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west virginia department of environmental protection

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

Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

## PERMIT MODIFICATION APPROVAL

July 03, 2013

JAY-BEE OIL & GAS  
1720 RT. 22 E  
UNION, NJ 70830

Re: Permit Modification Approval for API Number 9502097 , Well #: RPT 5-2

**UPDATED ROAD ON PAD**

Oil and Gas Operator:

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

Please call James Martin at 304-926-0499, extension 1654 if you have any questions.

Sincerely,

Gene Smith  
Regulatory/Compliance Manager  
Office of Oil and Gas



**JAY-BEE OIL & GAS, INC.**

Received

JUL 1 2013

Office of Oil and Gas  
WV Dept. of Environmental Protection

95-02096 ✓  
95-02097 ✓  
95-02098 ✓

June 27, 2013

RE: RPT5 Updated Plans

Steve Young,

Enclosed in this envelope are the updated plans for the RPT5, updating the road to the pads.

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

Sincerely,

Shane Dowell  
Office Manager

MODIFICATION No. 1

Rec'd: ~~6/27/13~~  
5/15/2013

Approved: 7/2/2013

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

~~304~~ 304 869-3811

07/12/2013



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**west virginia** department of environmental protection

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601 57th Street SE  
Charleston, WV 25304  
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Earl Ray Tomblin, Governor  
Randy C. Huffman, Cabinet Secretary  
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April 23, 2013

**WELL WORK PERMIT**

**Horizontal 6A Well**

This permit, API Well Number: 47-9502097, 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: RPT 5-2  
Farm Name: LeMASTERS, DWIGHT ET AL  
**API Well Number: 47-9502097**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 04/23/2013

**Promoting a healthy environment.**

**07/12/2013**

# 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

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1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-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.
2. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the fill material shall be within plus or minus 2% (unless soil test results show a greater range of moisture content is appropriate and 95% compaction can still be achieved) of the optimum moisture content as determined by the standard proctor density test, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort. Each lift must meet 95 % compaction of the optimum density based on results from the standard proctor density test of the actual soils used in specific engineered fill sites. 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.
3. 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.
4. 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.
5. 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.

07/12/2013

**STATE OF WEST VIRGINIA**  
**DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS**  
**W.VA. CODE §22-6A - WELL WORK PERMIT APPLICATION**

1) Well Operator: Jay-Bee Oil & Gas Inc 24610 095-Tyler 02-McElroy Shirley 7.5'  
Operator ID County District Quadrangle

2) Operator's Well Number: RPT5-2 Well Pad Name: RPT5

3 Elevation, current ground: 1278' Elevation, proposed post-construction: 1258'

4) Well Type: (a) Gas  Oil   
Other \_\_\_\_\_  
(b) If Gas: Shallow  Deep \_\_\_\_\_  
Horizontal

5) Existing Pad? Yes or No: No

6) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):  
Marcellus, Target Depth 7,500', Total Depth 14,500', 20-40' thick, .20-.25 pressure gradient.

7) Proposed Total Vertical Depth: 7,500'

8) Formation at Total Vertical Depth: Marcellus

9) Proposed Total Measured Depth: 14,500'

10) Approximate Fresh Water Strata Depths: 482'

11) Method to Determine Fresh Water Depth: Well Record TYL 656-A

12) Approximate Saltwater Depths: 937' & 1927'

13) Approximate Coal Seam Depths: 837-838'

14) Approximate Depth to Possible Void (coal mine, karst, other): None

15) Does land contain coal seams tributary or adjacent to, active mine? No

16) Describe proposed well work: Drill and Stimulate a new Horizontal Well.

17) Describe fracturing/stimulating methods in detail:  
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.

18) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): 22.4 Acres

19) Area to be disturbed for well pad only, less access road (acres): 6.4 acres

**RECEIVED**  
**Office of Oil and Gas**

APR 05 2013

WV Department of  
Environmental Protection

07/12/2013

20)

CASING AND TUBING PROGRAM

<u>TYPE</u>	<u>Size</u>	<u>New or Used</u>	<u>Grade</u>	<u>Weight per ft.</u>	<u>FOOTAGE: For Drilling</u>	<u>INTERVALS: Left in Well</u>	<u>CEMENT: Fill -up (Cu. Ft.)</u>
Conductor	16	New	J55	40	30	30	-
Fresh Water	11 3/4	New	J55	32	560	560	CTS +25%
Coal							
Intermediate	8 5/8	New	J55	24	2,000	2,000	CTS +15%
Production	5 1/2	New	P110	17	14,500	14,500	Cement up to 1000' From Surface
Tubing							
Liners							

<u>TYPE</u>	<u>Size</u>	<u>Wellbore Diameter</u>	<u>Wall Thickness</u>	<u>Burst Pressure</u>	<u>Cement Type</u>	<u>Cement Yield</u>
Conductor	16	17 1/2	.495	3,000#	Class A Cement	1.19CF per Sack
Fresh Water	11 3/4	15	.333	1,500#	Class A Cement	1.19CF per Sack
Coal						
Intermediate	8 5/8	11	.264	2,500#	Class A Cement	1.19CF per Sack
Production	5 1/2	7 7/8	.304	15,000#	Type 1 Cement	1.19CF per Sack
Tubing						
Liners						

PACKERS

Kind:	N/A			
Sizes:				
Depths Set:				

*[Handwritten Signature]*  
1-8-13

21) 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.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

22) Describe all cement additives associated with each cement type.

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, 1/4# Super Flake, No Foam, Bentonite Super Flake

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

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

23) 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.

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.

Jay-Bee Oil & Gas Inc.  
Well Name RP15-2  
GL Elevation 1278'  
KB 14 feet

Date  
District  
County  
State

1/2/2013  
McElroy  
Tyler  
West Virginia

Input by: Shane Dowell



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Office of Oil & Gas  
JAN 3 2013  
WV Department of  
Environmental Protection



app rec'd 1/3



## Water Management Plan: Secondary Water Sources



WMP-00949

API/ID Number 047-095-02097

Operator:

Jay-Bee Oil & Gas, Inc.

RPT5-2

### 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:	10816	Source Name	RPT8 Centralized Freshwater Impoundment #1	Source start date:	4/1/2013
				Source end date:	4/1/2014
		Max. Daily Purchase (gal)		Total Volume from Source (gal):	5,000,000

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-910

APPROVED FEB 19 2013

**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.

Source ID: 10817	Source Name	RPT8 Centralized Freshwater Impoundment #2	Source start date:	4/1/2013
			Source end date:	4/1/2014
	Max. Daily Purchase (gal)		Total Volume from Source (gal):	5,000,000

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-909

**Recycled Frac Water**

Source ID: 10818	Source Name	McIntyre Pad; W701 Pad; Schulberg Pad; T1213	Source start date:	4/1/2013
			Source end date:	4/1/2014
	Max. Daily Purchase (gal)		Total Volume from Source (gal):	210,000

DEP Comments:

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

**CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM**  
**GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE**

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

Watershed Big Run Quadrangle Shirley 7.5'

Elevation 1278' (ground) 1258' (proposed) County 095-Tyler District 02-McElroy

Description of anticipated Pit Waste: Drill Water and Various Formation Cuttings

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

Will a synthetic liner be used in the pit? Yes . If so, what mil.? 60Mil

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Undergound Injection ( UIC Permit Number 2d0857652, drilling fluid )
- Reuse (at API Number other wells on same location )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain Using Contract Haulers Magnum Hunter (API's 34-121-23995, 34-121-24086) hauling to their disposal wells)

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. Brine Base Drilling Mud  
-If oil based, what type? Synthetic, petroleum, etc.

Additives to be used? Bentonite, Salt, Soda Ash

Will closed loop system be used? Possible Centrifuge

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. land fill  
-If left in pit and plan to solidify what medium will be used? Cement, lime, and sawdust, removed to landfill - LKC  
-Landfill or offsite name/permit number? Waste Management Meadowfill/Permit 101219WV

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 *Shane Dowell*

Company Official (Typed Name) Shane Dowell

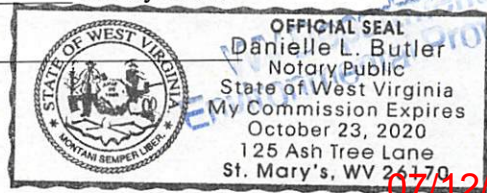
Company Official Title Office Manager

Subscribed and sworn before me this 2 day of January, 20 13

*Danielle L. Butler*

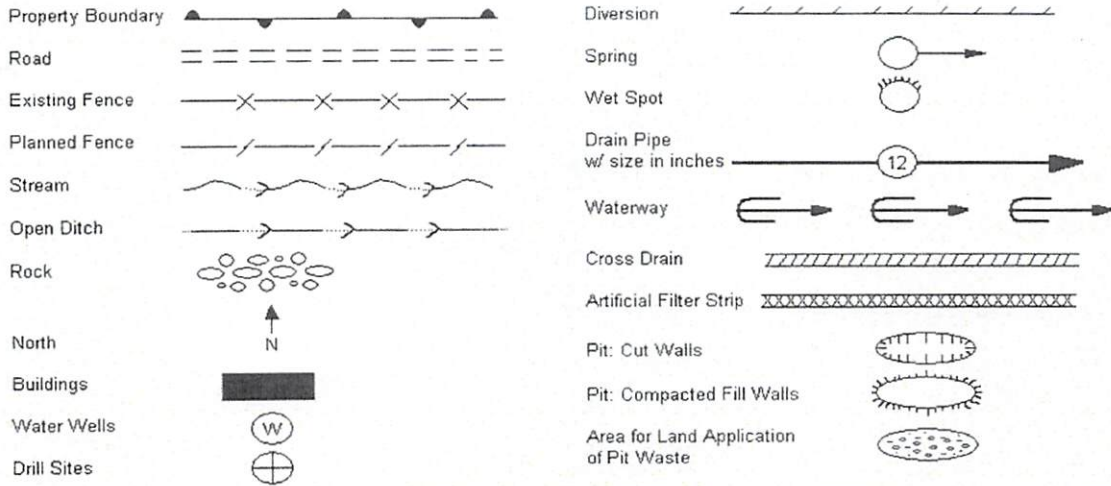
My commission expires October 23, 2020

Notary Public



RECEIVED  
Office of Oil & Gas  
JAN 3 2013

07/12/2013



Proposed Revegetation Treatment: Acres Disturbed 5.65 +/- Prevegetation pH \_\_\_\_\_

Lime 3 Tons/acre or to correct to pH 6.5

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

Mulch hay/2 Tons/acre

Seed Mixtures

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

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

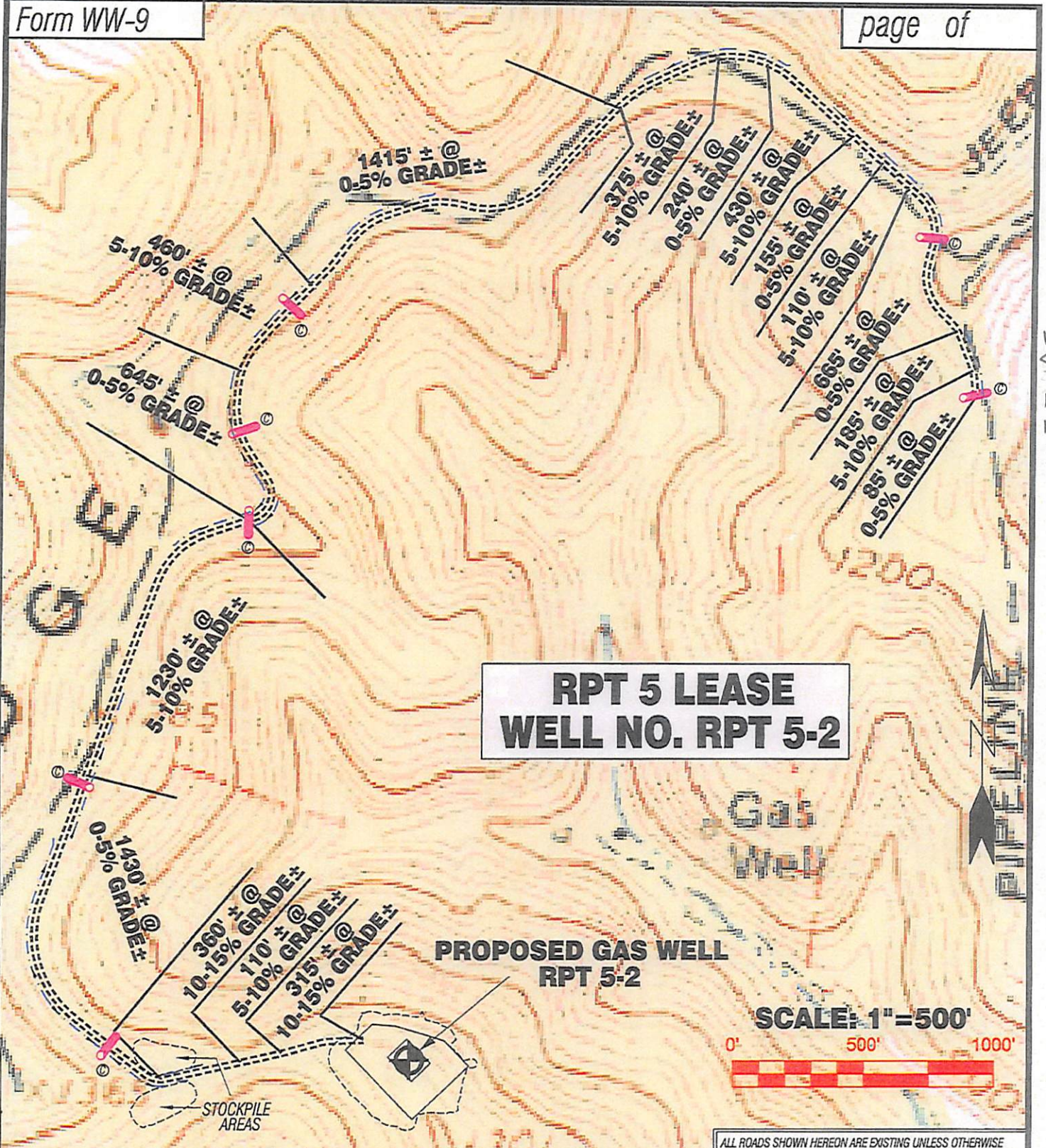
Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

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

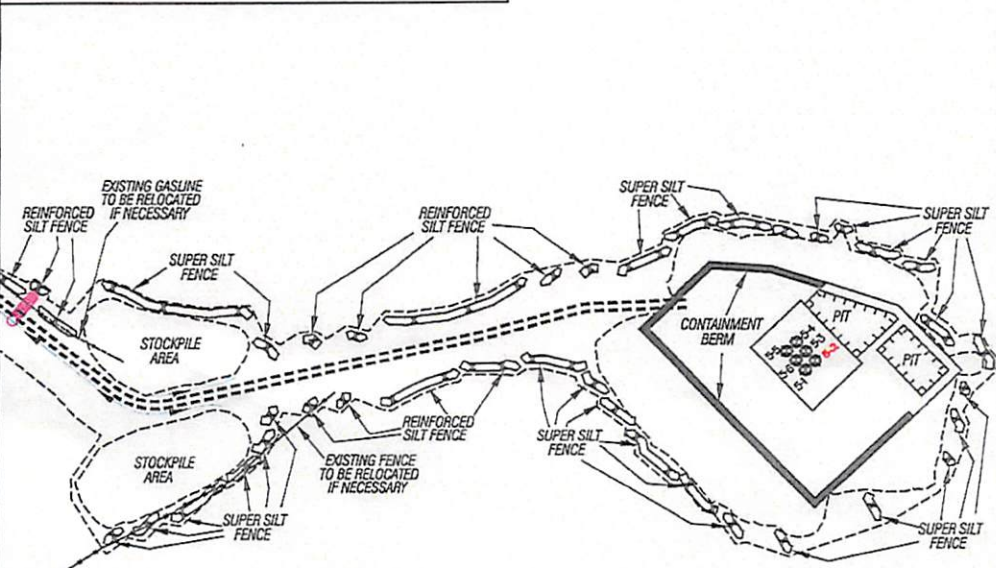
Title: Inspector Date: 1-8-13

Field Reviewed?  Yes  No



Wells  
 <2400'  
 1586  
 1612  
 1614

Detail Sketch for Proposed Well No. RPT 5-2



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

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

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

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

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

07/12/2013

PROPOSED CULVERT  
 EXISTING CULVERT  
 PROPOSED CULVERT 15' MIN. UNLESS OTHERWISE NOTED

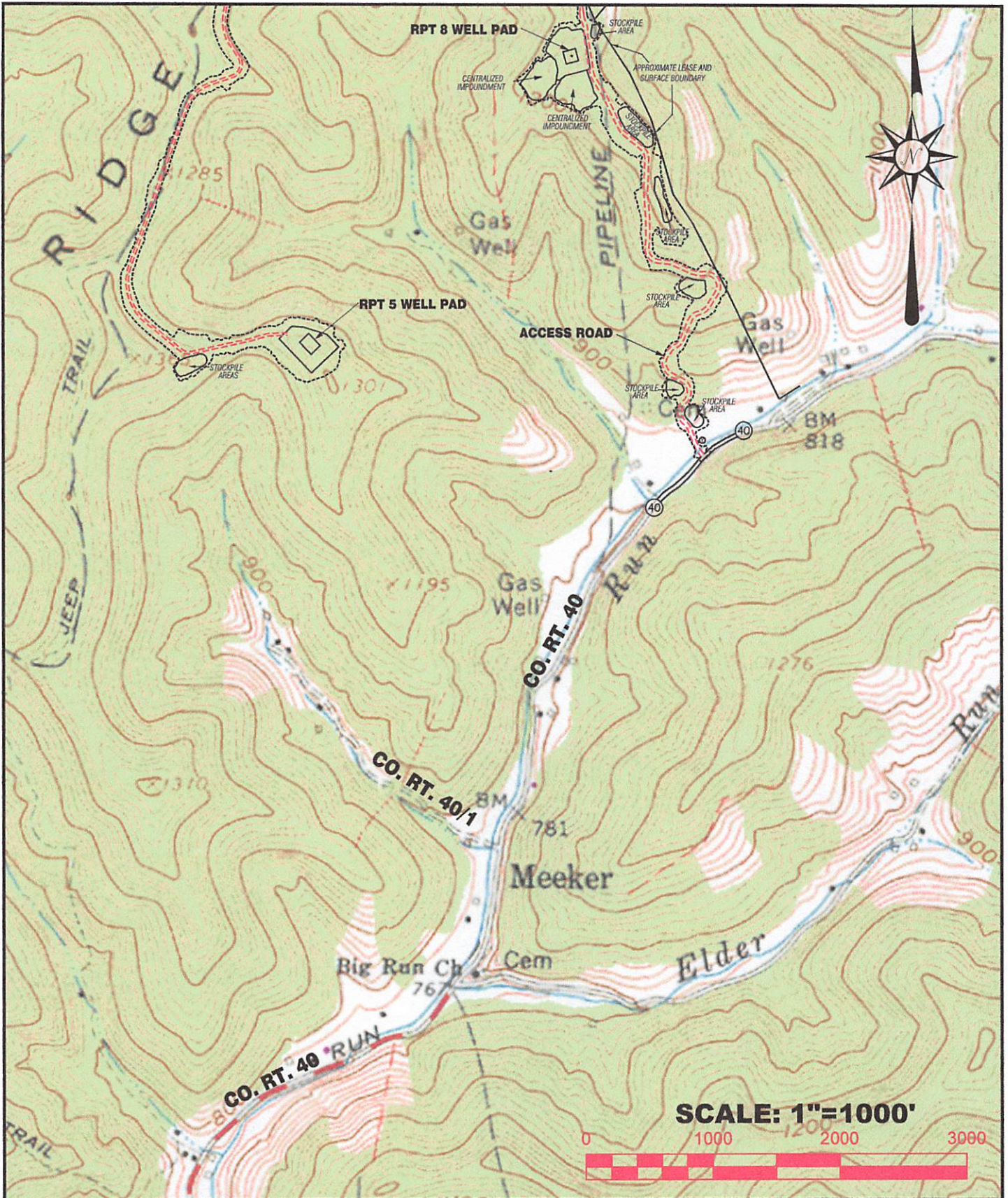
PROPOSED STREAM CROSSING  
 APPROXIMATE LIMITS OF DISTURBANCE


**SLS**

SMITH LAND SURVEYING, INC.  
 P.O. BOX 150 GLENVILLE, WV. 26351  
 PH: (304)462-5634 FAX: (304)462-5656 E-MAIL: sls@slssurveys.com

DRAWN BY K.D.W.	FILE NO. 7872	DATE: 12/28/12	CADD FILE: 7872RECS-2.DWG
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TOPO SECTION OF SHIRLEY 7.5'  
 USGS TOPO QUADRANGLE

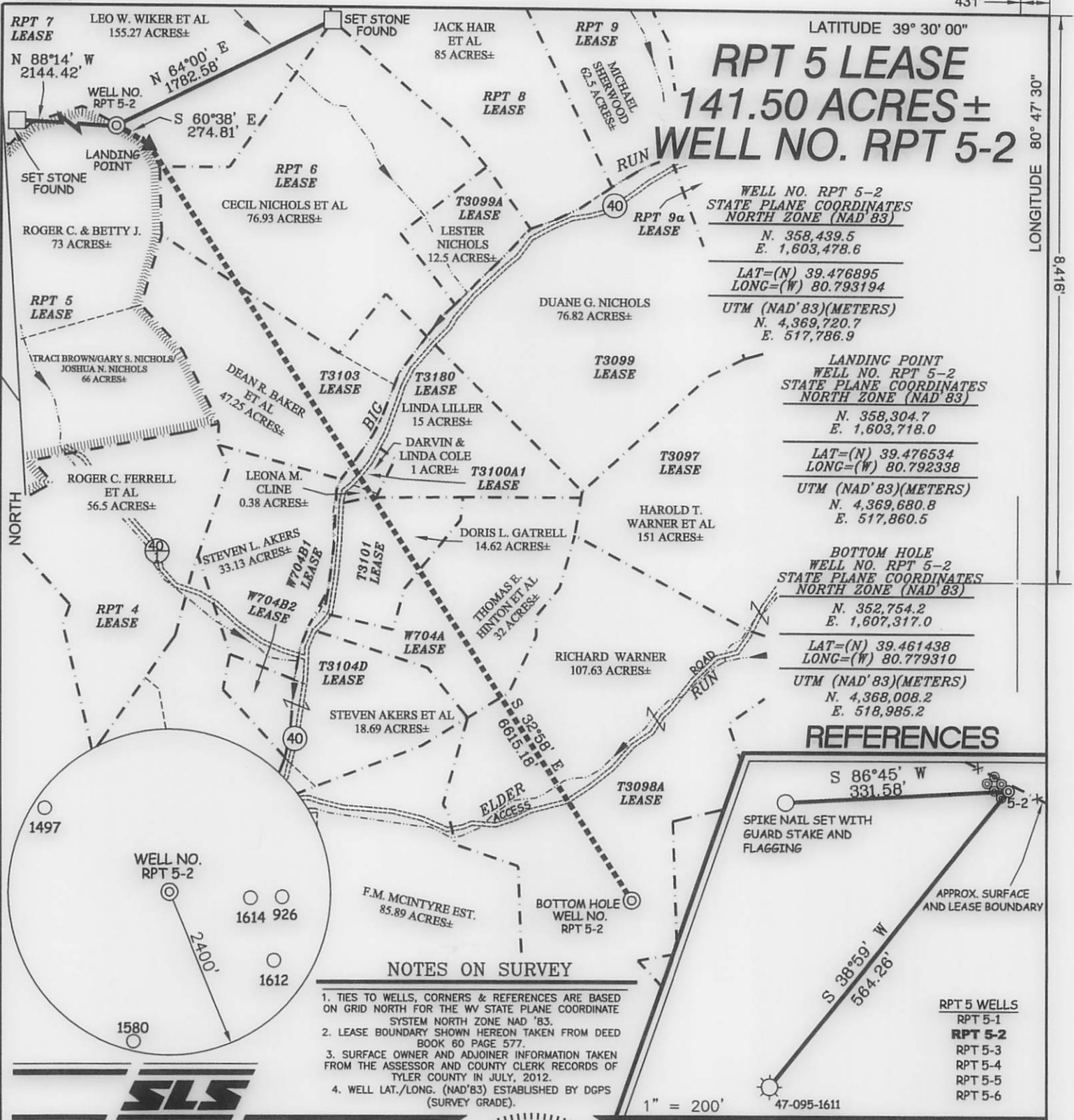


**Professional Energy Consultants**  
 A DIVISION OF SMITH LAND SURVEYING, INC.  
  
 SURVEYORS  
 ENGINEERS  
 ENVIRONMENTAL  
 PROJECT MGMT.  
 P.O. Box 150  
 228 W. Main Street  
 Glenville, WV 26031  
 PH: (304) 482-5634  
 FAX: (304) 482-5656  
 E-MAIL: sls@slsurveyors.com

**TOPO OF SHIRLEY 7.5'  
 USGS TOPO QUADRANGLE**

<b>DRAWN BY</b> W.A.W.	<b>JOB NO.</b> 7872	<b>DATE</b> 04/04/13
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**RPT-5 AND RPT-8  
 ACCESS ROAD**



# RPT 5 LEASE 141.50 ACRES± WELL NO. RPT 5-2

WELL NO. RPT 5-2  
STATE PLANE COORDINATES  
NORTH ZONE (NAD'83)  
N. 358,439.5  
E. 1,603,478.6  
LAT=(N) 39.476895  
LONG=(W) 80.793194  
UTM (NAD'83)(METERS)  
N. 4,369,720.7  
E. 517,786.9

LANDING POINT  
WELL NO. RPT 5-2  
STATE PLANE COORDINATES  
NORTH ZONE (NAD'83)  
N. 358,304.7  
E. 1,603,718.0  
LAT=(N) 39.476534  
LONG=(W) 80.792338  
UTM (NAD'83)(METERS)  
N. 4,369,680.8  
E. 517,860.5

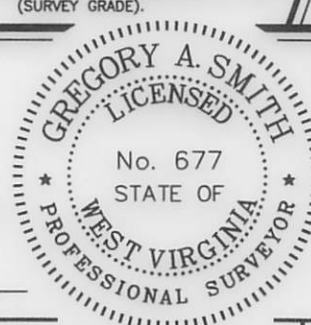
BOTTOM HOLE  
WELL NO. RPT 5-2  
STATE PLANE COORDINATES  
NORTH ZONE (NAD'83)  
N. 352,754.2  
E. 1,607,317.0  
LAT=(N) 39.461438  
LONG=(W) 80.779310  
UTM (NAD'83)(METERS)  
N. 4,368,008.2  
E. 518,985.2

## REFERENCES



## NOTES ON SURVEY

1. TIES TO WELLS, CORNERS & REFERENCES ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD '83.
2. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 60 PAGE 577.
3. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF TYLER COUNTY IN JULY, 2012.
4. WELL LAT./LONG. (NAD'83) ESTABLISHED BY DGPS (SURVEY GRADE).



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 REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.

P.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE JANUARY 03, 20 13  
OPERATORS WELL NO. RPT 5-2  
API WELL NO. 47 - 95 - 2097 H6A  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7872P5-2R (389-35)  
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE) SCALE 1" = 1000'

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

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION 1278'(GROUND) 1258'(PROPOSED) WATERSHED BIG RUN  
DISTRICT McELROY COUNTY TYLER QUADRANGLE SHIRLEY 7.5'  
SURFACE OWNER ROGER C. & BETTY J. FERRELL ACREAGE 73±  
ROYALTY OWNER GARY S. NICHOLS (141.50 AC.±), MICHAEL SHERWOOD (156.25 AC.±), OPA MORSE (78.69 AC.±), DEAN R. BAKER ET AL (47.25 AC.±), DARVIN W. COLE (0.99 AC.±), DORIS L. GATRELL, ET AL (14.62 AC.±), DRILLING APPALACHIN CORP. (32 AC.±), RICHARD L. WARNER (107.63 AC.±)  
PROPOSED WORK: LEASE NO. RPT 5, RPT 7, RPT 6, T3103, T3100A1, T3101, W704A, T3098A  
DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER   
PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS  
ESTIMATED DEPTH 7500'

WELL OPERATOR JAY BEE OIL & GAS, INC. DESIGNATED AGENT RANDY BRODA  
ADDRESS 1720 RT. 22 EAST UNION, NJ 07083 ADDRESS RT. 1 BOX 5 CAIRO, WV 26337

07/12/2013

COUNTY NAME PERMIT