



---

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

## PERMIT MODIFICATION APPROVAL

March 25, 2014

EQT PRODUCTION COMPANY  
POST OFFICE BOX 280  
BRIDGEPORT, WV 26330

Re: Permit Modification Approval for API Number 9703814 , Well #: 511417 - HIGGINBOTHAM  
**Lateral Extended**

Oil and Gas Operator:

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

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

Sincerely,

for  
Gene Smith

Regulatory/Compliance Manager  
Office of Oil and Gas



MOD  
4709703814

December 17, 2013

Mr. Gene Smith  
West Virginia Department of Environmental Protection  
Office of Oil and Gas  
601 57th Street SE  
Charleston, WV 25304

Re: Modification of ADR125 (47-097-03814)

Dear Mr. Smith,

Attached is a modification to the casing program for the above well. EQT is extending the lateral section on this well. A new WW-6B, well schematics, WW-6A1 and Mylar plat is enclosed for your review.

If you have any questions, please do not hesitate to contact me at (304) 848-0076.

Sincerely,

Vicki Roark  
Permitting Supervisor-WV

Enc.

cc: Bill Hatfield  
P.O. Box 522  
Buckhannon, WV 26201

RECEIVED  
Office of Oil & Gas  
DEC 19 2013  
WV Department of  
Environmental Protection

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

1) Well Operator: EQT Production Company Operator ID 097 County 2 District 203 Quadrangle

2) Operator's Well Number: 511417 Well Pad Name: ADR125

3) Farm Name/Surface Owner : Mary F Higginbotham et al Public Road Access: Spruce Fork Road

4) Elevation, current ground: 1,572.0 Elevation, proposed post-construction: 1,572.0

5) Well Type: (a) Gas  Oil  Underground Storage   
Other \_\_\_\_\_

(b) If Gas: Shallow  Deep   
Horizontal

6) Existing Pad? Yes or No: yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thicknesses and Associated Pressure(s):  
Target formation is Marcellus at a depth of 7636' with the anticipated thickness to be 101 feet and anticipated target pressure of 3376 PSI

8) Proposed Total Vertical Depth: 7636'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth 15,852

11) Proposed Horizontal Leg Length 7,070

12) Approximate Fresh Water Strata Depths: 105, 822, 858

13) Method to Determine Fresh Water Depth: By offset wells

14) Approximate Saltwater Depths: n/a

15) Approximate Coal Seam Depths: 106, 521, 718, 835, 966

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

17) Does proposed well location contain coal seams directly overlying or adjacent to an active mine?

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

RECEIVED  
Office of Oil & Gas  
DEC 19 2013  
WV Department of  
Environmental Protection

CASING AND TUBING PROGRAM

18)

TYPE	Size	New or Used	Grade	Weight per ft.	FOOTAGE: for Drilling	INTERVALS: Left in Well	CEMENT: Fill- up (Cu.Ft.)
Conductor	20	New	MC-50	81#	40	40	38
Fresh Water	13 3/8	New	MC-50	54#	958	958	833
Coal							
Intermediate	9 5/8	New	MC-50	40#	2,904	2,904	1,135
Production	5 1/2	New	P-110	20#	15,852	15,852	See Note 1
Tubing	2 3/8		J-55	4.6			May not be run, if run will be set 100' less than TD
Liners							

TYPE	Size	Wellbore Diameter	Wall Thickness	Burst Pressure	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	24	0.375	-	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,480	1	1.21
Coal						
Intermediate	9 5/8	12 3/8	0.395	3,590	1	1.21
Production	5 1/2	8 1/2	0.361	12,640	-	1.27/1.86
Tubing						
Liners						

Packers

Kind:	N/A			
Sizes:	N/A			
Depths Set:	N/A			

Note 1: EQT plans to bring the TOC on the production casing cement job 1,000' above kick off point, which is at least 500' above the shallowest production zone, to avoid communication.

*Bill Hallfield*  
3/13/2014

(3/13)

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and complete a new horizontal well in the Marcellus formation. The vertical drill to go down to an approximate depth of 6660'.  
then kick off the horizontal leg into the Marcellus formation using a slick water frac.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Hydraulic fracturing is completed in accordance with state regulations using water recycled from previously fractured wells and obtained from freshwater sources. This water is mixed with sand and a small percentage (less than 0.3%) of chemicals (including 15% Hydrochloric acid, gelling agent, gel breaker, friction reducer, biocide, and scale inhibitor), referred to in the industry as a "slickwater" completion. Maximum anticipated treating pressures are expected to average approximately 8500 psi, maximum anticipated treating rates are expected to average approximately 100 bpm. Stage lengths vary from 150 to 300 feet. Average approximately 200,000 barrels of water per stage. Sand sizes vary from 100 mesh to 20/40 mesh. Average approximately 200,000 pounds of sand per stage.

21) Total area to be disturbed, including roads, stockpile area, pits, etc, (acres): 16.6 ac

22) Area to be disturbed for well pad only, less access road (acres): 12.9 ac

23) Describe centralizer placement for each casing string.

- Surface: Bow spring centralizers – One at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One cent at the shoe and one spaced every 500'.
- Production: One spaced every 1000' from KOP to Int csg shoe

24) Describe all cement additives associated with each cement type. Surface (Type 1 Cement): 0-3% Calcium Chloride

Used to speed the setting of cement slurries.

0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of the cement slurry to a thief zone.

Intermediate (Type 1 Cement): 0-3% Calcium Chloride. Salt is used in shallow, low temperature formations to speed the setting of cement slurries. 0.4% flake. Loss Circulation Material (LCM) is used to combat the loss of whole drilling fluid or cement slurry (not filtrate) to a thief zone.

Production:

Lead (Type 1 Cement): 0.2-0.7% Lignosulfonate (Retarder). Lengthens thickening time.

0.3% CFR (dispersant). Makes cement easier to mix.

Tail (Type H Cement): 0.25-0.40% Lignosulfonate (Retarder). Lengthens thickening time.

0.2-0.3% CFR (dispersant). This is to make the cement easier to mix.

60 % Calcium Carbonate. Acid solubility.

0.4-0.6% Halad (fluid loss). Reduces amount of water lost to formation.

25) Proposed borehole conditioning procedures. Surface: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating

one full joint until cuttings diminish at surface. When cuttings returning to surface diminish, continue to circulate an additional 5

minutes. To ensure that there is no fill, short trip two stands with no circulation. If there is fill, bring compressors back on

and circulate hole clean. A constant rate of higher than expected cuttings volume likely indicates washouts that will not clean up.

Intermediate: Circulate hole clean (Approximately 30-45 minutes) rotating & reciprocating one full joint until cuttings diminish at

surface. When cuttings returning to surface diminish, continue to circulate an additional 5 minutes. If foam drilling, to enhance

hole cleaning use a soap sweep or increase injection rate & foam concentration.

Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume.

Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across

the shakers every 15 minutes.

RECEIVED  
Office of Oil & Gas

DEC 19 2013

\*Note: Attach additional sheets as needed.

WV Department of  
Environmental Protection

03/28/2014

4709703814

MOD

Well 511417 (ADR125 H3)  
 EOT Production  
 Adrian  
 Upshur

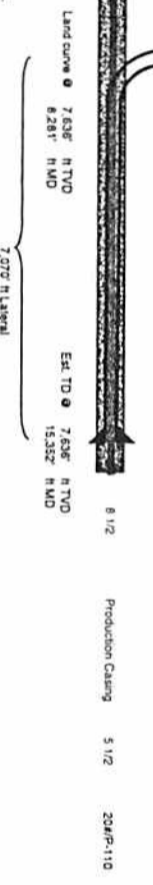
West Virginia

Aspen 346  
 Vertical Section 742

TVD Depth (ft)	Formation Tops (TVD)	Aspen 346 Vertical Section 742	Hole Size (inches)	Casing Type	Casing Size (inches)	WT (ppg/Grade)
1,000'	Base Fresh Water	628	17 1/2"	Surface	13 3/8"	54#/MC-50
1,250'	Marion	1713 - 1748	24"	Conductor	20"	
1,500'	Big Lime	1816 - 1832				
1,750'	Wax	2094 - 2072				
2,000'	Argy Rock	2094 - 2134				
2,250'	Argy Rock	2202 - 2224	(2000')	Intermediate	9 5/8"	40#/MC-50
2,500'	Argy Rock	2202 - 2218				
2,750'	Argy Rock	2218 - 2270				
3,000'	Argy Rock	2218 - 2270				
3,250'	Argy Rock	2341 - 2378	(3000')	Intermediate	9 5/8"	40#/MC-50
3,500'	Argy Rock	2341 - 2378				
3,750'	Argy Rock	2489				
4,000'	Argy Rock	2489				
4,250'	Argy Rock	2525 - 2514	8 1/2"	Production Casing	5 1/2"	20#/P-110
4,500'	Argy Rock	2525 - 2514				
4,750'	Argy Rock	2525 - 2514				
5,000'	Argy Rock	2525 - 2514				
5,250'	Argy Rock	2525 - 2514	8 1/2"	Production Casing	5 1/2"	20#/P-110
5,500'	Argy Rock	2525 - 2514				
5,750'	Argy Rock	2525 - 2514				
6,000'	Argy Rock	2525 - 2514				
6,250'	Argy Rock	2525 - 2514	8 1/2"	Production Casing	5 1/2"	20#/P-110
6,500'	Argy Rock	2525 - 2514				
6,750'	Argy Rock	2525 - 2514				
7,000'	Argy Rock	2525 - 2514				
7,250'	Argy Rock	2525 - 2514	8 1/2"	Production Casing	5 1/2"	20#/P-110
7,500'	Argy Rock	2525 - 2514				
7,750'	Argy Rock	2525 - 2514				
8,000'	Argy Rock	2525 - 2514				
8,250'	Argy Rock	2525 - 2514	8 1/2"	Production Casing	5 1/2"	20#/P-110
8,500'	Argy Rock	2525 - 2514				
8,750'	Argy Rock	2525 - 2514				
9,000'	Argy Rock	2525 - 2514				
9,250'	Argy Rock	2525 - 2514	8 1/2"	Production Casing	5 1/2"	20#/P-110
9,500'	Argy Rock	2525 - 2514				
9,750'	Argy Rock	2525 - 2514				
10,000'	Argy Rock	2525 - 2514				

*Bill Halford*  
 3/13/2014

Proposed Well Work:  
 Drill and complete a new horizontal well in the Marcellus formation.  
 The vertical depth to go down to an approximate depth of 6560'.  
 Then kick off the horizontal leg into the Marcellus using a slick water frac.



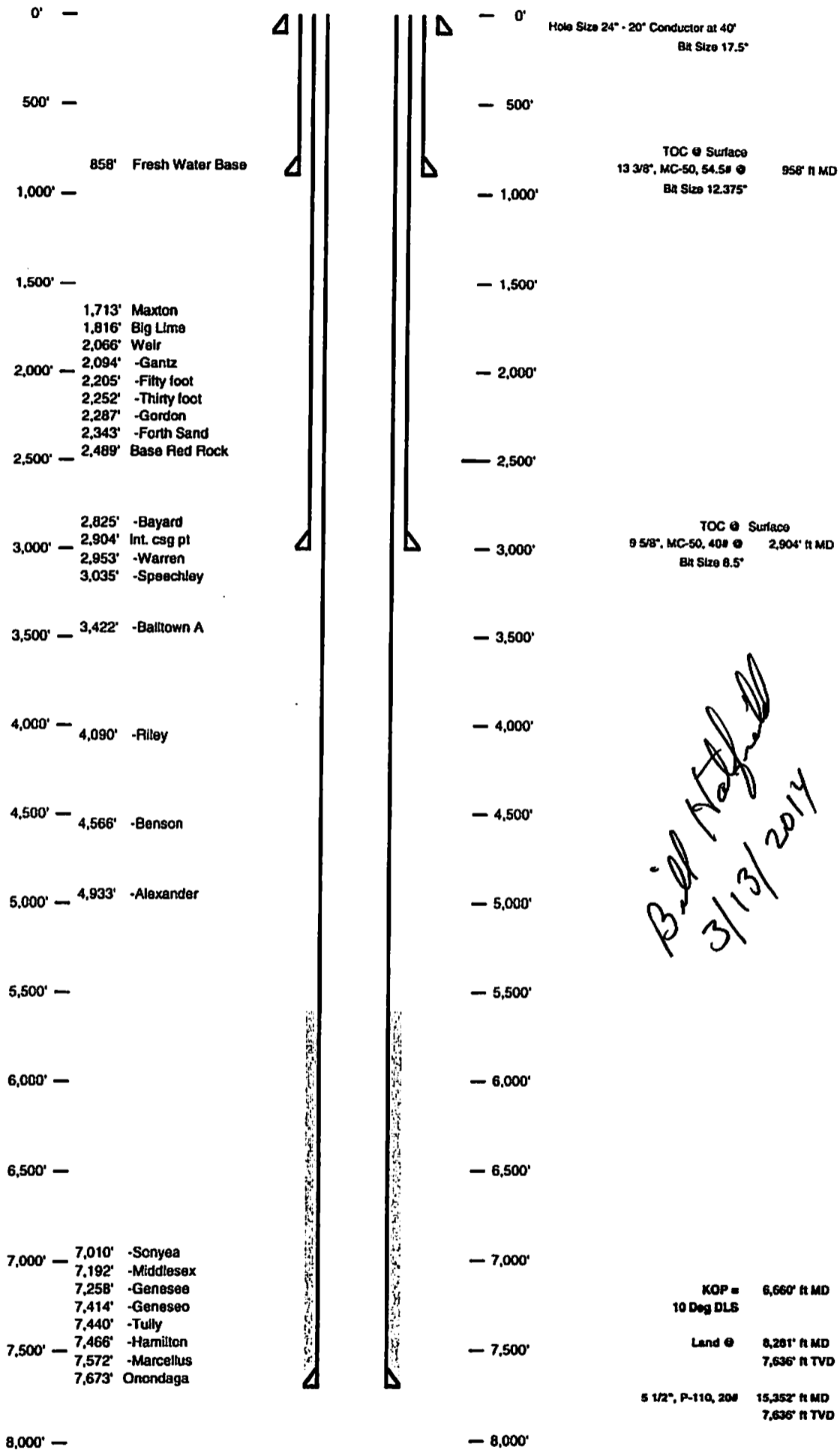
RECEIVED  
 Office of Oil and Gas  
 MAR 19 2014  
 WV Department of Environmental Protection  
 03/28/2014

Well Schematic  
EQT Production

Well Name 511417 (ADR125 H3)  
County Upshur  
State West Virginia

Elevation KB:  
Target  
Prospect  
Azimuth  
Vertical Section

1585
Marcellus
340
7542



# MARY F. HIGGINBOTHAM ET AL LEASE

## WELL NO. WV 511417

**PROPOSED GAS WELL  
NO. WV 511417**

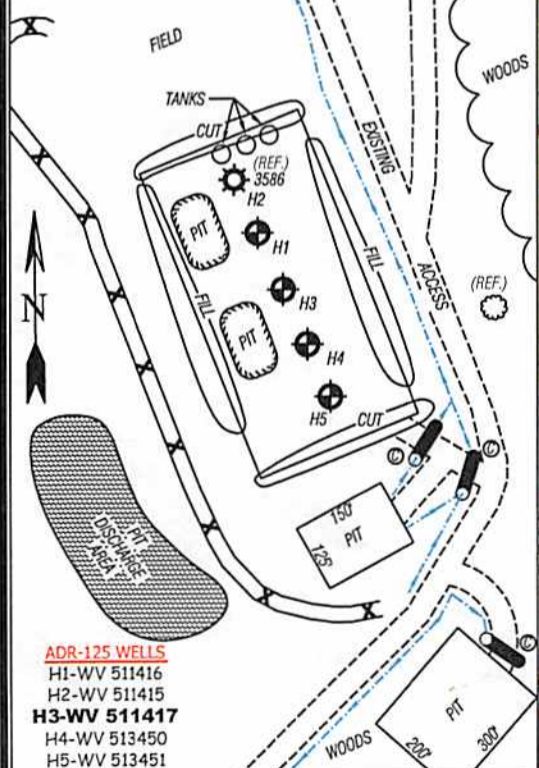
TO WELL WV  
510852 A.P.I.  
#47-097-3370

**PREVIOUSLY APPROVED  
(2007) ACCESS FOR  
A.P.I. #47-097-3370  
TO BE RECLAIMED &  
MAINTAINED TO STATE  
SPECS.**

1427 Spruce Fork  
Ch

Detail Sketch for Proposed Well WV 511417

NOT TO SCALE



- ADR-125 WELLS**  
 H1-WV 511416  
 H2-WV 511415  
**H3-WV 511417**  
 H4-WV 513450  
 H5-WV 513451

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

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

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

TEMPORARY SEED & MULCH ALL SLOPES AFTER CONSTRUCTION OF LOCATION.

**03/28/2014**

CUT & STACK ALL MARKETABLE TIMBER.

STACKED BRUSH MAY BE USED FOR SEDIMENT CONTROL.

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

**SCALE: 1"=500'**



⊖ = EXISTING CULVERT    ⊕ = PROPOSED CULVERT  
12" MIN. UNLESS OTHERWISE NOTED

⊗ = PROPOSED STREAM CROSSING (IF APPLIES)  
\*SEE TABLE FOR CULVERT DETAIL



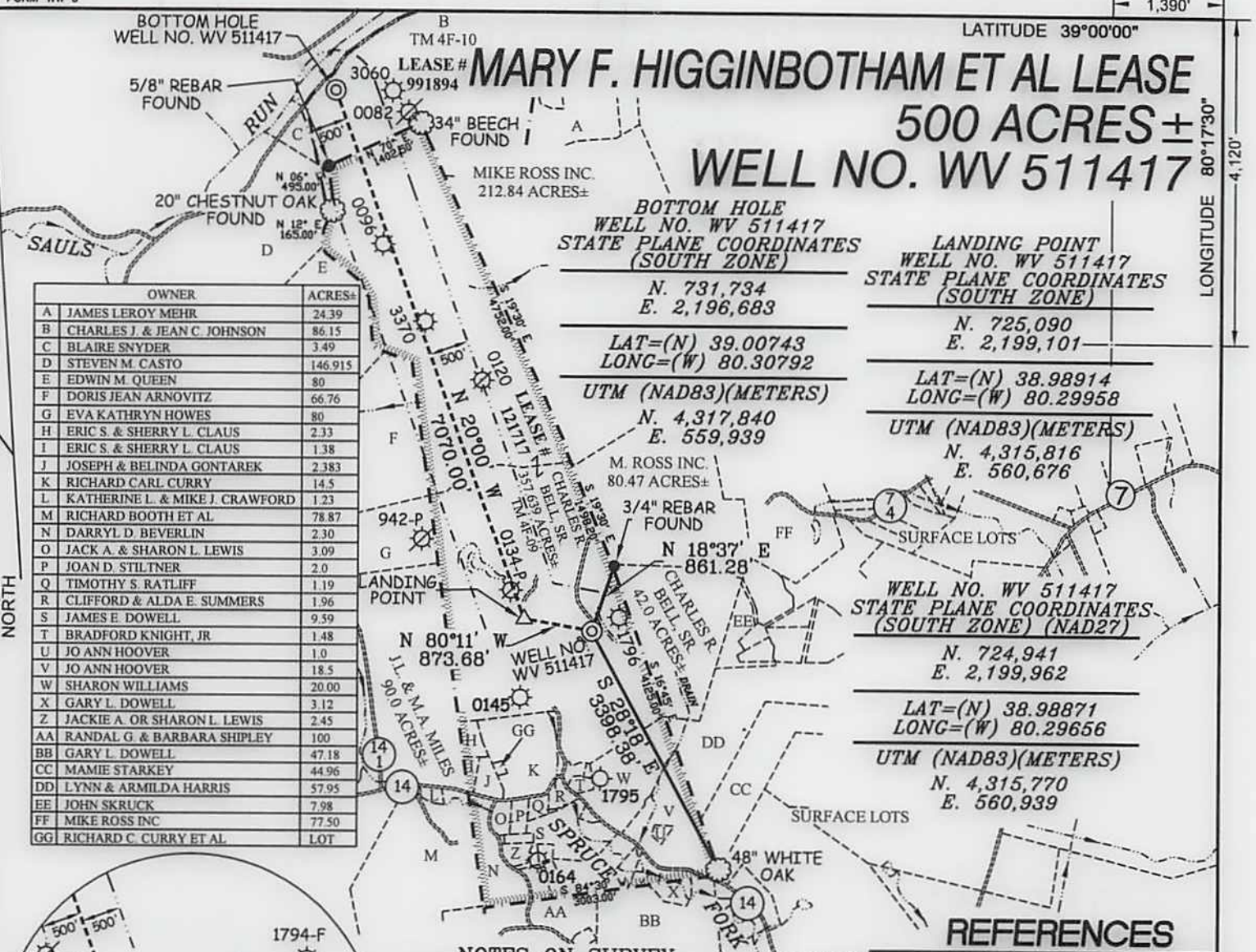
SMITH LAND SURVEYING, INC.  
P.O. BOX 150 GLENVILLE, WV, 26351

PH: (304)462-5634 FAX: (304)462-5656 E-MAIL: sls@sls-surveys.com

DRAWN BY C.J.P.	FILE NO. 6282	DATE 04/28/11	CADD FILE: 6282REC\WV511417R3.DWG
--------------------	------------------	------------------	--------------------------------------

TOPO SECTION OF  
USGS ADRIAN 7.5' QUADRANGLE





OWNER	ACRES±
A JAMES LEROY MEHR	24.39
B CHARLES J. & JEAN C. JOHNSON	86.15
C BLAIRE SNYDER	3.49
D STEVEN M. CASTO	146.915
E EDWIN M. QUEEN	80
F DORIS JEAN ARNOVITZ	66.76
G EVA KATHRYN HOWES	80
H ERIC S. & SHERRY L. CLAUS	2.33
I ERIC S. & SHERRY L. CLAUS	1.38
J JOSEPH & BELINDA GONTAREK	2.383
K RICHARD CARL CURRY	14.5
L KATHERINE L. & MIKE J. CRAWFORD	1.23
M RICHARD BOOTH ET AL	78.87
N DARRYL D. BEVERLIN	2.30
O JACK A. & SHARON L. LEWIS	3.09
P JOAN D. STILTNER	2.0
Q TIMOTHY S. RATLIFF	1.19
R CLIFFORD & ALDA E. SUMMERS	1.96
S JAMES E. DOWELL	9.59
T BRADFORD KNIGHT, JR	1.48
U JO ANN HOOVER	1.0
V JO ANN HOOVER	18.5
W SHARON WILLIAMS	20.00
X GARY L. DOWELL	3.12
Z JACKIE A. OR SHARON L. LEWIS	2.45
AA RANDAL G. & BARBARA SHIPLEY	100
BB GARY L. DOWELL	47.18
CC MAMIE STARKEY	44.96
DD LYNN & ARMILDA HARRIS	57.95
EE JOHN SKRUCK	7.98
FF MIKE ROSS INC	77.50
GG RICHARD C. CURRY ET AL	LOT

**BOTTOM HOLE**  
WELL NO. WV 511417  
STATE PLANE COORDINATES  
(SOUTH ZONE)

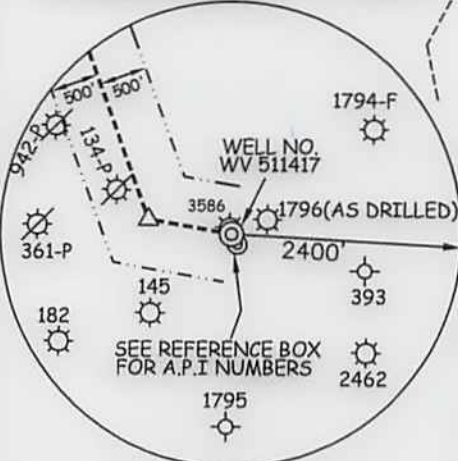
N. 731,734  
E. 2,196,683  
LAT=(N) 39.00743  
LONG=(W) 80.30792  
UTM (NAD83)(METERS)  
N. 4,317,840  
E. 559,939

**LANDING POINT**  
WELL NO. WV 511417  
STATE PLANE COORDINATES  
(SOUTH ZONE)

N. 725,090  
E. 2,199,101  
LAT=(N) 38.98914  
LONG=(W) 80.29958  
UTM (NAD83)(METERS)  
N. 4,315,816  
E. 560,676

**WELL NO. WV 511417**  
STATE PLANE COORDINATES  
(SOUTH ZONE) (NAD27)

N. 724,941  
E. 2,199,962  
LAT=(N) 38.98871  
LONG=(W) 80.29656  
UTM (NAD83)(METERS)  
N. 4,315,770  
E. 560,939

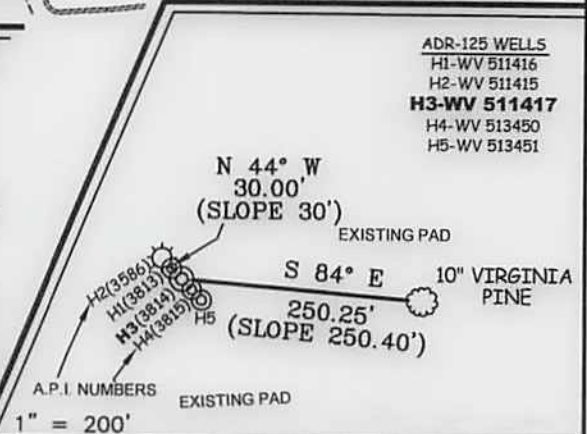


**NOTES ON SURVEY**

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 06/18/10.
3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM A DEED RECORDED IN DEED BOOK 399 AT PAGE 785.
4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF UPSHUR COUNTY IN JULY, 2011. PARCELS AFFECTED BY CURRENT CHANGES CHECKED JULY, 2013.
5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).
6. ORIGINAL PLAT DATED 11/10/11 REVISED 07/29/11 TO UPDATE SPOT CIRCLE & ADJOINER INFORMATION & 11/13/13 TO EXTEND LEG & UPDATE, ETC.
7. NO WATER WELLS WERE FOUND WITHIN 250 FEET OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS (GREATER THAN 2500 SQUARE FEET) OR DWELLINGS WERE FOUND WITHIN 625 FEET OF CENTER OF PROPOSED WELL PAD.

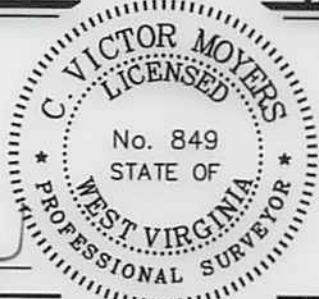
**REFERENCES**

- ADR-125 WELLS
- H1-WV 511416
- H2-WV 511415
- H3-WV 511417**
- H4-WV 513450
- H5-WV 513451



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. 849 *C. Victor Moyers*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.  
DATE NOVEMBER 13, 20 13  
OPERATORS WELL NO. WV 511417  
API WELL NO. 47-097-03814 MOD H6A  
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 6282P511417R3  
PROVEN SOURCE OF ELEVATION DGPS (SURVEY GRADE TIE TO CORS NETWORK) SCALE 1" = 2000'

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 1,572'(ACTUAL PAD) WATERSHED TRIBUTARY OF SPRUCE FORK  
DISTRICT BUCKHANNON COUNTY UPSHUR QUADRANGLE ADRIAN 7.5'

SURFACE OWNER CHARLES R. BELL, SR. ACREAGE 357.639±

ROYALTY OWNER BISHOP OF THE PROTESTANT EPISCOPAL CHURCH OF THE DIOCESE OF W.V. (500 AC.±) / WINDAMAR, INC. ET AL (151.12 AC.±)

PROPOSED WORK: DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG AND ABANDON  CLEAN OUT AND REPLUG  OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ TARGET FORMATION MARCELLUS  
ESTIMATED DEPTH \_\_\_\_\_

WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY  
ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

COUNTY NAME PERMIT

08/28/2014

**INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)**

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

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

Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
✓ 121717			1/8 Min Pd	
	Mary F Higginbotham, et al	Pittsburgh & West Virginia Gas Company		LB 14X/403
	Pittsburgh & West Virginia Gas Company	Equitable Gas Company		DB 137/226
	Equitable Gas Company	Equitrans, Inc		DB 137/404
	Equitrans, Inc	Equitable Production-Eastern States, Inc.		Assign BK 44/7
	Equitable Production-Eastern States, Inc.	Equitable Production Company		CB 13/14 Wetzel
	Equitable Production Company	EQT Production Company		CB 13/14 Wetzel
✓ 991894	M & R Investments, Inc.	EQT Production Company		Assign Bk 54/386

Upon information and belief, Operator's lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat, including under any public roads that the well lateral crosses.

**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

RECEIVED  
Office of Oil & Gas

DEC 19 2013

WV Department of  
Environmental Protection

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

Well Operator: EQT Production Company  
 By:   
 Its: Permitting Supervisor