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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)

January 21, 2015

**WELL WORK PERMIT**

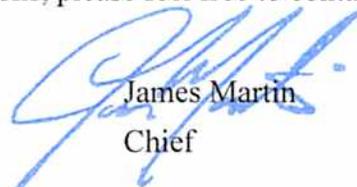
**Fracture**

This permit, API Well Number: 47-2105591, issued to EQT PRODUCTION COMPANY, 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: W. G. BENNETT 511389  
Farm Name: COASTAL LUMBER COMPANY  
**API Well Number: 47-2105591**  
**Permit Type: Fracture**  
Date Issued: 01/21/2015

**Promoting a healthy environment.**

## PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

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### CONDITIONS

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1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
5. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours.
7. Well work activities shall not constitute a hazard to the safety of persons.
8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.
9. Gilmer County inspector must be notified twenty-four (24) hours before beginning well work.

WW - 2B  
(Rev. 8/10)

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

1) Well Operator: EQT Production Company      306686      21      2      634  
Operator ID      County      District      Quadrangle

2) Operator's Well Number: W.G. Bennett 511389      3) Elevation: 1122

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

5) Proposed Target Formation(s): Marcellus      Proposed Target Depth: 6295  
6) Proposed Total Depth: 6295 Feet      Formation at Proposed Total Depth: Marcellus  
7) Approximate fresh water strata depths: none reported  
8) Approximate salt water depths: none reported

9) Approximate coal seam depths: None reported

10) Approximate void depths,(coal, Karst, other): n/a

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

12) Describe proposed well work and fracturing methods in detail (attach additional sheets if needed)  
Enter existing well to perform injection and falloff test (see attached procedure) WILL PERFORATE FROM 6284 - 6286 2 FOOT INTERVAL 4 SHOTS/FT (8 HITS)

CK # 8766  
650.00

13) **CASING AND TUBING PROGRAM**

TYPE	SPECIFICATIONS			FOOTAGE INTERVALS		CEMENT
	Size	Grade	Weight per ft	For Drilling	Left in Well	Fill -up (Cu. Ft.)
Conductor	13 3/8	J-55	54.5		48	n/a
Fresh Water	9 5/8	LS	40		826	336
Coal						
Intermediate	7	J-55	20		2236	141
Production	4 1/2	M-65	10.5		6305	116.85
Tubing	2 3/8	J-55	4.6			
Liners						

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Packers: Kind: n/a  
Sizes: n/a  
Depths Set n/a

## INJECTION FALL OFF TEST

Well No: 511389  
State: West Virginia  
County: Gilmer  
Service Companies: Nabors  
TD: 6,305'

Well Status: Drilling complete. Waiting for CBL and DFIT

Objective: Perform injection and falloff test

### **PROCEDURE**

**Peak Trigger Toe Sub Activation - Notify Chuck McCartney by email (McCartneyC@eqt.com) 24 hrs prior to casing pressure test.**

1. MIRU pump truck and associated equipment covers any tanks and FB iron required for this test.
2. Pressure test iron to 10,000 psi against master valve requires a 10K valve to accomplish.
3. Open all 3 B-section valves.
4. Open and monitor 4 ½ in x 9 5/8 in annulus during the job.
5. Water should be treated with biocide and scale inhibitor.
6. Pressure test 4.5 in casing to 5000psi and hold for 20min.
7. Note any pressure leakoff. Record pressure test.
8. Start pumping injection test at 0.5 bpm to achieve entry. Establish maximum rate of 5 bpm as quickly as possible (2 bbls or less)
9. Once entry is achieved establish designed maximum rate of 5bpm as quickly as possible.
10. Pump a total volume of 15 bbls treated water at maximum rate - 5bpm
11. Hard shut down and record initial 5, 10, and 15min SIPs. DO NOT BLEED OFF ANY PRESSURE FROM WELL and ensure the valve to gauge is left open.
12. Shut both double sided wing valves only. Record turns. Do not close single side wing valve.
13. Shut down and disconnect service company computer job monitor.
14. RDMO pumping company, leaving valve to the pressure recorder open and secure.
15. If weather is too cold, wrap well with blanket and provide heater for duration of the test.
16. Monitor pressure fall-off with pressure recorder for at least 30 days.
17. Email the final report that includes job information, pressure and rate graph for pressure test and pump in/fall off test, as well as digital data to the following people:  
Sam Weiman: sweiman@eqt.com  
Praveen BurkaNarayana: [PBurkaNarayana@eqt.com](mailto:PBurkaNarayana@eqt.com)

Melinda Rehl: [mrehl@eqt.com](mailto:mrehl@eqt.com)

**CEMENT INFORMATION**

**9 5/8" 36#/ft Cement Info (826')**: Pump 10bbls water,30bbls gel,10bbls water cleared csg.Mixed 240sks NE Surf 204 at 14.7ppg at 1.4cf/sk.Circ 14bbls cement to surface.

**7" 17#/ft Cement Info (2,236')**: Pump 57bbls water + 30bbls gel + 5bbls clear csg.Mix 210sks 50/50 Pozmix 13.7ppg 1.36cf/sk and tail end with 100sks NE Surf 14.7ppg at 1.41cf/sk.Plug down at 10:06pm.Diff psi 775psi.Circulated 14bbls cement to surface

**4 1/2" 11.6#/ft Cement Info (6,305')**: Pump 150 bbl KCL water, wouldn't wash down/RU to cement csng/pump 5 bbl water spacer/20 bbl gel 6%/5bbl water spacer/21 bbl standard cement/washe lines up/trip plug/displace 101.4 bbl KCL, plug down 17:20/900 lbs psi/pump up to 1700 lbs psi/hold for 5 min/release pressure/floats held/RD Halliburton/set WH slips and tree/tested to 4000 lbs psi for 10 min-OK/start RD/95 sacks STD/1.5% halad322/ 2%Cal seal/ 10% salt/water req 5.21/yield 1.23, lbs gal 15.80

**CASING/WELLHEAD SPECIFICATIONS**

Max Wellhead Pressure = 10,000 psi

4.5" 11.6#/ft HCP110

Internal Yield Pressure = 10,690 psi

**DIRECTIONS TO WELL**

511389

Gilmer, Co. WV

TAN15

**Well Numbers: 511389**

**Coordinates: LAT: N 38° 54' 46.895"**

**LONG: W 80° 59' 37.966"**

**CONTACT INFORMATION**

EQT

Onsite:

Office:

Bill Weser – 412-407-0515

James Abbott – 724-579-8949

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## CBL Procedure

RUN CBL	
1	MIRU wellhead company and ND blind flange. Confirm with on-call manager the type of valve to be installed, if required.
2	MI wireline truck, crane, and all necessary equipment
3	Meet with company representative/Perform JSA
4	RU crane, wireline and lubricator (if necessary)
5	RU tool string consisting of GR/CCL/CBL
6	Record equipment lengths and dimensions before RIH. Identify lift sequence
7	PU tools. All tool joints checked and tightened
8	Pressure test if applicable
9	Zero tool string at ground level, add KB to depth.
10	RIH with tool string at a maximum speed of 250 ft/min.
11	CBL to be calibrated in free pipe section of well.
12	Drop (at a maximum speed of 250 ft/min) to TD and pull 300 ft repeat section (logging up at a speed of 3600 ft/hr) When tool slacks off, make note of slack line weight and pick up weight
13	Drop (at a maximum speed of 250 ft/min) to TD and pull main pass to 500 ft above TOC, and a marker joint is recorded on the log to confirm depth (logging up at a speed of 3600 ft/hr)
14	Note the following information in the comments section on the header (See example below): a. CBL correlated to Well# - Pad Name - Logging Co's Log Header Name dated xx/xx/xx b. Depth shifted XXft after correlation c. Marker joints recorded at: d. Set down weight: e. Pick up weight: f. Bottom logged depth:
15	POOH with tool string.
Shoot Perforations	
1.	MIRU wireline.
2.	Place one cluster worth of perforations (60° phased, 2 ft guns, 4 spf) at 6,284'
3.	Record CCL on way out of hole.



**State of West Virginia  
Division of Environmental Protection  
Section of Oil and Gas  
Well Operator's Report of Well Work**

API # 4702103891

21-05591F

Farm Name Coastal Lumber Co. Well Number 511389  
 Location Elevation 1,122 Quadrangle TANNER  
 District Dekalb County Gilmer, WV  
 Latitude 1400 FSL 38.00 55.00 0.00  
 Longitude 10120 FWL 80.00 57.00 30.00

Company	EQT Production Company 1710 Pennsylvania Avenue Charleston, WV 25328	Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cubic Ft
Agent	Cecil Ray	13 3/8	48	48	
Inspector	David Gilbert	9 5/8	826	826	336.00
Permit Issued	06/27/2008	7	2,236	2,236	141.00
Well Work Commenced	12/16/2008	4 1/2	8,305	6,305	115.85

Well Work Completed *Well is not completed*

Verbal Plugging Permission granted or \_\_\_\_\_  
 Rotary Rig  Cable Rig \_\_\_\_\_

Total Depth 6,295

**Water Encountered**

Type From

**Coal & Open Mines**

Type From

**Open Flow Data**  
 Producing Formation Pay Zone Depth (ft): See attached for details

Gas: Initial Open Flow 0 MCF Date Oil: Initial Open Flow Bbl/d  
 Final Open Flow 0 MCF Date Final Open Flow  
 Time of open flow between initial and final tests 0 hours  
 Static Rock Pressure 0 after 0 hours

Second Producing Formation Pay Zone Depth (ft)  
 Gas: Initial Open Flow MCF Date Oil: Initial Open Flow Bbl/d  
 Final Open Flow MCF Date Final Open Flow  
 Time of open flow between initial and final tests hours  
 Static Rock Pressure after hours

NOTE: On back of this form put the following  
 1) Details of Perforated intervals, fracturing or stimulating, physical change, etc.  
 2) The well log, a systematic detailed geological record of all formations including coal encountered in the well bore

For Equitable Production Company  
 By *Huko Burt*  
 Date *1-12-2010*

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 Environmental Protection

21-05391F

Well Number 511389

EQT Company  
WR-35 Completion Report - Attachment  
Well Treatment Summary

API # 4702105591

Date
Frac Typ
Zone
# of Perfs
From/To
BD Press
ATP Pst
Avg Rate
Max Press Pst
USIP Pst
10min SIP
Free Gradient
Sand Proppant
Water-bbl
SCF N2
Acid-gal

Well has not been completed

Formation Name	Depth To	Depth Bottom	Formation Thick
ROSEDALE SALT SA	1.733.00	1.992	259.00
BIG LIME	1.992.00	2.095	103.00
BIG INJUN	2.095.00	2.142	47.00
WEIR	2.308.00	2.416	108.00
GANTZ	2.448.00	2.535	87.00
GORDON	2.704.00	2.785	81.00
FIFTH SAND	2.944.00	2.970	46.00
WARREN	3.375.00	3.438	63.00
SPEECHLEY	3.438.00	3.908	470.00
BALLTOWN	3.908.00	4.450	542.00
RILEY	4.450.00	4.773	323.00
BENSON	4.773.00	4.816	43.00
ALEXANDER	5.060.00	5.056	56.00
ELK 2	5.216.00	5.407	191.00
ELK 3	5.407.00	5.644	237.00
ELK 4	5.644.00	6.154	510.00
GENESSE	6.154.00	6.225	71.00
GENESIO	6.225.00	6.254	29.00
TULLY	6.254.00	6.255	5.00
MARCELLUS	6.259.00	6.304	45.00
ONONDAGA	6.304.00	0	0.00

Gas Tests	
Depth	Remarks
3.935	No Show
4.200	No Show
4.450	No Show
5.050	No Show

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State of West Virginia  
Department of Environmental Protection - Office of Oil and Gas  
Discharge Monitoring Report  
Oil and Gas General Permit



MAILED  
9-17-09

Company Name: EQT  
API: 47-021-05591 County: Gilmer  
District: Weston Well No: 511389  
Farm Name: Coastal Lumber Company  
Discharge Dates/s From:(MMDDYY) 2/24/09 TO: (MMDDYY) 2/25/09  
Discharge Times : From \_\_\_\_\_ TO: \_\_\_\_\_

Total Volume to be Disposed from this facility (gallons): \_\_\_\_\_

Disposal Option(s) Utilized (write volumes in gallons):

UIC (2): \_\_\_\_\_ Permit No. \_\_\_\_\_  
Centralized Facility(5): \_\_\_\_\_ Permit No. \_\_\_\_\_  
Reuse (4): \_\_\_\_\_ Alternate Permit Number: \_\_\_\_\_  
Offsite Disposal(3): \_\_\_\_\_ Site Location: Energy Contractors Yard  
Land Application(1): \_\_\_\_\_ (Include a topographical map of the Area.)  
Other method(6): \_\_\_\_\_ (Include an explanation)

Follow instructions below to determine your treatment category.

Optional Pretreatment test: \_\_\_\_\_ Cl- mg/l \_\_\_\_\_ DO mg/l

1. Do you have permission to use expedited treatment from the Director or his representative?  
(Y/N) \_\_\_\_\_ If yes, who? \_\_\_\_\_ and place a four (4) on line 7.  
If not go to line 2
2. Was Frac Fluid or flowback put into the pit? (Y/N) \_\_\_\_\_ If yes, go to line 5. If not, go to line 3.
3. Do you have a chloride value pretreatment (see above)? (Y/N) \_\_\_\_\_ If yes, go to line 4  
If not, go to line 5.
4. Is the Chloride level less than 5000 mg/l? (Y/N) \_\_\_\_\_ If yes, then enter a one (1) on line 7.
5. Do you have a pretreatment value for DO? (See above) (Y/N) \_\_\_\_\_ If yes, go to line 6  
If not, enter a three (3) in line 7.
6. Is the DO level greater than 2.5 mg/l? (Y/N) \_\_\_\_\_ If yes, enter a two (2) on line 7. If not, enter a three (3) on line 7.
- 7 \_\_\_\_\_ is the category of your pit. Use the Appropriate section.

Name of Principal Exec. Officer: Rex C. Ray  
Title of Officer: Attorney in Fact  
Date Completed: 9/14/09

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the 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.

Signature of a Principal Exec. Officer or Authorized agent.

Rex C. Ray  
Signature

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SEP 22 2009

Category 1  
 Sampling Results  
 API NO :

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	5	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl	5,000	_____	5,000	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

\*\*\* Al is only reported if the pH is above 9.0

Category 2  
 Sampling Results  
 API NO :

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	10	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

\* Can be 25,000 with inspectors approval,

(Inspector): \_\_\_\_\_

Date: \_\_\_\_\_

\*\* Include a description of your aeration technique.

\*\*\* Al is only reported if the pH is above 9.0

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WV Department of  
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WR-34

Category 3  
 Sampling Results  
 API NO :

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	20	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	0.5	_____	0.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Disposal Area		_____	Monitor	_____	Acres

\* Can be 25,000 with inspectors approval,

(Inspector): \_\_\_\_\_ Date: \_\_\_\_\_

\*\* Include a description of your aeration technique.

\*\*\* Al is only reported if the pH is above 9.0.

Category 4  
 Sampling Results  
 API NO :

Parameter	Predischarge		Discharge		Units
	Limits	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	1	_____	N/A	N/A	Days
Fe	Monitor	_____	Monitor	_____	mg/l
D.O.	Monitor	_____	Monitor	_____	mg/l
Settleable Sol.	Monitor	_____	Monitor	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	Obs.
TOC**		_____	Monitor	_____	mg/l
Oil and Grease		_____	Monitor	_____	mg/l
Total Al***		_____	Monitor	_____	mg/l
TSS		_____	Monitor	_____	mg/l
Total Mn	Monitor	_____	Monitor	_____	mg/l
Volume		_____	Monitor	_____	Gal
Flow		_____	Monitor	_____	Gal/min
Activated Carbon 0.175		_____	N/A	N/A	lb/Bt
Date Site Reclaimed	N/A	N/A			10 days from dis.
Disposal Area		_____	Monitor	_____	Acres

\* Can be 25,000 with inspector's approval,

(Inspector): \_\_\_\_\_ Date: \_\_\_\_\_

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WW-2A  
(Rev. 6-14)

1.) Date: 11/26/14  
2.) Operator's Well Number W.G. Bennett 511386  
State 47 County 021 Permit 05591-F  
3.) API Well No.: 47- 021 - 05591-F

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

4) Surface Owner(s) to be served:  
(a) Name Coastal Lumber Company  
Address DBA Coastal Forest Resources Co.  
P.O. Box 709, Buckhannon, WV 26201  
(b) Name Sull A. McCartnev Jr.  
Address 131 North Second Street  
Oakland, MD 21550  
(c) Name Donald P. McCartnev  
Address 9055 Russett Rd.  
Normantown, WV 25267  
6) Inspector Bryan Harris  
Address P.O. Box 157  
Volga, WV 26238  
Telephone 304-553-6087  
5) (a) Coal Operator  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Coastal Lumber Company  
Address DBA Coastal Forest Resources Co.  
P.O. Box 709, Buckhannon, WV 26201  
(c) Coal Lessee with Declaration  
Name \_\_\_\_\_  
Address \_\_\_\_\_

**TO THE PERSONS NAMED ABOVE TAKE NOTICE THAT:**

OR Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas

Included is the information required by Chapter 22, Article 6, Section 8(d) of the Code of West Virginia (see page 2)

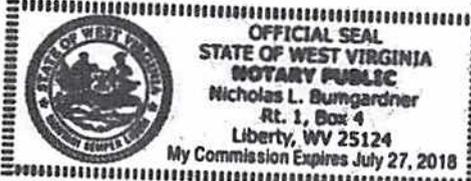
I certify that as required under Chapter 22-6 of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through \_\_\_ on the above named parties by:

- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22-6 and 35 CSR 4, and I agree to the terms and conditions of any permit issued under this application.

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, 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 EQT Production Company  
By: Victoria J. Roark  
Its: Permitting Supervisor  
Address: 115 Professional Place  
Bridgetown, WV 26330  
Telephone: 304-848-0076  
Email: vroark@eat.com

Subscribed and sworn before me this 1 day of DECEMBER, 2014

Notary Public

My Commission Expires 7/27/2018

Oil and Gas Privacy Notice

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

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## Additional Access Road Owners:

- ✓ Sull A. McCartney Jr.  
131 North Second Street  
Oakland, MD 21550
- ✓ Donald P. McCartney  
9055 Russett Rd.  
Normantown, WV 25267
- ✓ Coastal Lumber Company  
DBA Coastal Forest Resources Co.  
P.O. Box 709  
Buckhannon, WV 26201
- ✓ Bernice J. Tallhamer  
13163 West Virginia Hwy 5 W  
Grantsville, WV 26147
- ✓ WV DNR Public Land  
Attn: Joe Scarberry  
1900 Kanawha Blvd E.  
Capitol Complex Bldg 3, Rm 643  
Charleston, WV 25305
- ✓ Adam Moomau  
4411 Reno Rd NW  
Washington, DC 20008
- ✓ Patrick S. Roberts  
5264 Herold Rd.  
Sutton, WV 26601
- ✓ Gordon R. Short et al  
C/O Joey L. Wilson  
P.O. Box 93  
Mount Carbon, WV 25139

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Total Postage Coastal Lumber Company  
 Sent To DBA Coastal Forest Resources Co.  
 P. O. Box 709  
 Buckhannon, WV 26147

PS Form 3800, July 2014 See Reverse for Instructions



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Total Postage  
 Sent To Sull A. McCartney, Jr.  
 131 North Second Street  
 Oakland, MD 21550

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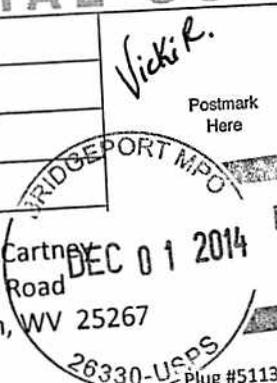
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Total Postage Donald P. McCartney  
 Sent To 9055 Russett Road  
 Normantown, WV 25267

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Restricted Delivery Fee (Endorsement Required)		

Total Postage  
 Sent To Bernice J. Tallhamer  
 13163 West Virginia Hwy 5W  
 Grantsville, WV 26147

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Restricted Delivery Fee (Endorsement Required)		

Total Postage WV DNR Public Land  
 Sent To Attn: Joe Scarberry  
 1900 Kanawha Blvd., East  
 Capitol Complex Bldg. 3, Room 643  
 Charleston, WV 25305

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Postage	\$	
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Restricted Delivery Fee (Endorsement Required)		

Total Postage Adam Moomau  
 Sent To 4411 Reno Road NW  
 Washington, DC 20008

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Total F Patrick S. Roberts

Sent To 5264 Herold Road  
 Sutton, WV 26601

Street & Apt. 1  
 or PO Box No  
 City, State, Zi

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26330-USPS

Plug #511389

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Restricted Delivery Fee (Endorsement Required)	

Total Postage Gordon R. Short, et al.

Sent To c/o Joey L. Wilson  
 P. O. Box 93  
 Mount Carbon, WV 25139

Street & Apt. 1  
 or PO Box No  
 City, State, Zi

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**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6, Section 8(d)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

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

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

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
W.G. Bennett et al	Hope Natural Gas Company	min pd 1/8	79/286
Hope Natural Gas Company	Consolidated Gas Supply Co.		229/286
Consolidated Gas Supply Company	Consolidated Gas Transmission Corp.		342/630
Consolidated Gas Transmission Corp.	WACO Oil & Gas Company		399/593
WACO Oil & Gas Company	Ashland, Inc.		409/144
Ashland, Inc.	Ashland Exploration Holdings		412/698
Ashland Exploration Holdings	Blazer Energy Corporation		422/266
Blazer Energy Corporation	EQT Production Company		489/293

**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

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

Well Operator:  
By: Its:

  
 \_\_\_\_\_  
 EQT Production Company  
 \_\_\_\_\_  
 Permitting Supervisor

2105591F

WW-9  
(5/13)

Page \_\_\_\_\_ of \_\_\_\_\_  
API Number 47 - 021 - 05591-F  
Operator's Well No. W.G.Bennett 511389

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name EQT Production Company OP Code 306686

Watershed (HUC 10) Tributary of Little Kanawha River Quadrangle Tanner

Elevation 1122 County Gilmer District Dekalb

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

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

If so, please describe anticipated pit waste: n/a

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

Proposed Disposal Method For Treated Pit Wastes:

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

ANY WELL EFFLUENT MUST  
BE CONTAINED & DISPOSED  
OF PROPERLY.

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Will closed loop system be used? Not drilling

Drilling medium anticipated for this well? Air, freshwater, oil based, etc. not drilling

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

Additives to be used in drilling medium? not drilling

WV Department of  
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Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. not drilling

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

-Landfill or offsite name/permit number? \_\_\_\_\_

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.

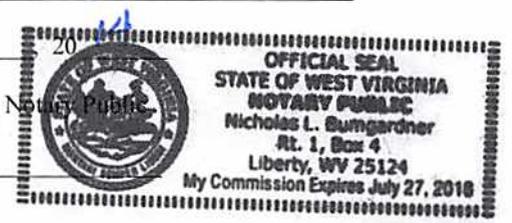
Company Official Signature *Victoria J. Roark*

Company Official (Typed Name) Victoria J. Roark

Company Official Title Permitting Supervisor

Subscribed and sworn before me this 1 day of DECEMBER

My commission expires 7/27/2018



Form WW-9

Operator's Well No. W.G. Bennett 511389

Proposed Revegetation Treatment: Acres Disturbed 4.6 Prevegetation pH 6.2

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 2 Tons/acre

Seed Mixtures

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

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: \_\_\_\_\_

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

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Field Reviewed? ( ) Yes ( ) No

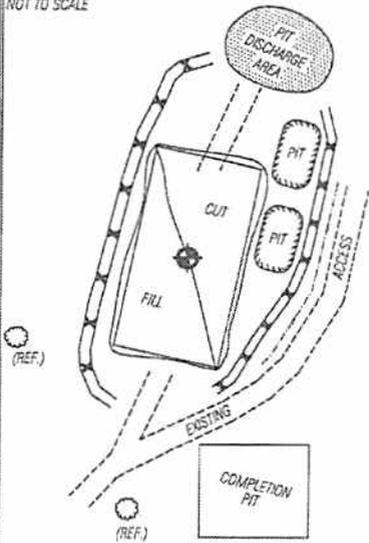
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**W.G. BENNETT, ET AL LEASE  
WELL NO. WV 511389**

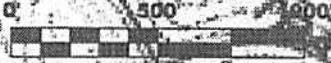


Detail Sketch for Proposed Well WV 511389

NOT TO SCALE



SCALE: 1" = 500'



**TOPO SECTION OF USGS  
TANNER 7.5' QUADRANGLE**

**PROPOSED CULVERT INVENTORY  
(FOR BID PURPOSES ONLY)**

<b>12" (MINIMUM) CULVERTS</b>	<b>1 CUL.</b>
-------------------------------	---------------

ADDITIONAL CULVERTS AND/OR OTHER DRAINAGE STRUCTURES & SEDIMENT CONTROL DEVICES MAY BE REQUIRED BY THE WV D.E.P. OIL & GAS INSPECTOR. OPERATOR IS RESPONSIBLE FOR COORDINATION WITH CONTRACTOR AND SLS REGARDING ANY CHANGES OR ADDITIONS THE STATE MAY REQUIRE.

**Projected Earthen Disturbance Area**

Well Location Site	5.00 ac. +/-
Access Road	6.30 ac. +/-
Approximate Total Disturbance	11.30 ac. +/-

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 ENTRIES AT COUNTY/STATE ROADS SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.O.T. REGULATIONS. SEPARATE PERMITS MAY BE REQUIRED BY THE D.O.T.

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

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

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

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

- EXISTING CULVERT
- PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED
- PROPOSED STREAM CROSSING (IF APPLIES) \*SEE TABLE FOR CULVERT DETAIL
- APPLY ROCKSTONE TO EXISTING DIP (AS NEEDED)

**SLS**  
SMITH LAND SURVEYING, INC.  
P.O. BOX 150 GLENVILLE, WV, 26351  
PH: (304) 462-5634 FAX: (304) 462-5656 E-MAIL: nls@rtol.net

DRAWN BY D.L.P.	FILE NO. 6756	DATE 07/28/08	CADD FILE: 6756PECWP0511389L.DWG
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# W.G. BENNETT, ET AL LEASE WELL NO. WW 511389



SCALE: 1" = 500'

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.

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

- ⊖ - EXISTING CULVERT
  - ⊕ - PROPOSED CULVERT 12" MAX UNLESS OTHERWISE NOTED
  - ⊗ - PROPOSED STREAM CROSSING (IF APPLIES)
  - ⊠ - APPLY ROCK/STONE TO EXISTING DIP (AS NEEDED)
- \*SEE TABLE FOR CULVERT DETAIL

### TOPO SECTION OF USGS TANNER 7.5' QUADRANGLE

### PROPOSED CULVERT INVENTORY (FOR BID PURPOSES ONLY)

12" (MINIMUM) CULVERTS	3 CUL.
------------------------	--------

ADDITIONAL CULVERTS AND/OR OTHER GRADABLE STRUCTURES & SEDIMENT CONTROL DEVICES MAY BE REQUIRED BY THE WV D.E.P. OIL & GAS INSPECTOR. OPERATOR IS RESPONSIBLE FOR COORDINATION WITH CONTRACTOR AND SLS REGARDING ANY CHANGES OR ADDITIONS THE STATE MAY REQUIRE.

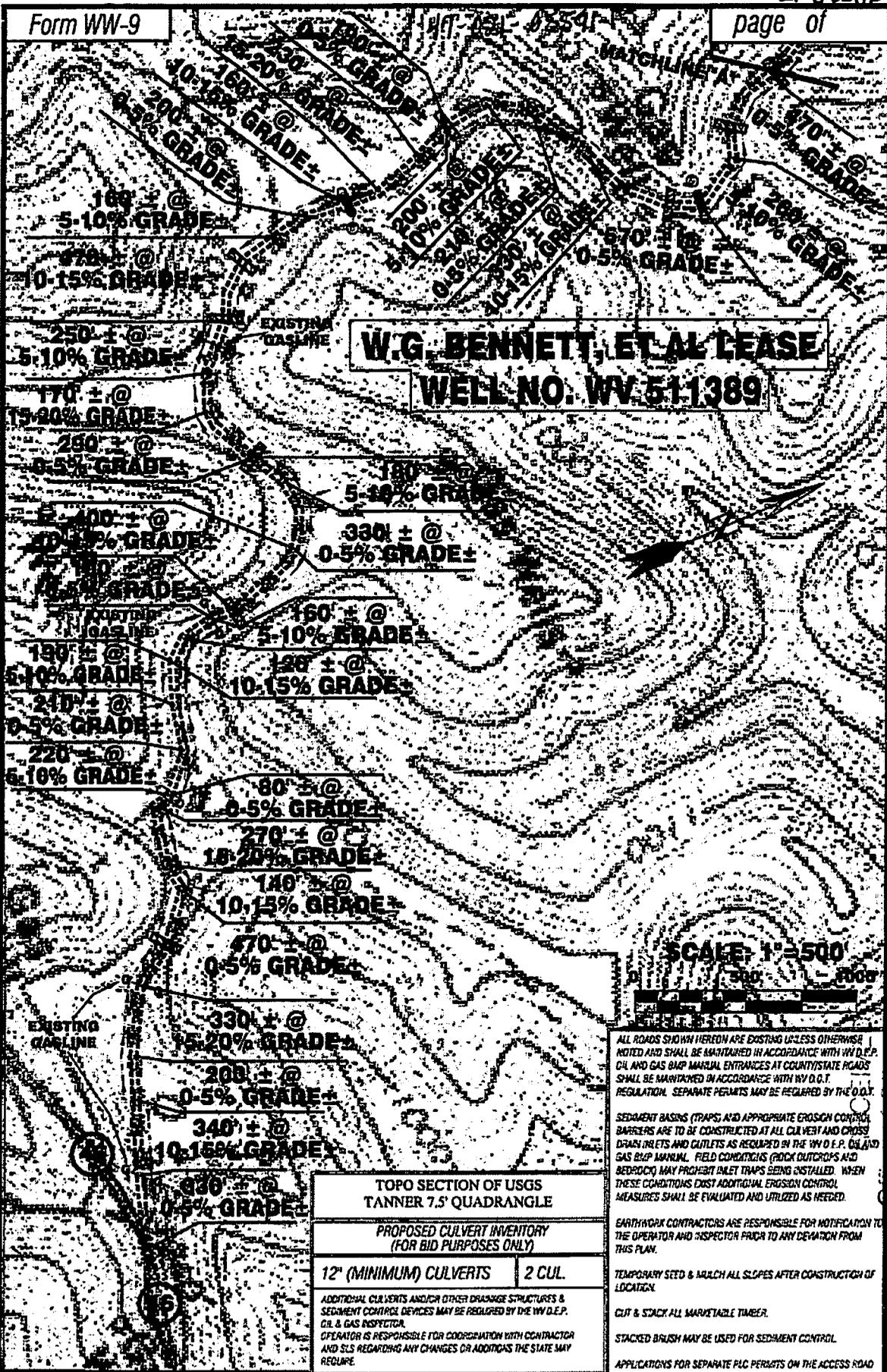
### Projected Earthen Disturbance Area

Well Location Site	5.00 ac. +/-
Access Road	6.30 ac. +/-
Approximate Total Disturbance	11.30 ac. +/-

**SLS**  
SMITH LAND SURVEYING, INC.  
P.O. BOX 150 GLENVILLE, WV, 26351  
PH: (304)482-5834 FAX: (304)482-5856 E-MAIL: sls@rtal.net

DRAWN BY: O.L.P. FILE NO. 6756 DATE 07/28/08 CADD FILE: 47502020011389L000

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**W.G. BENNETT, ET AL LEASE**  
**WELL NO. WV 511389**

SCALE: 1"=500'

ALL ROADS SHOWN HEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE WITH WV D.E.P. OIL AND GAS BUMP 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.

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CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

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

- EXISTING CULVERT
- PROPOSED CULVERT 12" MIN. UNLESS OTHERWISE NOTED
- PROPOSED STREAM CROSSING (IF APPLICABLE) \*SEE TABLE FOR CULVERT DETAIL
- APPLY ROCKSTONE TO EXISTING DIP (AS NEEDED)

**TOPO SECTION OF USGS TANNER 7.5' QUADRANGLE**

**PROPOSED CULVERT INVENTORY (FOR BID PURPOSES ONLY)**

<b>12" (MINIMUM) CULVERTS</b>	<b>2 CUL.</b>
-------------------------------	---------------

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Approximate Total Disturbance	11.30 ac. +/-

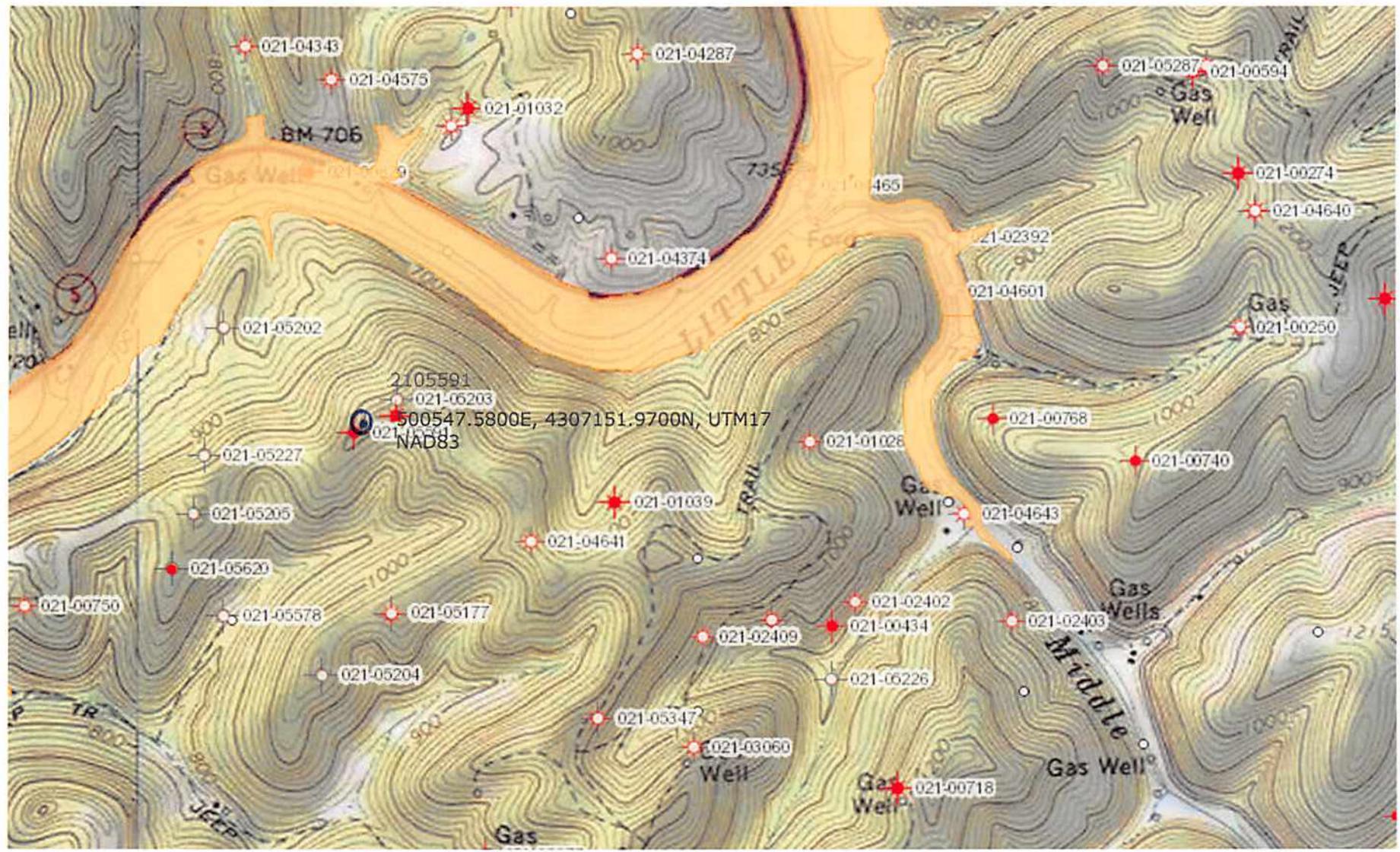
**SLS**  
**SMITH LAND SURVEYING, INC.**  
 P.O. BOX 150 GLENVILLE, WV 26351  
 PH: (304) 462-5634 FAX: (304) 462-5656 E-MAIL: sls@sls.net  
 DRAWN BY: D.L.P. FILE NO: 6756 DATE: 07/28/08 CADD FILE: 072808WV11389.DWG

Office of Oil and Gas

1-1-09

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WELL NO. WV 511389  
STATE PLANE COORDINATES  
(SOUTH ZONE)

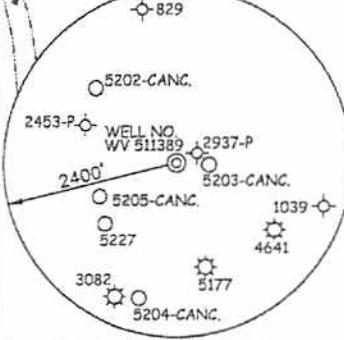
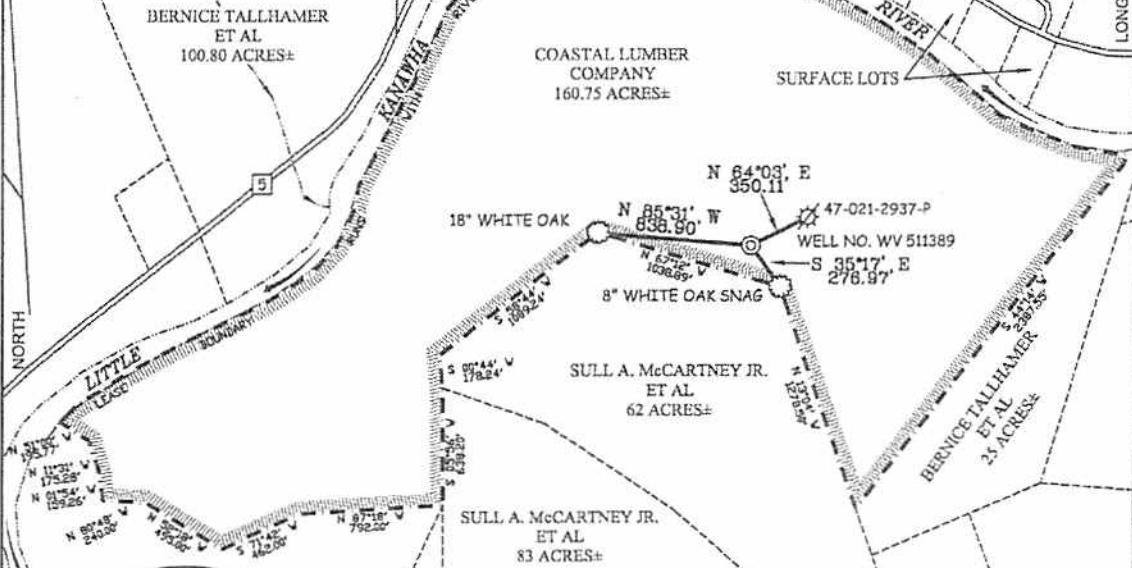
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LONG=(W) 80.99390

# W. G. BENNETT, ET AL LEASE

## 1,076 ACRES±

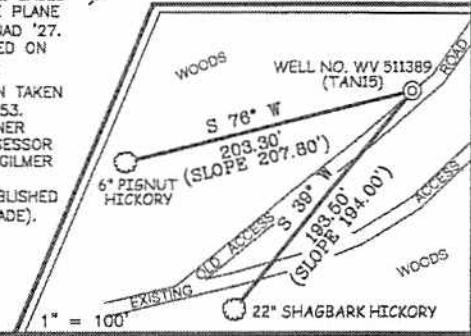
### WELL NO. WV 511389



#### NOTES ON SURVEY

1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 03/21/08.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 271 PAGE 153.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF GILMER COUNTY IN JANUARY, 2008.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

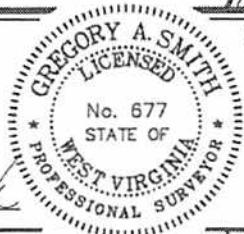
#### REFERENCES



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 MAY 22, 20 08  
OPERATORS WELL NO. WV 511389  
API WELL NO. 47-021-05591-F  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 6756P511389 (255-37)  
PROVEN SOURCE OF ELEVATION DGFS (SUBMETER MAPPING GRADE) SCALE 1" = 800'

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

WELL TYPE: OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  IF "GAS" PRODUCTION  STORAGE  DEEP  SHALLOW   
LOCATION: ELEVATION 1,122' WATERSHED TRIBUTARY OF LITTLE KANAWHA RIVER  
DISTRICT DEKALB COUNTY GILMER QUADRANGLE TANNER 7.5'  
SURFACE OWNER COASTAL LUMBER COMPANY ACREAGE 160.75±  
ROYALTY OWNER HUNTER M. BENNETT, ET AL LEASE ACREAGE 1076±  
PROPOSED WORK: LEASE NO. 091283  
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 \_\_\_\_\_ ESTIMATED DEPTH \_\_\_\_\_

WELL OPERATOR EQUITABLE PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY  
ADDRESS 1710 PENNSYLVANIA AVENUE ADDRESS 1710 PENNSYLVANIA AVENUE  
CHARLESTON, WV 25302 CHARLESTON, WV 25302

UTM 17  
NAD 83  
430751.97 N  
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