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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

January 17, 2014

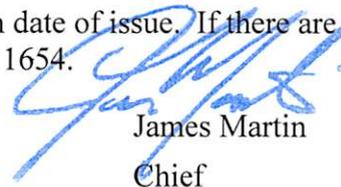
**WELL WORK PLUGGING PERMIT**

**Plugging**

This permit, API Well Number: 47-4701441, 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin  
Chief

Operator's Well No: WV 508888 (WVC 4538)  
Farm Name: GREENWELL, JESSIE R. & TINA  
**API Well Number: 47-4701441**  
**Permit Type: Plugging**  
Date Issued: 01/17/2014

**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.

### CONDITIONS

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1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
2. 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.
3. Well work activities shall not constitute a hazard to the safety of persons.

4701441P

Form WW-4 (B)  
Permit Copy  
(Rev 2/01)

Date: Dec. 16, 2013  
Operator's Well \_\_\_\_\_  
Well No. 508888 WV C4538  
API Well No.: 47 047 - 01441

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

CK 17 237  
100<sup>00</sup>

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil \_\_\_\_\_ Gas X Liquid Injection \_\_\_\_\_ Waste Disposal: \_\_\_\_\_  
If Gas, Production X Or Underground storage \_\_\_\_\_ Deep \_\_\_\_\_ Shallow X

5) Elevation: 1632 Watershed: Groundhog Branch  
Location: Sandy River 06 County: McDowell 47 Quadrangle: Bradshaw 7.5' 261  
District: \_\_\_\_\_

6) Well Operator EQT Production Company 7) Designated Agent: Rex C. Ray  
Address: 120 Professional Place Address: 120 Professional Place  
Bridgeport, WV 26330 Bridgeport, WV 26330

8) Oil & Gas Gary Kennedy 9) Plugging Contractor:  
Name: P.O.Box 268 Name: HydroCarbon Well Service  
Address: Nimitz, WV 25678 Address: PO BOX 995  
Buckhannon, WV 26201

10) Work Order: The work order for the manner of plugging this well is as follows:  
**See Attachment for details and procedures.**

OFFICE USE ONLY

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

Work order approved by inspector

Gary Kennedy

Date 12/27/13

PLUGGING PROGNOSIS

508888

McDowell COUNTY, WEST VIRGINIA  
API # 47-047-01441

BY: Beau Fry  
DATE: 12/4/13

CURRENT STATUS:

- 12 3/4" csg @ 20' Grouted
- 9 5/8" csg @ 315' Cemented to surface
- 4 1/2" csg @ 1583' Cemented to surface
- 1 1/2" tubing @ 1464'
- 5/8" rods @ 58 rods plus ponies
- PBTD @ 1505'

Oil Shows - None Reported FW Shows - None Reported Gas shows - None Reported  
Coal shows - 395'

Coal Stimulation: Hole perforated @ 674'-870' Fire creek, Beckley, poca # 8-9, Upper coal seams, 998' - 1357' Lower coal seams on record

1. Notify State Inspector, Gary Kennedy, 1-304-382-~~9800~~<sup>3402</sup> 48 hrs prior to commencing operations.
2. TOOH w/ 5/8" rods.
3. TOOH w/ 1 1/2" tubing and check condition.
4. TIH w/ 1 1/2" tubing to 1450', Set 750' C1A cement plug @ 1450' to 700'. (Lower coal seams Perfs).
5. TOOH w/ tubing let cement cure.
6. TIH w/ tubing check Cement top and set C1A Cement from Cement top to Surface totally filling remainder of well w/ cement (Coal Stimulation zones, ( 9 5/8" csg pt, 12 3/4" csg pt, Upper coal seam perfs).
7. Top off as needed w/
8. Set Monument to VA-DEP Specifications
9. Reclaim Location & Road to VA-DEP Specifications  
w/ DEP

6% Gel plug  
Between cement  
Plugs.

JKK

Georgia Pacific Corp 504538  
WVC 4838

WR-35

API # 47- 047-01441

1273

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

Well Operator's Report of Well Work

Farm Name: Stewart, Clyde & Louise Operator Well No.: WVC-4838

LOCATION: Elevation: 1,833.42 Quadrangle: Bradshaw  
District: Sandy River County: McDowell

Latitude: 13325.7 Feet South of Deg. 37 Minutes 22 Seconds 30  
Longitude: 10253.98 Feet West of Deg. 81 Minutes 47 Seconds 30

Company: EQUITABLE PRODUCTION COMPANY  
P.O. Box 2347, 1710 Pennsylvania Avenue  
Charleston, WV 25328

Agent: Steve Pardee

Inspector: Ofie Helmick  
Permit issued: 5/1/00  
Well work commenced: 02/23/01  
Well work completed: 03/26/01

Verbal Plugging: Permission granted on:

Rotary Rig: X Cable Rig: \_\_\_\_\_

Total Depth: 1619' feet

Fresh water depths (ft): None Reported

Salt water depths (ft): None Reported

Is coal being mined in area? \_\_\_\_\_

Coal Depths (ft): \_\_\_\_\_

Casing & Tubing Size	Used In Drilling	Left In Well	Cement Fill Up Cal. Ft.
12-3/4"	20'	20'	GRYD
9-5/8"	315'	315'	130 FT
4-1/2"	1583'	1683'	297 FT
1-1/2"		1498'	

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OPEN FLOW DATA

Producing formation Lower/Upper Coal Seams Pay Zone Depth (ft): See Attach for details

Gas: Initial open flow 10 Final open flow 37 BBVD

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock pressure 220 psig (surface pressure) after \_\_\_\_\_ Hours

Second producing formation \_\_\_\_\_ Pay Zone Depth (ft): \_\_\_\_\_

Gas: Initial open flow \_\_\_\_\_ MCF/d Oil: Initial open flow \_\_\_\_\_ BBVD

Final open flow \_\_\_\_\_ MCF/d Final open flow \_\_\_\_\_ BBVD

Time of open flow between initial and final tests \_\_\_\_\_ Hours

Static rock pressure \_\_\_\_\_ psig (surface 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 WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

For: BLAZER ENERGY CORPORATION

By: [Signature]  
Date: 4/19/01

BK

Bradshaw 2

4701441P

**EQUITABLE PRODUCTION COMPANY**  
**WR-35 COMPLETION REPORT - Attachment**  
**Well Treatment Summary**

Well: WVC-4538

AP# 47-047-01441

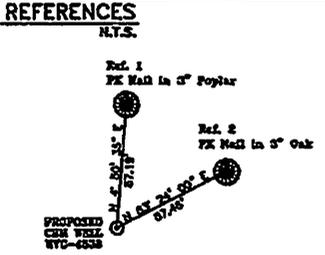
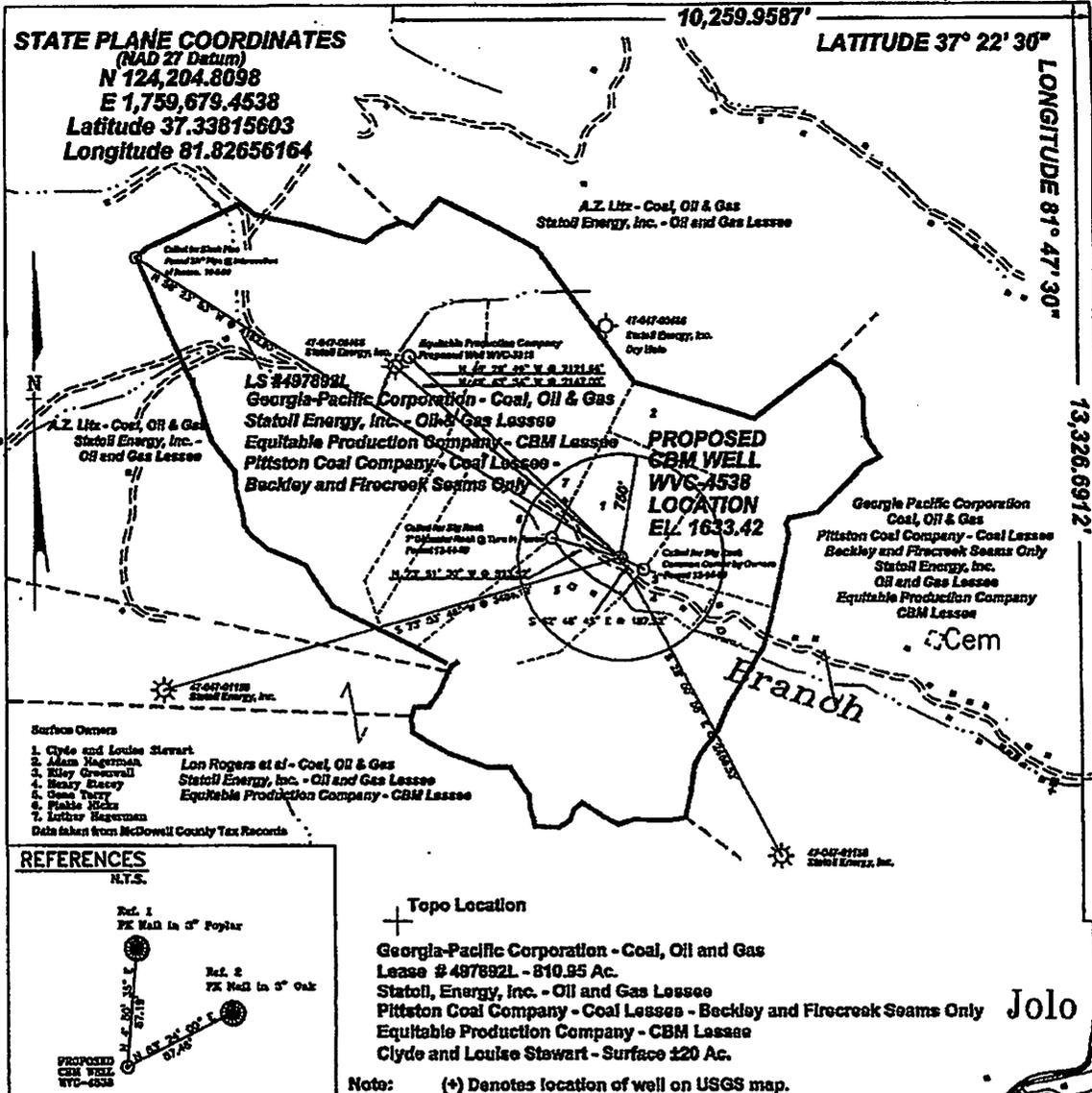
Date	3/14/01	2/21/01			
Type Frac	70 Q Foam	70 Q Foam			
Acid, N <sub>2</sub> , Foam, Water					
Zone Treated	L Coal Seams	U Coal Seams			
# Perfs	15	13			
From - To:	998-1357.5	874.5-870.5			
BD Pressure @ psi	2298	2300			
ATP psi	2562	2550			
Avg. Rate, B=BM, S=SCFM	30 B	45 B			
Max. Treat Press psi	4145	3145			
ISIP psi	1188	1480			
Frac Gradient	1.80	2.34			
10 min S-J Pressure	978	1086			
Material Volume					
Sand-cks	122	125			
Water-bbl	150	436			
SCF N <sub>2</sub>	285,000	628,000			
Acid-gal	715 gal 7-1/2%				
NOTES:					

TOP	BASE	FORMATION	REMARKS*
0	3	Overburden	
3	12	Shale	
12	130	Sand Shale	
130	260	Sandstone	
260	385	Sand Shale	
385	388	Coal	
388	466	Sand Shale	
455	468	Coal	
468	540	Sand Shale	
540	541	Coal	
541	673.5	Sand Shale	
673.5	678	Backlay	
778.5	780.5	Fire Creek	
828.75	828.75	Poca 9	
889.75	871	Poca 8	
937	937.5	Poca 7	
998	998.75	Poca 6	
1035.5	1038.75	Poca 5	
1119.5	1121.5	Poca 4	
1188	1200.5	Poca 3	
1255.5	1260	Poca 2	
1358.75	1358.25	Squire Jim	
1510		Mauch Chunk	
1619		TD	

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GT @ 1619"=18 mdd.

*Handwritten signature*



FILE No. Equitable-99  
 DRAWING NAME WVC-4538\WVC-4538  
 Drawing Number 12-15-99-1SP  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY 1 : 2500  
 PROVEN SOURCE OF ELEVATION Global Positioning System (GPS)

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 DEPARTMENT OF MINES.  
 (SIGNED) W. Claude Banner  
 R.P.E. 2430 R.P.S.



**STATE OF WEST VIRGINIA**  
**DIVISION OF ENVIRONMENTAL PROTECTION**  
**OFFICE OF OIL AND GAS**  
**NITRO, WV**

DATE JANUARY 14 20 00  
 OPERATOR'S WELL No. WVC-4538  
 API WELL No. 47 - 047 - 014410  
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS CBM LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1633.42 WATER SHED GROUNDHOG BRANCH OF BRADSHAW CREEK  
 DISTRICT SANDY RIVER COUNTY McDOWELL  
 QUADRANGLE BRADSHAW, WV - VA

SURFACE OWNER CLYDE AND LOUISE STEWART ACREAGE ± 20.00  
 CBM ROYALTY OWNER GEORGIA-PACIFIC CORPORATION LEASE ACREAGE 810.95

LEASE No. 497892L

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

PLUG AND ABANDON CLEAN OUT AND REPLUG

TARGET FORMATION PENNSYLVANIAN COALS ESTIMATED DEPTH  
 WELL OPERATOR EQUITABLE PRODUCTION COMPANY DESIGNATED AGENT LARRY AYLESTOCK  
 ADDRESS 1989 EAST STONE DRIVE ADDRESS P.O. BOX 4580  
KINGSFORD, TN 37669 CLARKSBURG, WV 26302

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4701441A



### Historical Well Chronology

Well Name: 508888 WVC 4538 (GP)

API 4704701441	Energy Well # 508888	PLID Name & #	Permit Number	Permit Date	Prod Resp Party	Farm Name (WV)	Operator	State WV
Rig KB Elev... 1,643.00	Spud Date 2/23/2001	Planned Well Geometry	Well Type Conventional	Loc Stat from LM spud	Area	County Mc Dowell, WV	Quad	

<b>Report #: 4.0</b>	<b>DFS: 900.25</b>	<b>Rigs: &lt;Rig?&gt;</b>	<b>Job Category: Completion/Workover</b>
Report End Date 8/12/2003 06:00	Operations at Report Time Ck pressure		Last Casing String
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0
		Drill Hrs (hr)	Avg ROP (ft/hr)
Daily Contacts			

Operations Summary  
AM Status: Check pressures. On 8/11: SIP @ 110 psi. BD. RIH w/ sand pump & sand pumped from 1475' - 1505'. SWI @ 12:00 pm.

<b>Report #: 5.0</b>	<b>DFS: 901.25</b>	<b>Rigs: &lt;Rig?&gt;</b>	<b>Job Category: Completion/Workover</b>
Report End Date 8/13/2003 06:00	Operations at Report Time RDMO Rig		Last Casing String
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0
		Drill Hrs (hr)	Avg ROP (ft/hr)
Daily Contacts			

Operations Summary  
On 8/12: Checked SIP @ 110 psi. BD. Ran 43 jts of 1-12" tbg, pumping bbl & mud anchor for a total of 1486'. SN set @ 1464' KB. Ran (58) 5/8" rods, (1) 8' pony rod & (1) 2' pony rod. Pumped well up & left pumping to tank. RDMO.

<b>Job Category: Completion/Workover, Job Start Date: 9/18/2008</b>					
Job Category Completion/Workover	AFE Number	Start Date 9/18/2008	Date TD Reached (wellbore)	Target Depth (ftKB)	Total AFE Amount (Cost)
Summary					

<b>Report #: 1.0</b>	<b>DFS: 2764.25</b>	<b>Rigs: &lt;Rig?&gt;</b>	<b>Job Category: Completion/Workover</b>
Report End Date 9/18/2008 06:00	Operations at Report Time RDMO Rig		Last Casing String
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0
		Drill Hrs (hr)	Avg ROP (ft/hr)
Daily Contacts			

Operations Summary  
AM Status: RDMO. On 9/17: MIRU Francis Bros 2. BWD. Took PU apart. TOOH w/ 5/8" rods. Well has barrel pump, couldn't get standing valve. Puffed on 1 1/2" tbg, hung in hole. Needs cleaned up and tbg removed. Put on new valves/nipples, didn't have new WH or stuffing box to set. Will do when MIRU again. Reset pump, well pumping wtr to surf. RDMO to next well. Drain in tank dike needs repaired.

Daily cost - \$1390.00  
Cum - \$1390.00

LOE

1500' 2 3/8 tubing  
 1500' 5/8 rods  
 DNP  
 WTC  
 Production unit  
 Pumping jack  
 Electric restored  
 book up costs  
 20 mcrd

TBIL Attempt.

088971

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## Historical Well Chronology

**Well Name: 508888 WVC 4538 (GP)**

API 4704701441	Enertia Well # 508888	PUD Name & #	Permit Number	Permit Date	Prod Resp Party	Farm Name (WV)	Operator	State WV
Rig KB Elev... 1,643.00	Spud Date 2/23/2001	Planned Well Geometry	Well Type Conventional	Loc Stat from LM spud	Area	County Mc Dowell, WV	Quad	

**Job Category: Completion/Workover, Job Start Date: 5/28/2003**

Job Category Completion/Workover	AFE Number 508888	Start Date 5/28/2003	Date TD Reached (wellbore)	Target Depth (ftKB)	Total AFE Amount (Cost)
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**Report #: 1.0 DFS: 824.25 Rigs: <Rig?> Job Category: Completion/Workover**

Report End Date 5/28/2003 06:00	Operations at Report Time MIRU	Last Casing String				
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
		0.0	0.0			

Operations Summary  
On 5/27, MIRU Lloyd Jackson Service rig. SICP & SITP @ 0 psi. Attempted to pull tbg & rods. Worked string - pulling 15000#. but would not move. SWI. RDMO to WVC 3861.

**Report #: 2.0 DFS: 825.25 Rigs: <Rig?> Job Category: Completion/Workover**

Report End Date 5/29/2003 06:00	Operations at Report Time SI	Last Casing String				
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
		0.0	0.0			

Operations Summary  
On 5/28, MIRU Schlumberger & pumped 15 bbls of 15% HCL w/ extra inhibitor & extra iron treatment down annulus. Displaced w/ 7-1/2 bbls of water. SWI @ 9:30 am on 5/28/03.

**Report #: 3.0 DFS: 826.25 Rigs: <Rig?> Job Category: Completion/Workover**

Report End Date 5/30/2003 06:00	Operations at Report Time SD	Last Casing String				
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
		0.0	0.0			

Operations Summary  
AM Status: SD. On 6/17, MI Justice water truck & pumped approximately 35 bbls water down well to stabilize acid.

**Job Category: Completion/Workover, Job Start Date: 8/6/2003**

Job Category Completion/Workover	AFE Number 508888	Start Date 8/6/2003	Date TD Reached (wellbore)	Target Depth (ftKB)	Total AFE Amount (Cost)
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**Report #: 1.0 DFS: 895.25 Rigs: <Rig?> Job Category: Completion/Workover**

Report End Date 8/7/2003 06:00	Operations at Report Time Pull tbg	Last Casing String				
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
		0.0	0.0			

Operations Summary  
AM Status: WO acid. On 08/06: RU Lloyd Jackson. 0 psi on tbg, 110 psi on 4-1/2". Attempted to pull 5/8" rods, would not pull. Attempted to pull 1-1/2" tbg, pulled 12,000 # over string weight, would not pull. SD for day. Wait for acid in AM.

**Report #: 2.0 DFS: 896.25 Rigs: <Rig?> Job Category: Completion/Workover**

Report End Date 8/8/2003 06:00	Operations at Report Time Pull tbg	Last Casing String				
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
		0.0	0.0			

Operations Summary  
AM Status: Attempt to pull tbg. On 08/07: 0 psi. MIRU Schlumberger, pumped 500 gal 15% HCL. Waited 2 hrs. Tried to pull 1-1/2" tbg & rods. Rods came free, pulled 58 5/8" rods and Cajun pump out of well. Schlumberger pumped 4 bbl water, pulled on tbg. Pumped additional 4 bbl water, pulled to 19,000 # on weight indicator. Repeated same, pumped total 20 bbl water. Released Schlumberger. Continued working tbg, pulled to 19,000 # on weight indicator. Tbg started coming, got it up hole 2-1/2'. S WI @ 8:00 pm.

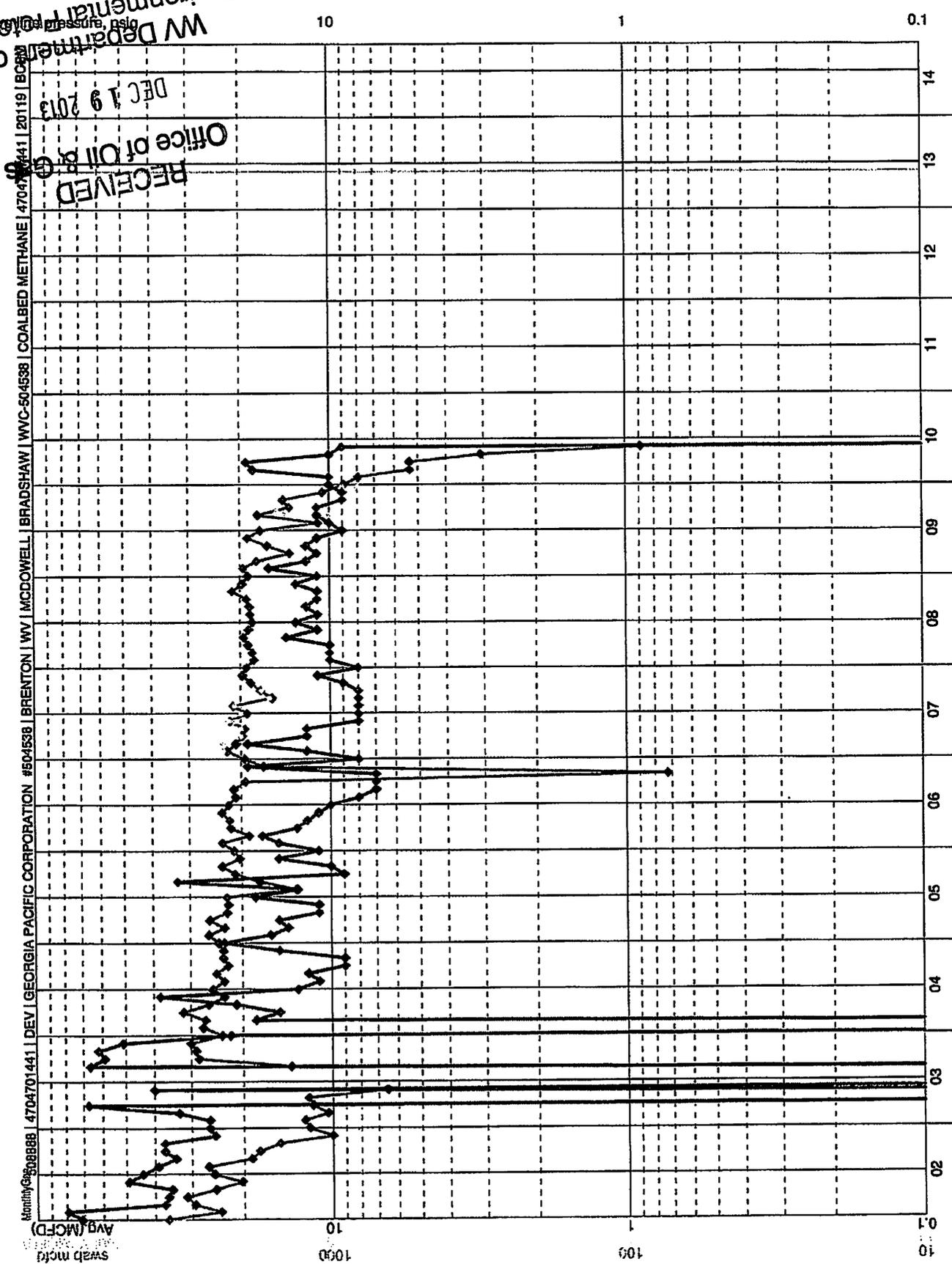
**Report #: 3.0 DFS: 899.25 Rigs: <Rig?> Job Category: Completion/Workover**

Report End Date 8/11/2003 06:00	Operations at Report Time Sand pump	Last Casing String				
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
		0.0	0.0			

Operations Summary  
AM Status: Continue to sand pump & clean hole. On 08/08: Pulled on 1-1/2" tbg to 19,000# on weight indicator. Tbg worked loose. Pulled 43 jts 1-1/2" tbg + cajun pump + mud anchor. RIH w/ 3-7/8" bit \* clean wall of 4-1/2" csg. Set down @ 1450'. RIH w/ sand pump from 1450' - 1475'. SWI @ 5:00 pm SD for weekend.

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Monthly Gas 308888 | 4704701441 | DEV | GEORGIA PACIFIC CORPORATION #504538 | BRENTON | WV | MCDOWELL | BRADSHAW | WVC-504538 | COALBED METHANE | 4704701441 | 20119 | BCPM

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	NOTE_TEXT
1	Wells with production greater than 10 mcf/d for Operations model.
2	GREATER THAN 10Mcf/d: 2007
3	2007 Royalty Lawsuit.
4	Flo Cal
5	Code - 97
6	N/A
7	Brenton UnRegulated
8	Yearend well check for 2011.
9	Wrong Cums.
10	Brenton WV CBM.
11	BR1 200 WELLS
12	Oct Vol Variance Analysis.
13	Brenton CBM wells.
14	Brenton.
15	Still Flat - No
16	YERR_WELLCOUNT FOR 2011.
17	Dead, To be plugged
18	Downhole pump problem. Not producing any fluid. On variance every month.
19	Orifice Plate Diameter - 0.375 / Tube Diameter - 2.06699991226196
20	ORIGINAL PERMIT NUMBER 4704701441C. OLD ENERTIA # 504538.
21	Lowered sucker rod approx. 8 in. Turned pumpjack on. Began pumping water after approx. 1 hr.
22	Pumpjack stuck.
23	Gauged tnk. to approx. 108 bbls. Pumping approx. 12.5 perday.
24	000009 Started comp. unit.
25	started comp. unit. overhauled stuffing box
26	Blow Drip-009 Blew pipeline clean.
27	Kingsly 240 unit. Comp. is off due to low suc. press.
28	Repair Pump Jack
29	Pump Unit Down-Power
30	Blow Drip-009 and tightened stuffbox.
31	tightened and lubed leaking stuf-box.
32	Dismantled whc and delivered to shop for service to relocate to 1161.
33	Lubed and tightened stuff-box.
34	Pumpjack and pj skid were moved back inplace.
35	Grease Pumping Unit
36	Fluid Level - 41bbls.in tank.
37	Alarm Response-15 mcf under projection. Pump is on and staying ahead of water. Forecast should be readjusted.
38	Fluid Level-69.72 bbls. in tank.
39	Fluid Level-79 bbls in tank. Approx. 4.75 bbls per/day.
40	Fluid Level-105.4 bbls. in tank
41	Stuf-box will need overhauled.
42	Repair Pump Jack
43	Grease Pumping Unit
44	Blow Drip - Location-stuffed packing box
45	Blow Drip - Location-
46	Change Chart/Download Meter-
47	Blow Drip - Location-
48	Blow Drip - Location-

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NOTE\_TEXT

49	Change Chart/Download Meter-
50	Blow Drip - Location-
51	Blow Drip - Location-
52	Blow Drip - Location-
53	Maintenance-21MCF
54	Maintenance-18MCF
55	Maintenance-22MCF
56	Blow Drip - Location-Grease Pumping Unit.
57	Maintenance-Blow Drip - Location -21mcf
58	Maintenance-Blow Drip - Location.
59	Maintenance-Blow Drip - Location.
60	Maintenance-Blow Drip - Location.
61	Maintenance-Blow Drip - Location.
62	Blow Drip - Location-Grease Pumping Unit.
63	Blow Drip - Location-Grease Pumping Unit.
64	Blow Drip - Location-Change Chart/Download Meter.
65	Blow Drip - Location-Grease Pumping Unit.
66	Blow Drip - Location-Grease Pumping Unit.
67	Change Chart/Download Meter-Blow Drip - Location
68	Blow Drip - Location-Grease Pumping Unit-
69	Blow Drip - Location-Grease Pumping Unit-
70	Blow Drip - Location-Grease Pumping Unit-
71	Change Chart/Download Meter-Grease Pumping Unit
72	Blow Drip - Location-Grease Pumping Unit-
73	Blow Drip - Location-Grease Pumping Unit-
74	Blow Drip - Location-Grease Pumping Unit-
75	Change Chart/Download Meter-Blow Drip - Location
76	Blow Drip-Location-Grease Pumping Unit-
77	Blow Drip-Location-Grease Pumping Unit-
78	Blow Drip-Location-Grease Pumping Unit-
79	Change Chart/Download Meter-Blow Drip-Location-
80	Blow Drip-Location-Grease Pumping Unit-
81	Blow Drip-Location-Grease Pumping Unit-
82	Blow Drip-Location-Grease Pumping Unit-
83	Change Chart/Download Meter-Blow Drip-Location-
84	Blow Drip-Location-Grease Pumping Unit-Fixed stuffing box.
85	Blow Drip - Location -P/U breaker was kicked, reset.
86	Maintenance -(Feb,F,490)
87	Blow Drip - Location -P/U motor down.
88	Blow Drip - Location -P/U motor down.
89	Maintenance -(Mar,D,pumping unit,373)
90	Blow Drip - Location -Apr total, 525, est 17 daily
91	Blow Drip - Location June totals 532mcf
92	Blow Drip - Location Drain line going to brine tank is busted inside dike, shut p/u down
93	Maintenance-(July,D,surface equipment,341)
94	Maintenance-(Aug,D,pumping unit,460)
95	Maintenance-(Sep,D,P/U,402)
96	Maintenance (Oct,F,421)

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NOTE\_TEXT

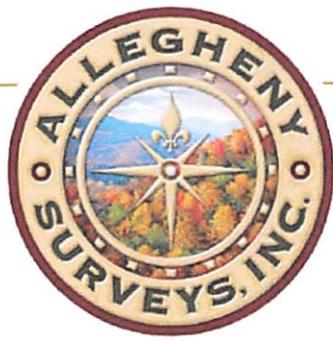
97	Maint. (Nov,D,DHP,330)
98	Maintenance -(Dec,D,Surface Equipment,186)
99	Maintenance-(Jan,D,DHP,186)
100	Message to Eng or Supt-This well is not producing enough water to keep p/u running, shut unit down.
101	Msg to Eng or Supt This well does not produce enough water to run p/u. Shut p/u down.
102	Pumping_Unit-DHP
103	Pumping_Unit DHP
104	Downtime Equipment has been pulled off.
105	

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### POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY  
LEASE NAME AND WELL No. WVC 4538 GP WV 508888 (47-047-01441)

The initial mapping review of the area surrounding the proposed well site revealed the below listed surface owner(s) that were potentially utilizing groundwater (potable) for Human Consumption or other purposes within 1000' of the existing well site. The following landowners will be notified of the opportunity to request a water sample.  
\*Please note that the following information is subject to change upon field inspection.

#### POTENTIAL SAMPLE LOCATIONS

Site: 1 Spacing: 588' +/- Owner: Gene & Shirley Terry et al  
Address: PO Box 36 Standard, IL 61363 Phone No. \_\_\_\_\_  
Comments:

Site: 2 Spacing: 691' +/- Owner: Gene & Shirley Terry et al  
Address: PO Box 36 Standard, IL 61363 Phone No. \_\_\_\_\_  
Comments:

Site: 3 Spacing: 329' +/- Owner: Philip J., Reva G., Luther & Edith Hagerman  
Address: HC 61 Box 47A Paynesville, WV 24873 Phone No. \_\_\_\_\_  
Comments:

Site: 4 Spacing: 427' +/- Owner: Philip J., Reva G., Luther & Edith Hagerman  
Address: HC 61 Box 47A Paynesville, WV 24873 Phone No. \_\_\_\_\_  
Comments:

Site: 5 Spacing: 326' +/- Owner: Philip J., Reva G., Luther & Edith Hagerman  
Address: HC 61 Box 47A Paynesville, WV 24873 Phone No. \_\_\_\_\_  
Comments:

**BIRCH RIVER OFFICE**  
P.O. Box 438 • 237 Birch River Road  
Birch River, WV 26610  
phone: 304-649-8606  
fax: 304-649-8608

**BRIDGEPORT OFFICE**  
172 Thompson Drive  
Bridgeport, WV 26330  
phone: 304-848-5035  
fax: 304-848-5037

**CALDWELL OFFICE**  
212 Cumberland Street  
Caldwell, OH 43724  
phone: 740-305-5007  
fax: 740-305-5126

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ALUM CREEK OFFICE  
P.O. Box 408 • 1413 Childress Road  
Alum Creek, WV 25003  
phone: 304-756-2948  
fax: 304-756-2948

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Site: 6 Spacing: 389' +/- Owner: Philip J., Reva G., Luther & Edith Hagerman  
Address: HC 61 Box 47A Paynesville, WV 24873 Phone No. \_\_\_\_\_  
Comments:

Site: 7 Spacing: 270' +/- Owner: Henry Allen Stacy  
Address: PO Box 453 Jolo, WV 24850 Phone No. \_\_\_\_\_  
Comments:

Site: 8 Spacing: 429' +/- Owner: James E. & Sherry K. McClanahan  
Address: PO Box 857 Bradshaw, WV 24817 Phone No. \_\_\_\_\_  
Comments:

Site: 9 Spacing: 578' +/- Owner: James E. & Sherry K. McClanahan  
Address: PO Box 857 Bradshaw, WV 24817 Phone No. \_\_\_\_\_  
Comments:

Site: 10 Spacing: 883' +/- Owner: James E. & Sherry K. McClanahan  
Address: PO Box 857 Bradshaw, WV 24817 Phone No. \_\_\_\_\_  
Comments:

Site: 11 Spacing: 935' +/- Owner: James E., Everette & Sherry Joyce McClanahan  
Address: PO Box 857 Bradshaw, WV 24817 Phone No. \_\_\_\_\_  
Comments:

Site: 12 Spacing: 865' +/- Owner: James E., Everette & Sherry Joyce McClanahan  
Address: PO Box 857 Bradshaw, WV 24817 Phone No. \_\_\_\_\_  
Comments:

Site: 13 Spacing: 773' +/- Owner: James E. & Sherry K. McClanahan  
Address: PO Box 857 Bradshaw, WV 24817 Phone No. \_\_\_\_\_  
Comments:

Site: 14 Spacing: 534' +/- Owner: James E. & Sherry K. McClanahan  
Address: PO Box 857 Bradshaw, WV 24817 Phone No. \_\_\_\_\_  
Comments:

Site: 15 Spacing: 426' +/- Owner: James E. & Sherry K. McClanahan  
Address: PO Box 857 Bradshaw, WV 24817 Phone No. \_\_\_\_\_  
Comments:

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47 01441A

WW-4-A  
Revised 6/07

1) Date: Dec. 16, 2013  
2) Operator's Well Number  
508888 WV C4538  
3) API Well No.: 47 047 - 01441  
State County Permit

**STATE OF WEST VIRGINIA - BUREAU OF ENVIRONMENT**  
**DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS**  
**NOTICE AND APPLICATION TO PLUG AND ABANDON WELL**

4) Surface Owner(s) to be served:  
(a) Name Jesse R & Tina L Greenwell ✓  
Address P.O. Box 827  
laeger, WV 24701  
(b) Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Name \_\_\_\_\_  
Address \_\_\_\_\_  
6) Inspector Gary Kennedy ✓  
Address P.O.Box 268  
Nimitz, WV 25678 25978  
Telephone 304-382-8402

5) (a) Coal Operator:  
Name None  
Address \_\_\_\_\_  
(b) Coal Owner(s) with Declaration  
Name Natural Resources Partners L.P. ✓  
5260M Irwin Road  
Address Huntington, WV 25705  
Name \_\_\_\_\_  
Address \_\_\_\_\_  
(c) Coal Lessee with Declaration  
Name None  
Address \_\_\_\_\_

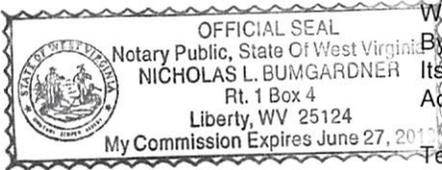
**TO THE PERSONS NAMED ABOVE:**

You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

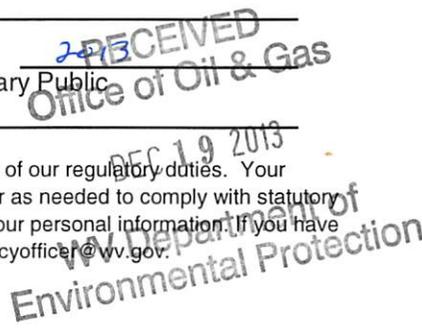


Well Operator:  
By: \_\_\_\_\_  
Its: \_\_\_\_\_  
Address: \_\_\_\_\_  
Telephone: \_\_\_\_\_

EQT Production Company  
Victoria J. Roark  
Permitting Supervisor  
PO Box 280  
Bridgeport, WV 26330  
(304) 848-0076

Subscribed and sworn before me this 16 day of DECEMBER, 2013  
My Commission Expires: 6/27/2012

Notary Public



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

WV Department of Environmental Protection

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SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>1. Article Addressed to:</p> <p style="text-align: center;"><b>Jessee R &amp; Tina L. Greenwell</b> P.O. Box 827 laeger, WV 24701</p> <p style="text-align: center;">508888</p>		<p>A. Signature <b>X</b></p> <p><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>2. Article Number (Transfer from service label) 7013 2930 0002 2366 3404</p>		<p>B. Received by (Printed Name) C. Date of Delivery</p>	
<p>3. Service Type</p> <p><input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>		<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>			

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

**EQT**  
C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

PS Form 3800, August 2006 See Reverse for Instructions

Postage \$	7013 2930 0002 2366 3404
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total	7013 2930 0002 2366 3404

Sent to: **Jessee R & Tina L. Greenwell**  
P.O. Box 827  
laeger, WV 24701

Street # \_\_\_\_\_  
City, Sta \_\_\_\_\_  
or P.O. Box \_\_\_\_\_

508888

**OFFICIAL USE**  
For delivery information visit our website at [www.usps.com](http://www.usps.com)  
**CERTIFIED MAIL™ RECEIPT**  
U.S. Postal Service™  
(Domestic Mail Only; No Insurance Coverage Provided)



CERTIFIED MAIL™

Jessee R & Tina L. Greenwell  
P.O. Box 827  
laeger, WV 24701  
508888

neopost  
12/16/2013  
US POSTAGE  
FIRST-CLASS MAIL  
\$07.17  
ZIP 26330  
041110228892

47014410

47 01 441A

12/16/2013  
US POSTAGE  
\$07.17  
ZIP 26330  
041L10228892

7013 2630 0002 2366 3411  
7013 2630 0002 2366 3411

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**OFFICIAL USE**

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Pc		

**Natural Resource Partners L.P.**  
**5260M Irwin Rd.**  
**Huntington, WV 25705**

Sent To  
 Street, Ap or PO Box  
 City, State  
 508888

PS Form 3800, August 2006 See Reverse for Instructions

Natural Resource Partners L.P.  
5260M Irwin Rd.  
Huntington, WV 25705  
508888

C/O Vicki Roark  
P.O. Box 280  
Bridgeport, WV 26330

**SENDER: COMPLETE THIS SECTION**

1. Article Addressed to:  
 Attach this card to the back of the mailpiece, or on the front if space permits.  
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.  
 Print your name and address on the reverse so that we can return the card to you.  
 Attach this card to the back of the mailpiece.

2. Article Number  
 508888  
 (Transfer from service label)  
 7013 2630 0002 2366 3411

3. Service Type  
 Certified Mail  
 Express Mail  
 Registered Mail  
 Insured Mail  
 C.O.D.

4. Restricted Delivery? (Extra Fee)  
 Yes  
 No

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  
 B. Received by (Printed Name)  Addressee  
 C. Date of Delivery  
 D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below:

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

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Environmental Protection

4701441P

Priority Mail  
Combined Price  
**\$05.32**

12/16/2013  
**US POSTAGE**

ZIP 26330  
041L10228892



Gary Kennedy  
P.O. Box 268  
Nimitz, WV 25978  
130271, 130281, 793799, 793806, 508888, 506499

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STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL & GAS  
CONSTRUCTION AND RECLAMATION PLAN AND SITE REGISTRATION APPLICATION FORM  
GENERAL PERMIT FOR OIL AND GAS PIT WASTE DISCHARGE

Operator Name: EQT PRODUCTION COMPANY OP ID: \_\_\_\_\_  
Watershed: Groundhog Branch Quadrangle: Bradshaw 7.5'  
Elevation: 1632 County: McDowell District: Sandy River

Description of anticipated Pit Waste: Formation Fluids

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes \_\_\_ No X  
Will synthetic liner be used in the pit? Yes Is so, what ml.? 30 ml

Proposed Disposal Method for Treated Pit Wastes: JKK  
 Land Application  
 Underground Injection - UIC Permit Number \_\_\_\_\_  
 Reuse (at API Number) \_\_\_\_\_  
 Offsite Disposal Permit #. \_\_\_\_\_  
 Other: Explain \_\_\_\_\_

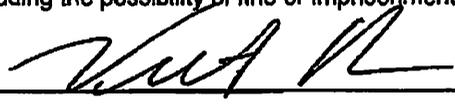
Drilling medium anticipated for this well? Air, freshwater, oil based, etc.  
If oil based, what type? Synthetic, petroleum, etc.

Additives to be used? \_\_\_\_\_

Will closed loop system be used? \_\_\_\_\_

Drill Cuttings disposal method? Leave in pit, landfill, remove offsite, etc.  
If left in pit and plan to solidify what medium will be used? Cement, Lime, sawdust  
Landfill or offsite name/permit number? \_\_\_\_\_

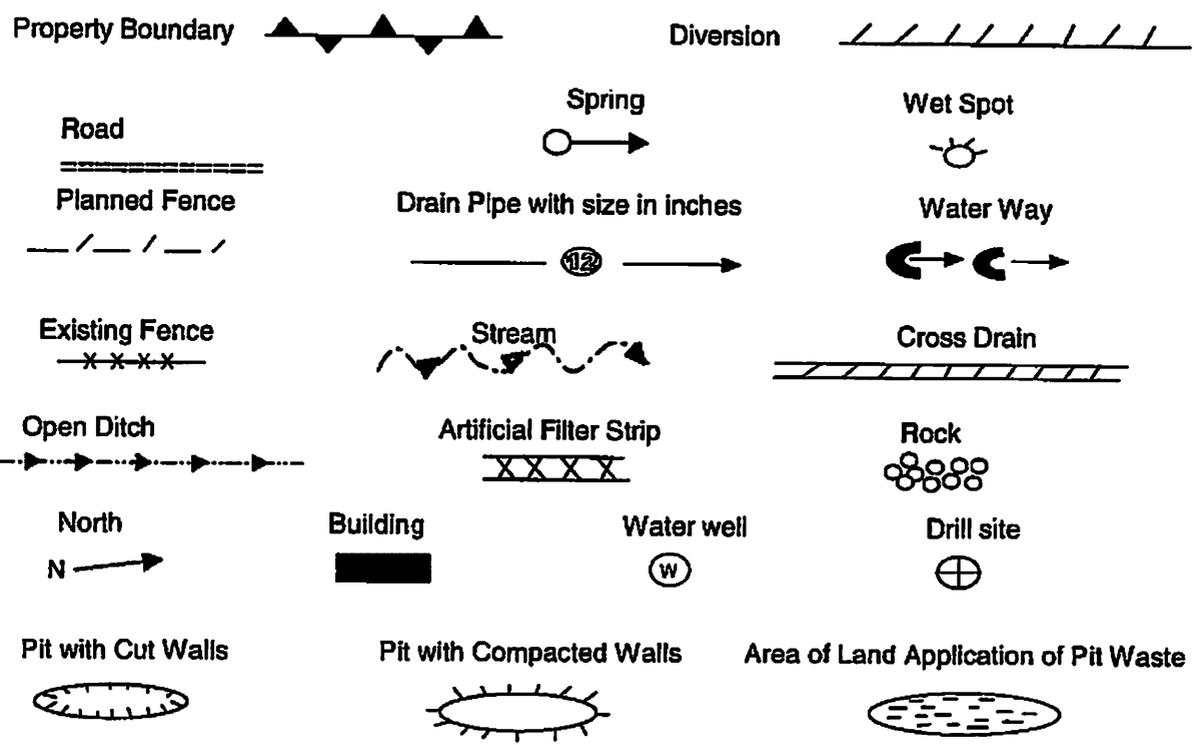
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any terms 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   
Company Official (Typed or Printed) Victoria Roark  
Company Official Title Permitting Supervisor-WV  
Subscribed and sworn before me this 16 day of DECEMBER, 2013

 Notary Public  
My Commission Expires 6/27/2018

**OPERATOR'S WELL NO.:**  
508888 WV C4538

**LEGEND**



Proposed Revegetation Treatment: Acres Disturbed: 1± Prevegetation pH 5.8

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 or hydroseed.

**SEED MIXTURES**

Area I		Area II	
Seed Type	lbs/acre	Seed Type	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.  
Photocopies section of involved 7.5' topographic sheet.

Plan approved by: *Henry Kennedy*

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

Title: Inspector Date: 12/27/13  
Field Reviewed? Yes  No



