



west virginia department of environmental protection

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

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

January 17, 2014

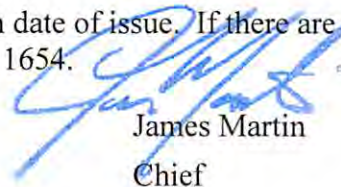
WELL WORK PLUGGING PERMIT

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

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

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
100⁰⁰

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
120 Professional Place
Address: Bridgeport, WV 26330

7) Designated Agent: Rex C. Ray
Address: 120 Professional Place
Bridgeport, WV 26330

8) Oil & Gas Gary Kennedy
Name: P.O.Box 268
Address: Nimitz, WV 25678

9) Plugging Contractor:
Name: HydroCarbon Well Service
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

01/17/2014

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, 1-304-382-³⁴⁰²~~9299~~ 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 ✓
8. Set Monument to VA-DEP Specifications
9. Reclaim Location & Road to VA-DEP Specifications
w/ DEP

6% Gel plug
Between cement
Plugs.

JK

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: 13328.7 Feet South of Deg. 37 Minutes 22 Seconds 30
Longitude: 10259.98 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: _____
 Final open flow 37 Final open flow: _____
 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 _____ Bbl/d
 Final open flow _____ MCF/d Final open flow: _____
 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

BAC

Bradshaw 2

4701441P

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

Well: WVC-4538

AP# 47-047-01441

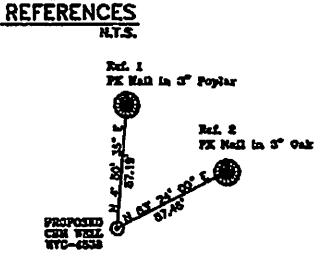
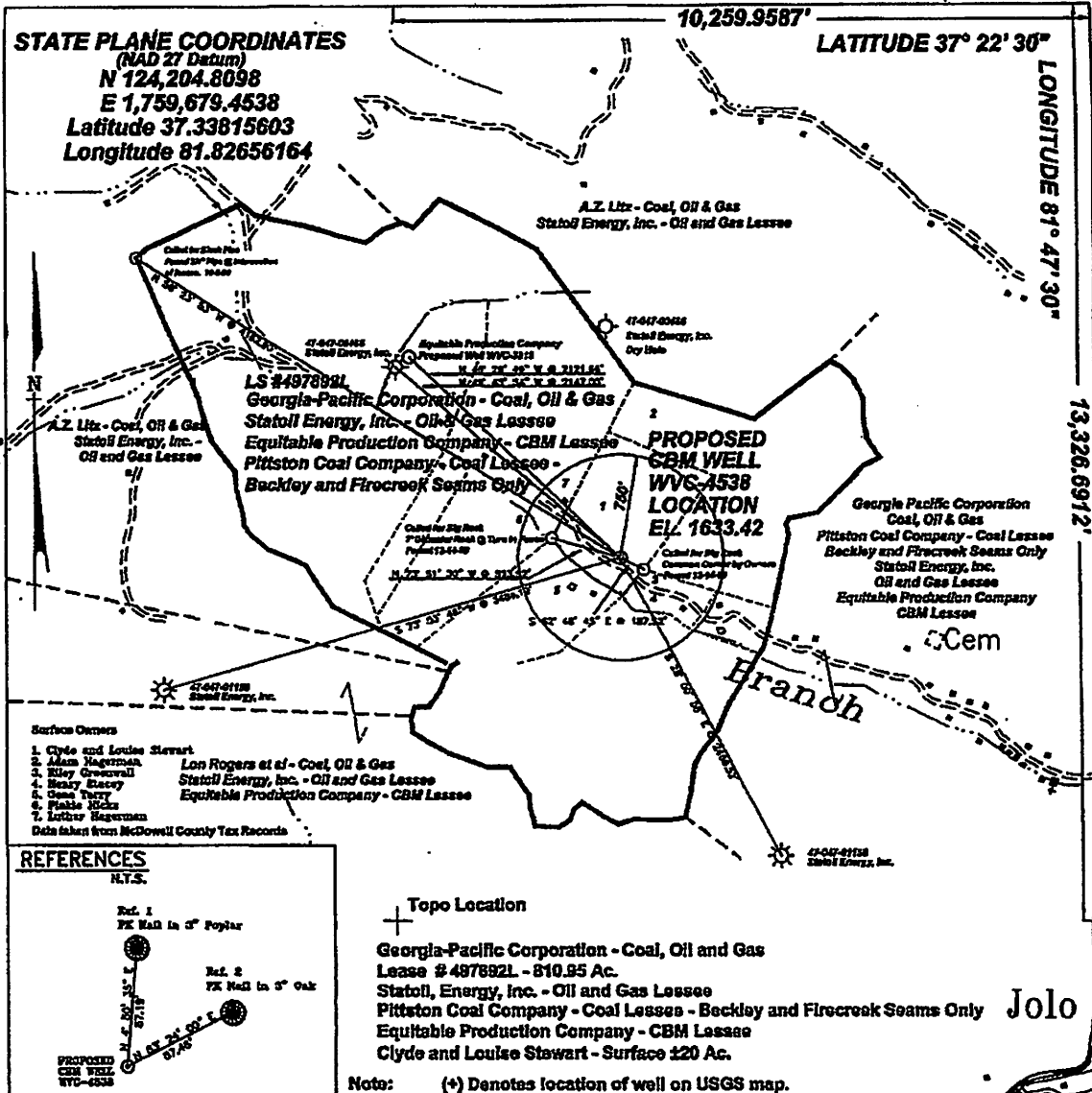
Date	3/14/01	2/21/01			
Type Frac	70 Q Foam	70 Q Foam			
Acid, N ₂ , Foam, Water					
Zone Treated	L Coal Seams	U Coal Seams			
# Perfs	15	13			
From - To:	998-1357.5	874.5-870.5			
BD Pressure @ psi	2298	2300			
ATP psi	2562	2550			
Avg. Rate, B=BM, S= SCFM	30 B	45 B			
Max. Treat Press psi	4145	3145			
ISIP psi	1188	1480			
Frac Gradient	1.80	2.34			
10 min S-J Pressure	978	1086			
Material Volume					
Sand-cks	122	125			
Water-hbl	150	436			
SCF N ₂	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	
466	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	



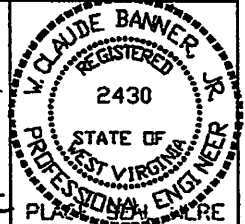
GT @ 1519"=18 mdd.

Handwritten initials



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
KINGSPORT, TN 37660 CLARKSBURG, WV 26302

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4701441A



Historical Well Chronology

Well Name: 508888 WVC 4538 (GP)

API 4704701441	Enerbia 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	

Report #: 4.0 DFS: 900.25		Rigs: <Rig?>		Job Category: Completion/Workover			
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.

Report #: 5.0 DFS: 901.25		Rigs: <Rig?>		Job Category: Completion/Workover			
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.

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

Report #: 1.0 DFS: 2764.25		Rigs: <Rig?>		Job Category: Completion/Workover			
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
 MTC
 Production unit
 Pumping jack
 Electric restored
 book up costs
 20 mcrd

TBIL Attempt.

088971

Visit

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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)
Summary					

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) 0.0	End Depth (ftKB) 0.0	Drill Hrs (hr)	Avg ROP (ft/hr)
Daily Contacts					
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) 0.0	End Depth (ftKB) 0.0	Drill Hrs (hr)	Avg ROP (ft/hr)
Daily Contacts					
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) 0.0	End Depth (ftKB) 0.0	Drill Hrs (hr)	Avg ROP (ft/hr)
Daily Contacts					
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)
Summary					

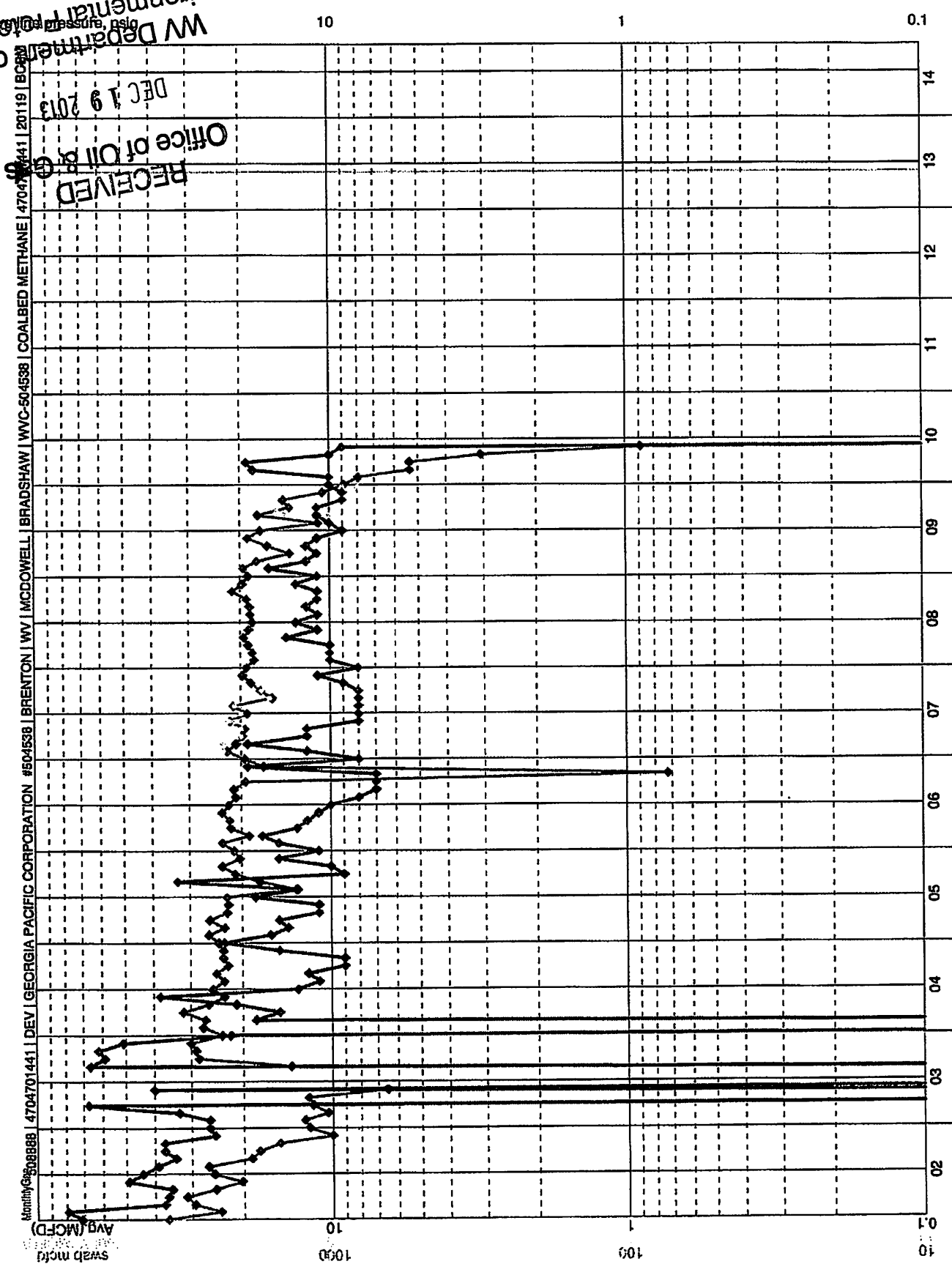
Report #: 1.0 DFS: 895.25		Rigs: <Rig?>		Job Category: Completion/Workover	
Report End Date 8/7/2003 06:00	Operations at Report Time Pull tbg			Last Casing String	
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0	Drill Hrs (hr)	Avg ROP (ft/hr)
Daily Contacts					
Operations 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) 0.0	End Depth (ftKB) 0.0	Drill Hrs (hr)	Avg ROP (ft/hr)
Daily Contacts					
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) 0.0	End Depth (ftKB) 0.0	Drill Hrs (hr)	Avg ROP (ft/hr)
Daily Contacts					
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 |

swab mctd
Avg (MCFD)

4701441P

01/17/2014

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 stuffing box.
31	tightened and lubed leaking stuff-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,480)
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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4701441P



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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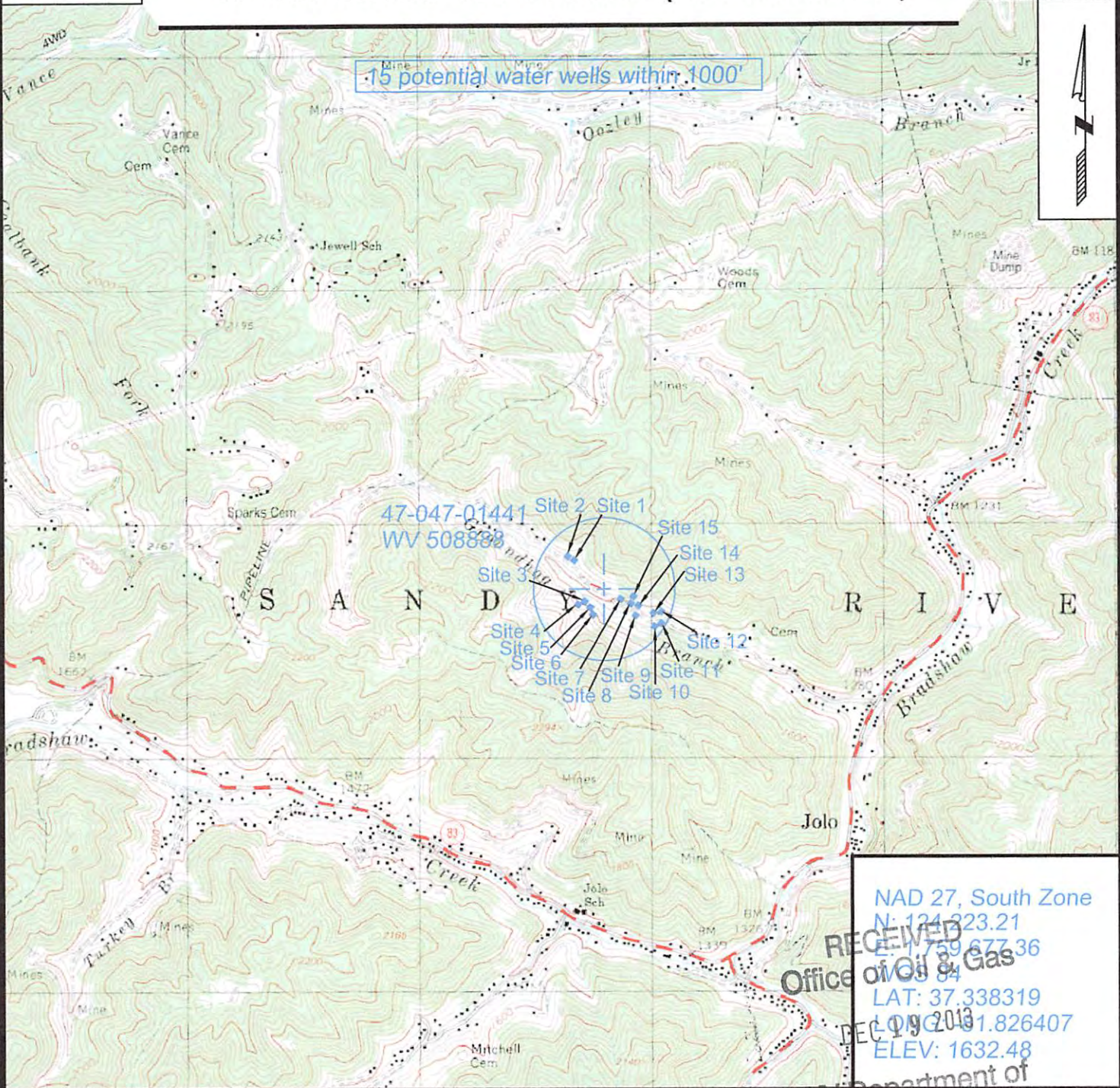
WV Department of
 Environmental Protection

4701441P

Topo Quad: Bradshaw 7.5' Scale: 1" = 2000'
 County: McDowell Date: November 27, 2013
 District: Sandy River Project No: 20-37-00-08

Water

47-047-01441 WV 508888 (WVC 4538 GP)



15 potential water wells within 1000'

NAD 27, South Zone
 N: 124,923.21
 E: 1,759,677.36
 LAT: 37.338319
 LONG: 81.826407
 ELEV: 1632.48

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ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR: WV Department of
Environmental Protection
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330

01/17/2014

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.

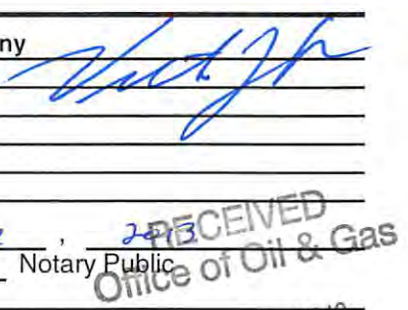
Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Division of Environmental 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: 6/27/2013



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

DEC 19 2013

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Department of Oil & Gas

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<p>1. Article Addressed to:</p> <p style="text-align: center;">Jessee R & Tina L. Greenwell P.O. Box 827 laeger, WV 24701</p> <p style="text-align: center;">508888</p>	<p>A. Signature <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</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>2. Article Number (Transfer from service label) 7013 2530 0002 2366 3404</p>	<p>3. Service Type</p> <p><input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</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 2530 0002 2366 3404
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total	

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

Street A, City, State or P.O. Box 508888

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

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ZIP 26330
04110282902

01/17/2014

4701441P

4701441A

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

7013 2630 0002 2366 3411
7013 2630 0002 2366 3411

C/O Vicki Roark
P.O. Box 280
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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

SENDER: COMPLETE THIS SECTION

1. Article Addressed to:
 Attach this card to the back of the mailpiece, or on the front if space permits.
 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, or on the front if space permits.

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

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

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

4. Restricted Delivery? (Extra Fee)
 Yes
 No

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Agent
 Addressee

B. Received by (Printed Name)
 Date of Delivery

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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01/17/2014

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USPS®
12/16/2013
CombiPrice
\$05.32
ZIP 26330
041L10228892



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

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Environmental Protection

01/17/2014

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

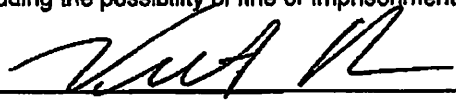
Proposed Disposal Method for Treated Pit Wastes: JKK
 Land Application
 Underground Injection - UIC Permit Number _____
 Reuse (at API Number) _____
 Offsite Disposal Permit #. _____
 Other: Explain _____

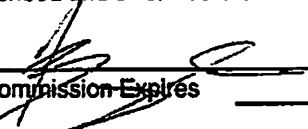
Drilling medium anticipated for this well? Air, freshwater, oil based, etc.
If oil based, what type? Synthetic, petroleum, etc.

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? _____

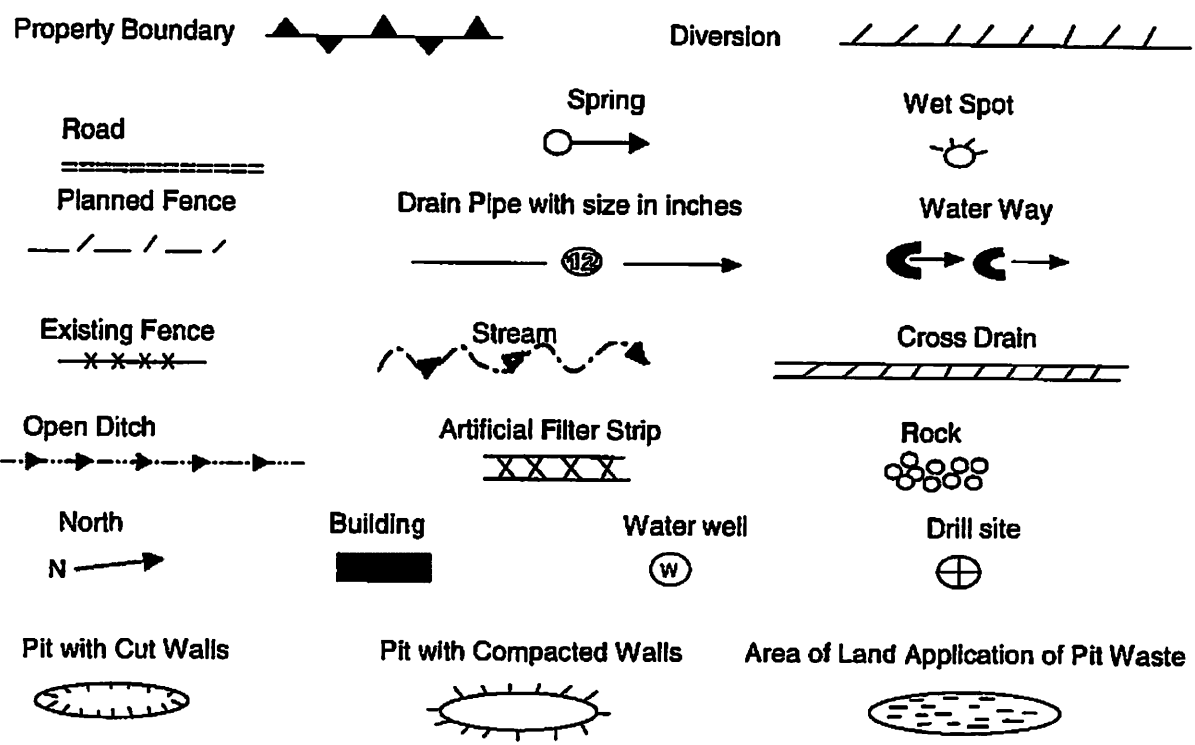
I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Division of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of 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

4701441P

Topo Quad: Bradshaw 7.5'

Scale: 1" = 2000'

County: McDowell

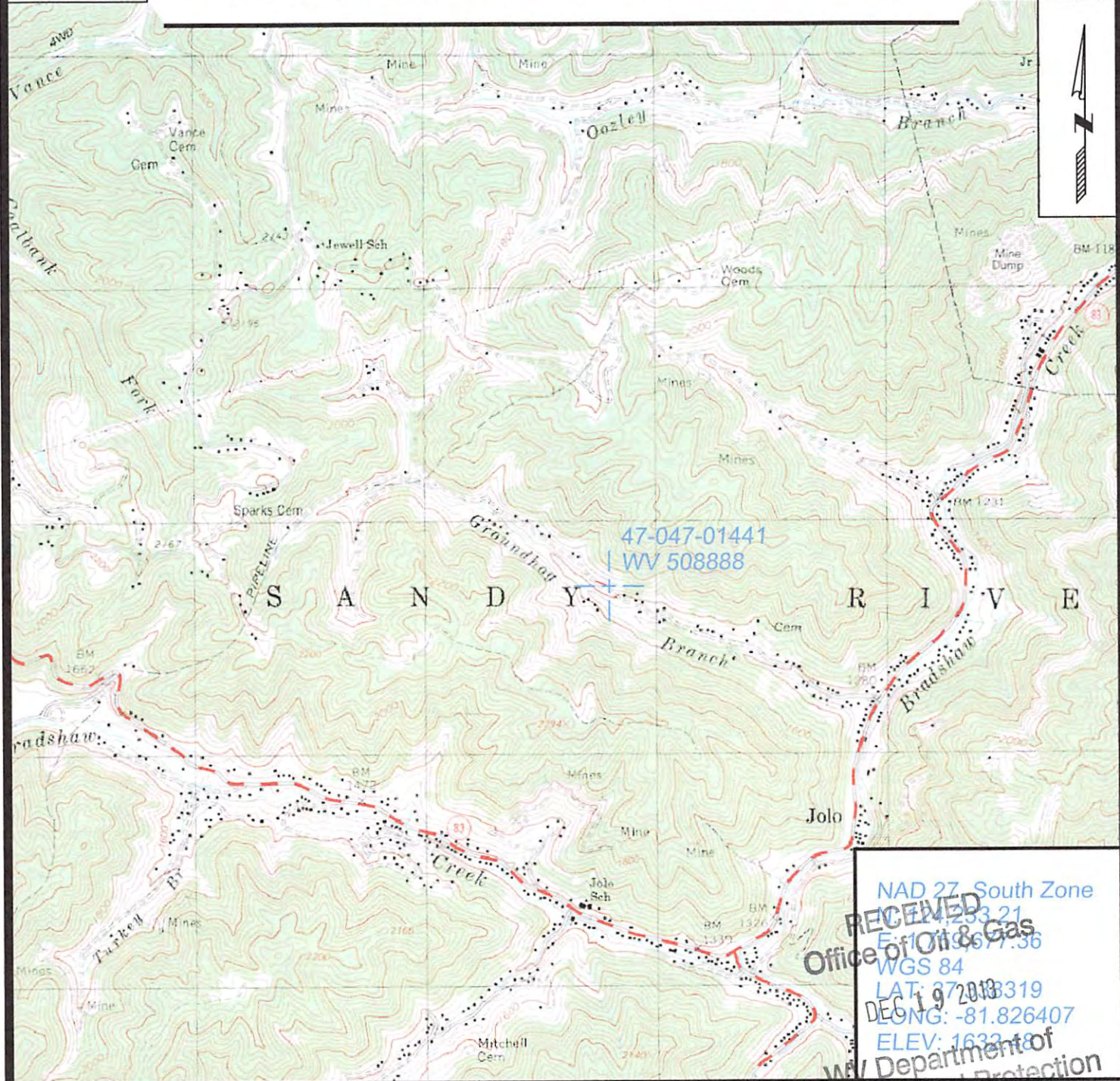
Date: November 27, 2013

District: Sandy River

Project No: 20-37-00-08

47-047-01441 WV 508888 (WVC 4538 GP)

Topo



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 WGS 84
 LAT: 37.8319
 LONG: -81.826407
 ELEV: 1633.18
 WV Department of Environmental Protection



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ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 P.O. BOX 438
 BIRCH RIVER, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330

01/17/2014

4701441 P

WW-7
8-30-06



West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS

API: 47-047-01441 WELL NO.: WV 508888 (WVC 4538 GP)

FARM NAME: Clyde and Louise Stewart

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: McDowell DISTRICT: Sandy River

QUADRANGLE: Bradshaw 7.5'

SURFACE OWNER: Jessie R. & Tina L. Greenwell

ROYALTY OWNER: EQT Production Company, et al.

UTM GPS NORTHING: 4132724

UTM GPS EASTING: 426796 GPS ELEVATION: 497 m (1632 ft)

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
2. Accuracy to Datum – 3.05 meters
3. Data Collection Method:

Survey grade GPS : Post Processed Differential
Real-Time Differential

Mapping Grade GPS X: Post Processed Differential X
Real-Time Differential

4. Letter size copy of the topography map showing the well location

I the undersigned, hereby certify this data 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 Office of Oil and Gas.

Steph O'Brien
Signature
12/6/13
Date

PS # 2180
Title
WV Department of Environmental Protection

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