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

December 29, 2015

EQT PRODUCTION COMPANY
120 PROFESSIONAL PLACE
BRIDGEPORT, WV 26330

Re: Permit Modification Approval for API Number 10303122, Well #: 513921

Extended Lateral to Lease Line

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,

Laura L. Adkins

Gene Smith
Assistant Chief of Permitting
Office of Oil and Gas

December 29, 2015

Ms. Laura Adkins
West Virginia Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Modification of 47-103-03122

Dear Ms. Adkins,

Enclosed is an updated WW-6B, schematics, rec plan, and mylar plat. EQT would like to revise the length of the lateral. The top hole has not changed. There were no new leases added. This is the modification that Todd Klaner spoke with you about on 12/28/15.

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

Sincerely,

Vicki Roark
Permitting Supervisor-WV

Enc.

EQT Production 115 Professional Place I P.O. Box 280 I Bridgeport, WV 26330
T 304.848.0000 I F 304.848.0040 I www.eqt.com

WW - 6B
(9/13)

API NO. 47 - 103 - 03122
OPERATOR WELL NO. 513921
Well Pad Name: Big192

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

306686	103	4	254
Operator ID	County	District	Quadrangle

2) Operator's Well Number: 513921 Well Pad Name Big192

3) Farm Name/Surface Owner : Richard Dallison et al Public Road Access: RT 20

4) Elevation, current ground 1,452.0 Elevation, proposed post-construction: 1,452.0

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 7655 with the anticipated thickness to be 53 feet and anticipated target pressure of 2620 PSI

8) Proposed Total Vertical Depth: 7655
9) Formation at Total Vertical Depth: Marcellus
10) Proposed Total Measured Depth: 13313
11) Proposed Horizontal Leg Length 5,160
12) Approximate Fresh Water Strata Depths: 549, 581, 780
13) Method to Determine Fresh Water Depth: By offset wells
14) Approximate Saltwater Depths: 2257, 2370
15) Approximate Coal Seam Depths: 743, 804, 919, 1009, 1240,
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: _____

WW - 6B
(3/13)

API NO. 47 - 103 - 03122
OPERATOR WELL NO. 513921
Well Pad Name: BIG192

CASING AND TUBING PROGRAM

18)

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.)
Conductor	26	New	MC-50	77	40	40	49 C.T.S.
Fresh Water	13 3/8	New	J-55	54.5	974	974	847 C.T.S.
Coal	–	–	–	–	–	–	–
Intermediate	9 5/8	New	A-500	40	2,765	2,765	1,079 C.T.S.
Production	5 1/2	New	P-110	20	13,313	13,313	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 (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	26	30	0.312	-	18	Construction	1.18
Fresh Water	13 3/8	17 1/2	0.38	2,730	2184	* See Note 2	1.21
Coal							
Intermediate	9 5/8	12 3/8	0.395	3,950	3160	* See Note 2	1.21
Production	5 1/2	8 1/2	0.361	12,640	10112	-	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.
Note 2: Reference Variance 2014-17. (Attached)

API NO. 47 - 103 - 03122
OPERATOR WELL NO. 513921
Well Pad Name: BIG192

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 to go down to an approximate depth og 6851. Then kick off the horizontal leg into the Marcellus 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 internal casing pressure is 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): 0.15

22) Area to be disturbed for well pad only, less access road (acres): No Additional

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 % Calcuim 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.

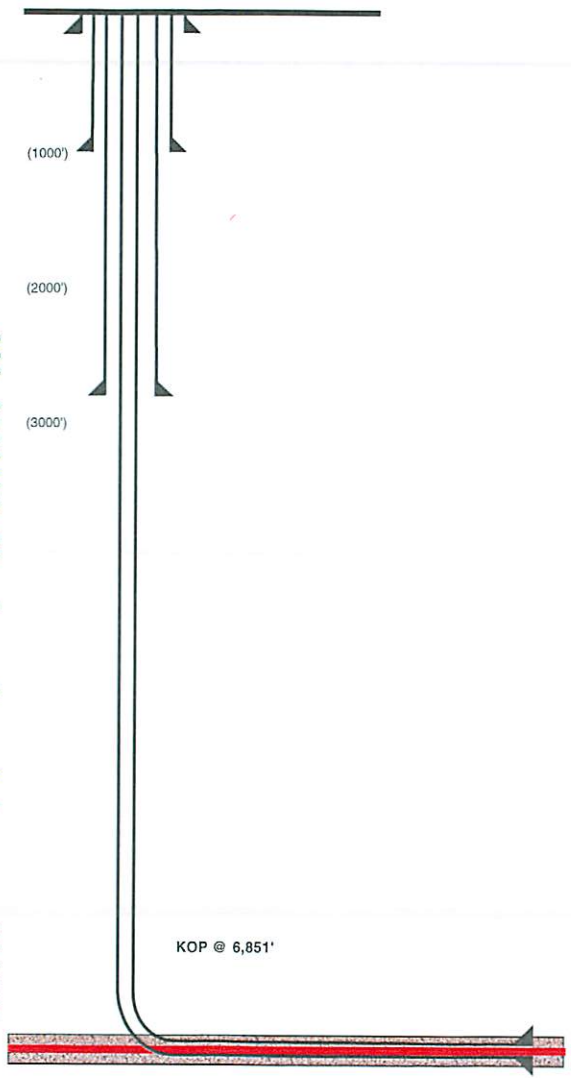
Production: Pump marker sweep with nut plug to determine actual hole washout. Calculate a gauge holes bottoms up volume. Perform a cleanup cycle by pumping 3-5 bottoms up or until the shakers are clean. Check volume of cuttings coming across the shakers every 15 minutes.

*Note: Attach additional sheets as needed.

Well 513921 (BIG192H17)
EQT Production
Big Run
Wetzel West Virgina

Azimuth 144.42
Vertical Section 5155

TVD Depth (feet)	Formation Tops (TVD)		
0'			
250'			
500'			
750'	Base Fresh Water	790	
	Base Red Rock	0	
1,000'			
1,250'			
1,500'			
1,750'			
2,000'			
2,250'			
2,500'	Maxton	2361 -	2416
	Big Lime	2491 -	2670
	Big Injun	2612 -	2675
2,750'	Int. csg pt	2775	
	Weir	2876 -	2913
3,000'	-Gantz	3021 -	3071
	-Fifty foot	3071 -	3111
3,250'	-Thirty foot	3174 -	3204
	-Gordon	3237 -	3313
3,500'	-Forth Sand	3310 -	3357
	-Bayard	3509 -	3548
3,750'			
	-Warren	3972 -	4124
4,000'	-Speechley	4124 -	4284
4,250'			
	-Balltown A	4284 -	5013
4,500'			
4,750'			
5,000'	-Riley	5013 -	5648
5,250'			
5,500'			
	-Benson	5648 -	5975
5,750'			
	-Alexander	5975 -	6017
6,000'			
6,250'			
6,500'			
6,750'	-Sonyea	7200 -	7363
	-Middlesex	7363 -	7416
7,000'	-Genesee	7416 -	7505
	-Geneseo	7505 -	7532
7,250'	-Tully	7532 -	7552
	-Hamilton	7552 -	7641
7,500'	Marcellus top	7641	
	Target Inside Marcellus	**7665**	
7,750'	Marcellus Bottom	7694	



Hole Size (inches)	Casing Type	Size (inches)	Wt (ppf)/Grade
30	Conductor	26	77#/MC-50
17 1/2	Surface	13 3/8	54.5#/J-55
12 3/8	Intermediate	9 5/8	40#/A-500
8 1/2	Production Casing	5 1/2	20#/P-110

Land curve @ 7,665' ft TVD
8,153' ft MD

Est. TD @ 7,665' ft TVD
13,313' ft MD

5,160' ft Lateral

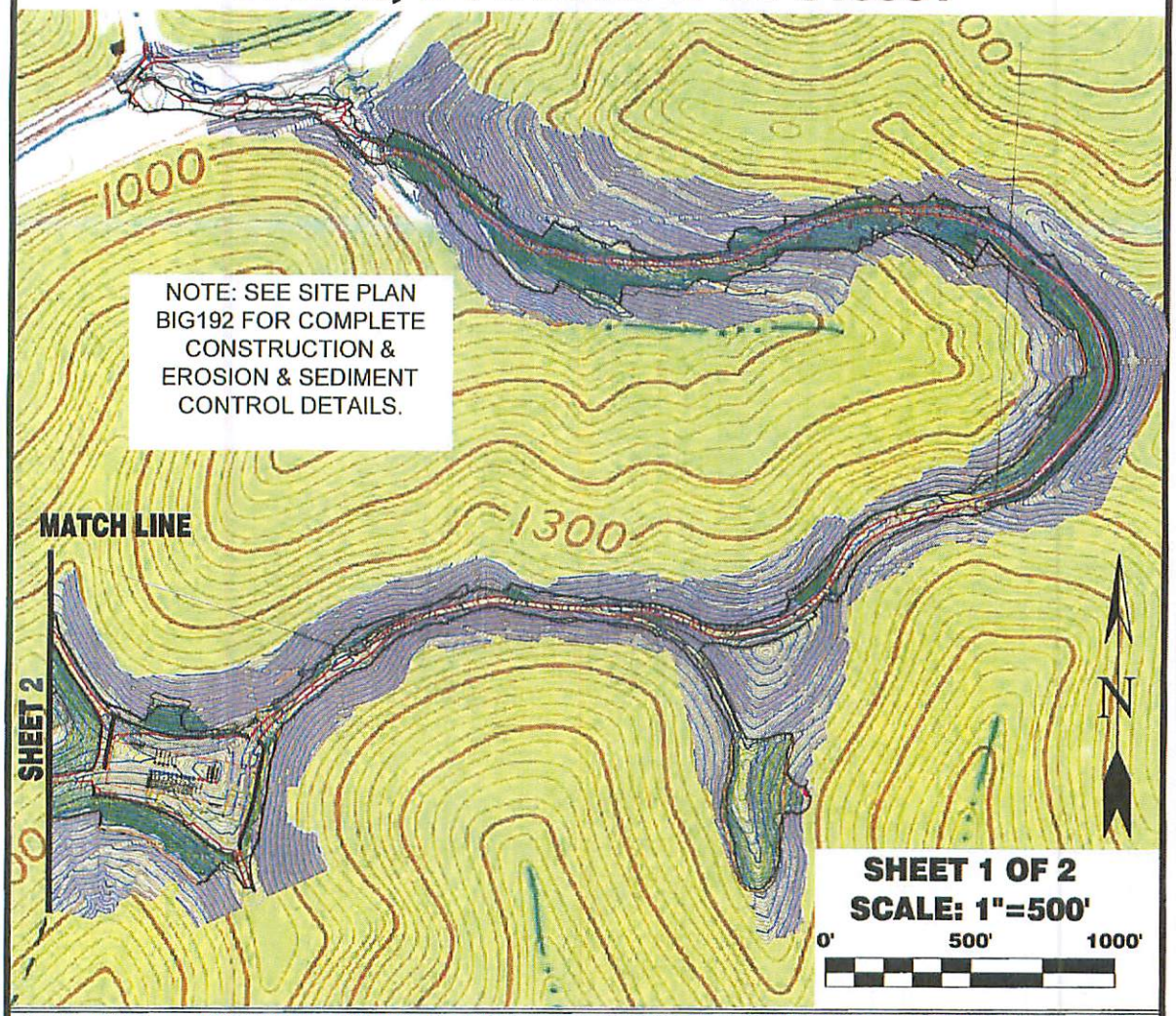
Proposed Well Work:
Drill and complete a new horizontal well in the Marcellus formation.
The vertical drill to go down to an approximate depth of 6851'.
Then kick off the horizontal leg into the Marcellus using a slick water frac.

Form WW-9

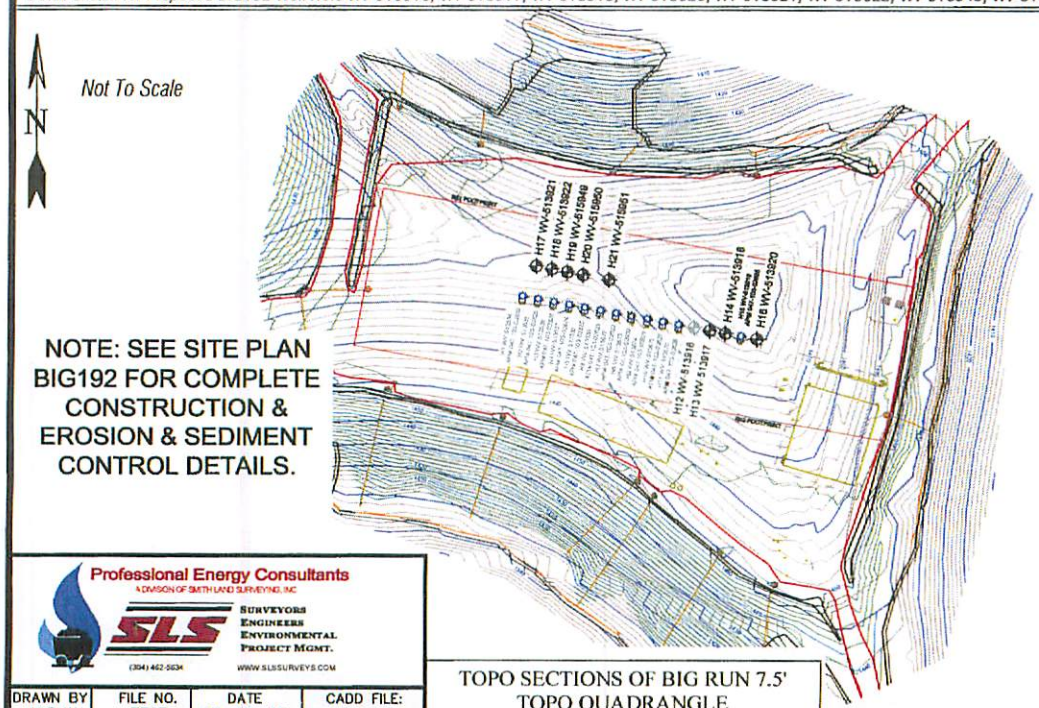
page of

ROBINSON LEASE

BIG192 WELL NO.S WV 513916, WV 513917, WV 513918, WV 513920, WV 513921, WV 513922, WV 515949, WV 515950 & WV 515951



Detail Sketch for Proposed BIG192 Well No.s WV 513916, WV 513917, WV 513918, WV 513920, WV 513921, WV 513922, WV 515949, WV 515950 & WV 515951



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A DIVISION OF SMITH LAND SURVEYING, INC
SLS SURVEYORS ENGINEERS ENVIRONMENTAL PROJECT MGMT.
(304) 462-5634 WWW.SLSSURVEYS.COM

DRAWN BY	FILE NO.	DATE	CADD FILE:
K.D.W.	7797	02-24-15	7797RECBIG192R.dwg

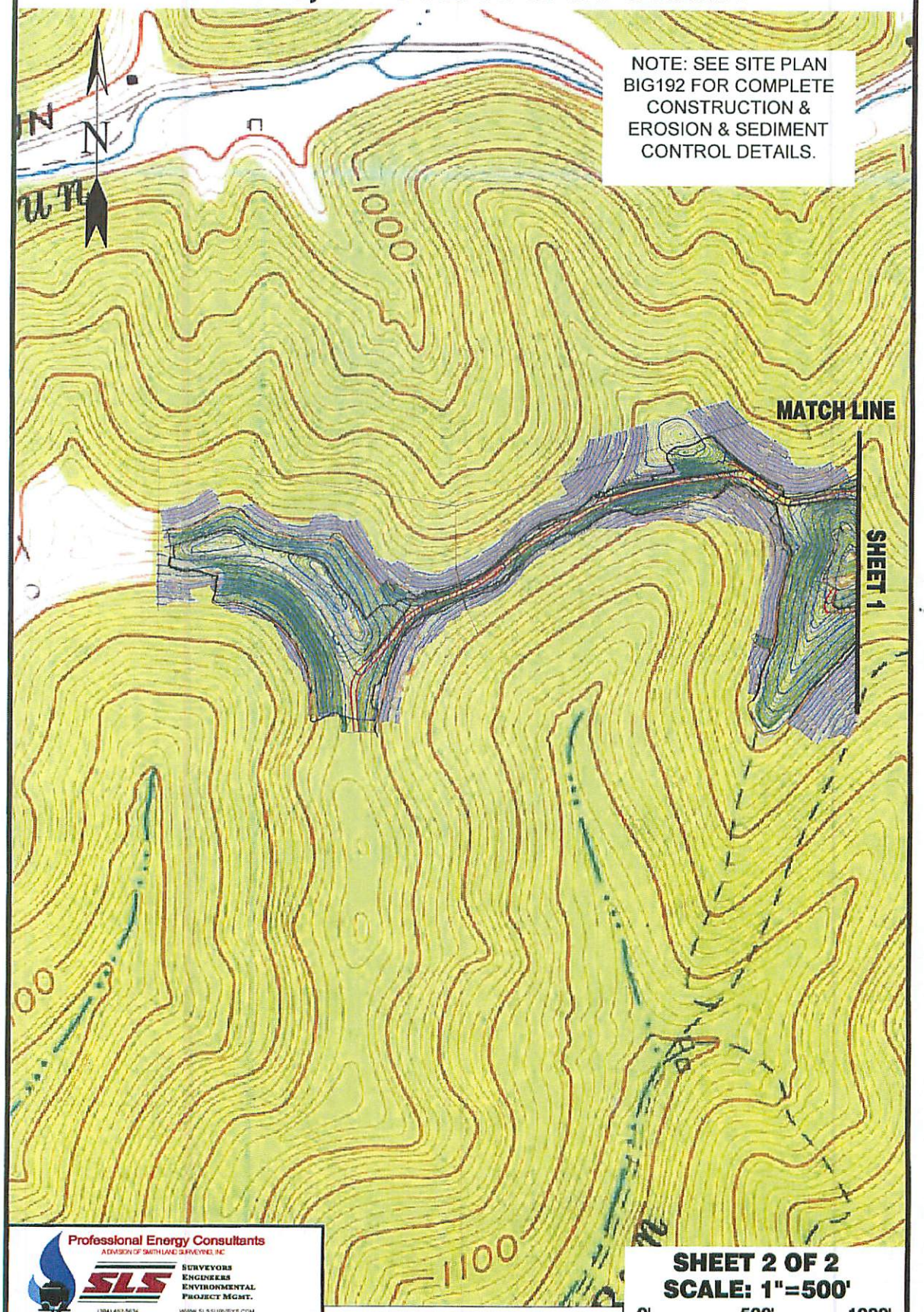
TOPO SECTIONS OF BIG RUN 7.5' TOPO QUADRANGLE

Form WW-9

page of

ROBINSON LEASE

BIG192 WELL NO.S WV 513916, WV 513917, WV 513918, WV 513920, WV 513921, WV 513922, WV 515949, WV 515950 & WV 515951



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DRAWN BY	FILE NO.	DATE	CADD FILE:
K.D.W.	7797	02-24-15	7797REC\BIG192R.dwg

TOPO SECTIONS OF BIG RUN 7.5' TOPO QUADRANGLE

SHEET 2 OF 2

SCALE: 1"=500'

0' 500' 1000'

EQT

December 29, 2015

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

Re: Modification of 47-103-03122

Dear Mr. Smith,

Upon information and belief, Operator's (EQT) lease and/or other real property rights permit it to conduct drilling operations for the subject well in the location shown on the plat dated 12/28/15, including under any public roads that the well lateral crosses.

Sincerely,

Vicki Roark
Permitting Supervisor-WV

Enc.

FORM WW 6

11,605'

LATITUDE 39°32'30"

EQT PRODUCTION COMPANY
ROBINSON LEASE
1,100 ACRES±
WELL NO. WV 513921

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

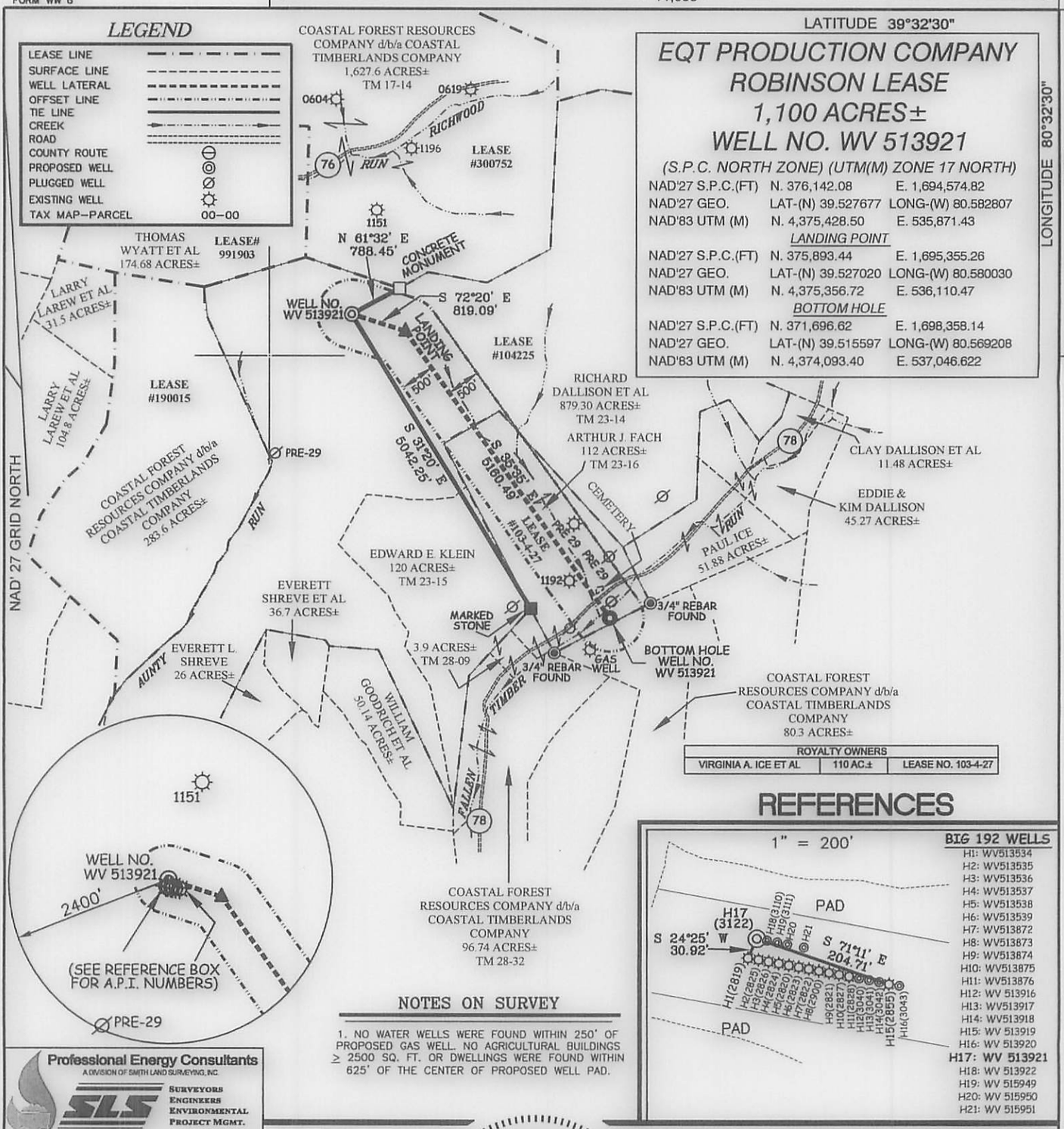
NAD'27 S.P.C.(FT)	N. 376,142.08	E. 1,694,574.82
NAD'27 GEO.	LAT-(N) 39.527677	LONG-(W) 80.582807
NAD'83 UTM (M)	N. 4,375,428.50	E. 535,871.43
LANDING POINT		
NAD'27 S.P.C.(FT)	N. 375,893.44	E. 1,695,355.26
NAD'27 GEO.	LAT-(N) 39.527020	LONG-(W) 80.580030
NAD'83 UTM (M)	N. 4,375,356.72	E. 536,110.47
BOTTOM HOLE		
NAD'27 S.P.C.(FT)	N. 371,696.62	E. 1,698,358.14
NAD'27 GEO.	LAT-(N) 39.515597	LONG-(W) 80.569208
NAD'83 UTM (M)	N. 4,374,093.40	E. 537,046.622

LONGITUDE 80°32'30"

5,096'

LEGEND

- LEASE LINE
- SURFACE LINE
- WELL LATERAL
- OFFSET LINE
- TIE LINE
- CREEK
- ROAD
- COUNTY ROUTE
- PROPOSED WELL
- PLUGGED WELL
- EXISTING WELL
- TAX MAP–PARCEL 00–00



ROYALTY OWNERS		
VIRGINIA A. ICE ET AL	110 AC.±	LEASE NO. 103-4-27

REFERENCES

BIG 192 WELLS

H1: WV513534
H2: WV513535
H3: WV513536
H4: WV513537
H5: WV513538
H6: WV513539
H7: WV513872
H8: WV513873
H9: WV513874
H10: WV513875
H11: WV513876
H12: WV 513916
H13: WV513917
H14: WV513918
H15: WV 513919
H16: WV 513920
H17: WV 513921
H18: WV 513922
H19: WV 515949
H20: WV 515950
H21: WV 515951

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 625' OF THE CENTER OF PROPOSED WELL PAD.

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SLS — SURVEYORS, ENGINEERS, ENVIRONMENTAL, PROJECT MGMT.
(304) 462-5634 WWW.SLSSURVEYS.COM

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.

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

C. VICTOR MOYERS LICENSED No. 849 STATE OF WEST VIRGINIA PROFESSIONAL SURVEYOR

DATE MAY 05 , 20 15

REVISED 07/21/15 & 12/28/15

OPERATORS WELL NO. WV 513921

API WELL NO. 47 — 103 — 03122 HGA MOD
STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 7797P513921R2

SCALE 1" = 2000'

HORIZONTAL & VERTICAL CONTROL DETERMINED BY DGPS (SURVEY GRADE TIE TO CORS NETWORK)

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

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

LOCATION :
ELEVATION 1,452' (PAD ELEVATION) WATERSHED AUNTY RUN OF SOUTH FORK FISHING CREEK
DISTRICT GRANT COUNTY WETZEL QUADRANGLE BIG RUN 7.5'
SURFACE OWNER RICHARD DALLISON ET AL ACREAGE 879.30±
ROYALTY OWNER ED BROOME, INC ET AL ACREAGE 1,100±
PROPOSED WORK : LEASE NO. 104225
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 TVD 7,631'

COUNTY NAME

PERMIT

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

FORM WW 6

EQT PRODUCTION COMPANY
ROBINSON LEASE
1,100 ACRES±
WELL NO. WV 51392I

(S.P.C. NORTH ZONE) (UTM(M) ZONE 17 NORTH)

NAD'27 S.P.C.(FT)	N. 376,142.08	E. 1,694,574.82
NAD'27 GEO.	LAT-(N) 39.527677	LONG-(W) 80.582807
NAD'83 UTM (M)	N. 4,375,428.50	E. 535,871.43

LANDING POINT

NAD'27 S.P.C.(FT)	N. 375,893.44	E. 1,695,355.26
NAD'27 GEO.	LAT-(N) 39.527020	LONG-(W) 80.580030
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BOTTOM HOLE

NAD'27 S.P.C.(FT)	N. 371,696.62	E. 1,698,358.14
NAD'27 GEO.	LAT-(N) 39.515597	LONG-(W) 80.589208
NAD'83 UTM (M)	N. 4,374,093.40	E. 537,046.622

LATITUDE 39°32'30"

LONGITUDE 80°35'30"

980'±

11,605'

NAD '27, GRID NORTH

LEGEND

LEASE LINE
SURFACE LINE
WELL LATERAL
OFFSET LINE
TIE LINE
CREEK
ROAD
COUNTY ROUTE
PROPOSED WELL
PLUGGED WELL
EXISTING WELL
TAX MAP–PARCEL 00–00

ROYALTY OWNERS		
VIRGINIA A. ICE ET AL	110 AC.±	LEASE NO. 103-4-27

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 625' OF THE CENTER OF PROPOSED WELL PAD.

REFERENCES

1" = 200'

PAD

S 24°25' W 30.82'
S 71°11' E 204.71'
H17 (3122)
H1(3122) H2(3122) H3(3122) H4(3122) H5(3122) H6(3122) H7(3122) H8(3122) H9(3122) H10(3122) H11(3122) H12(3122) H13(3122) H14(3122) H15(3122) H16(3122)

PAD

BIG 122 WELLS
H1: WV51934
H2: WV51935
H3: WV51936
H4: WV51937
H5: WV51938
H6: WV51939
H7: WV51872
H8: WV51873
H9: WV51874
H10: WV51875
H11: WV51876
H12: WV 51916
H13: WV51917
H14: WV51918
H15: WV 51919
H16: WV 51920
H17: WV 51392I
H18: WV 51922
H19: WV 51949
H20: WV 51950
H21: WV 51951

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ENGINEERS
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(304) 462-5634 WWW.SLSSURVEY.COM

P.S. 849

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.

C. Victor Moyers

C. VICTOR MOYERS
LICENSED
No. 849
STATE OF WEST VIRGINIA
PROFESSIONAL SURVEYOR

WELL NO. API	STATE 47	COUNTY 103	PERMIT 03199

HLA MOD

OPERATORS WELL NO. WV 51392I

REVISED 07/21/15 & 12/28/15

DATE MAY 05, 20 15

STATES TOPOGRAPHIC MAPS.
(+) DENOTES LOCATION OF WELL ON UNITED

MINIMUM DEGREE OF ACCURACY 1 / 200

FILE NO. 77979513921R2

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 X INJECTION ___ LIQUID DISPOSAL ___ WASTE IF "GAS" PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X

LOCATION:
ELEVATION 1,452' (PAD ELEVATION) WATERSHED AUNTY RUN OF SOUTH FORK FISHING CREEK
DISTRICT GRANT COUNTY WETZEL QUADRANGLE BIG RUN 7.5'
SURFACE OWNER RICHARD DALLISON ET AL ACREAGE 879.30±
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PROPOSED WORK: LEASE NO. 104225
DRILL X CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE X 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 TVD 7,631'

COUNTY NAME

PERMIT

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

2/12

Adkins, Laura L

From: Adkins, Laura L
Sent: Tuesday, December 29, 2015 2:51 PM
To: 'Roark, Vicki'
Subject: 103-03122 Modification

Vicki,

Looks like the only thing I need for this modification approval is a letter or a 6A1 stating that you have rights to the minerals under the road. The original permit didn't include the lateral drilling beneath the road.

Thank you,

Laura

Laura L. Adkins
Environmental Resource Specialist III
Permit Review
WVDEP Office of Oil and Gas
601 57th Street, SE
Charleston, WV 25304
304-926-0499 ext. 1495