



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

November 18, 2014

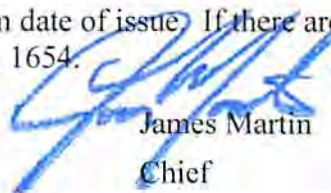
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10903032, 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: W RITTER 507491
Farm Name: HEARTWOOD FORESTLAND FU
API Well Number: 47-10903032
Permit Type: Plugging
Date Issued: 11/18/2014

Promoting a healthy environment.

11/21/2014

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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

10903032 P

CK 1836
100.00

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

Date: September 23, 2014
Operator's Well
Well No. 507491 (Ritter Lumber #7491)
API Well No.: 47 109 - 03032

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

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: 1340 ft Watershed: Big Cub Creek Branch
Location: Clear Fork County: Wyoming Quadrangle: Mallory
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 25978

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 11/3/14

11/21/2014

PLUGGING PROGNOSIS

507491 (MAL4H1)

Wyoming County, West Virginia
API # 47-109-03032H

BY: Chris Hendrick
DATE: 7/22/14

CURRENT STATUS:

13 3/8" csg @ 35' (Cemented)
9 5/8" csg @ 678' (Cemented/Grouted to surface)
7" csg @ 2526' (Cemented to surface)
4 1/2" csg pulled, csg was run to 3984', but was pulled due to Bon Log showing no cement on backside.
TD @ 3998', total depth was 4211' but was filled back with cement to 3998'

Oil Shows - None Reported FW Shows - 430' - 600' Coal Shows - None Reported Elevation - 1347'
Gas shows - 4010', 3579', 3168', 2944'

Stimulation: None

1. Notify State Inspector, **Ross Eller**, 1-304-923-6844, 48 hrs prior to commencing operations.
2. TIH w/ tubing and check condition.
3. TIH w/ tubing @ 3998'; Gel hole @ 3998' to 3579'
4. TOOH w/ tubing @ 3579', set 100' C1A cement plug @ 3579' to 3479'. (3579' Gas Show)
5. TOOH w/ tubing @ 3479'; Gel hole @ 3479' to 3168'.
6. TOOH w/ tubing @ 3168'; set 324' C1A cement plug @ 3168' to 2844'. (3168' and 2944' Gas Shows)
7. TOOH w/ tubing @ 2844'; Gel hole @ 2844' to 2576'.
8. TOOH w/ tubing @ 2576'; set 100' C1A cement plug @ 2576' to 2476'. (7" csg pt)
9. TOOH w/ tubing @ 2476' and Gel hole to 1400'.
10. TOOH w/ tubing @ 1400'; set 200' C1A cement plug @ 1400' to 1200'. (Elevation)
11. TOOH w/ tubing @ 1200'; Gel hole @ 1200' to 728'.
12. TOOH w/ tubing @ 728'; set 378' C1A cement plug @ 728' to ^{300'}~~350'~~. (9 5/8" csg pt and FW shows)
13. TOOH w/ tubing @ 350'; Gel hole @ ^{300'}~~350'~~ to 200'.
14. TOOH w/ tubing @ 200'; set 200' C1A cement plug to surface. (13 3/8" csg pt)
15. Top off as needed.
16. Set Monument to WV - DEP Specifications
17. Reclaim Location & Roads to WV - DEP Specifications.

COAL: 106'-108'
171'-174'

FRESH Water: 318'

COAL 594'-599'
COAL 613'-615'
Lee Swos 700'-1253'

OK *[Handwritten signature]*

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WV Department of
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Charleston, WV 25304
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Joe Manchin III, Governor
Randy C. Huffman, Cabinet Secretary
www.wvdep.org

January 19, 2010

NOTIFICATION OF NON-COMPLIANCE

WR-35

EQT PRODUCTION COMPANY,

The FINAL INSPECTION REPORT for the permit, API Well Number: 47-10903032, issued to EQT PRODUCTION COMPANY, and listed below has been received in this office, and reclamation requirements approved. However, according to our records, the reports identified (WR-34, WR-35, WR-38) have not been filed. Consequently, the permit cannot be released. Additionally, failure to submit these reports within 15 days will result in enforcement action.

James Martin
Chief

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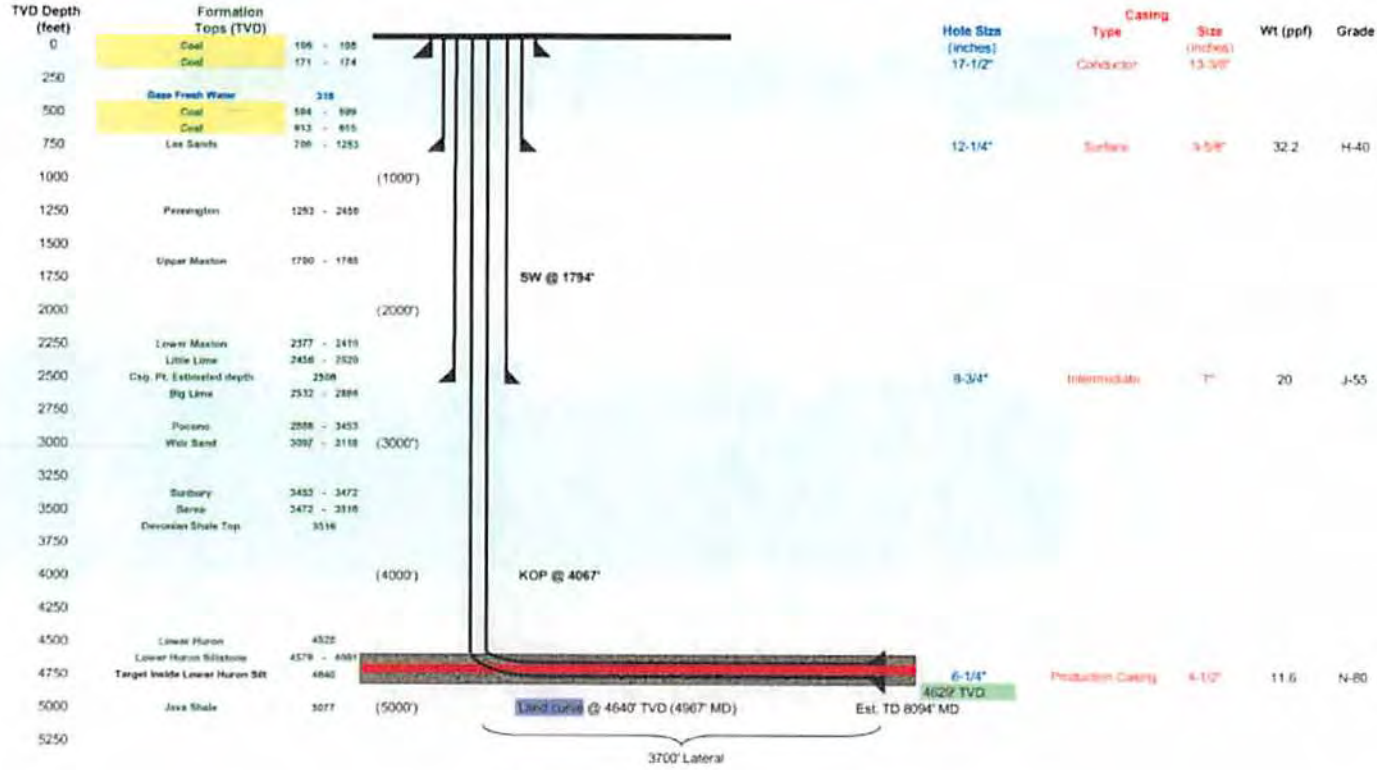
Operator: EQT PRODUCTION COMPANY
Operator's Well No: WRITTER 507491
Farm Name: HEARTWOOD FORESTLAND FU
API Well Number: 47-10903032
Date Issued: 05/21/2008

Promoting a healthy environment.

11/21/2014

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Well 507491
Equitable Resources
Quad: Mallory
Wyomin County: West Virginia



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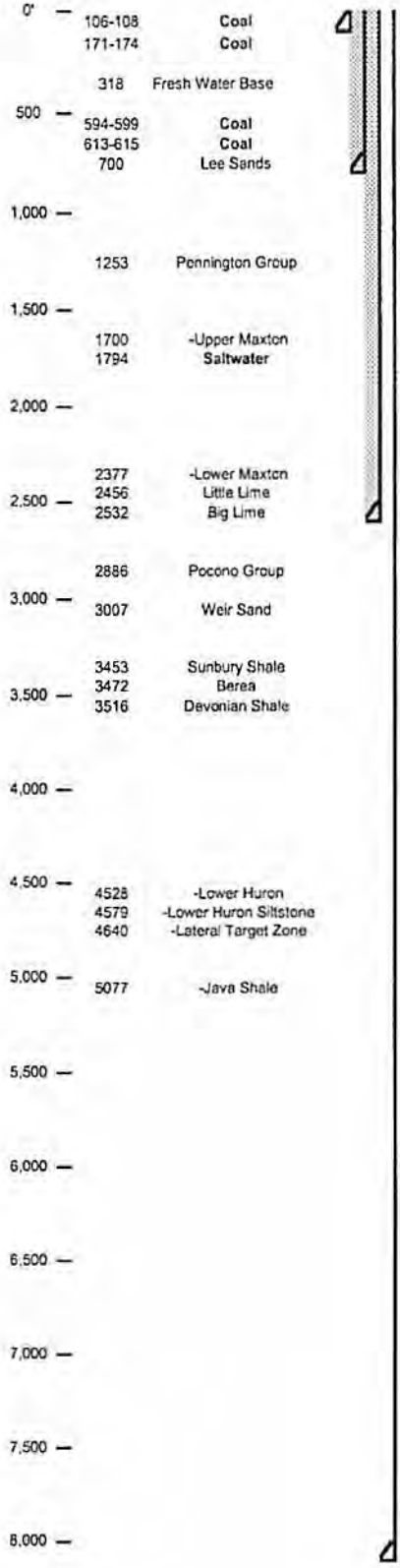
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BS 10/31/08

Well Schematic
Equitable Resources

Well Name: 507491
County: Wyoming
State: West Virginia

Elevation KB: 1357
Target: 4640' TVD (4967' MD)
Prospect: Lower Huron Siltstone



Hole Size 17 1/2" - 13 3/8" Conductor @ 40'
Bit Size 17 1/2"

TOC @ Surface
9 5/8" LS/32.2# @ 670' MD
Bit Size 12 1/4"

TOC @ surface
7" J-55/20# @ 2506' MD
Bit Size 8 3/4"

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KOP=4067', 10 Deg DLS

Land @ 4967' MD, 4640' TVD

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4 1/2" N-80/11.6# @ 8094' MD, 4629' TVD

002G 10903032P



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

API # 4710903032

MAILED
2-1-10

Farm Name Heartwood Forestland Well Number 507491
Location Elevation 1,347 Quadrange MALLORY
District Clear Fork County Wyoming, WV
Latitude 8670 FSL Degree 37.00 Minute 40.00 Second 0.00
Longitude 4480 FWL 81.00 45.00 0.00

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	35	35	
Inspector	Barry Stollings	9 5/8	678	678	324.30
Permit issued	05/21/2008	7	2,526	2,526	552.10

Well Work Commenced 11/04/2008
Well Work Completed Well has not been completed

Verbal Plugging
Permission granted on _____
Rotary Rig Cable Rig _____

Total Depth 5,204

Water Encountered

Type Fresh water From 5' stream @ 430'

Coal & Open Mbrs

Type From

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Open Flow Data

Producing Formation _____ Pay Zone Depth (ft): See attached for details

Gas: Initial Open Flow 0 MCF 01/01/1900 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 Mike Butcher
Date 1-25-2010

11/21/2014

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Well Number 507491

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

API # 4710903032

Stage 1
Date
Frac Typ
Zone
of Perfs
From/To
BD Press
ATP Psi
Avg Rate
Max Press Psi
ISIP Psi
10min SIP 5 min
Frac Gradient
Sand Proppant
Water-bbl
SCF N2
Acid-gal gal

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Formation Name	Depth To	Depth Bottom	Formation Thick
SALT SAND	700.00	1,253	553.00
RAVENCLIFF SAND	1,477.00	1,517	40.00
UPPER MAXTON SAN	1,700.00	1,765	65.00
MIDDLE MAXTON SA	2,155.00	2,263	108.00
LOWER MAXTON SA	2,377.00	2,410	33.00
LITTLE LIME	2,456.00	2,520	64.00
Greenbrier MKR 1	2,485.67	0	0.00
PENCIL CAVE SHALE	2,520.00	2,532	12.00
BIG LIME	2,532.00	2,886	354.00
UNION	2,616.30	0	0.00
PICKAWAY	2,694.22	0	0.00
TAGGARD SHALE	2,803.46	0	0.00
DENMAR	2,812.62	0	0.00
PS 30	3,006.38	0	0.00
WEIR SAND	3,007.00	3,118	111.00
PS 20	3,065.62	0	0.00
SUNBURY	3,453.00	3,472	19.00
BEREA SAND	3,472.00	3,516	44.00
UPPER DEVONIAN	3,515.42	0	0.00
GORDON SAND	3,810.02	3,824	13.98

Gas Tests

Depth	Remarks
2,944	trace
3,168	trace
3,579	trace
4,010	trace

estimated tops



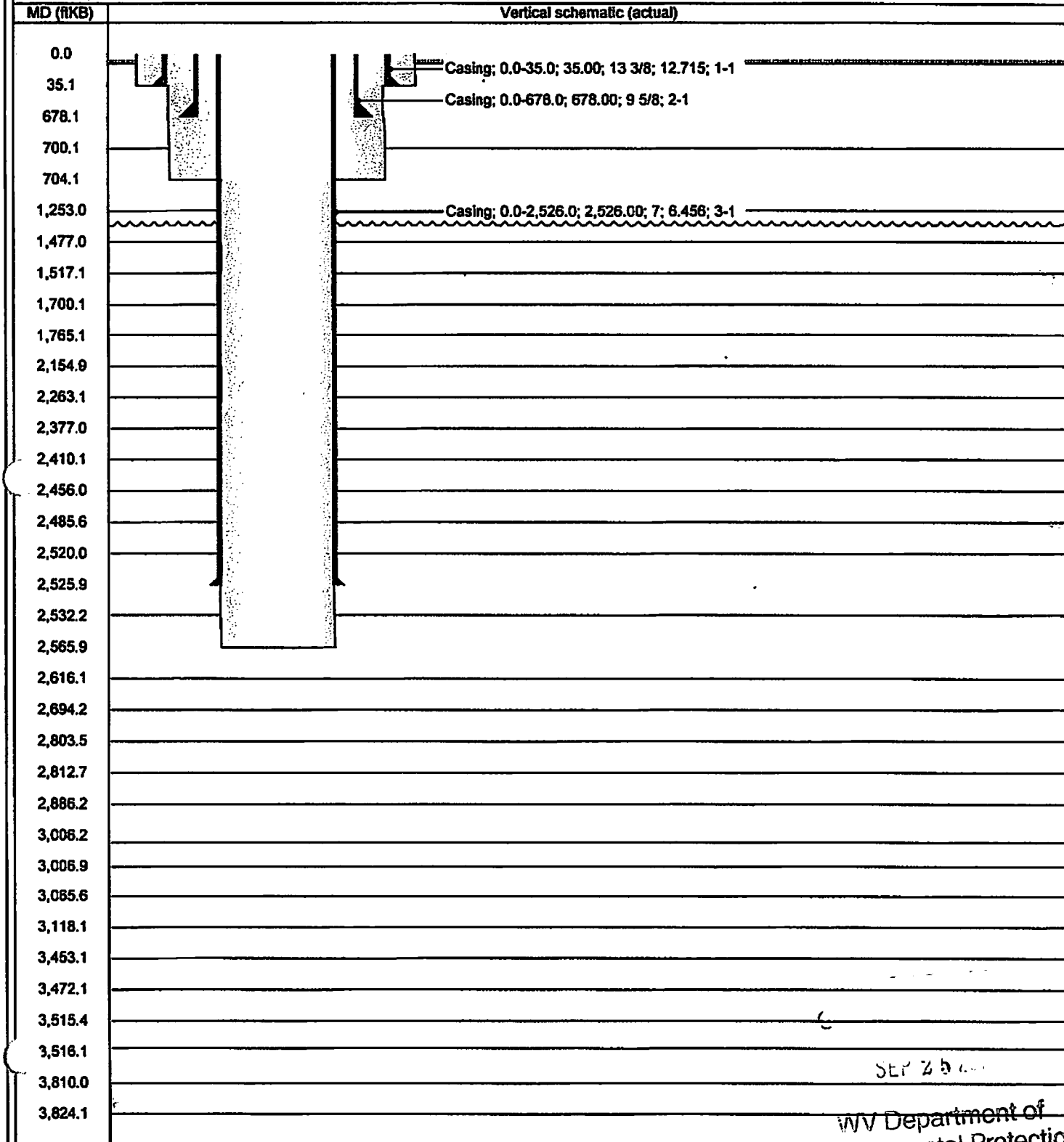
Schematic - Current

Well Name: 507491 WV-507491 (MAL4H1)

API 4710903032	Energy Well Number 507491	PUD Name & Number MAL4H1	Permit Number 4710903032	Permit Date 5/21/2008	Farm Name (WV)	Operator Equitable Production Company	State WV
KB Elev (ft) 1,357.00	Spud Date 11/4/2008	Planned Well Geometry	Well Type Conventional	Loc Stat from LHM Spud	Area	County Wyoming	Quad

Most Recent Job		Job Category Completion/Workover	Primary Job Type Completion	Secondary Job Type	Start Date 3/16/2009	End Date 10/6/2009
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TD: 2,566.0 Horizontal - Original Hole, 7/8/2014 7:02:53 AM



SEP 25 2014



Historical Well Chronology

Well Name: 507491 WV-507491 (MAL4H1)

AP#	Energy Well #	PUC Name & #	Permit Number	Permit Date	Prod Resp Party	Farm Name (WV)	Operator	State
710903032	507491	MAL4H1	4710903032	5/21/2008			Equitable Production Company	WV
J KB Elev.	Spud Date	Planned Well Geometry	Well Type	Loc Stat from LM	Area	County	Quad	
1,357.00	11/4/2008		Conventional	Spud		Wyoming		

Job Category: Drilling, Job Start Date: 11/1/2008

Job Category	AFE Number	Start Date	Date TD Reached (wellbore)	Target Depth (ftKB)	Total AFE Amount (Cost)
Drilling	2175074911A	11/1/2008			811,488.00

Report #: 1.0 DFS: -3.46 Rigs: Gasco, Gasco 4 Job Category: Drilling

Report End Date	Operations at Report Time	Last Casing String				
11/1/2008 06:00						
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
4,849.00	4,849.00	0.0	0.0			

Operations Summary
AM Status: Gasfield MIRU. On 10/31 Rebuilding loc w/Gas Field.

Report #: 2.0 DFS: -2.46 Rigs: Gasco, Gasco 4 Job Category: Drilling

Report End Date	Operations at Report Time	Last Casing String				
11/2/2008 06:00						
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
4,848.00	9,697.00	0.0	0.0			

Operations Summary
AM Status: Gasfield bldg location. On 11/1: Gasfield MI, preseeded location.

Report #: 3.0 DFS: -0.46 Rigs: Gasco, Gasco 4 Job Category: Drilling

Report End Date	Operations at Report Time	Last Casing String				
11/4/2008 06:00		Conductor, 35.0ftKB				
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
6,339.00	16,036.00	0.0	0.0			

Operations Summary
AM Status: Cont to re-build loc w/Gas Field. On 11/03: Re-building loc w/Gas Field. Pre-seed 1 ac with .25 ton of lime w/Massie.

Report #: 4.0 DFS: 0.54 Rigs: Gasco, Gasco 4 Job Category: Drilling

Report End Date	Operations at Report Time	Last Casing String				
11/5/2008 06:00	MIRU	Surface, 678.0ftKB				
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
4,735.00	20,771.00	0.0	0.0			

Operations Summary
AM Status: Cont to build loc w/Gas Field. Drilling ahead with 12-3/8" hammer bit @ 600'(wet with 5" stream of water from 430'). On 11-4-08: MIRU. N/U 16-1/4" hammer bit. Spud @ 5:00 PM on 11/4/08. **Set 35' of 13-3/8" conductor, N/U 12-3/8" hammer bit. Drilled from 35' to 430'. Went wet with 5" stream of water.** Soaped hole. Drilled from 430' to 600'. 12' of freeboard in pit. EQT-Chris Carter
On 11/4 Hauled 74.73 ton of stone w/Boxley. Building loc w/Gas Field.

Report #: 5.0 DFS: 1.54 Rigs: Gasco, Gasco 4 Job Category: Drilling

Report End Date	Operations at Report Time	Last Casing String				
11/6/2008 06:00	SD	Surface, 678.0ftKB				
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
32,507.40	53,278.40	0.0	0.0			

Operations Summary
AM Status: Shut Down for the weekend. On 11-5-08: Drilled from 600' to 704'. Cleaned hole. TOOH. **Ran 16 joints = 670.4' of 9-5/8", R3, 32.2#/ft. LS, 8md casing set @ 678' KB. Ran 4 centralizers on joint #'s 7,9,12,14. Ran 1 Basket on joint # 7 set @ 385'. R/U Halliburton and pumped 19 bbls H2O, 30 bbls gel, 10 bbls H2O, 230sx of NE surf 204 @ (14.7ppg, 1.41 yield), dropped plug, 53.4 bbls H2O. Did not circulate anything. Grouted backside with 71 sacks of Standard class A cement @ (15.6ppg, 1.18yield) Plug was down @ 2:10PM.WOC. N/U 8-7/8" Hammer bit. Drilled out cement and plug. Dried hole. Drilled from 704' to 1200'. 9' of freeboard in pit. EQT-Chris Carter**

Report #: 6.0 DFS: 2.54 Rigs: Gasco, Gasco 4 Job Category: Drilling

Report End Date	Operations at Report Time	Last Casing String				
11/7/2008 06:00	SD	Surface, 678.0ftKB				
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
	53,278.40	0.0	0.0			

Operations Summary
AM Status: SD. On 11/6: SD for weekend.

Report #: 7.0 DFS: 5.54 Rigs: Gasco, Gasco 4 Job Category: Drilling

Report End Date	Operations at Report Time	Last Casing String				
11/10/2008 06:00	02 - Drilling	Intermediate, 2,520.0ftKB				
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts
	53,278.40	0.0	0.0			

Operations Summary
AM Status: Drilling ahead with 8-7/8" hammer bit @ 2110'. On 11/9/08: Rig started back @ 7:00PM. Drilled from 1200' to 2110' (dusting). 10' of freeboard in pit. EQT-Chris Carter

Office of Oil and Gas
SEP 25 2014
WV Department of Environmental Protection



Historical Well Chronology

Well Name: 507491 WV-507491 (MAL4H1)

API #	Enertia Well #	FUD Name & #	Permit Number	Permit Date	Prod Resp Party	Farm Name (WV)	Operator	State
710903032	507491	MAL4H1	4710903032	5/21/2008			Equitable Production Company	WV
J KB Elev.	Spud Date	Planned Well Geometry	Well Type	Loc Stat from LM	Area	County	Quad	
1,357.00	11/4/2008		Conventional	Spud		Wyoming		

Report #: 8.0	DFS: 6.54	Rigs: Gasco, Gasco 4	Job Category: Drilling
Report End Date	Operations at Report Time		Last Casing String
11/11/2008 06:00	02 - Drilling		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
77,420.42	130,698.82	0.0	0.0
Drill Hrs (hr) Avg ROP (ft/hr) Daily Contacts 0.0 0.0			
Operations Summary AM Status: Drying the hole up with 6-3/8" hammer bit On 11/10/08: Drilled from 2110' to 2566' (dusting). Gas check @ 2566' = N/S. Cleaned hole. TOOH. Ran 58 joints = 2517.9' of 7".20#/ft. R3. LS. 8rnd casing set @ 2526'KB. Ran 6 centralizers on joint # 1, 12, 24, 37, 47, 56. Ran 1 basket on joint # 56 set @ 95'. R/U Halliburton and pumped 40 bbls H2O. 30 bbls gel. 40bbls H2O. 190 sacks of MidApp223 @ (12 ppg, 2.44 yield). 75 sacks of Standard class A cement @ (15.6ppg, 1.18 yield). Dropped Plug. 102 bbls H2O. Circulated 8 bbls of cement to surface back into the pit. Plug down @ 5:45PM .WOC. N/U 6-3/8" hammer bit. TIH. Drilled out cement and plug. 9' of freeboard in pit. EQT-Chris Carter			

Report #: 9.0	DFS: 7.54	Rigs: Gasco, Gasco 4	Job Category: Drilling
Report End Date	Operations at Report Time		Last Casing String
11/12/2008 06:00	RDMO		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
6,736.80	137,435.62	0.0	0.0
Drill Hrs (hr) Avg ROP (ft/hr) Daily Contacts 0.0 0.0			
Operations Summary AM Status: Moving off 507491 On 11/11/08: Drilled from 2566' to 3480' Bit down. TOOH. N/U 6-1/4" hammer bit. TIH. Drilled from 3480' to 4010'(dusting). Gas checks @ 2944' = trace, 3168' = trace, 3579' = trace, 4010' = trace. Cleaned hole. TOOH. RDMO. 8' of freeboard in pit. EQT- Chris Carter			

Report #: 10.0	DFS: 93.54	Rigs: Gasco, Gasco 4	Job Category: Drilling
Report End Date	Operations at Report Time		Last Casing String
2/6/2009 06:00	MIRU		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
	137,435.62	0.0	0.0
Drill Hrs (hr) Avg ROP (ft/hr) Daily Contacts 0.0 0.0			
Operations Summary MIRU Highlands #4.			

Report #: 11.0	DFS: 94.54	Rigs: Gasco, Gasco 4	Job Category: Drilling
Report End Date	Operations at Report Time		Last Casing String
2/7/2009 06:00	21 - Other		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
52,900.00	190,335.62	0.0	0.0
Drill Hrs (hr) Avg ROP (ft/hr) Daily Contacts 0.0 0.0			
Operations Summary AM status: Setting w/c @ 3695'. On 2/6, rigged down, changed out hoist cylinder on rig and moved from well# 511745 to well# 507491. Rigged up on new end, racked DP, picked up motor set @ 1.83° and started TIH. Freeboard - 9'. Kelly Dunbar			

Report #: 12.0	DFS: 95.54	Rigs: Gasco, Gasco 4	Job Category: Drilling
Report End Date	Operations at Report Time		Last Casing String
2/8/2009 06:00	02 - Drilling		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
30,741.00	221,076.62	0.0	0.0
Drill Hrs (hr) Avg ROP (ft/hr) Daily Contacts 0.0 0.0			
Operations Summary AM status: dusting curve w/motor. On 2/7, TIH broke circ 90' off bottom, unloaded large amount of H2O. Circ way to bottom, mixed soap 2.5gal soap, 1gal Stable 900, 1gal Sta Clear 120, broke circ with foam @ injection rate of 12-15gpm. Drilled 3jts, sent 10gal soap/5gal water slug around and proceeded to drill with air only. Started puffing dust 15' down on first kelly. Continued drilling and had very good dust on the next jt. Proceeded dusting curve, motor output 9-10.5"/100'. Drgl parameters: Rotating: WOB - 5-10K, Torque - 1-2K, ROP - 30-150'/hr, SPP - 450-460psi, air flow - 2050cfm. Sliding WOB -5-10K. Freeboard - 6'. Kelly Dunbar Note: 1hr Repair hyd hose on rig			

Report #: 13.0	DFS: 96.54	Rigs: Gasco, Gasco 4	Job Category: Drilling
Report End Date	Operations at Report Time		Last Casing String
2/9/2009 06:00	02 - Drilling		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
30,800.00	251,876.62	0.0	0.0
Drill Hrs (hr) Avg ROP (ft/hr) Daily Contacts 0.0 0.0			
Operations Summary AM status: dusting horizontal w/motor. On 2/8, dusted curve, motor started putting out 13° DL around 65° and then 15's @ 75°. Landed curve @ 4619'(1' high)/91°. Hole wanting to build and having trouble knocking the angle down. Seven foot slides ineffective. Gas check @ 4600' = 21K. Drgl parameters: Rotating - WOB 8-12K, ROP - 25-100'/hr, Torque - 3K, SPP - 470-500psi, air volume - 2100cfm. Sliding - WOB - 15-20K, ROP - 25-60'/hr, SPP - 470-500psi. Freeboard - 6'. Kelly Dunbar			

Office of Oil and Gas
SEP 25 2014
WV Department of
Environmental Protection

10903032P



Historical Well Chronology

Well Name: 507491 WV-507491 (MAL4H1)

AP#	Energy Well #	PUD Name & #	Permit Number	Permit Date	Prod Resp Party	Farm Name (WV)	Operator	State
10903032	507491	MAL4H1	4710903032	5/21/2008			Equitable Production Company	WV
JKB Elev.	Spud Date	Planned Well Geometry	Well Type	Loc Stat from LM	Area	County	Quad	
1,357.00	11/4/2008		Conventional	Spud		Wyoming		

Report #: 14.0 DFS: 97.54 Rigs: Gasco, Gasco 4 Job Category: Drilling

Report End Date	Operations at Report Time			Last Casing String			
2/10/2009 06:00	08 - Repair Rig			Intermediate, 2,526.0ftKB			
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
30,127.00	262,003.62	0.0	0.0				

Operations Summary
 AM status: repairing hoist cylinder on rig. On 2/9, dusted horizontal to 5204', air pressure instantly started climbing while rotating, ROP went from 43 to 100'/hr and torque increased by 3K mudlogger said we had a gas show of 1500 units. Had no returns and very faint circ. Air pressure up to 840psi, circ 4jts out of hole and pulled very tight and lost all circ. Worked the majority of the day to get string free, circ one jt at a time. String finally came free at 45". Circ 5 more jts to be safe, still no circ and pulled up to the bottom of the curve with boost and dead pull. Put air on the hole again and couldn't get motor to run, air psi up to 650psi, and still no circ. Continued to TOH with boost and no rotation. Hoist cylinder started leaking, tried to continue out of the hole, pulled 15 more jts and leak got significantly worse. Chris called the shop and they wanted to shut down and fix it now. Freeboard - 6'. Hauled 19.17 tons of stone w/Pattersons. Kelly Dunbar

Note: 10hrs Repair/weld hoist cylinder on rig

Report #: 15.0 DFS: 98.54 Rigs: Gasco, Gasco 4 Job Category: Drilling

Report End Date	Operations at Report Time			Last Casing String			
2/11/2009 06:00	21 - Other			Intermediate, 2,526.0ftKB			
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
30,714.00	312,717.62	0.0	0.0				

Operations Summary
 AM status: unloading H2O from hole. On 2/10, finished repairing hoist cylinder, total down time-19hrs. TOH and motor tested fine at surface. inspected and broke down all directional tools, everything checked out fine. Picked up new motor and a good RR bit. started TIH, rabbiting every jt. TIH to 4504', tried to break circ, pressured up and had no circ back to surface. checked all surface equipment. Pulled 25jts, tried again, still no circ. Pulled steering tool and an additional 20 jts, put air on hole @ 3026'. Pressured up to 580psi and started unloading large amounts of salt water. Allowed hole to unload, pressure slowly decreasing after 40min of circulation. Mixing foam recipe @ 3gal StaFoam D, 1.5gal Stable 900, 1.5gal StaClear120/10bbl H2O. And preparing to stage in the hole with foam returns. Freeboard - 6'. Kelly Dunbar

Note: 9hrs Repair/weld hoist cylinder on rig

Report #: 16.0 DFS: 99.54 Rigs: Gasco, Gasco 4 Job Category: Drilling

Report End Date	Operations at Report Time			Last Casing String			
2/12/2009 06:00	21 - Other			Intermediate, 2,526.0ftKB			
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
30,572.00	343,289.62	0.0	0.0				

Operations Summary
 AM status: Strapping in hole to set Baker inflatable packer. On 2/11, tried to stage into hole with foam, hole making too much fluid, diluting foam. Orders to TOH, lay down directional tools, release wireline and directional personnel (Navigator charged only standby). Decided to complete the hole as a vertical. Ordered M-65, 9.5# csg, baffles, float shoe, latch down collar and plug. Ordered inflatable packer from Baker Oil Tools to seal off bottom of hole @ 4010'. Waited on packer until 12AM on the 12th. Fishing hand advised that we run in hole with wireline to pinpoint top of fluid. Setting pressure of packer is 2400psi and over pressure on the packer element is 3500psi. Therefore it is crucial to know the hydrastatic pressure on the backside that needs to be overcome, to prevent damage to the packer element. Ran in hole with Navigator wireline hot with bare wires and established top of fluid @ 1930'. Pulled wireline back out of hole, made up packer and began strapping in hole. -Kelly Dunbar

Report #: 17.0 DFS: 100.54 Rigs: Gasco, Gasco 4 Job Category: Drilling

Report End Date	Operations at Report Time			Last Casing String			
2/13/2009 06:00	06 - Trips			Intermediate, 2,526.0ftKB			
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
11,887.00	355,176.62	0.0	0.0				

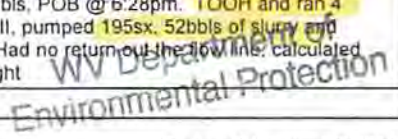
Operations Summary
 AM Status : TOOH. On 2/12 TIH to set Backer inflatable packer. Pumped w/BJ Services, pumped 20bbls over displacement and the packer would not set. TOOH to check the packer and bottom shive on the block went down. Repaired shive and continued to TOOH. Inflatable packer still in the hole, TBIH to see were the packer is or if it set. Ran DP to 30 degrees in the curve and never tagged the packer. TOOH. Free board - 6'. Rob Wright

Note: 10.5hrs Repaired bottom shive on the block

Report #: 18.0 DFS: 101.54 Rigs: Gasco, Gasco 4 Job Category: Drilling

Report End Date	Operations at Report Time			Last Casing String			
2/14/2009 06:00	21 - Other			Intermediate, 2,526.0ftKB			
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)	Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
93,167.00	448,343.62	0.0	0.0				

Operations Summary
 AM Status : Waiting on wireline truck to run a CCL and Bon Log. On 2/13 Finished TOOH and had to work on the 7". Top of the casing was damaged and had trouble getting the collar on. There is still 1/2" of threads on the 7". I will schedule a welder to out to the location to weld the collar on the 7". TIH to 1700' and put air on the hole to find where the H2O was, at 1800' had a return of H2O, weight of the fluid in the hole was 9 lbs. TIH to 4211' and set a cement plug w/BJ Services. Cemented w/Surflite II, pumped 1/2bbl ahead and 4.2bbls of slurry at 14.2 then chased it with 15.2bbls. POB @ 6:28pm. TOOH and ran 4 1/2" casing, ran 3984' of casing. Set 2 baffles, 1st baffle @ 3857' and the 2nd baffle @ 2887'. Cemented w/Surflite II, pumped 195sx. 52bbls of slurry and needed 65bbls to displace and land the plug, displaced 70bbls and never landed the plug. Shut down @ 4:35am. Had no return out the flow line, calculated 845psi of differential pressure and only got to 40psi. Called out Meeks to log the hole. Free board - 5'. Rob Wright



10903032P



Historical Well Chronology

Well Name: 507491 WV-507491 (MAL4H1)

API #	Enertia Well #	PLUD Name & #	Permit Number	Permit Date	Prod Resp Party	Farm Name (WV)	Operator	State
710903032	507491	MAL4H1	4710903032	5/21/2008			Equitable Production Company	WV
KB Elev.	Spud Date	Planned Well Geometry	Well Type	Loc Stat from LM	Area	County	Quad	
1,357.00	11/4/2008		Conventional	Spud		Wyoming		

Report #: 19.0	DFS: 102.54	Rigs: Gasco, Gasco 4	Job Category: Drilling
Report End Date	Operations at Report Time		Last Casing String
2/15/2009 06:00	12 - Run Casing & Cement		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
24,922.00	473,265.62	0.0	0.0
Operations Summary AM Status : Waiting on a guide shoe and casing. On 2/14 Meeks wireline truck showed up @ 10:30am. Ran wireline in the hole to find the plug tagged bottom @ 3998'. Ran a Bon Log and Collar locator. There was no show of Cement on the backside of the casing, w/Logging tools only showed to 3984'. Called out a pump truck to try to circulate the hole. Rigged up to circulate w/BJ Services. Pumped 2.5bbls and pressured up to 1315lbs and held. Rigged BJ down and the 4 1/2" casing was holding fluid. Pulled casing w/elevators and used power tongs, pulled 54K off bottom with no drag. Damaged 8jts coming out of the hole. Latch down plug was in the casing where it was supposed to be. Waiting on a guide shoe to TBH. Free board - 5'. Rob Wright			

Report #: 20.0	DFS: 103.54	Rigs: <Rig?>	Job Category: Drilling
Report End Date	Operations at Report Time		Last Casing String
2/16/2009 06:00	RDMO		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
18,804.00	492,069.62	0.0	0.0
Operations Summary AM Status : De-Mobilizing Drig Rig, moving to well # 511953. On 2/15, while waiting on guide shoe and casing, the decision was made to run DP back to bottom and load the hole w/H2O and see if we could break circulation. Loaded the hole w/BJ Services, pumped 215 bbls of H2O and never broke circulation. TOOH, capped well and started Rigging down to move to the next location. Free board - 5'. Rob Wright			

Report #: 21.0	DFS: 113.54	Rigs: <Rig?>	Job Category: Drilling
Report End Date	Operations at Report Time		Last Casing String
2/26/2009 06:00			Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
568.00	492,637.62	0.0	0.0
Operations Summary AM Status: Cont to work loc w/Gas Field. On 2/25 Digging out around well w/Gas Field.			

Job Category: Completion/Workover, Job Start Date: 3/16/2009					
Job Category	AFE Number	Start Date	Date TD Reached (wellbore)	Target Depth (ftKB)	Total AFE Amount (Cost)
Completion/Workover	2175074911A	3/16/2009			704,752.00
Summary					

Report #: 1.0	DFS: 132.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
3/17/2009 06:00	Reclamation		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
384.00	384.00	0.0	0.0
Operations Summary AM Status: Move off site w/Gas Field. On 3/16 Reconstruct fence w/Gas Field.			

Report #: 2.0	DFS: 290.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
8/22/2009 06:00	Reclamation		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
1,500.00	1,884.00	0.0	0.0
Operations Summary On 8/21 Treated pit w/Elite.			

Report #: 3.0	DFS: 293.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
8/25/2009 06:00	Reclamation		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
	1,884.00	0.0	0.0
Operations Summary On 8/24 Discharged pit w/Elite.			

Report #: 4.0	DFS: 315.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
9/16/2009 06:00	Reclamation		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
	1,884.00	0.0	0.0
Operations Summary ON 9/16/2009 MI Ferguson, begin reclamation.			

109 03032 P



Historical Well Chronology

Where energy needs locations

Well Name: 507491 WV-507491 (MAL4H1)

API #	Energy Well #	PLD Name & #	Permit Number	Permit Date	Prod Resp Party	Farm Name (WV)	Operator	State
710903032	507491	MAL4H1	4710903032	5/21/2008			Equitable Production Company	WV
g KB Elev...	Spud Date	Planned Well Geometry	Well Type	Loc Start from LM	Area	County	Quad	
1,357.00	11/4/2008		Conventional	Spud		Wyoming		

Report #: 6.0	DFS: 316.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
9/17/2009 06:00	Reclamation		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
1,829.00	3,713.00	0.0	0.0
Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
0.0	0.0		
Operations Summary			
AM Status: Reclaiming w/Ferguson. On 9/16: MI Ferguson, began reclamation.			

Report #: 6.0	DFS: 317.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
9/18/2009 06:00	Reclamation		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
1,690.00	5,403.00	0.0	0.0
Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
0.0	0.0		
Operations Summary			
AM Status: Ferguson reclaiming. On 9/17: Ferguson reclaimed site.			

Report #: 7.0	DFS: 318.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
9/19/2009 06:00	Reclamation		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
1,700.00	7,103.00	0.0	0.0
Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
0.0	0.0		
Operations Summary			
AM Status: Ferguson reclaiming. On 9/18: Ferguson reclaimed location.			

Report #: 8.0	DFS: 319.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
9/20/2009 06:00	Idle		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
	7,103.00	0.0	0.0
Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
0.0	0.0		
Operations Summary			
AM Status: Ferguson idle. On 9/19: Ferguson idle.			

Report #: 9.0	DFS: 320.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
9/21/2009 06:00	Reclamation		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
	7,103.00	0.0	0.0
Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
0.0	0.0		
Operations Summary			
AM Status: Ferguson reclaiming. On 9/20: Ferguson idle.			

Report #: 10.0	DFS: 321.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
9/22/2009 06:00	Reclamation		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
1,700.00	8,803.00	0.0	0.0
Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
0.0	0.0		
Operations Summary			
AM Status: Ferguson reclaiming. On 9/21: Ferguson reclaimed location.			

Report #: 11.0	DFS: 322.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
9/23/2009 06:00	Reclamation		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
1,700.00	10,503.00	0.0	0.0
Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
0.0	0.0		
Operations Summary			
AM Status: Ferguson reclaiming. On 9/22: Ferguson reclaimed site.			

Report #: 12.0	DFS: 323.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
9/24/2009 06:00	Reclamation		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
1,700.00	12,203.00	0.0	0.0
Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
0.0	0.0		
Operations Summary			
AM Status: Ferguson reclaiming. On 9/23: Ferguson reclaimed location.			

Report #: 13.0	DFS: 324.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date	Operations at Report Time		Last Casing String
9/25/2009 06:00	Reclamation		Intermediate, 2,526.0ftKB
Day Total (Cost)	Cum To Date (Cost)	Start Depth (ftKB)	End Depth (ftKB)
1,700.00	13,903.00	0.0	0.0
Drill Hrs (hr)	Avg ROP (ft/hr)	Daily Contacts	
0.0	0.0		
Operations Summary			
AM Status: Ferguson reclaiming. On 9/24: Ferguson reclaimed location.			



Historical Well Chronology

Well Name: 507491 WV-507491 (MAL4H1)

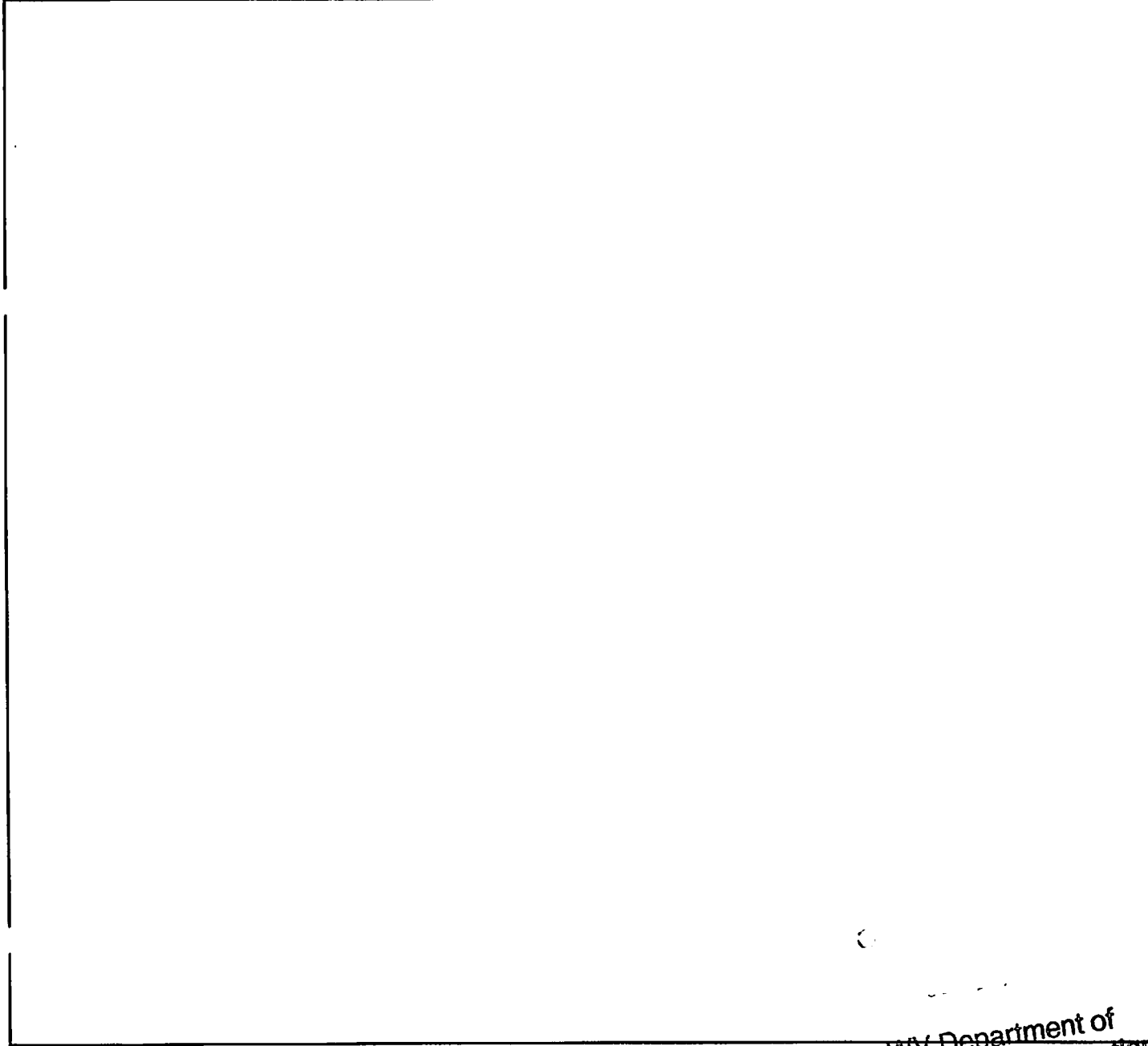
API 4710903032	Energy Well # 507491	PUD Name & # MAL4H1	Permit Number 4710903032	Permit Date 5/21/2008	Prod Resp Party	Farm Name (WV)	Operator Equitable Production Company	State WV
J KB Elev... 1,357.00	Spud Date 11/4/2008	Planned Well Geometry	Well Type Conventional	Loc Stat from LM Spud	Area	County Wyoming	Quad	

Report #: 14.0	DFS: 325.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date 9/28/2009 06:00	Operations at Report Time		Last Casing String Intermediate, 2,526.0ftKB
Day Total (Cost) 1,700.00	Cum To Date (Cost) 15,603.00	Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0
		Drill Hrs (hr)	Avg ROP (ft/hr)
Daily Contacts			

Operations Summary
AM Status: Reclamation finished. On 9/25: Ferguson mulched, finished reclamation.

Report #: 15.0	DFS: 335.54	Rigs: <Rig?>	Job Category: Completion/Workover
Report End Date 10/8/2009 06:00	Operations at Report Time Reclamation		Last Casing String Intermediate, 2,526.0ftKB
Day Total (Cost) 2,615.00	Cum To Date (Cost) 18,218.00	Start Depth (ftKB) 0.0	End Depth (ftKB) 0.0
		Drill Hrs (hr)	Avg ROP (ft/hr)
Daily Contacts			

Operations Summary
AM Status: Ferguson mulching. On 10/5: Ferguson mulched site.



10903032P



Completion Daily Operations Date: 10/6/2009, Report #: 15.0, DFS: 335.54

Well Name: 507491 WV-507491 (MAL4H1)

Job Type: Completion

API 4710903032	Energy Well Number 507491	PUD Name & Number MAL4H1	Permit Number 4710903032	Permit Date 5/21/2008	Farm Name (WV)	Operator Equitable Production Company	State WV
KB Elev (ft) 1,357.00	Spud Date 11/4/2008	Planned Well Geometry	Well Type Conventional	Loc Stat from LM Spud	Area	County Wyoming	Quad

Job: Completion/Workover, Job Start Date: 3/16/2009 00:00

Job Category Completion/Workover	Primary Job Type Completion	Start Date 3/16/2009 00:00	End Date 10/6/2009 08:00	Spud Date 11/4/2008 17:00	Summary
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Phase Type 1	Phase Type 2	Actual Start Date	Actual End Date
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Daily Operations Data From: 10/5/2009 08:00 - Date To: 10/6/2009 06:00

Send Report?

Report Start Date 10/5/2009 08:00	Report End Date 10/6/2009 08:00	Status at Reporting Time	Last Phase
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Operations at Report Time Reclamation	Freeboard
Weather	Road Condition

Operations Summary
AM Status: Ferguson mulching. On 10/5; Ferguson mulched site.

Remarks

Operations Next Report Period

Operations Summary Extension

Comment

Carry forward?	Company	Job Contact	Position	Mobile	Office
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Time Log

Start Time	End Time	Dur (hr)	Cum Dur (hr)	Code 1	Code 2	Com
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Fuel Consumption

Date	Supply Item Desc	Unit Label	Unit Sz	Vendor	Note	Consumed	Grouping
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Safety Checks

Date	Type	Days to Next Check (days)	Inspected By	Des	Result	Com
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SEP 20 2009
WV Department of Environmental Protection
11/21/2014



Other in Hole & Cement Plugs

Bridge Plugs, Retainers, Cement Plugs, etc.

Where necessary, specify formation.

Well Name: 507491 WV-507491 (MAL4H1)

API 4710903032	Energy Well Number 507491	PUID Name & Number MAL4H1	Permit Number 4710903032	Permit Date 5/21/2008	Farm Name (WV)	Operator Equitable Production Company	State WV
True KB Elev (ft) 1,357.00	Spud Date 11/4/2008	Planned Well Geometry	Well Type Conventional	Loc Stat from LM Spud	Area	County Wyoming	Quad

Other in Hole

Des	Run Date	Pull Date	Top (ftKB)	Botn (ftKB)	OD (in)	Com
Cmt Basket	11/10/2008		95.0	95.0		

Cement (filtered for Type=Plug)

Description	Type	String	Cementing Start Date	Cementing End Date	Wellbore

Cement Stages

Stage Number	Description	Top Depth (ftKB)	Top Depth (TVD) (ftKB)	Bottom Depth (ftKB)	Bottom Depth (TVD) (ftKB)

Cement Fluids

Fluid Type	Estimated Top (ftKB)	Est Botn (ftKB)	Cement Blend	Amount (sacks)	Yield (ft ³ /sack)	Volume Pumped (bbl)

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SEP 20 2014

10903032 P

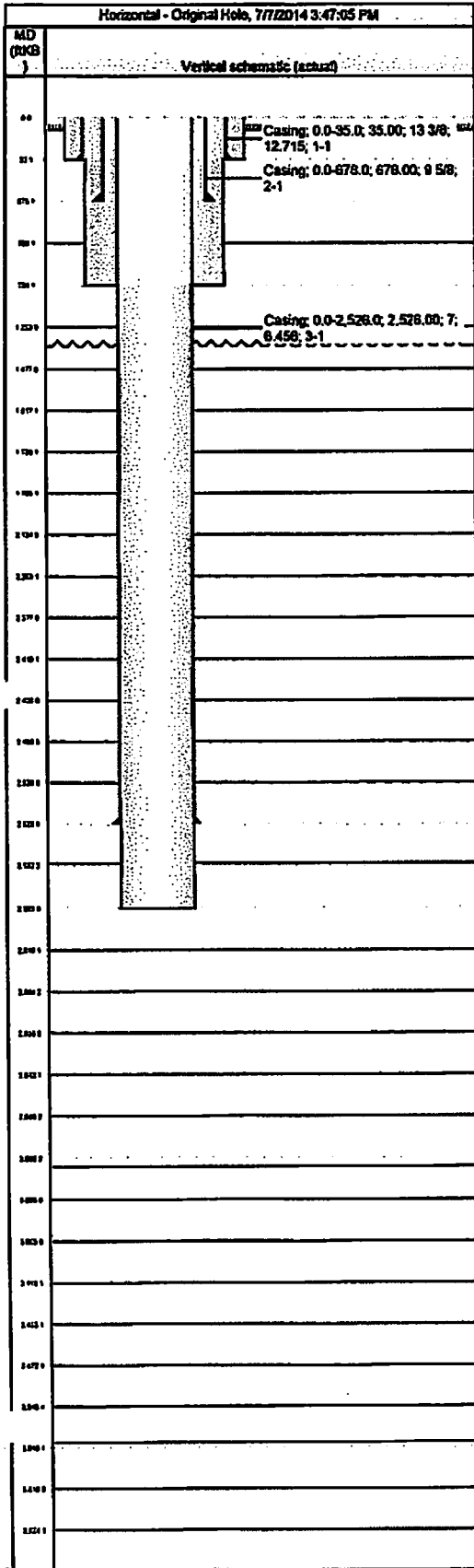


Casing, Liner and Cement report

Well Name: 507491 WV-507491 (MAL4H1)

Intermediate

API #	Enriba Well #	PUD Name & #	Permit Number	Permit Date	Prod Resp Party	Farm Name (WV)	Operator	State
710903032	507491	MAL4H1	4710903032	5/21/2008			Equitable Production Company	WV
g KB Elev...	Spud Date	Planned Well Geometry	Well Type	Loc Stat from LM	Area	County	Quad	
1,357.00	11/4/2008		Conventional	Spud		Wyoming		



Wellbore			
Wellbore Name	Profile Type	Kick Off Depth (ftKB)	Vertical Section Azimuth (°)
Original Hole			
Section Des	Size (in)	Act Top (ftKB)	Act Btm (ftKB)
Conductor	16 1/4	0.0	35.0
Surface	12 3/8	35.0	704.0
Intermediate	6 3/8	704.0	2,566.0

Wellhead				
Wellhead Type				
Des	Make	Model	SN	WP Top (psi)

Last Mud Check							
Date	Type	Depth (ftKB)	Dens (lb/gal)	Va (s/cf)	Gel (10s) (lb/100ft³)	Gel (10m) (lb/100ft³)	YP CR (cp) (lb/100ft³)

Casing									
Casing Description				Run Date	Set Depth (ftKB)	Wellbore			
Intermediate				11/10/2008 00:00	2,526.0	Original Hole			
Centrifugers					Scratchers				
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Len (ft)	Top (ftKB)	Btm (ftKB)	
58	Casing	7	6.456	20.00	LS	2,526.00	0.00	2,526.00	

Cement: Intermediate		
Cementing Start Date	Cementing End Date	Wellbore
11/10/2008		Original Hole
Evaluation Method	Barrels Circulated	
Circulated		
Comment		

Cement Stage: Intermediate					
Top Depth (ftKB)	Bottom Depth (ftKB)	Fluid Return?	Vol Ceme... (bbl)	Top Plug?	Bottom Plug?
			8.0		
Q Pump In (bbl/min)	Q Pump Final (bbl/min)	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	Plug Bump Pressure (psi)	
Pipe Reciprocated?	Stroke (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)	
Tagged Depth (ftKB)	Tag Method	Depth Plug Drilled Out...	Drill Out Diameter (in)	Drill Out Date	

Cement Fluid: Intermediate					
Fluid Type	Fluid Description	Amount (s...)	Cnt Blend	Volume Pumped (bbl)	
Lead		190	mid-App	223	
Estimated Top (ftKB)	Est Btm (ftKB)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	
		2.44			
Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)		
12.00					

Cement Fluid Additives		
Add	Type	Conc

Cement Fluid: Intermediate					
Fluid Type	Fluid Description	Amount (s...)	Cnt Blend	Volume Pumped (bbl)	
Tail		75	A		
Estimated Top (ftKB)	Est Btm (ftKB)	Yield (ft³/sack)	Mix H2O Ratio (gal/sack)	Free Water (%)	
		1.18			
Density (lb/gal)	Plastic Viscosity (cp)	Thickening Time (hr)	1st Compressive Strength (psi)		
15.80					

Cement Fluid Additives		
Add	Type	Conc

SEP 25 2014

WV Department of Environmental Protection
Report Form No. 47/7/2014

1) Date: September 23, 2014
2) Operator's Well Number
507491 (Ritter Lumber #7491)
3) API Well No.: 47 109 - 03032
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 Heartwood Forestland Fund IV LP
Address 19045 Stone Mountain Road
Abingdon, VA 24210
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Ross Eller
Address 121 Brierhill Drive
Beckley, WV 25801
Telephone 304-932-6844

5) (a) Coal Operator:
Name Dynamic Energy Inc.
Address Coal Mountain Road
Coal Mountain, WV 24823
(b) Coal Owner(s) with Declaration
Name Natural Resource Partners
5260 Irwin Road
Address Huntington, WV 25705
Name _____
Address _____
(c) Coal Lessee with Declaration
Name Dynamic Energy Inc.
Address Coal Mountain Road
Coal Mountain, WV 24823

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.



OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC By
Misty S Christels
1207 Briercliff Rd Address:
Bridgeport, WV 26330
My Commission Expires February 20, 2018 Telephone:

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

Subscribed and sworn before me this 23rd day of September, 2014
Misty S. Christels Notary Public
My Commission Expires: 2/20/18

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.

10903032 P

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

SENDER COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> 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, or on the front if space permits. 		A. Signature X <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: Dynamic Energy, Inc. Coal Mountain Road Coal Mountain, WV 24823 <small>Fig 507491</small>		B. Received by (Printed Name) _____ C. Date of Delivery _____ D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
2. Article Number <small>(Transfer from service label)</small>		3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery	
4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes		7014 1820 0001 2406 7526	
PS Form 3811, July 2013		Domestic Return Receipt	

PS Form 3800, July 2013

City, State _____
 Street, Rte. _____
 Sent to _____
 Coal Mountain, WV 24823
 Total Postage \$ _____
 Dynamic Energy, Inc.
 Coal Mountain Road
 Coal Mountain, WV 24823

Postmark Here

OFFICIAL USE

For delivery information, visit our website at www.usps.com

CERTIFIED MAIL® RECEIPT

Domestic Mail Only

7014 1820 0001 2406 7526



7014 1820 0001 2406 7526

usps
09/24/2014
US POSTAGE

RECEIVED
Office of the State Auditor
SEP 25 2014
ZIP 26330-
041410228392

WV Department of Environmental Protection
1/21/2014

10903032P

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> 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, or on the front if space permits. 	<p>A. Signature X <input type="checkbox"/> Agent <input 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>1. Article Addressed to:</p> <p>Natural Resource Partners 5260 Irwin Road Huntington, WV 25705</p> <p>Plug 507491</p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p> <p>7014 1820 0001 2406 7540</p>	
PS Form 3811, July 2013	Domestic Return Receipt

PS Form 3800, July 2014 See Reverse for Instructions

City, State, ZIP or PO Box No. Plug 507491

Street & Apt. No. 5260 Irwin Road

Sent to: Huntington, WV 25705

Total Postage \$

Natural Resource Partners

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

Postmark Here

OFFICIAL USE

For delivery information, visit our website at www.usps.com

CERTIFIED MAIL RECEIPT

U.S. Postal Service

Domestic Mail Only

Plug 507491

7014 1820 0001 2406 7540
7014 1820 0001 2406 7540



neopost
09/24/2014
US POSTAGE

RECEIVED
Office of Environmental Protection
SEP 25 2014

ZIP 26330
4151022888


\$97.82

FIRST CLASS MAIL

WV Department of Environmental Protection
11/21/2014

10903032A
EDI
 C/O Vicki Roark
 P.O. Box 280
 Bridgeport, WV 26330

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> 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, or on the front if space permits. 		A. Signature X <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: <div style="border: 1px solid black; padding: 5px;"> Heartwood Forestland Fund IV LP 19045 Stone Mountain Road Abingdon, VA 24210 </div>		B. Received by (Printed Name) _____ C. Date of Delivery _____ D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
2. Article Number (Transfer from service label)		3. Service Type <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Priority Mail Express™ <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> Collect on Delivery	
PS Form 3811, July 2013		4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
		7014 1820 0001 2406 7557	
Domestic Return Receipt			



7014 1820 0001 2406 7557
 7014 1820 0001 2406 7557

U.S. Postal Service
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only
 For delivery information, visit our website at www.usps.com
OFFICIAL USE

Postage	
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage	

Sent To: Heartwood Forestland Fund IV LP
 19045 Stone Mountain Road
 Abingdon, VA 24210
 Street & Apt. No. or PO Box No.
 City, State, ZIP
 PS Form 3800, July 2014
 PSN 507491

repost®
 09/24/2014
US POSTAGE
\$07.82
 FIRST-CLASS MAIL
 ZIP 26330
 041110228802

WV Department of
 Environmental Protection
 11/21/2014

10403032P

EQT

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

neopost
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FIRST-CLASS MAIL
\$01.82



ZIP 26330
041L10228892

SEP 25 2014

Ross Eller
121 Brierhill Drive
Beckley, WV 25801

PM 507491

WV Department of
Environmental Protection

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: Big Cub Creek Branch Quadrangle: Mallory
Elevation: 1340 ft County: Wyoming District: Clear Fork

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.? 40-ml 2 OML

Proposed Disposal Method for Treated Pit Wastes:
X 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 *Victoria Roark*

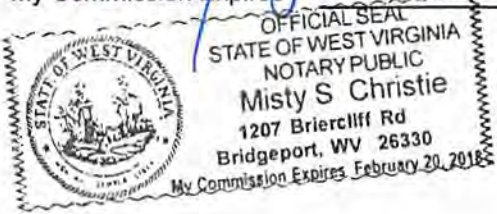
Company Official (Typed or Printed) Victoria Roark

Company Official Title Permitting Supervisor-WV

Subscribed and sworn before me this 23rd day of September, 2014

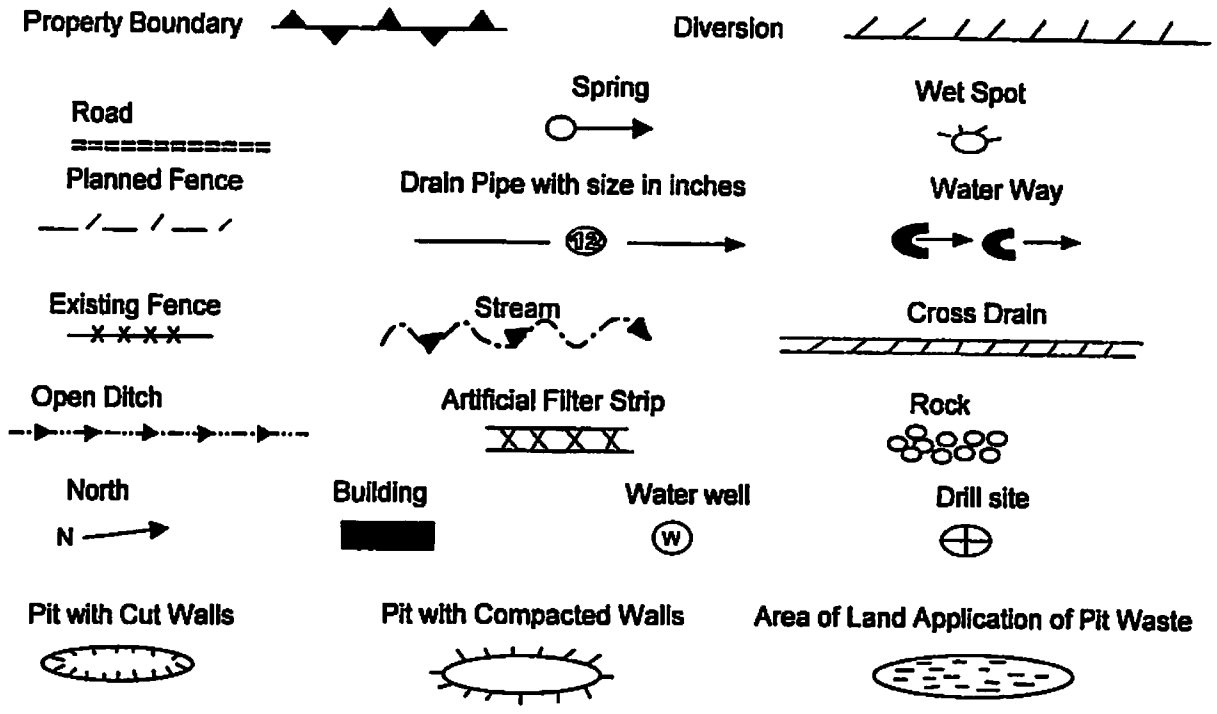
Misty S. Christie Notary Public

My Commission Expires 2/20/18



OPERATOR'S WELL NO.:
507491 (Ritter Lumber #7491)

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
Red Fescue	40	Red Fescue	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: *11/3/14*

Field Reviewed? Yes No

10903032 P

Topo Quad: Mallory 7.5'

Scale: 1" = 2000'

County: Wyoming

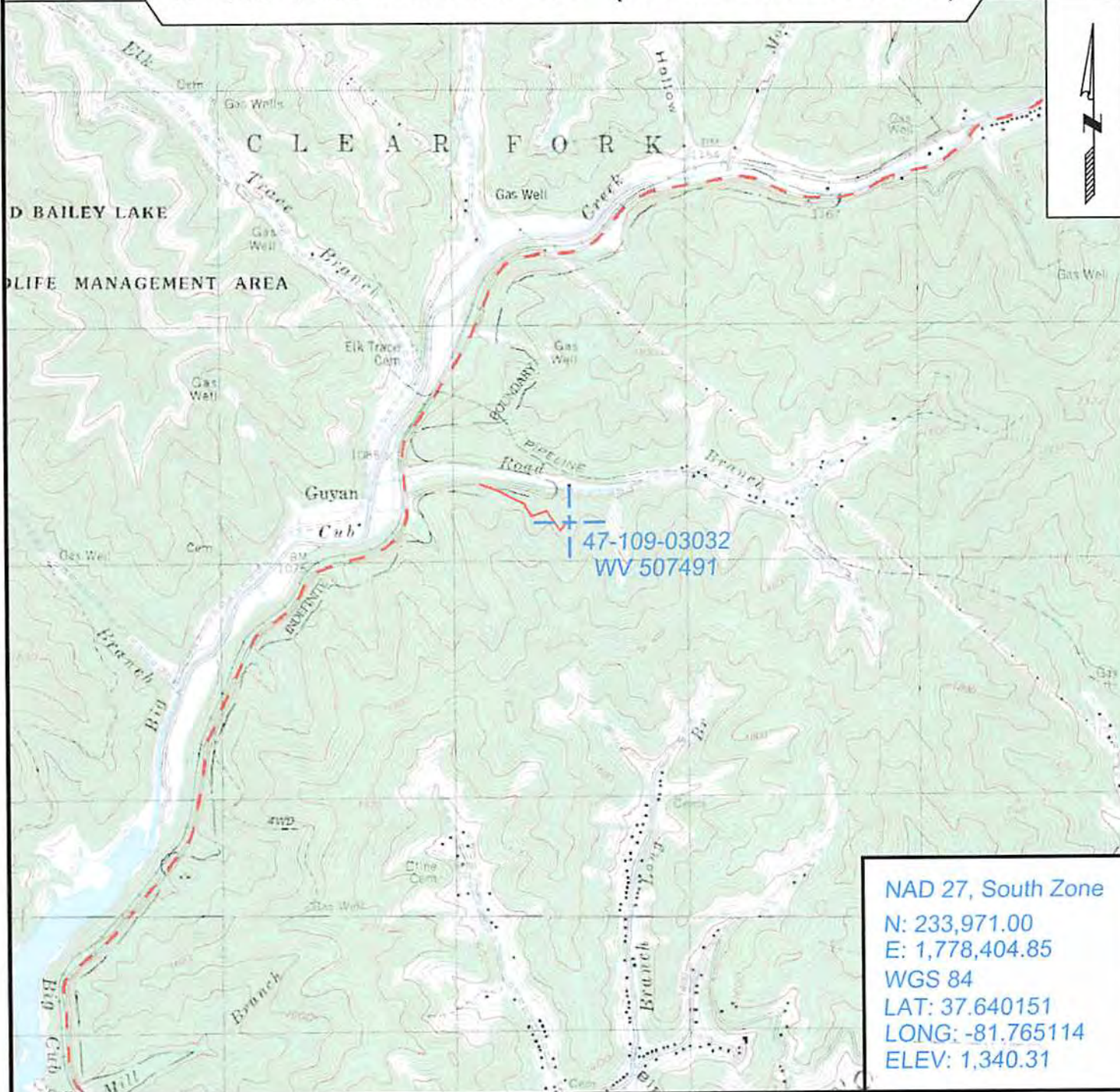
Date: May 5, 2014

District: Clear Fork

Project No: 22-22-00-08

47-109-03032 WV 507491 (Ritter Lumber #7491)

Topo



NAD 27, South Zone
 N: 233,971.00
 E: 1,778,404.85
 WGS 84
 LAT: 37.640151
 LONG: -81.765114
 ELEV: 1,340.31



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.
 1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:
EQT Production Company
 P.O. Box 280
 Bridgeport, WV 26330
 WV Department of Environmental Protection
 11/21/2014

WW-7
8-30-06



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

API: 47-109-03032 WELL NO.: WV 507491 (Ritter Lumber #7491)

FARM NAME: Heartwood Forestland Fund

RESPONSIBLE PARTY NAME: EQT Production Company

COUNTY: Wyoming DISTRICT: Clear Fork

QUADRANGLE: Mallory 7.5'

SURFACE OWNER: Heartwood Forestland Funds IV, LP

ROYALTY OWNER: Plum Creek Timberlands, LP, et al.

UTM GPS NORTHING: 4166166

UTM GPS EASTING: 432498 GPS ELEVATION: 408 m (1340 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:

- Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters.
- Accuracy to Datum – 3.05 meters
- Data Collection Method:
Survey grade GPS : Post Processed Differential
Real-Time Differential
Mapping Grade GPS : Post Processed Differential
Real-Time Differential
- Letter size copy of the topography map showing the well location.**

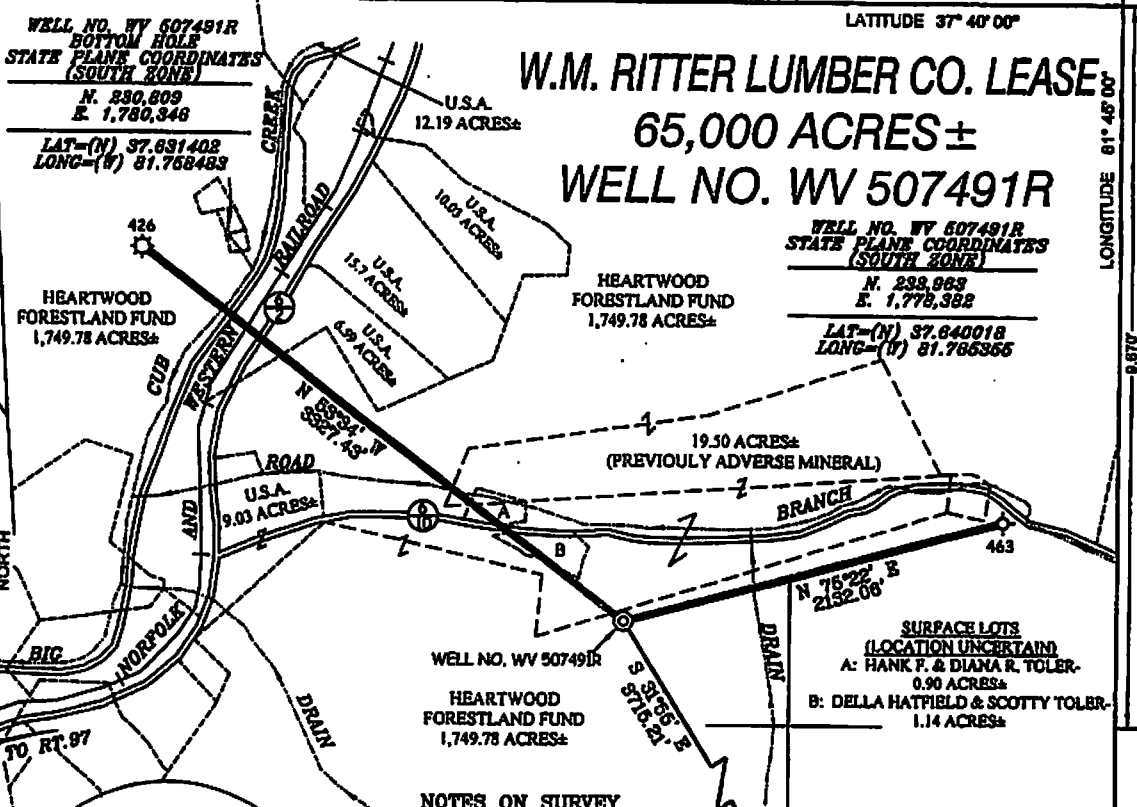
I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

Signature

PS # 2180
Title

5/7/14 SEP 25 2014
Date
WV Department of
Environmental Protection

11/21/2014



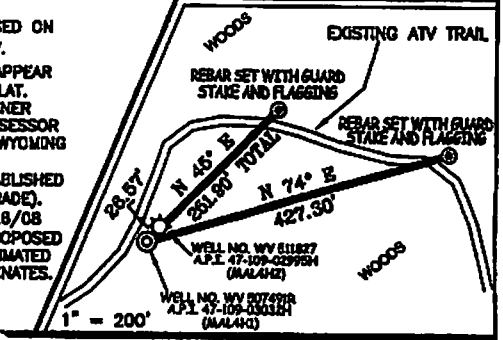
W.M. RITTER LUMBER CO. LEASE
65,000 ACRES ±
WELL NO. WV 507491R

WELL NO. WV 507491R
 BOTTOM HOLE
 STATE PLANE COORDINATES
 (SOUTH ZONE)
 N. 230,609
 E. 1,780,348
 LAT-(N) 37.631402
 LONG-(W) 81.768483

WELL NO. WV 507491R
 STATE PLANE COORDINATES
 (SOUTH ZONE)
 N. 233,963
 E. 1,778,382
 LAT-(N) 37.840018
 LONG-(W) 81.768355

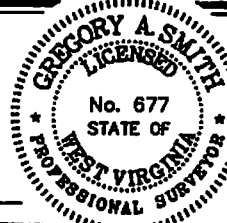
- NOTES ON SURVEY**
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM SOUTH ZONE NAD '27.
 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 11/28/07.
 3. LEASE BOUNDARY DOES NOT APPEAR WITHIN THE SCOPE OF THIS PLAT.
 4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF WYOMING COUNTY IN JULY, 2007.
 5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
 6. PLAT ORIGINALLY DATED 03/26/08 REVISED 09/28/08 TO CHANGE PROPOSED HORIZONTAL PATH DIRECTION, ESTIMATED DEPTH AND BOTTOM HOLE COORDINATES.

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 SEPTEMBER 28, 20 08
 OPERATORS WELL NO. WV 507491R
 API WELL NO. 47-109-03032H
 STATE WV COUNTY MALLORY PERMIT REVISED

MINIMUM DEGREE OF ACCURACY 1/2500 FILE NO. 3889P507491R (249-05)
 PROVEN SOURCE OF ELEVATION DGPS (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 1,347 WATERSHED ROAD BRANCH OF BIG CUB CREEK
 DISTRICT CLEAR FORK COUNTY WYOMING QUADRANGLE MALLORY 7.5'

SURFACE OWNER HEARTWOOD FORESTLAND FUND ACREAGE 1,749.78±
 ROYALTY OWNER PLUM CREEK TIMBERLANDS, L.P. LEASE ACREAGE 65,000±

PROPOSED WORK: LEASE NO. 004157
 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 LOWER HURON/SILTSTONE
 ESTIMATED DEPTH 4,750' (TOTAL VERTICAL DEPTH)

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

COUNTY NAME
 PERMIT

Environmental Protection
 11/2/2014
 Mallory 9



POTENTIAL WATER SAMPLE DATA SHEET

CLIENT: EQT PRODUCTION COMPANY
LEASE NAME AND WELL No. Ritter Lumber #7491 WV 507491 (47-109-03032)

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: 500' +/- Owner: Hank F. & Diana R. Toler
Address: PO Box 23, Coal Mountain, WV 24823 Phone No. _____
Comments:

Site: 2 Spacing: 440' +/- Owner: Della Hatfield, Scotty Toler, Le Ivory Toler
Address: Box 357 Hatfield Br, Coal Mountain, WV 24823 Phone No. _____
Comments:

Site: 3 Spacing: 540' +/- Owner: Hank F. & Diana R. Toler.
Address: PO Box 23, Coal Mountain, WV 24823 Phone No. _____
Comments:

Site: 4 Spacing: 600' +/- Owner: Della Hatfield, Scotty Toler, Le Ivory Toler
Address: Box 357 Hatfield Br, Coal Mountain, WV 24823 Phone No. _____
Comments:

BIRCH RIVER OFFICE
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

ALUM CREEK OFFICE
P.O. Box 108 • 1413 Childress Road
Alum Creek, WV 25003
phone: 304-756-2949
fax: 304-556-3948

Site: 5 Spacing: 990' +/- Owner: Earnest E. Toler & Earnest E. Toler, Jr.

Address: Box 305 Hatfield Br, Coal Mountain, WV 24823

Phone No. _____

Comments:

Site: 6 Spacing: 580' +/- Owner: Della Hatfield, Scotty Toler, Le Ivory Toler

Address: Box 357 Hatfield Br, Coal Mountain, WV 24823

Phone No. _____

Comments:

Site: 7 Spacing: 590' +/- Owner: Della Hatfield, Scotty Toler, Le Ivory Toler

Address: Box 357 Hatfield Br, Coal Mountain, WV 24823

Phone No. _____

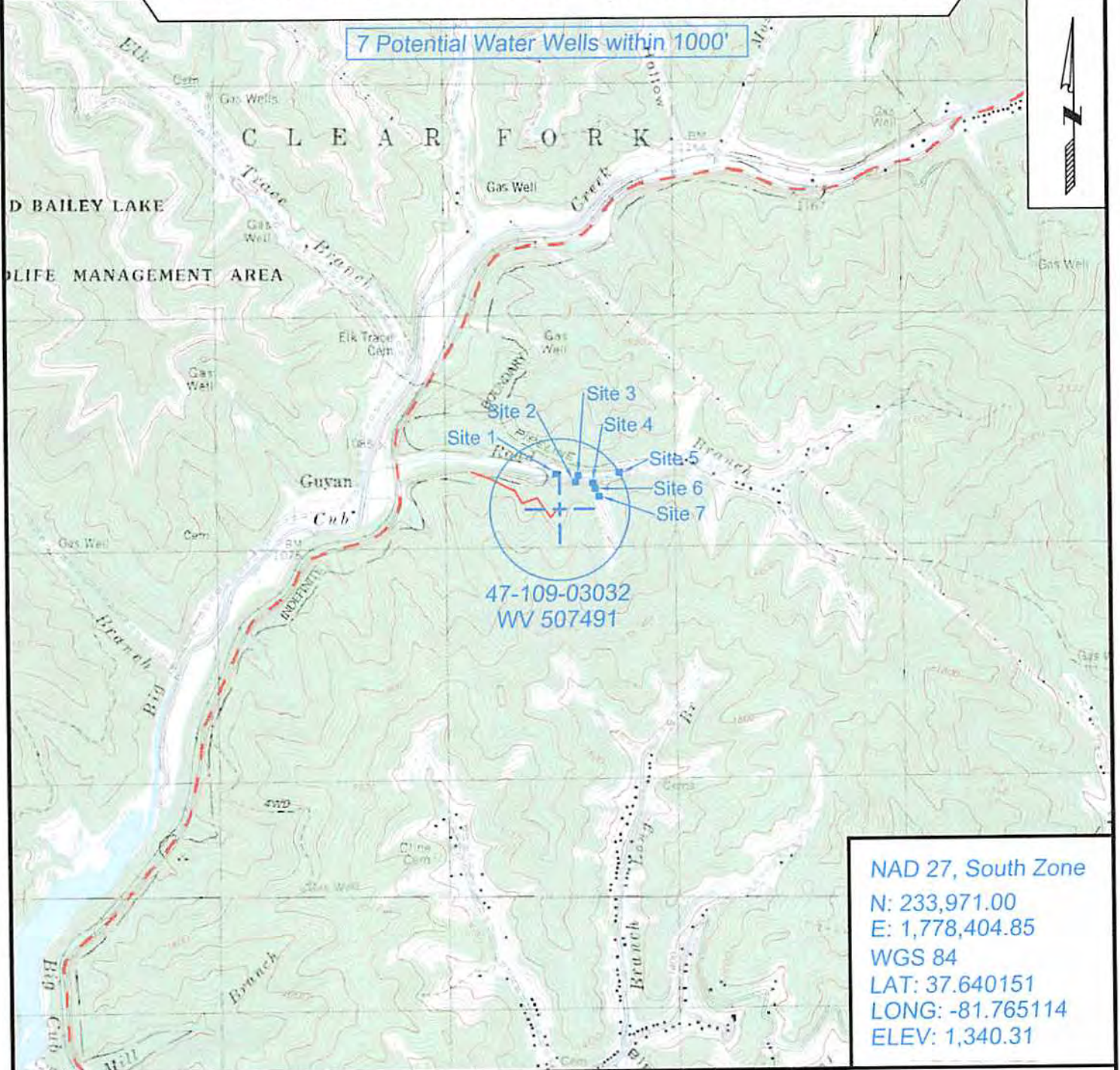
Comments:

SEP 25 2014

Topo Quad: Mallory 7.5' Scale: 1" = 2000'
 County: Wyoming Date: May 5, 2014
 District: Clear Fork Project No: 22-22-00-08

Water

47-109-03032 WV 507491 (Ritter Lumber #7491)



SURVEYING AND MAPPING SERVICES PERFORMED BY:
ALLEGHENY SURVEYS, INC.

1-800-482-8606
 237 Birch River Road
 Birch River, WV 26610
 PH: (304) 649-8606
 FAX: (304) 649-8608

PREPARED FOR:

EQT Production Company

P.O. Box 280 Z 5 2014
 Bridgeport, WV 26330

WV Department of
 Environmental Protection

11/21/2014