECP's in a 6" x 6" x 6" Wide Trench with approximately 12" of RECP's extended beyond the Up-Slope portion of the trench. Anchor the RECP's with a row of staples/stakes approximately 12" apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to compacted soil and add remaining 12" portion of RECP's back over seed and compacted soil. Secure RECP's over compacted soil with a row of staples/stakes spaced approximately 12" apart across the width of the RECP's.
 - Roll the RECP's (A) down or (B) horizontally across the slope. RECP's will unroll with appropriate side against the soil surface. All RECP's must be securely fastened to soil surface by placing staples/stakes in appropriate locations as shown in the staples pattern guide. When using the DOT system, staples/stakes should be placed through each of the colored dots corresponding to the appropriate slope pattern.
 - The edge of parallel RECP's must be stapled with approximately 2"-5" overlap depending on RECP's type.
 - Connective RECP's applied down the slope must be placed end over end (shingle style) with an approximate 6" overlap. Staple through overlapped area, approximately 12" apart across entire RECP's width.
- NOTE:
* In loose soil conditions, the use of staple or stake lengths greater than 6" may be necessary to properly secure the RECP's.

Erosion Control Blanket-Slope Installation Scale: NTS.



- Slope Repair**
- Install reinforced soil fence inside LOD
 - Remove topsoil and stockpile
 - Remove slip material and dispose on site
 - Investigate cause of slip
 - Construct toe key
 - If tender to present place 12" clean stone and fabric as shown
 - Regrade to 2:1 slope using select backfill from site (or import) and compact in 12" lifts
 - Spread topsoil over slope
 - Track slope with clover
 - Seed and mulch disturbed areas
 - Install berm along edge road

North Central Engineering, LLC
 Joshua Cook, RPE
 P.O. Box 629
 Bridgeport, WV 26330
 Cell: 304-299-1583
 E-Mail: jcook@NorthCentralEngineering.com



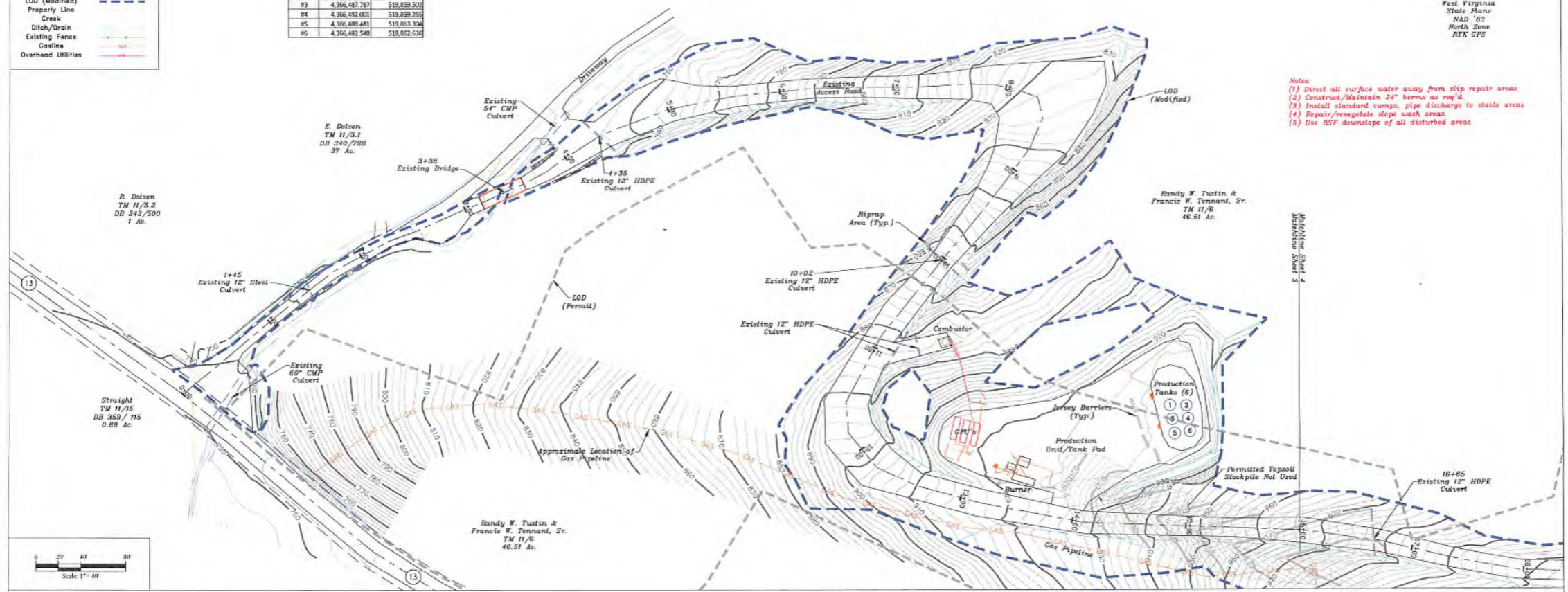
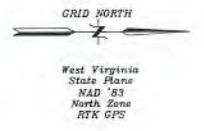
Jackson Surveying Inc.
 DETAILS
 SHEET 2
 DOC WELL PAD
 AS-BUILT

- LEGEND -

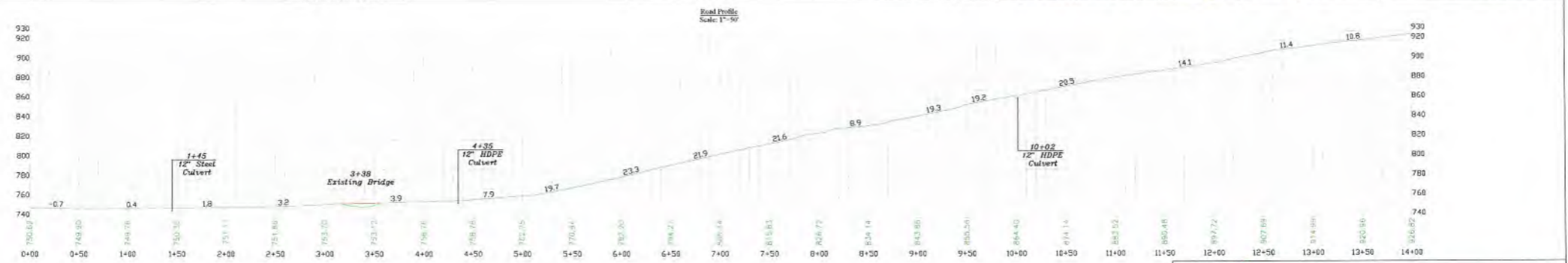
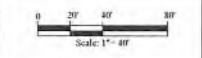
Existing Features	---
Proposed Features	---
Right of Way	---
LOD (Permit)	---
LOD (Mod/fiad)	---
Property Line	---
Creek	---
Ditch/Drain	---
Existing Fence	---
Gasline	---
Overhead Utilities	---

Production Tank Locations (UTM)

#	Northing	Easting
#1	4,366,487.118	519,855.770
#2	4,366,491.548	519,855.800
#3	4,366,487.797	519,859.501
#4	4,366,492.031	519,859.265
#5	4,366,488.481	519,863.304
#6	4,366,492.548	519,862.616



- Notes:**
- (1) Direct all surface water away from slip repair areas
 - (2) Construct/Maintain 2" berms as req'd.
 - (3) Install standard sumps, pipe discharge to stable areas
 - (4) Repair/vegetate slope wash areas.
 - (5) Use ASP downslope of all disturbed areas.



- LEGEND -

EXISTING GRADE	---
----------------	-----

North Central Engineering, LLC
Joshua Cook, RPE
P.O. Box 628
Bridgeport, WY 26330
Cell: 304-299-1583
E-Mail: jcook@NorthCentralEngineering.com



Jackson Surveying Inc.
ROAD PLAN & PROFILE
SHEET 3
DOC WELL PAD
AS-BUILT

677 W. Main St.
Clerksburg, Wv 26301
304-623-5891

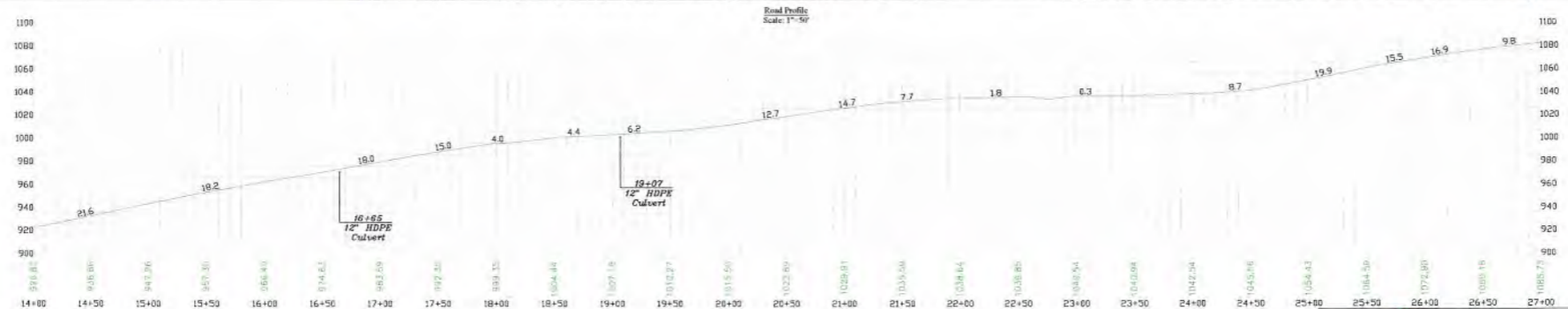
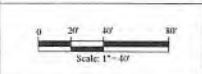
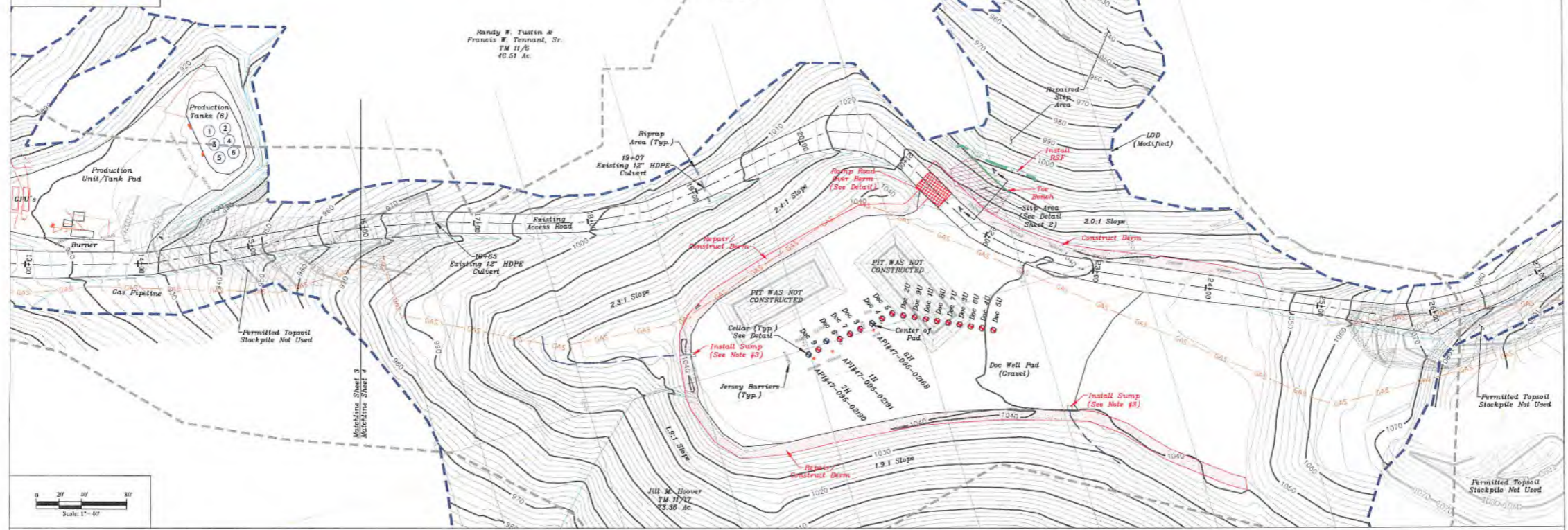
LEGEND

Existing Features	---
Proposed Features	---
Right of Way	---
LOD (Permit)	---
LOD (Modified)	---
Property Line	---
Creek	---
Ditch/Drain	---
Existing Fence	---
Gasline	---
Overhead Utilities	---

Notes:
 (1) Direct all surface water away from slip repair areas
 (2) Construct/Maintain 24" berms as req'd
 (3) Install standard sumps, pipe discharge to stable areas
 (4) Deposit/revegetate slope wash areas
 (5) Use ASF downslope of all disturbed areas

Production Tank Locations (UTM)

	Northing	Easting
#1	4,366,487.188	519,853.770
#2	4,366,491.548	519,855.805
#3	4,366,487.787	519,859.500
#4	4,366,493.001	519,859.265
#5	4,366,488.481	519,863.304
#6	4,366,492.548	519,862.636



LEGEND

EXISTING GRADE	---
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North Central Engineering, LLC
 Joshua Cook, RPE
 P.O. Box 529
 Bridgeport, WV 26330
 Cell: 304-239-1583
 E-Mail: jcook@NorthCentralEngineering.com



Jackson Surveying Inc.
 ROAD PLAN & PROFILE
 SHEET 4
 DOC WELL PAD
 AS-BUILT

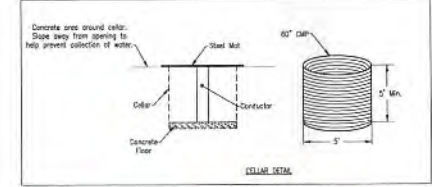
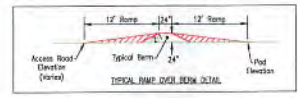
LEGEND

Existing Features	—
Proposed Features	—
Right of Way	—
LOD (Permit)	—
LOD (Modified)	—
Property Line	—
Creek	—
Ditch/Drain	—
Existing Fence	—
Gasline	—
Overhead Utilities	—

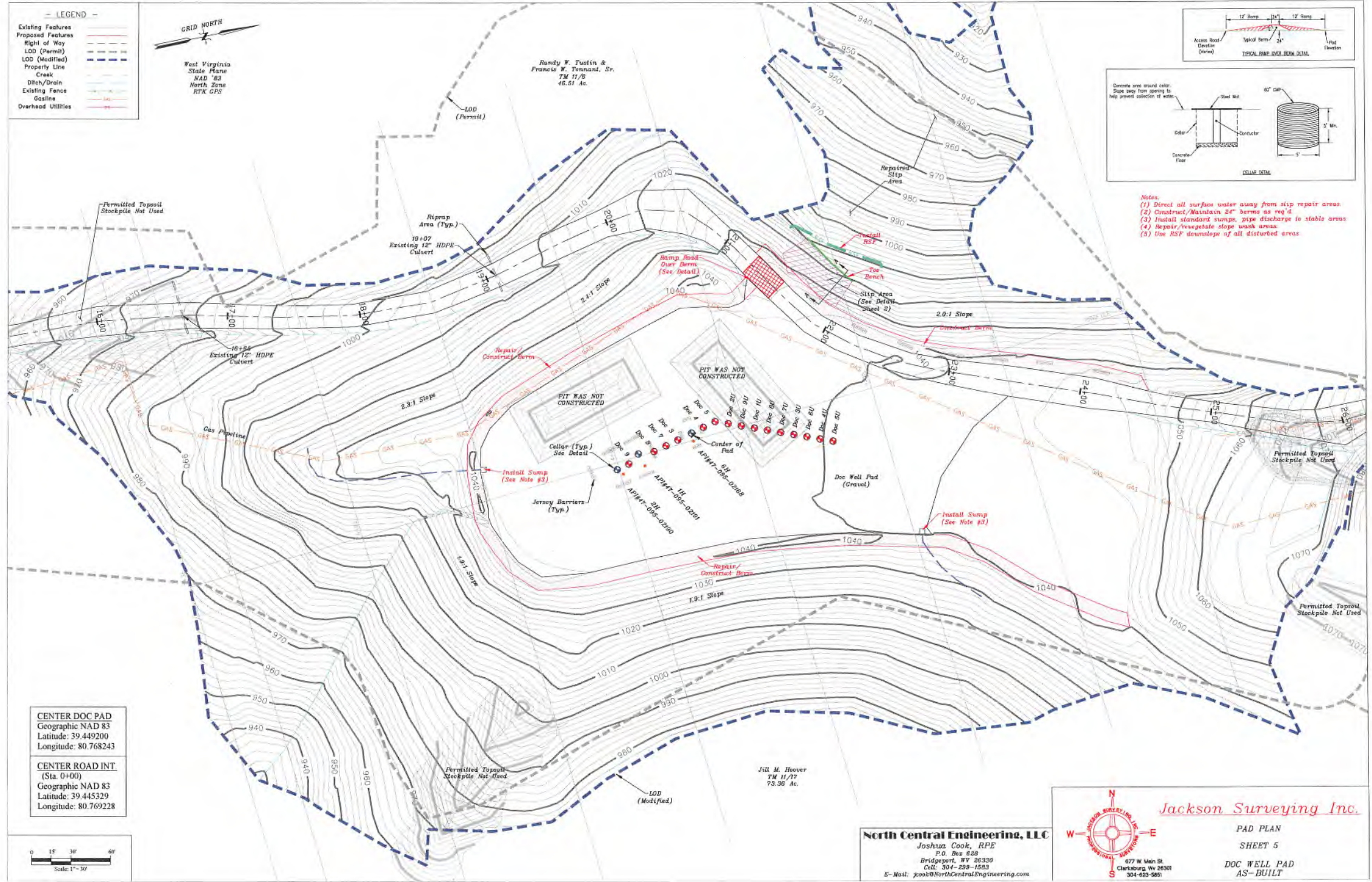


West Virginia
State Plane
NAD '83
North Zone
RTK GPS

Randy W. Justin &
Francis W. Tennard, Sr.
TM 11/6
46.51 Ac.

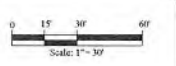


- Notes:**
- (1) Direct all surface water away from slip repair areas.
 - (2) Construct/Maintain 24" berms as req'd.
 - (3) Install standard sumps, pipe discharge to stable areas.
 - (4) Repair/vegetate slope unstable areas.
 - (5) Use RSP downslope of all disturbed areas.



CENTER DOC PAD
Geographic NAD 83
Latitude: 39.449200
Longitude: 80.768243

CENTER ROAD INT.
(Sta. 0+00)
Geographic NAD 83
Latitude: 39.445329
Longitude: 80.769228



Jill M. Hoover
TM 11/77
73.38 Ac.

JOB
4/18/2019

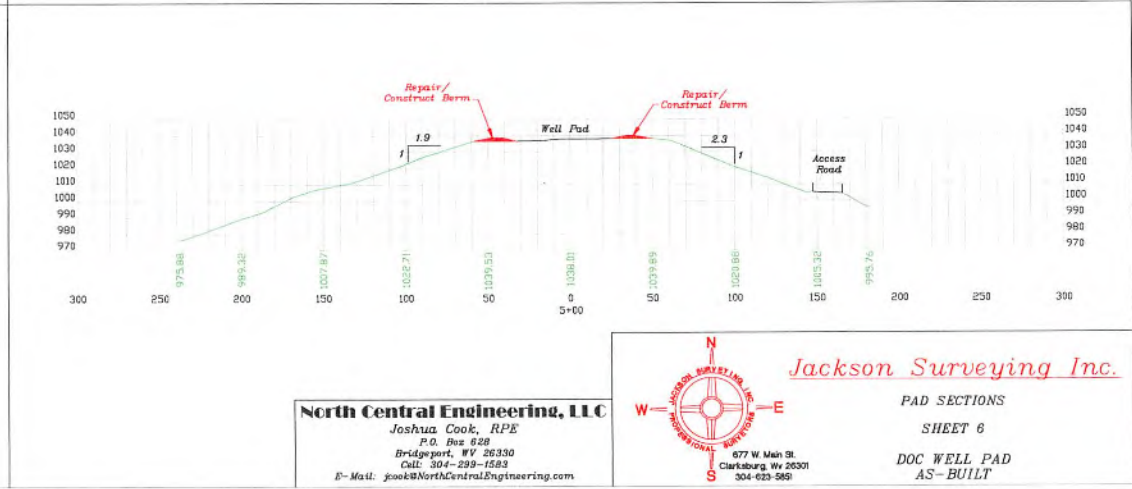
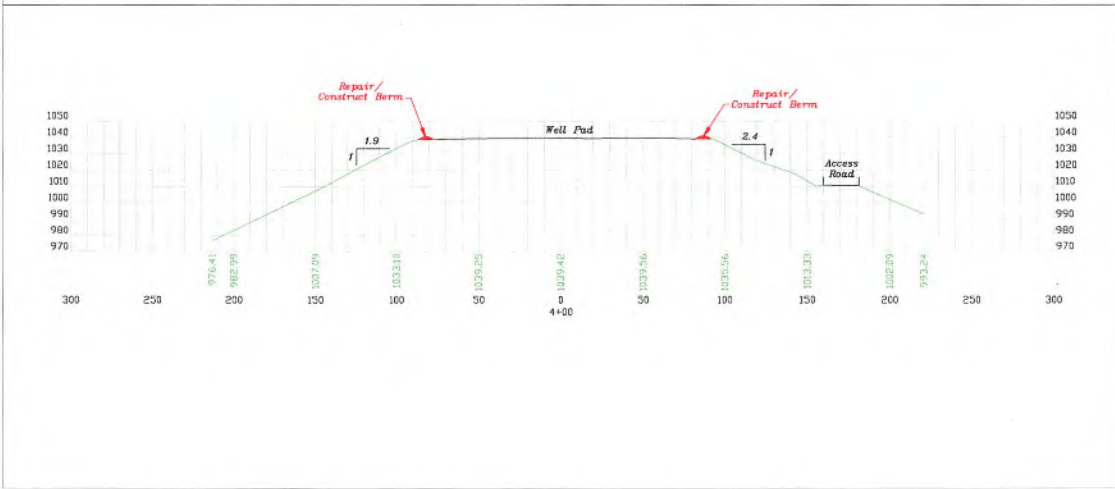
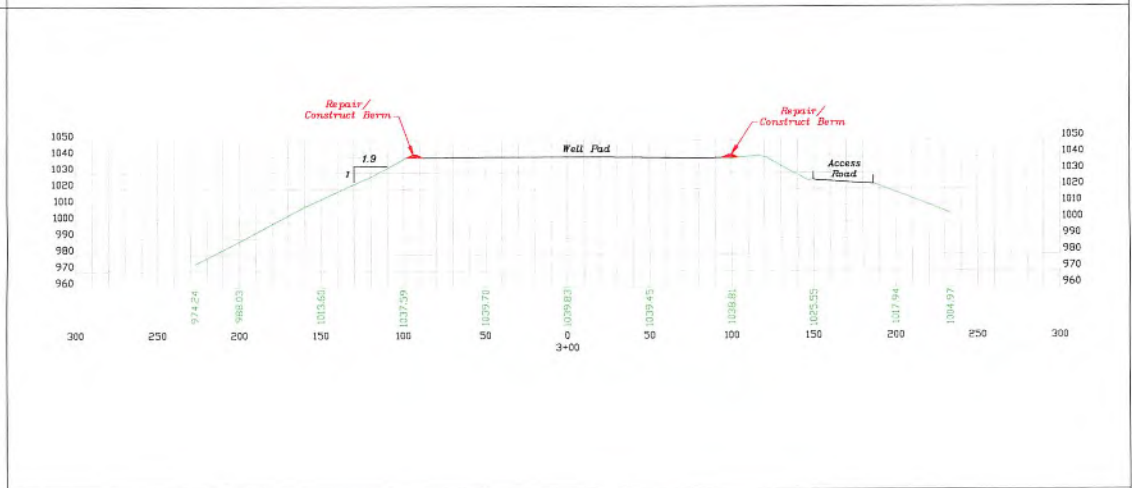
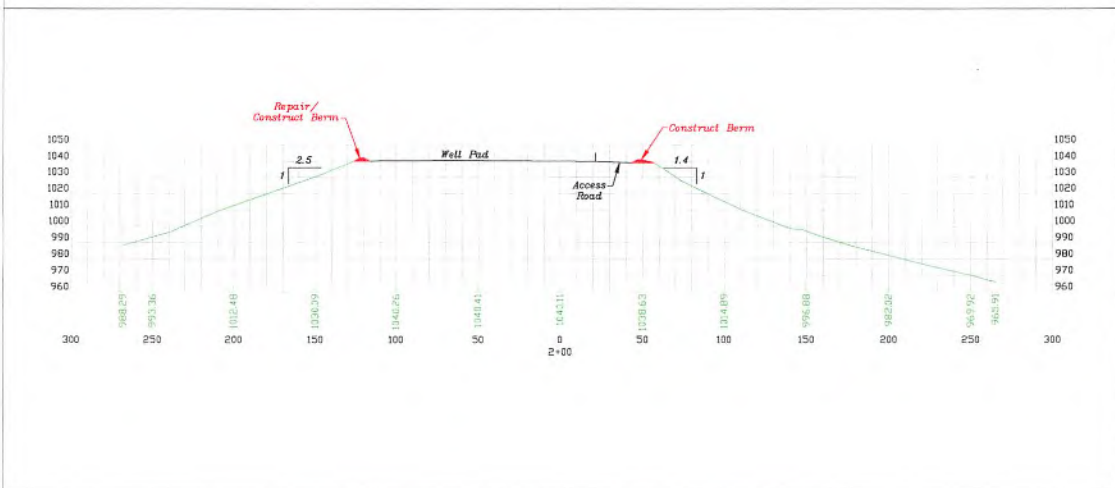
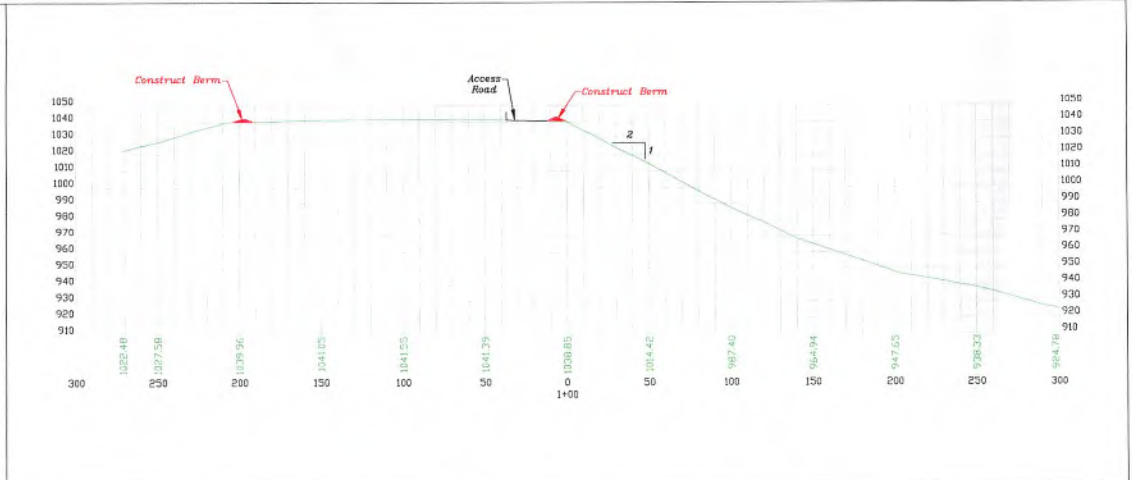
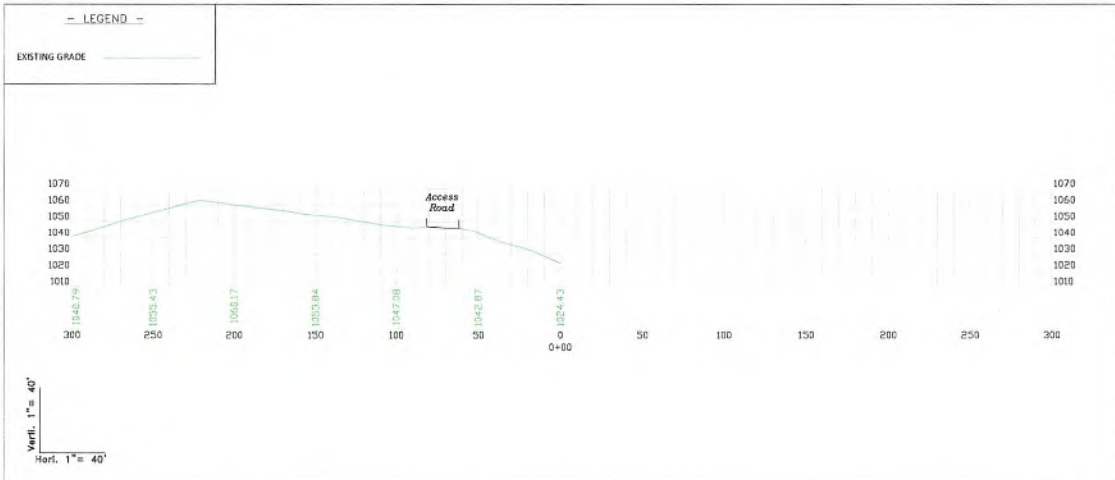
North Central Engineering, LLC
Joshua Cook, RPE
P.O. Box 828
Bridgetown, WV 26330
Cell: 304-299-1583
E-Mail: jcook@NorthCentralEngineering.com



Jackson Surveying Inc.

PAD PLAN
SHEET 5

DOC WELL PAD
AS-BUILT

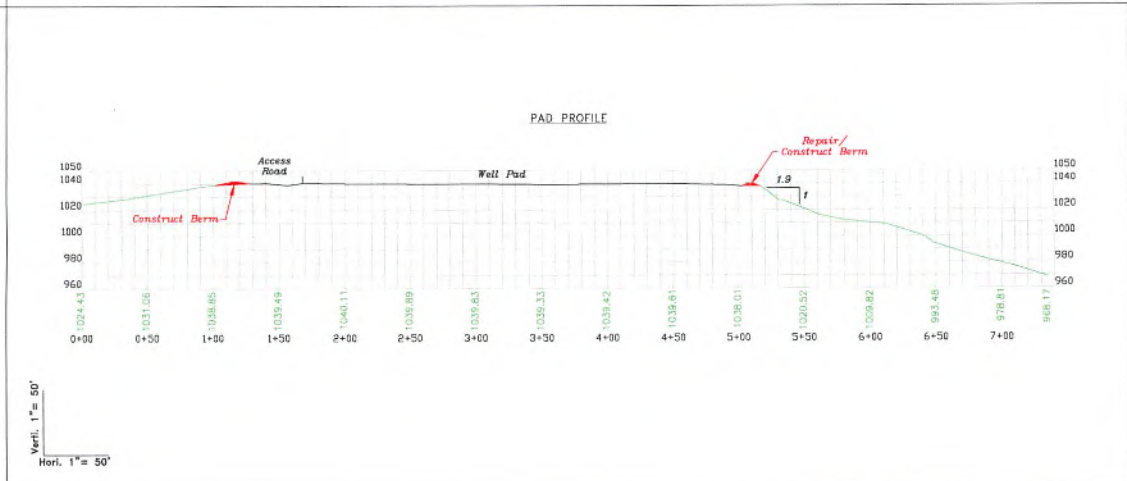
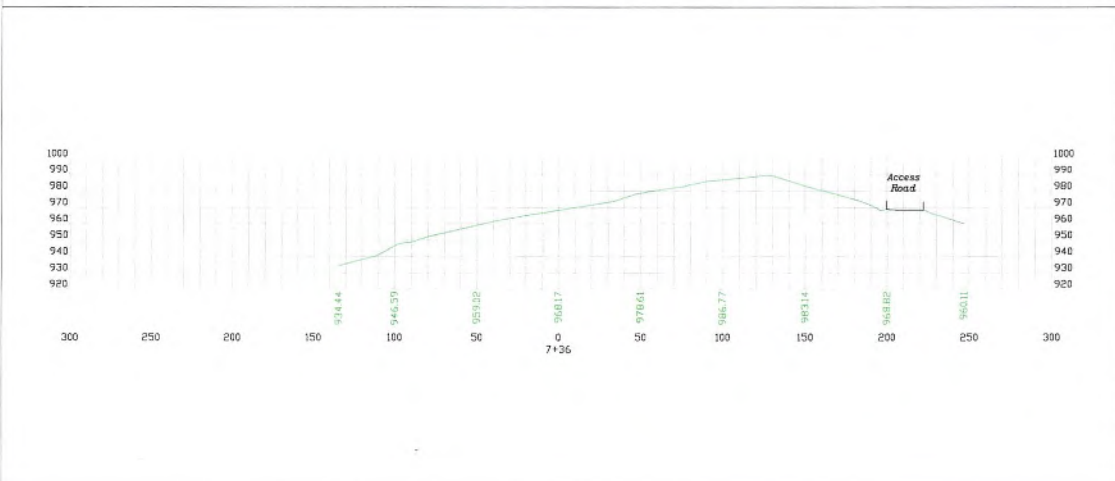
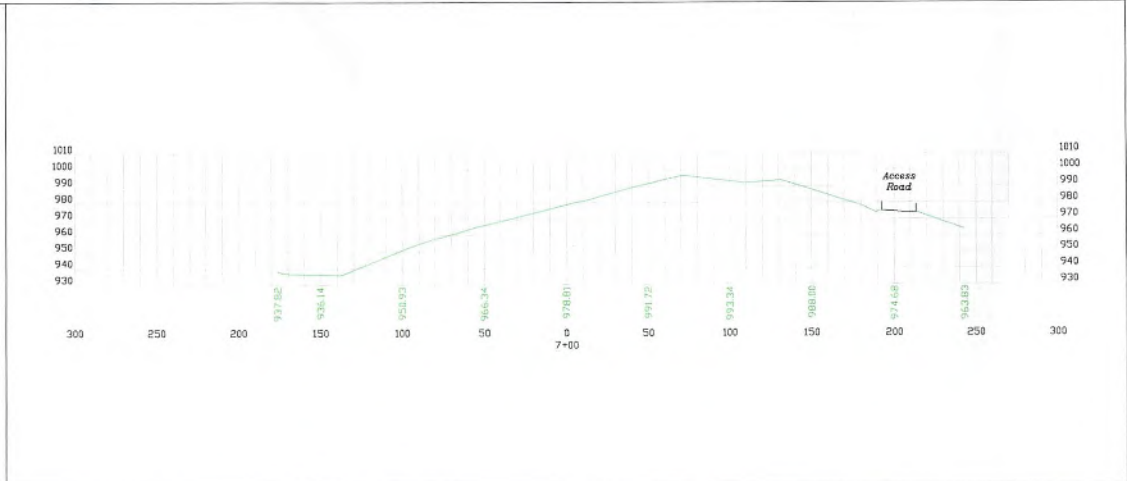
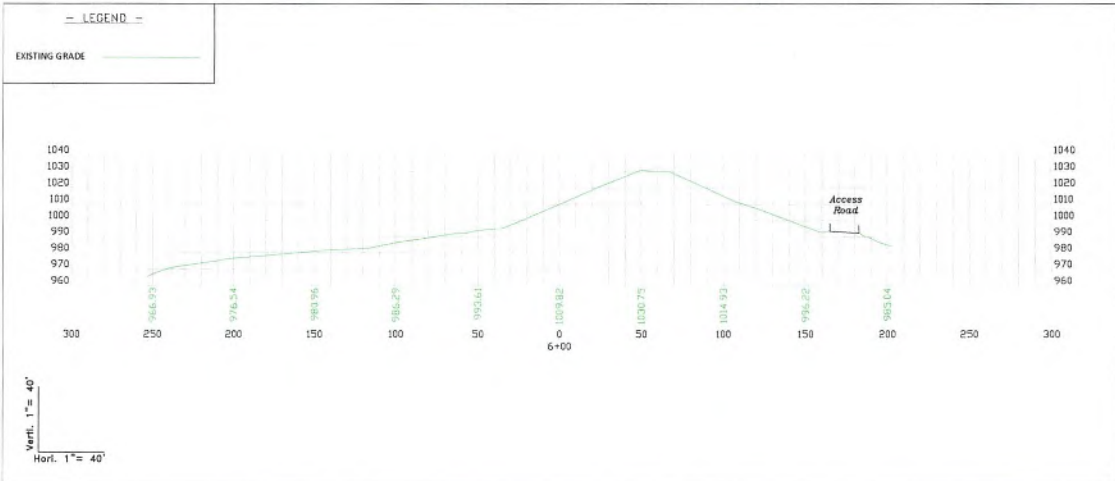


North Central Engineering, LLC
 Joshua Cook, RPE
 P.O. Box 628
 Bridgeport, WV 26330
 Cell: 304-299-1583
 E-Mail: jcook@NorthCentralEngineering.com



Jackson Surveying Inc.

PAD SECTIONS
 SHEET 6
 DOC WELL PAD
 AS-BUILT



North Central Engineering, LLC
 Joshua Cook, RPE
 P.O. Box 628
 Bridgeport, WV 26330
 Cell: 304-299-1583
 E-Mail: jcook@NorthCentralEngineering.com



Jackson Surveying Inc.
 PAD SECTIONS & PROFILE
 SHEET 7
 DOC WELL PAD
 AS-BUILT

677 W. Main St.
 Clarksburg, Wv 26301
 304-625-3851

- LEGEND -

- Existing Features
- Proposed Features
- Right of Way
- Property Line
- Creek
- Ditch/Drain
- Existing Fence
- Setline
- Overhead Utilities



West Virginia
State Plane
NAD '83
North Zone
RTS GPS

GENERAL NOTES REGARDING RECLAMATION

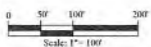
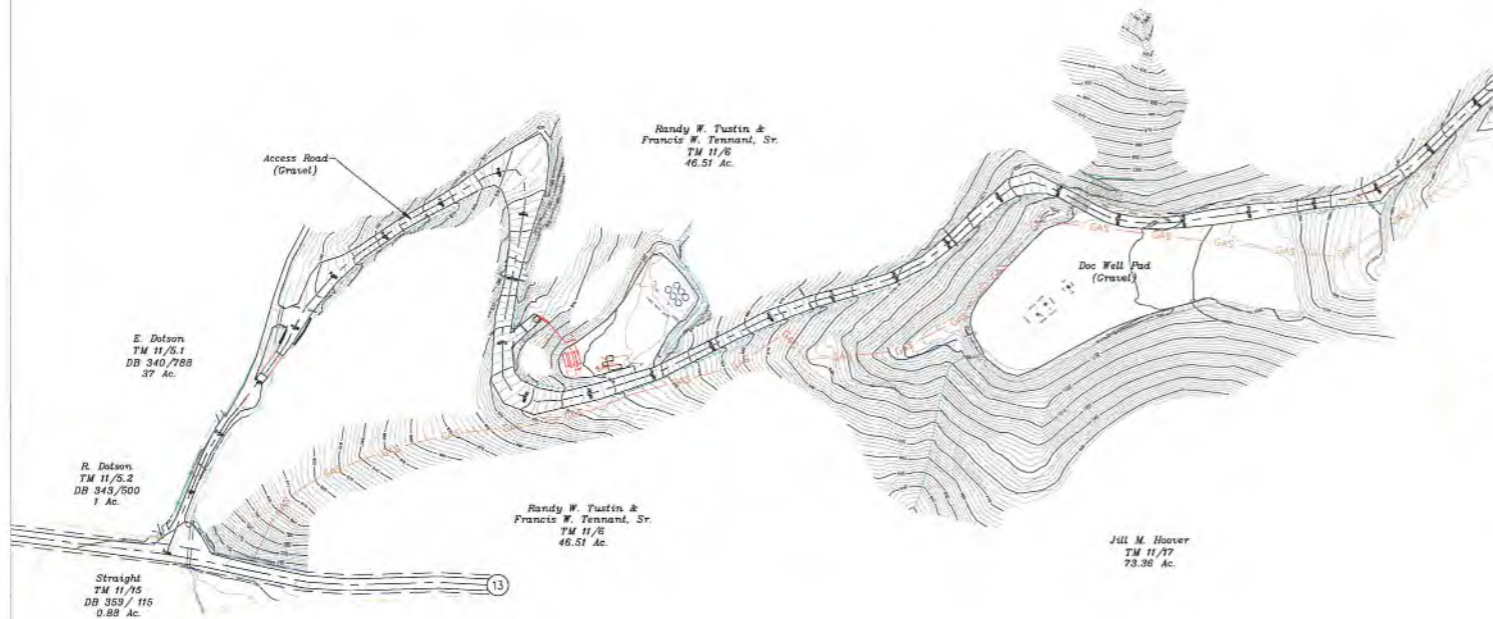
1. Pipelines: any disturbed areas created by pipeline installation shall be reclaimed in accordance with state requirements.
2. Tank batteries, power lines: any disturbed area created by the installation of tank batteries or power lines, even if out of the immediate construction site shall be reclaimed in accordance with state requirements, as these operations are used in connection with the "permitted" operation.
3. Well maintenance: disturbed areas created due to well maintenance, shall be reclaimed, mulched and seeded to reduce erosion and sedimentation.
4. API Numbers: API identification numbers shall be displayed at the well in accordance with state requirements.
5. Drilling Pit Reclamation
 - a. All fluid must be removed from the pit prior to backfilling and disposed of in an approved manner or recycled.
 - b. Drill cuttings, drilling mud and liner, for wells permitted under WV Code 22-6A and 35CSR-8, must be removed from site and disposed of at an approved solid waste facility.
 - c. All pits and impoundments that are not required or allowed by state or federal law or rule or agreement between the operator and the surface owner must be backfilled. Use a maximum of two foot thick lifts with 95% compaction to the standard proctor density (ASTM D-698).
6. The operator shall grade or terrace and plant, seed or sod the area disturbed that is not required in production of the well in accordance with the erosion and sediment control control plan.
7. Install all permanent water drainage and diversion ditches. In areas of long slopes, it may be desirable to install angled diversion ditches to aid in controlling water runoff and erosion.
8. Stockpiled topsoil should be re-spread over disturbed area. Topsoil should not be added to slopes steeper than 2:1 unless good bonding to the subsoil can be achieved.
9. Prior to seeding, soil should be loosened by disking, bulldozer tracking, etc. Note that bulldozer tracking can compact wet clay soils and restrict establishment of vegetation.
10. Maintaining sediment barriers is critical until vegetation is re-established. Temporary sediment control devices such as silt fencing shall be removed along with sediment after at least a 70% vegetative cover is established.

ACCESS ROAD RECLAMATION

1. Road surfaces shall be stabilized and/or reseeded.
2. Permanent side ditches will be installed where needed and where the site will allow.
3. Permanent culverts, cross drains and broad-based dips shall be installed.
4. Side slopes of excavated cuts and outslopes shall be maintained, where the site allows.
5. Sediment barriers shall be maintained until vegetation is re-established. Temporary sediment control devices such as ditch line checks and silt fencing shall be removed along with collected sediment after at least a 70% vegetation cover is established.

WELL SITE RECLAMATION (SPECIFIC)

1. For this pad the reclamation will consist of the berm removal, spreading the stockpiled topsoil over the 2:1 slope areas & reseeded. The pad area will remain gravel. All sumps will be removed and backfilled using the berm material using a maximum of 2 foot lifts and compacted to 95% Standard Proctor Density. All sump liners will be transported to an approved solid waste facility.
2. Use reinforced silt fence downslope of areas of topsoil placement as required.



North Central Engineering, LLC
Joshua Cook, RPE
P.O. Box 658
Bridgeport, WV 26330
Cell: 304-299-1593
E-Mail: jcook@NorthCentralEngineering.com



Jackson Surveying Inc.

REC PLAN
SHEET 8
DOC WELL PAD
AS-BUILT

677 W. Main St.
Clarksburg, Wv 26301
304-623-5651