



west virginia department of environmental protection

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

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

May 23, 2014

WELL WORK PERMIT

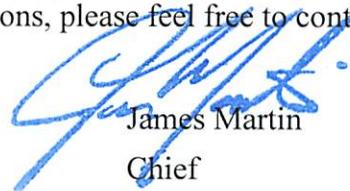
Horizontal 6A Well

This permit, API Well Number: 47-9502141, issued to JAY-BEE OIL & GAS, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

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

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: GORBY 2
Farm Name: GORBY, JAMES I. & PAULETTE
API Well Number: 47-9502141
Permit Type: Horizontal 6A Well
Date Issued: 05/23/2014

Promoting a healthy environment.

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 fifty (50) 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. 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.
8. 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.
9. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

	Applicant: JAY BEE OIL & GAS Reference ID: Gorby 2 (12/04/2013) Status: New	Type: Horizontal 6A Well Permit ID: 9502141 Printed: Mar. 24, 2014 11:31 AM
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WW-6B: General and Location Information

API Number:	<input type="text" value="47-095-02141"/>	(47-____-____)
Operator's Well Number:	<input type="text" value="Gorby 2"/>	
Filing Fee:	<input checked="" type="radio"/> First Well on Pad <input type="radio"/> Subsequent Well on Pad	<input type="text" value="10,150.00"/>
Well Pad Name:	<input type="text" value="Gorby Pad"/>	
Surface Owner:	<input type="text" value="James Ira & Paulette Gorby"/>	
Public Road Access:	<input type="text" value="Big Run Rd"/>	

Please attach each of the following as separate documents:

- Well Plat
- Wellbore Schematic

County:	<input type="text" value="Tyler-xx"/>	District:	<input type="text" value="McElroy-xx"/>
Quadrangle:	<input type="text" value="SHIRLEY"/>		
Top Hole(UTM NAD83):			
Easting:	<input type="text" value="517430.7"/>	Northing:	<input type="text" value="4368667.9"/>
Zone:	<input type="text" value="17"/>		
Proposed Landing Point(UTM):			
Easting:	<input type="text" value="517357.2"/>	Northing:	<input type="text" value="4368485.8"/>
Zone:	<input type="text" value="17"/>		
Proposed Bottom Hole(UTM):			
Easting:	<input type="text" value="518284.5"/>	Northing:	<input type="text" value="4366953.3"/>
Zone:	<input type="text" value="17"/>		
Elevations (feet) -- Current Ground:	<input type="text" value="1304"/>	Proposed Post-Construction:	<input type="text" value="1275.96"/>

Well Type:	<input checked="" type="radio"/> Gas <input type="radio"/> Oil <input type="radio"/> Underground Storage <input type="radio"/> Other <input type="text"/>
Will well be drilled more than 100 feet into the Onondaga Group?	<input type="radio"/> Yes <input checked="" type="radio"/> No
Depth Type:	<input checked="" type="radio"/> Shallow <input type="radio"/> Deep
Existing Pad?	<input type="radio"/> Yes <input checked="" type="radio"/> No

WW-6B: Target Formations

Complete the following table.

Target Formation	Depth-Top (ft)	Anticipated Thickness (ft)	Associated Pressure (psi)
Marcellus	7176	40	3500

WW-6B: Depth Specifics

Proposed Post-Construction Elevation:

Proposed Total Vertical Depth: (ft.)

Formation at Total Vertical Depth:

Proposed Total Measured Depth: (ft.)

Proposed Total Horizontal Leg Length: (ft.)

Method to Determine Fresh Water Depth:

Approximate Fresh Water Strata Depths

(ft.)

Approximate Coal Seam Depths

(ft.) Coal Seam Name, if known:

Approximate Depth to Possible Void(coal mine, karst, other)

(ft.) Not Anticipated:

Approximate Saltwater Depths

(ft.)

WW-6B: Well Work and Mine Details

Is proposed well location directly overlying or tributary to an active mine?

Yes No

If Yes, indicate name, depth, coal seam and owner of mine:

Coal Seam: Depth:
 Mine Name: Owner:

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.

Describe fracturing/stimulating methods in detail, including anticipated max pressure and anticipated max rate.

300-350' per stage 8,500bbbls 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.

Total area to be disturbed, including roads, stockpile area, pits, etc, (acres):

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

WW-6B: Casing and Cementing

Complete the following table, adding as many rows of each **Type** as needed.

Type	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	Footage: For Drilling	Intervals: Left in Well
Conductor	16	New	J55	40	30	30
Wellbore Diameter (in)		Wall Thickness (in)		Burst Pressure (psi)		
17.5		.495		3000		
Cement Type		Yield (cu. ft./sk)	Fillup - Cubic Feet	Top of Cement	Circulated to Surface?	
Class A Cement		1.19	8.22	0	<input checked="" type="checkbox"/>	
Type	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	Footage: For Drilling	Intervals: Left in Well
Fresh Water	11 3/4	New	J55	32	575	575
Wellbore Diameter (in)		Wall Thickness (in)		Burst Pressure (psi)		
15		.333		1500		
Cement Type		Yield (cu. ft./sk)	Fillup - Cubic Feet	Top of Cement	Circulated to Surface?	
Class A Cement		1.26	272.65	0	<input checked="" type="checkbox"/>	
Type	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	Footage: For Drilling	Intervals: Left in Well

Intermediate ▾	8 5/8	New	J55	24	2000	2000
Wellbore Diameter (in)		Wall Thickness (in)		Burst Pressure (psi)		
11		.264		2500		
Cement Type		Yield (cu. ft./sk)	Fillup - Cubic Feet	Top of Cement	Circulated to Surface?	
Class A Cement		1.45	508.43	0	<input checked="" type="checkbox"/>	
Type	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	Footage: For Drilling	Intervals: Left in Well
Production ▾	5 1/2	New	P110	17	14630	14630
Wellbore Diameter (in)		Wall Thickness (in)		Burst Pressure (psi)		
7 7/8		.304		15000		
Cement Type		Yield (cu. ft./sk)	Fillup - Cubic Feet	Top of Cement	Circulated to Surface?	
Type 1 Cement		1.34	2361.46	1000	<input type="checkbox"/>	

WW-6B: Centralizers, Cement, Borehole

Describe 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.

Centralizers Type and Placement.

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

Cement Additives.

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

WW-6B: Packers

Will Packers be Used? Yes No
 If Yes, complete the following:

Kind	Sizes	Depths Set

WW-9: Fluids, Cuttings Disposal and Reclamation Plan

State: West Virginia County: Tyler-xx
 District: 05 Quadrangle: SHIRLEY
 Zone: 17
 Northing: 4368667.9 Easting: 517430.7

API Number: 47-095-02141
 Operator Well Number: Gorby 2

Do you anticipate drilling/redrilling well work?
 Yes No

Will a pit be used for plugging activities? Yes No
 If so, please describe anticipated pit waste:

Drill Cuttings - Air Drilling

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

Proposed Disposal Method For Treated Pit Waste Water:

Underground Injection (UIC Permit Number)

Reuse (at API Number

)

Other (explain)

Using Contract Haulers Norte/CES (API's 47-085-05151)

Will closed loop system be used? Yes No

If so, describe:

Centrifuge System (Boss, Newalta) Possible

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

Brine Base Drilling Mud

If oil based, what type? Synthetic, petroleum, etc.

Water Based

Additives to be used in drilling medium?

Bentonite, Salt, Soda Ash

Solid Waste disposal method from Plugging Activities:

- Leave in Pit (Indicate medium used: cement, sawdust, lime, etc):
- Landfill (name/permit number?)
- Removed Offsite (name/permit number?) Meadowfill/Permit 101219WV
- Other: (please explain)

Proposed Revegetation Treatment:

Acres Disturbed: 9.5 Prevegetation pH: 6.8

Lime Tons/acre to correct to pH: 3

Fertilizer (10-20-20 or equivalent): 750 lbs/acre

Mulch Hay 2000 lbs/acre

Comments:

Attach a Reclamation Plan/Drawing

Seed Mixtures

Area Type	Seed Type	lbs/acre
Permanent	KY-31	20

Permanent ▼	Creeping Red Fescue	30
Permanent ▼	Lathco Flat Pea/Perennial Ryegrass	30
Temporary ▼	Annual Ryegrass	40

JAY -BEE OIL & GAS INC
3570 SHIELDS HILL RD
CAIRO, WV 26337
OFFICE (304) 628-3111
FAX (304) 628-3107

WELL SITE DRILLING PROCEDURES AND SITE SAFETY PLAN
Per 35CSR8/§22-6A

(Any changes or modifications to previously approved plans must be approved by the
 West Virginia Department of Environmental Protection - Office of Oil and Gas)

A copy of this plan will be provided to the local emergency planning committee or
 county emergency services offices at least 7 days prior to land disturbance from well
 work.

SITING STANDARDS

Well Name	Gorby 2
Well Pad	Gorby Pad
Latitude/Longitude	NAD83- Lat. 39.467417 Long. -80.797359
Location of Access Road	From WV18 and Indian Creek Rd .9 miles, North on Big Run Rd 1.9 miles, lease road on left.
Detail of Actual Well Work	Drill and Stimulate a New Horizontal Well.
Detail of Completion and Production Activities	<u>Fracturing/ Stimulating Methods</u> 300-350' per stage 8,500bbls of water, 150,000 – 400,000lbs of sand, friction reducer, 1# per gallon, scale inhibitor, and bacteria prevention ¼# per gallon 2000 gallons 15% vol acid.
Directions to Well	Starting from West Union, WV travel west on State Route 18 for 18.8 miles, Turn right onto County Route 13, Indian Creek Road for .9 miles, turn left onto Big Run Rd, 1.9 miles to a Jay-Bee Oil & Gas Lease Road on the left of Big Run Rd.
Prevailing Wind Direction	South/ South East


 12-12-13



Water Management Plan: Secondary Water Sources



WMP-01755 API/ID Number: 047-095-02141 Operator: Jay-Bee Oil & Gas, Inc.
Gorby 2

Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Multi-site impoundment

Source ID:	34214	Source Name	Indian Creek Freshwater Centralized Impoundment		Source start date:	4/1/2014
					Source end date:	4/1/2015
Source Lat:	39.482507	Source Long:	-80.785834	County	Tyler	
Max. Daily Purchase (gal)				Total Volume from Source (gal):	7,854,000	

DEP Comments:

The intake identified above has been defined in a previous water management plan. The thresholds established in that plan govern this water management plan unless otherwise noted.

Reference: WMP-963

APPROVED FEB 03 2014

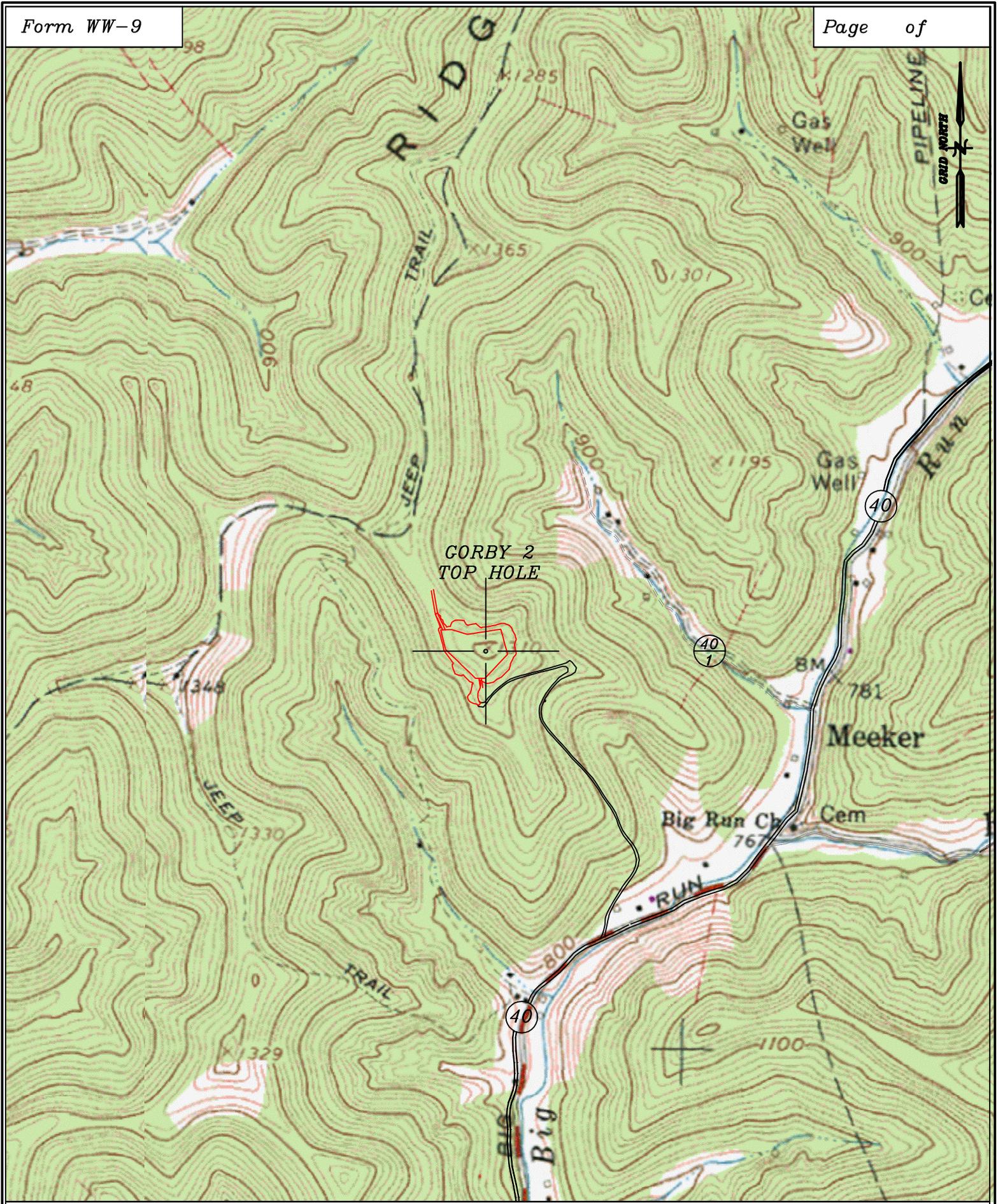
Important:

For each proposed secondary water source identified in your water management plan (i.e., groundwater well, lake/reservoir, recycled frac water, multi-site impoundment, out-of-state source), DEP makes no estimation of the availability of water. These sources may prove to be unsuitable water supplies. Please review the following notes:

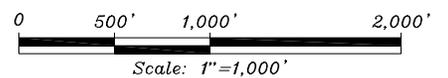
- For groundwater supply wells, DEP recommends that the operator contact the local health department prior to drilling any new well; and reminds the operator that all drinking water wells within 1,500 feet of a water supply well shall be flow- and quality-tested by the operator at the request of the drinking well owner prior to operation of the water supply well.
- For each proposed multi-site impoundment water source identified in your water management plan (if applicable), DEP will review the withdrawal limits established in the referenced Water Management Plan for current suitability and provide to the operator these limits for each identified intake. Note that withdrawal limits may be modified as necessary based on changing demands upon that water supply.

Recycled Frac Water

Source ID:	34215	Source Name:	Various	Source start date:	4/1/2014
				Source end date:	4/1/2015
	Source Lat:		Source Long:		County
	Max. Daily Purchase (gal)		Total Volume from Source (gal):		7,854,000
	DEP Comments:				

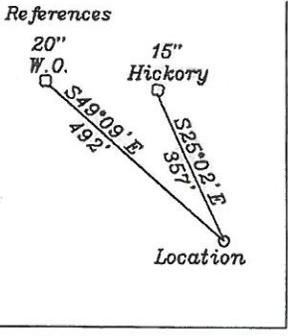


Well: Gorby 2
Quad: Shirley 7 1/2'
District: McElroy
County: Tyler



Top Hole 1,827'

Bottom Hole 10,665'



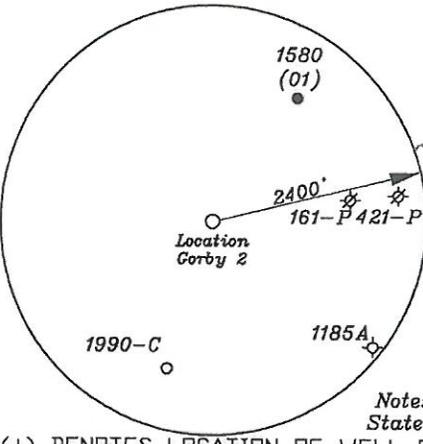
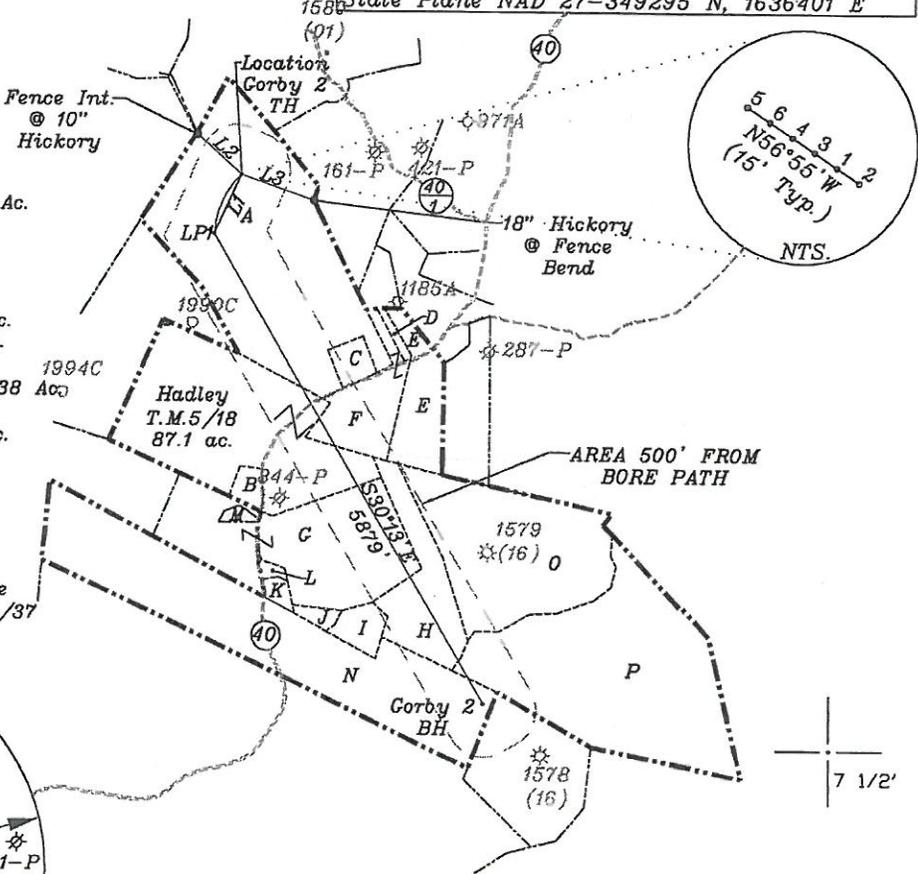
LATITUDE 39-30-00 N (TH)
LATITUDE 39-27-30 N (BH)

Top Hole
NAD 27-39.467336 N, 80.797533 W
UTM NAD83(meters)-4368667.9 N, 517430.9 E
State Plane NAD 27-354968.9 N, 1633693.9 E
Landing Point LP-1
NAD 27-39.465696 N, 80.798395 W
UTM NAD83(meters)-4368485.8 N, 517357.2 E
State Plane NAD 27-354375 N, 1633442 E
Bottom Hole
NAD 27-39.451868 N, 80.787658 W
UTM NAD83(meters)-4366953.3 N, 518284.5 E
State Plane NAD 27-349295 N, 1636401 E

Notes: No water wells were found within 250' of the well location. No dwellings or agricultural buildings were found within 625' of the center of the well pad.

- A- Gorby T.M. 6/44 105.5 Ac.
- B- M.Hadley T.M. 6/54 2.899 Ac.
- C- Gorby T.M. 6/45 4 ac.
- D- Gorby T.M. 6/46.1 0.92 Ac.
- E- Gorby T.M. 6/47 16.73 Ac.
- F- Gorby T.M. 6/46 18.74 Ac.
- G- Hadley T.M. 6/42 39.351 Ac.
- H- Coastal Forest Resources Co. T.M. 6/39 23.0 Ac.
- I- R.Warner p/o T.M.6/42.1 5.38 Ac.
- J- Warner T.M.6/42.3 2.02, Ac.
- K- Warner T.M.6/42.2 1.925 Ac.
- L- Sayre T.M.6/42.4 1.055 Ac.
- M- Dotson T.M.6/43 1.2 Ac.
- N- Haught T.M.6/40 93 Ac.
- O- Coastal Lumber Co. T.M.6/38 60 Ac.
- P- F M White heirs Elijah Spencer etal Sylvester White hrs. & Ronald Hoover T.M.6/37 108 Ac.

NORTH



Notes: All wells within 500' of the horizontal leg are shown on this plat based upon information taken from DEP mapping, well plats, & aerial photos.

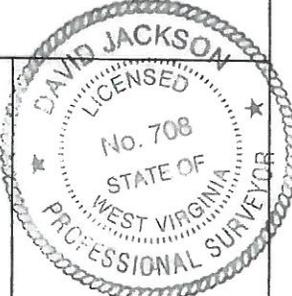
NUMBER	DIRECTION	DISTANCE
L1	S23°00' W	645'
L2	S44°04' E	647'
L3	N74°36' W	869'

Notes: Ties to wells and corners are based on State Plane Grid North-WV North Zone NAD 27.

(+) 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 Jackson
R.P.E. _____ P.L.S. 708



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

DATE December 11, 2013
OPERATOR'S WELL NO. Gorby 2
API WELL NO. _____

WELL TYPE: OIL X GAS X LIQUID INJECTION X WASTE DISPOSAL _____ STATE 47 COUNTY 095 PERMIT 02141H6A
(IF "GAS") PRODUCTION X STORAGE _____ DEEP _____ SHALLOW X
LOCATION: ELEVATION 1275.96' WATER SHED Big Run
DISTRICT McElroy COUNTY Tyler
QUADRANGLE Shirley 7 1/2'

SURFACE OWNER James I. Gorby & Paulette Gorby ACREAGE 105.5 ac.
OIL & GAS ROYALTY OWNER Virginia Waterman (TM.6/44 & 46), Jimmie Lee Hadley (TM.5/18), Nancy & John Fout (TM.6/42), Harry Nichols (TM.6/39), Ronald Hoover (TM.6/37), George Spencer (TM.6/40)

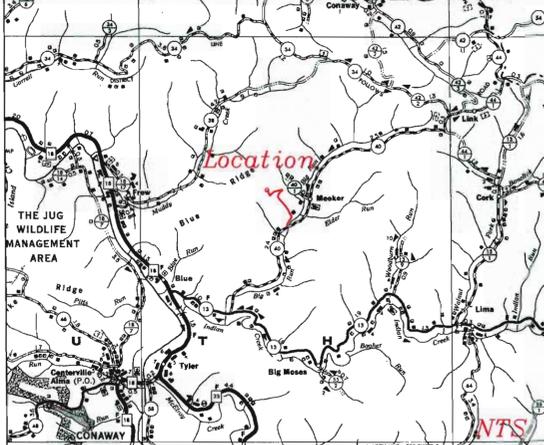
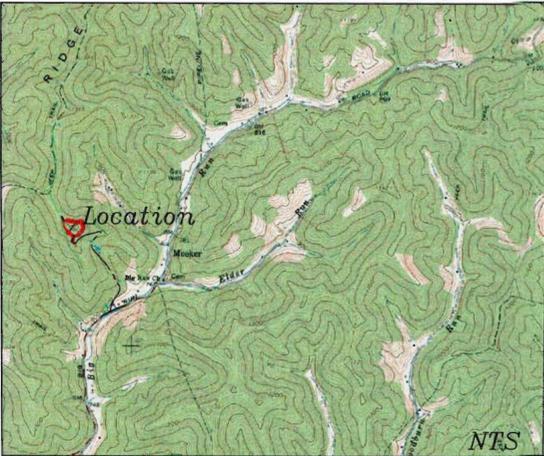
LEASE NO. T3129 105.5 & 18.74 Ac., T3127 87.1 Ac., FoutT34 39.351, Ac., RPT3 23 Ac. T3133 108 Ac., T1-03 93 Ac.

PROPOSED WORK: DRILL X CONVERT _____ DRILL DEEPER _____ REDRILL _____ FRACTURE OR STIMULATE X PLUG OFF OLD FORMATION _____ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG AND ABANDON _____ CLEAN OUT AND REPLUG _____
TARGET FORMATION Marcellus ESTIMATED DEPTH TMD 14630'+ TVD 7176' +/-
WELL OPERATOR Jay Bee Oil & Gas, Inc. DESIGNATED AGENT Randy Broda
ADDRESS 1720 Rt. 22, East Union, NJ 07083 ADDRESS Route 1, Box 5, Cairo, WV 26337

LONGITUDE 80-45-00 N (BH)
LONGITUDE 80-47-30 N (TH)

Bottom Hole 2,230'

Top Hole 11,872'



API#9502141
API#9502142

West Virginia
State Plane
NAD '83
North Zone
RTK GPS

Gorby Well Pad Site Plan

**APPROVED
WVDEP OOG**
SAY 3/20/2014

TOTAL DISTURBED AREA: 9.5 ACRES
ROAD A DISTURBED AREA: 1.6 ACRES
ROAD B DISTURBED AREA: 0.3 ACRES
PAD DISTURBED AREA: 7.6 ACRES

MCELROY DISTRICT, TYLER COUNTY, WV

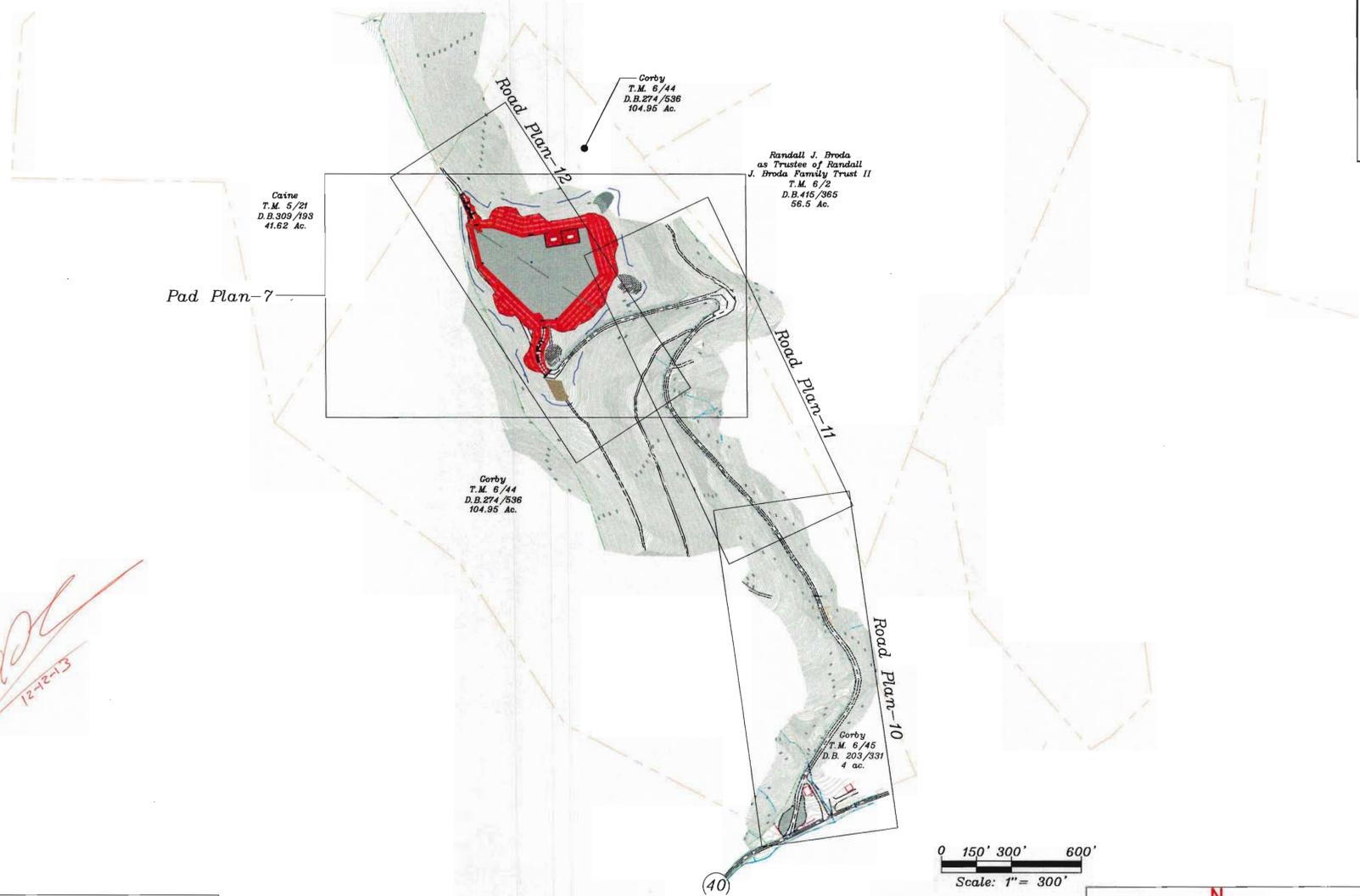
Prepared for JAY BEE OIL & GAS

Date: October 30, 2013

Revisions:
Revised Pad & Access Road 11-12-13
District Revised 12-04-13
Ownership on Tax Map 6 parcel 2 12-06-13

Electronic Version of These Plans May Be Viewed at: Q:\OIL GAS\SAY FILES\REVIEWS

Sheet	Description
1	Cover
2	Notes
3	Details
4	Details
5	Details
6	Existing Contour Plan
7	Pad Plan & Profile
8	Pad Cross Sections
9	Reclamation Plan
10	Ex. Access Road Plan & Profile
11	Ex. Access Road Plan & Profile
12	Access Road A Plan & Profile
13	Access Road A Cross Sections
14	Access Road B Profile & Cross Sections



[Handwritten signature]
12-12-13

CENTER PAD
Geographic NAD 83
Latitude: 39.467585
Longitude: 80.797607

Geographic NAD 27
Latitude: 39.467505
Longitude: 80.797780

UTM, NAD 83 (METERS)
North: 4368686.6
East: 517409.7

WELL ENTRANCE INT.
Geographic NAD 83
Latitude: 39.461048
Longitude: 80.793685

Geographic NAD 27
Latitude: 39.460968
Longitude: 80.793859

UTM, NAD 83 (METERS)
North: 4367961.9
East: 517748.6

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.

Dennis L. Fisher RPE 8684: *[Signature]* 12/12/13
Date:

Jay Bee Oil & Gas
DRILLING
into the future

DLF.
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Jackson Surveying Inc.

Cover
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Gorby Well Pad Site Plan