



west virginia department of environmental protection

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

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

PERMIT MODIFICATION APPROVAL
Horizontal 6A / Horizontal 6A Well - 1

EQT PRODUCTION COMPANY
120 PROFESSIONAL PLACE
BUILDING II
BRIDGEPORT, WV 26330

Re: Permit Modification Approval for WV 512427
47-085-10087-00-00

Adding 2 Additional Leases

EQT PRODUCTION COMPANY

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.

If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin
Chief

Operator's Well Number: WV 512427
Farm Name: RAY, RICHARD L. & SHERYL A.
U.S. WELL NUMBER: 47-085-10087-00-00
Horizontal 6A / Horizontal 6A Well - 1
Date Issued: 1/10/2017

Promoting a healthy environment.

01/20/2017



June 8, 2016

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

Re: Modification of 47-085-10087

Dear Mr. Smith,

Please accept the attached updates for the above referenced permit. Upon inspection of our as-drilled plat, we noted the curve geometry crossed into 2 additional leases, #106136 & 109481. Enclosed is an updated WW-6A1, WW-6B, mylar plat and rec plan reflecting corrections to update the permit file to be consistent with the as-drilled well bore.

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

Sincerely,

A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor-WV

Enc.

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

1) Well Operator: EQT Production Company 306686 Ritchie Union Oxford
Operator ID County District Quadrangle

2) Operator's Well Number: 512427 Well Pad Name: OXF122

3) Farm Name/Surface Owner: Richard L & Sheryl A. Ray Public Road Access: Co. Rt. 22/3

4) Elevation, current ground: 1111.0 Elevation, proposed post-construction: 1111.0

5) Well Type (a) Gas X Oil _____ Underground Storage _____

Other _____

(b) If Gas Shallow X Deep _____

Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 6475', 54', 2951 PSI

8) Proposed Total Vertical Depth: 6475

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17469

11) Proposed Horizontal Leg Length: 10005

12) Approximate Fresh Water Strata Depths: 246

13) Method to Determine Fresh Water Depths: From offset wells

14) Approximate Saltwater Depths: None reported

15) Approximate Coal Seam Depths: 939

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? Yes _____ No X

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

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18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20	New	A-500	78.6	40	40	44.84 ft ³ / CTS
Fresh Water	13 3/8	New	J-55	54.5	1053	1053	990.08 ft ³ / CTS
Coal							
Intermediate	9 5/8	New	A-500	40	2993	2993	1280.3 ft ³ / CTS
Production	5 1/2	New	P-110	20	17466	17466	500' above top producing zone
Tubing	2 3/8		J-55	4.7		May not be run, if run set 40' above top perf or 80° inclination.	
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20	24	.375	1378	1102	Class A	1.18
Fresh Water	13 3/8	17 1/2	.38	2700	2160	Class A	1.20
Coal							
Intermediate	9 5/8	12 3/8	.395	3950	3160	Class A	1.18
Production	5 1/2	8 1/2	.361	12640	10112	Class H/H	1.72/1.84
Tubing	2 3/8	NA	.19	7700			
Liners							

PACKERS

Kind:				
Sizes:				
Depths Set:				

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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. Drill the vertical to an approximate depth of 5078'. Kick off and drill curve. Drill the lateral in the Marcellus. Cement casing.

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 internal casing pressure is expected to be approximately 10000 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): no additional disturbance

22) Area to be disturbed for well pad only, less access road (acres): no additional disturbance

23) Describe centralizer placement for each casing string:

- Surface: Bow spring centralizers – One centralizer at the shoe and one spaced every 500'.
- Intermediate: Bow spring centralizers– One centralizer at the shoe and one spaced every 500'.
- Production: One solid body centralizer spaced every joint from production casing shoe to KOP

24) Describe all cement additives associated with each cement type:

Conductor: Class A no additives
Surface (Class A Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries
Intermediate (Class A Cement): 0-3% Calcium Chloride. Used to speed the setting of cement slurries.
Production:
Lead (Class H Cement): 0.2% CD-20 (dispersant makes cement easier to mix). .15% SuperFL-300 (fluid loss/lengthens thickening time) .15% SEC-10 (fluid loss) 50:50 POZ (extender)
Tail (Class H Cement): 0.2% Super CR-1 (Retarder). Lengthens thickening time. .3% Super FL-200 (fluid loss) .2% SEC-10 (Fluid loss) .2% SuperFL-350 (fluid loss) Reduces amount of water lost to formation. 60 % Calcium Carbonate. Acid solubility.

25) Proposed borehole conditioning procedures:

Surface: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Intermediate: Circulate hole clean while rotating & reciprocating the drill string until cuttings diminish at surface.
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

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*Note: Attach additional sheets as needed.

**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
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see attachment

**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

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: Victoria J. Roark
 Its: Permitting Supervisor

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Lease No.	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
/ 105953	<u>Haight Family Trust, et al (current royalty owner)</u>		***	
	William Adams, et ux (original lessor)	The Philadelphia Company of West Virginia		LB29/244
	The Philadelphia Company of West Virginia	Pittsburgh and West Virginia Gas Company		LB55/362
	Pittsburgh and West Virginia Gas Company	Equitable Gas Company		LB126/473
	Equitable Gas Company	Equitrans, Inc.		LB201/253
	Equitrans, Inc.	Equitable Production-Eastern States, Inc.		LB234/830
	Equitable Production-Eastern States, Inc.	Equitable Production Company		DB281/346 Doddridge
/ 105925	<u>Ilene Beckett, et al (current royalty owner)</u>		***	
	Delphia G. Taylor and George H. Taylor (original lessor)	Hope Natural Gas Company		LB81/263
	Hope Natural Gas Company	Consolidated Gas Supply Corp.		LB151/436
	Consolidated Gas Supply Corp.	Consolidated Gas Transmission Corp.		LB169/756
	Consolidated Gas Transmission Corp.	CNG Development Co.		LB176/601
	CNG Development Co.	CNG Producing Co.		CB1096/124 Delaware
	CNG Producing Co.	Dominion Exploration & Production, Inc.		CB82/07 Delaware
	Dominion Exploration & Production, Inc.	Dominion Transmission, Inc.		LB251/621
	Dominion Transmission, Inc.	CONSOL Energy Holdings, LLC		LB251/648
	CONSOL Energy Holdings, LLC	CONSOL Gas Co.		CB6/576
	CONSOL Gas Co.	CNX Gas Co., LLC		CB6/634
	CNX Gas Co., LLC	EQT Production Co.		LB279/333
	/ 1005950	<u>Mary J. Smith, et al (current royalty owner)</u>		***
James E. Spurgeon, et al (original lessor)		Claron Dawson and C. Crane		LB127/239
Claron Dawson and C. Crane		Sancho Oil and Gas Corp.		LB232/172
Sancho Oil and Gas Corp.		Stephen D. Ward		LB232/174
Stephen D. Ward		Antero Resources Appalachian Corp.		LB256/22
Antero Resources Appalachian Corp.	EQT Production Company		DB282/379	
/ 1.189353337	<u>Robert E. Hammelt, et al (current royalty owner)</u>		***	
	W. M. Lipscomb, et ux (original lessor)	Carnegie Natural Gas Company		LB46/187
	Carnegie Natural Gas Company	Carnegie Production Company		LB228/859
	Carnegie Production Company/USX	Equitable Resources Inc.		See attached
	Equitable Resources Inc.	Equitable Production Co.		DB274/471
Equitable Production Co.	EQT Production Company		DB281/346 Doddridge	
/ 708166	<u>John W. Kerns Heirs Trust (current royalty owner)</u>		***	
	O. S. Garner (original lessor)	A. B. Burrows, et ux		LB41/95
	A. B. Burrows, et ux	Carnegie Natural Gas Company		LB46/185
	Carnegie Natural Gas Company	Carnegie Production Company		LB228/859
	Carnegie Production Company/USX	Equitable Resources Inc.		See attached
	Equitable Resources Inc.	Equitable Production Co.		DB274/471
Equitable Production Co.	EQT Production Company		DB281/346 Doddridge	
/ 710488	<u>Jane L. Garrison, et al (current royalty owner)</u>		***	
	Lewis Garrison, et ux (original lessor)	Carnegie Natural Gas Company		LB42/4
	Carnegie Natural Gas Company	Carnegie Production Company		LB228/859
	Carnegie Production Company/USX	Equitable Resources Inc.		See attached
	Equitable Resources Inc.	Equitable Production Co.		DB274/471
Equitable Production Co.	EQT Production Company		DB281/346 Doddridge	
/ 106136	<u>Adele McDougal, et al (current royalty owner)</u>		***	
	Thomas Watson, R. A. Watson and M. G. Zinn (original lessor)	The Philadelphia Co. of West Virginia		LB30/161
	The Philadelphia Co. of West Virginia	Pittsburgh & West Virginia Gas Co.		LB55/362
	Pittsburgh & West Virginia Gas Co.	Equitable Gas Company		DB126/473
	Equitable Gas Company	Equitrans, Inc.		LB201/253
	Equitrans, Inc.	Equitable Production-Eastern States, Inc.		LB192/19
	Equitable Production-Eastern States, Inc.	Equitable Production Company		CB6/443
Equitable Production Company	EQT Production Company		CB6/443	
/ 109481	<u>Adele McDougal et al (current royalty owner)</u>		***	
	Jackson Leeson, et al (original lessor)	The Philadelphia Co. of West Virginia		LB21/76
	The Philadelphia Co. of West Virginia	Pittsburgh & West Virginia Gas Co.		DB87/90
	Pittsburgh & West Virginia Gas Co.	Equitable Gas Company		DB121/303
	Equitable Gas Company	Equitrans, Inc.		DB154/475
	Equitrans, Inc.	Equitable Production-Eastern States, Inc.		LB192/19
	Equitable Production-Eastern States, Inc.	Equitable Production Company		CB281/346
	Equitable Production Company	EQT Production Company		CB281/346

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*** We will pay one-eighth of the total amount paid to or received by or allowed to the owner of the working interest at the wellhead for the oil or gas so extracted, produced, or marketed before deducting the amount to be paid to or set aside for the owner of the oil or gas in place, on all such oil or gas to be extracted, produced, or marketed from the well.

WV Department of Environmental Protection 01/20/2017

085-10087

PURCHASE AND SALE AGREEMENT

PURCHASE AND SALE AGREEMENT, dated as of May 27, 1999 (this "Agreement"), by and between USX CORPORATION, a Delaware corporation, ("USX") and EQUITABLE RESOURCES, INC., a Pennsylvania corporation (hereinafter referred to as "Buyer").

WHEREAS, USX owns directly or indirectly all of the outstanding capital stock or other evidence of an equity interest of the following companies (each a "Carnegie Company" and collectively the "Carnegie Companies"), which are involved in one or more of the production, gathering, transportation, treatment, distribution and sale of natural gas: (i) Carnegie Natural Gas Company, a Pennsylvania corporation, ("Carnegie"), (ii) Carnegie Interstate Pipeline Company, a Delaware corporation, ("CIPCO"), (iii) Carnegie Production Company, a Pennsylvania corporation, ("CPC"), (iv) Carnegie Natural Gas Sales, Inc., a Delaware corporation, ("CNGS") and (v) Carnegie Gas Storage, LLC, a Delaware limited liability company, ("CGS"); and

WHEREAS, USX desires to sell to Buyer and Buyer desires either for itself and/or one or more designated subsidiaries to purchase from USX one hundred percent (100%) of the capital stock and other evidence of equity interest in the Carnegie Companies;

NOW, THEREFORE, for and in consideration of the premises and the representations, warranties, covenants and agreements herein set forth and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto, intending to be legally bound, agree as follows:

ARTICLE I
DEFINITIONS

Unless otherwise specifically stated in the text of this Agreement, the following terms shall have the following meanings:

Section 1.1 The "1935 Act" shall mean the Public Utility Holding Company Act of 1935, as amended.

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5.13 No Third-Party Rights. Nothing in this Agreement, expressed or implied, shall or is intended to confer upon any Person other than the parties hereto or their respective successors or assigns.

IN WITNESS WHEREOF, the parties have executed, delivered and entered into this agreement as of the day and year first above written.

USX Corporation

By: V. G. Beghini
Typed Name: V. G. Beghini
Title: Vice Chairman - Marathon Group

Equitable Resources, Inc.

By: David L. Porges
Typed Name: David L. Porges
Title: Senior Vice President and Chief Financial Officer



085-10087

May 20, 2016

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

Re: OXF122, 512427, 47-08510087

Dear Mr. Martin,

EQT Production Company is submitting an application for a new well work permit for the above well number. 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.

Sincerely,

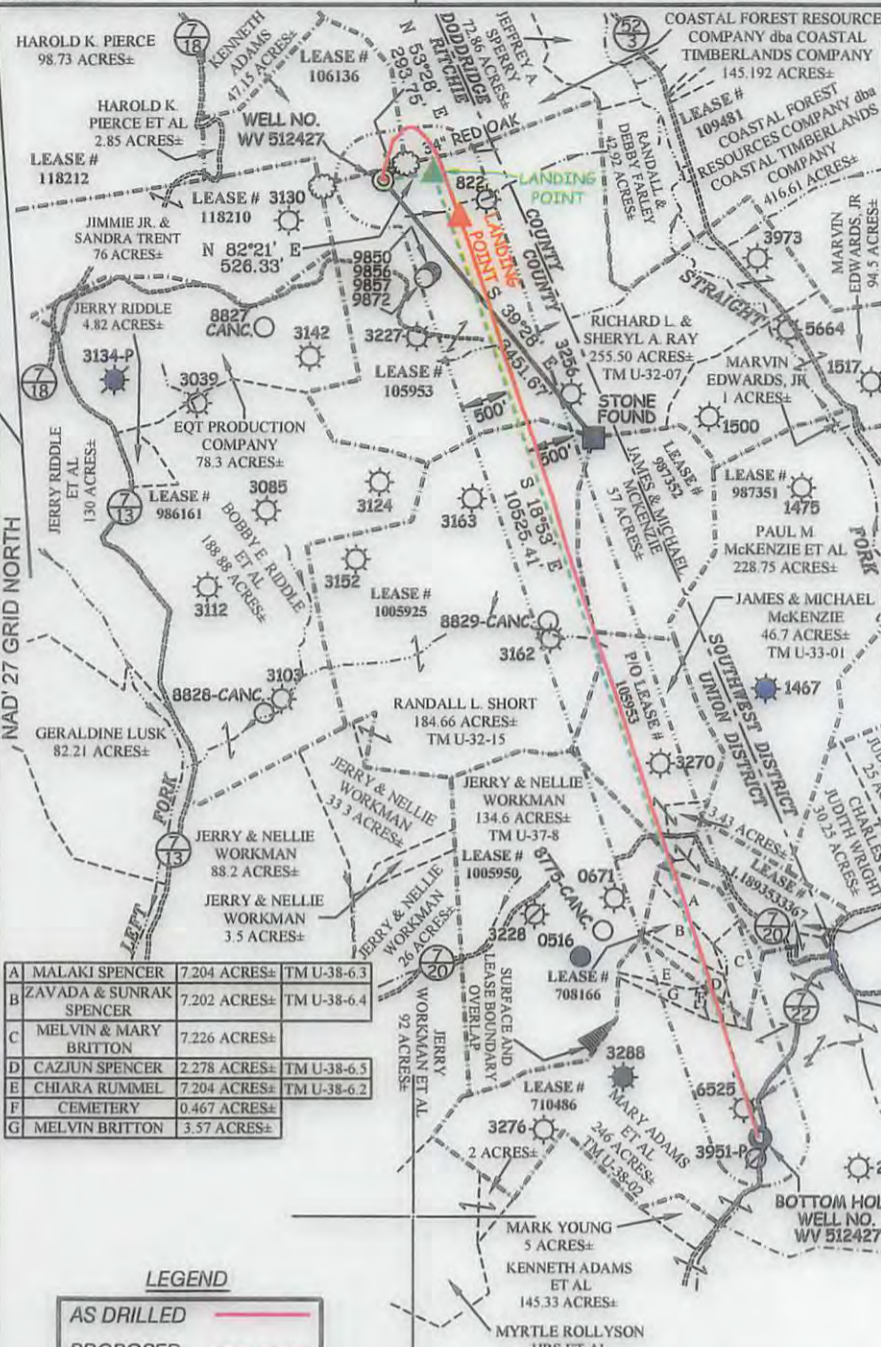
A handwritten signature in blue ink, appearing to read 'Vicki Roark'.

Vicki Roark
Permitting Supervisor-WV

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EQT PRODUCTION COMPANY
W.M. ADAMS LEASE
402 ACRES±
WELL NO. WV 512427
(OXF122 H2)
AS DRILLED COORDINATES
 (S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'27 S.P.C.(FT)	N. 233,088.47	E. 1,622,454.07
NAD'27 GEO.	LAT-(N) 39.132286	LONG-(W) 80.630946
NAD'83 UTM (M)	N. 4,331,479.83	E. 514,626.35

LANDING POINT

NAD'27 S.P.C.(FT)	N. 232,691.53	E. 1,623,242.63
NAD'27 GEO.	LAT-(N) 39.131228	LONG-(W) 80.828146
NAD'83 UTM (M)	N. 4,331,362.92	E. 514,868.59

BOTTOM HOLE

NAD'27 S.P.C.(FT)	N. 223,189.87	E. 1,626,357.78
NAD'27 GEO.	LAT-(N) 39.105269	LONG-(W) 80.816675
NAD'83 UTM (M)	N. 4,328,484.17	E. 515,865.91

A	MALAKI SPENCER	7,204 ACRES±	TM U-38-6.3
B	ZAVADA & SUNRAK SPENCER	7,202 ACRES±	TM U-38-6.4
C	MELVIN & MARY BRITTON	7,226 ACRES±	
D	CAZIUN SPENCER	2,278 ACRES±	TM U-38-6.5
E	CHIARA RUMMEL	7,204 ACRES±	TM U-38-6.2
F	CEMETERY	0.467 ACRES±	
G	MELVIN BRITTON	3.57 ACRES±	

NOTES ON SURVEY

1. NO WATER WELLS WERE FOUND WITHIN 250' OF PROPOSED GAS WELL. NO AGRICULTURAL BUILDINGS ≥ 2500 SQ. FT. OR DWELLINGS WERE FOUND WITHIN 825' OF THE CENTER OF PROPOSED WELL PAD.
2. AS DRILLED INFORMATION PROVIDED BY EQT.

LEGEND

AS DRILLED ——— (Red line)
PROPOSED - - - - - (Green dashed line)

ROYALTY OWNERS

ILENE BECKETT ET AL	183.16 AC±	LEASE NO. 1005925
MARY J. SMITH ET AL	134 AC±	LEASE NO. 1005950
ROBERT E. HAMMETT ET AL	30 AC±	LEASE NO. 1.189353387
JOHN W. KERNS HEIRS TRUST	35 AC±	LEASE NO. 708186
JANE L. GARRISON ET AL	246 AC±	LEASE NO. 710486
ADELE McDOUGAL ET AL	53 AC±	LEASE NO. 106136
ADELE McDOUGAL ET AL	2000 AC±	LEASE NO. 106451



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. 2288 *Earl N. Thompson*



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE DECEMBER 12, 20 13
 REVISED 07/02/15, 12/03/15, 05/16/16 & 06/06/16
 OPERATORS WELL NO. WV 512427
 API WELL NO. 47 - 085 - 10087H
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 2500 FILE NO. 6811ASDRILLED512427R
 HORIZONTAL & VERTICAL CONTROL DETERMINED BY 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: PAD ELEVATION 1,111' WATERSHED STRAIGHT FORK
 DISTRICT UNION COUNTY RITCHIE QUADRANGLE OXFORD 7.5'
 SURFACE OWNER RICHARD L. & SHERYL A. RAY ACREAGE 255.50±
 ROYALTY OWNER HAUGHT FAMILY TRUST ET AL ACREAGE 402±
 PROPOSED WORK: LEASE NO. 105953
 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 6,461'

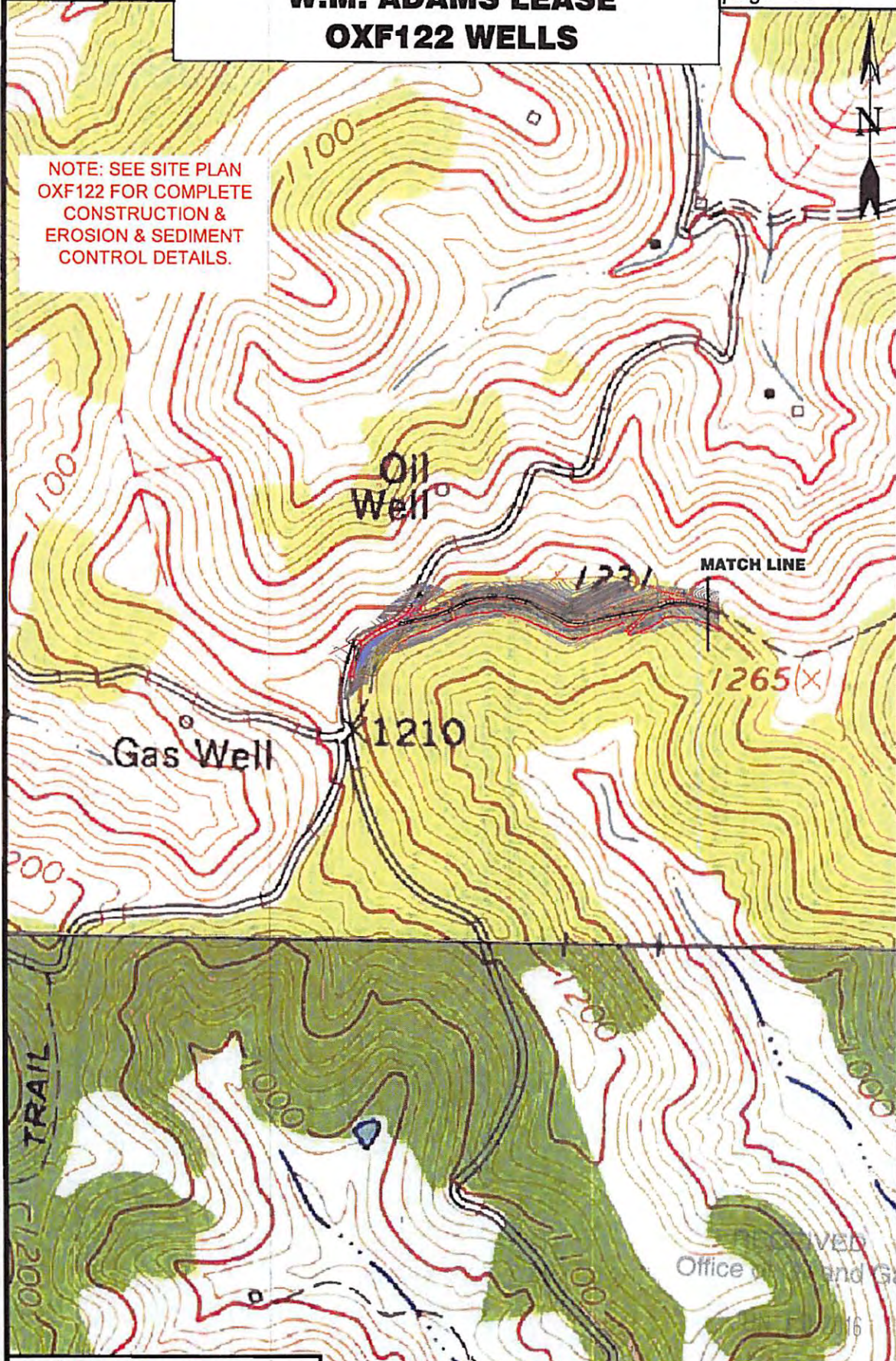
WELL OPERATOR EQT PRODUCTION COMPANY DESIGNATED AGENT REX C. RAY
 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330 ADDRESS 115 PROFESSIONAL PLACE P.O. BOX 280 BRIDGEPORT, WV 26330

01/20/2017

W.M. ADAMS LEASE OXF122 WELLS

NOTE: SEE SITE PLAN
OXF122 FOR COMPLETE
CONSTRUCTION &
EROSION & SEDIMENT
CONTROL DETAILS.

085-
10087



Professional Energy Consultants
A DIVISION OF BETHLAND SURVEYING, INC.
 **SLS**
TELEPHONE: 813.842.5654 WWW.SLSURV.COM
 SURVEYORS
 ENGINEERS
 ENVIRONMENTAL
 PROJECT MGMT.

SHEET 1 OF 2
 SCALE: 1"=500'
 0' 500' 1000'

DRAWN BY K.D.W.	FILE NO. 6811	DATE 03-31-16	CADD FILE: 6811E2PLAN.dwg
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TOPO SECTIONS OF OXFORD 7.5'
TOPO QUADRANGLE

01/20/2017

W.M. ADAMS LEASE OXF122 WELLS

NOTE: SEE SITE PLAN
OXF122 FOR COMPLETE
CONSTRUCTION &
EROSION & SEDIMENT
CONTROL DETAILS.

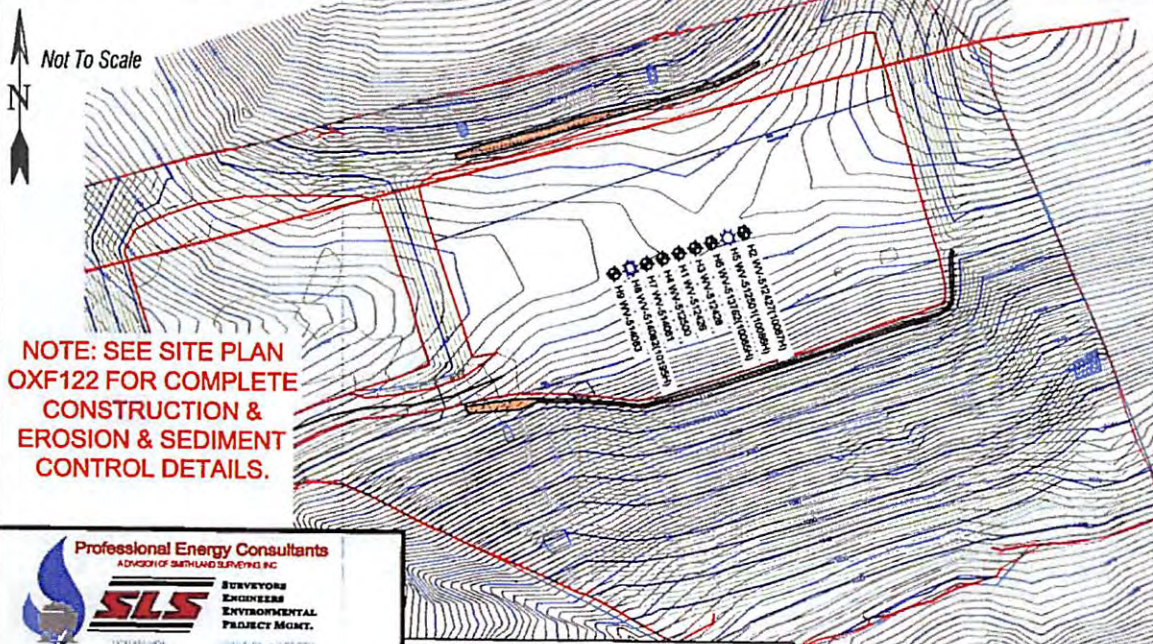
MATCH LINE

DRIDGE-
RITCHE
CO

SHEET 2 OF 2
SCALE: 1"=500'



Detail Sketch for Proposed OXF122 Well No.s WV 512426, WV 512427, WV 512428, WV 512500, WV 512501, WV 513762, WV 514081, WV 514082 & WV514083



NOTE: SEE SITE PLAN
OXF122 FOR COMPLETE
CONSTRUCTION &
EROSION & SEDIMENT
CONTROL DETAILS.

Professional Energy Consultants
A DIVISION OF S&P LAND SURVEYING INC.



**SURVEYORS
ENGINEERS
ENVIRONMENTAL
FACILITY MGMT.**

DRAWN BY K.D.W.	FILE NO. 6811	DATE 03-31-16	CADD FILE: 6811RZPLAN.dwg
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TOPO SECTIONS OF OXFORD 7.5'
TOPO QUADRANGLE