



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

November 29, 2016
PERMIT MODIFICATION APPROVAL
Horizontal 6A / Horizontal 6A Well - 1

NORTHEAST NATURAL ENERGY LLC
707 VIRGINIA STREET EAST
STE 1200
CHARLESTON, WV 25301

Re: Permit Modification Approval for FISHER 10H
47-061-01738-00-00

Lateral Extension

NORTHEAST NATURAL ENERGY LLC

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: FISHER 10H
Farm Name: FISHER, AARON K.
U.S. WELL NUMBER: 47-061-01738-00-00
Horizontal 6A / Horizontal 6A Well - 1
Date Issued: November 29, 2016

Promoting a healthy environment.

12/02/2016

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

1) Well Operator: Northeast Natural Energy LLC 494498281 Monongalia Clay Blacksville
Operator ID County District Quadrangle

2) Operator's Well Number: Fisher 10H Well Pad Name: Fisher

3) Farm Name/Surface Owner: Aaron K. Fisher Public Road Access: State Route 218 (Daybrook Road)

4) Elevation, current ground: 1480' Elevation, proposed post-construction: 1453.04'

5) Well Type (a) Gas Oil Underground Storage

Other

(b) If Gas Shallow Deep

Horizontal

6) Existing Pad: Yes or No No

MDK 6/9/2016

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Marcellus, 8,277' , 103' , 3,600 psi

8) Proposed Total Vertical Depth: 8,277'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17,775.22'

11) Proposed Horizontal Leg Length: 8,438'

12) Approximate Fresh Water Strata Depths: 50' , 1,373'

13) Method to Determine Fresh Water Depths: Driller's Log from Offset Wells

14) Approximate Saltwater Depths: 1,969' , 2,619'

15) Approximate Coal Seam Depths: 819' , 1,371'

16) Approximate Depth to Possible Void (coal mine, karst, other): N/A

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes No

(a) If Yes, provide Mine Info: Name: Adjacent Mine - Federal No. 2

Depth: 1,100'

Seam: Pittsburgh

Owner: ERP Federal Mining Complex, LLC

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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	24"	New	NA	94.71	40'	40'	GTS
Fresh Water	13-3/8"	New	J-55	54.5	1,451'	1,428'	CTS
Coal							
Intermediate	9-5/8"	New	J-55	40	2,680'	2,650'	CTS
Production	5-1/2"	New	P-110	20	17,775'	17,745'	4,139 Cu. Ft.
Tubing	2-7/8"	New	N-80	6.5	NA	8,500'	NA
Liners							

MJK 6/9/2016

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	24"	30"	.375	415		4,500 psi Grout	NA
Fresh Water	13-3/8"	17 1/2"	.38"	2,760	2,000	Class A	1.23
Coal							
Intermediate	9-5/8"	12 1/4"	.395"	3,950	3,000	Class A	1.3
Production	5-1/2"	8 3/4"	.361"	12,530	9,700	50:50 Poz	1.21
Tubing	2-7/8"	NA	.217"	10,570	3,600	NA	NA
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:

Drilling and completion of a horizontal Marcellus well. The well will be drilled on air to an approximate depth of 6,342.47' TVD/MD. The well will then be horizontally drilled on synthetic based mud from the KOP to approximately 8,277' TVD / 17,775.22' MD along a 143 degree azimuth.

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

Multi-stage / high-rate slickwater fracture treatment using various size sands as proppant. First stage will be initiated via pressurization against a burst disc ran in the production casing string or perforated with coiled tubing. Subsequent stages will be perforated with pumped down guns ran on wireline. Individual stages will be isolated with composite frac plugs. Maximum pump rate during any stage will be 110 BPM with a maximum allowable surface pressure of 9,500 PSI. Composite bridge plugs will be set at the end of the last stage to isolate the treated formation.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 26.9

22) Area to be disturbed for well pad only, less access road (acres): 9.7

23) Describe centralizer placement for each casing string:

Surface and intermediate casing strings will have bow spring centralizers placed every third joint (~120') from the shoe joint to surface. Production casing will have rigid body centralizers placed at a minimum of every fourth joint (~160') from TD to surface.

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

Surface string cement will be a Class A + Max 3% bwoc Calcium Chloride Fresh Water blend. Intermediate string cement will be a Class A Cement + Max 3% bwoc Calcium Chloride + Fresh Water. Production string cement will be (50:50) Poz (Fly Ash):Type I Cement with a gas migration additive.

25) Proposed borehole conditioning procedures:

Surface string will use a 25.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Intermediate string will use a 25.0 bbls Gel Pill + LCM + 25 lbs Cello Flake + 20 lbs/bbl Bentonite @ 8.4 ppg & 10 bbls fresh water spacer prior to cement. Production string will use a 50.0 bbls SealBond 25 + 1 gal/bbl US-40 + 275 lbs/bbl Barite + 1 gal/bbl SS-2 Spacer @ 13.5 ppg prior to cement.

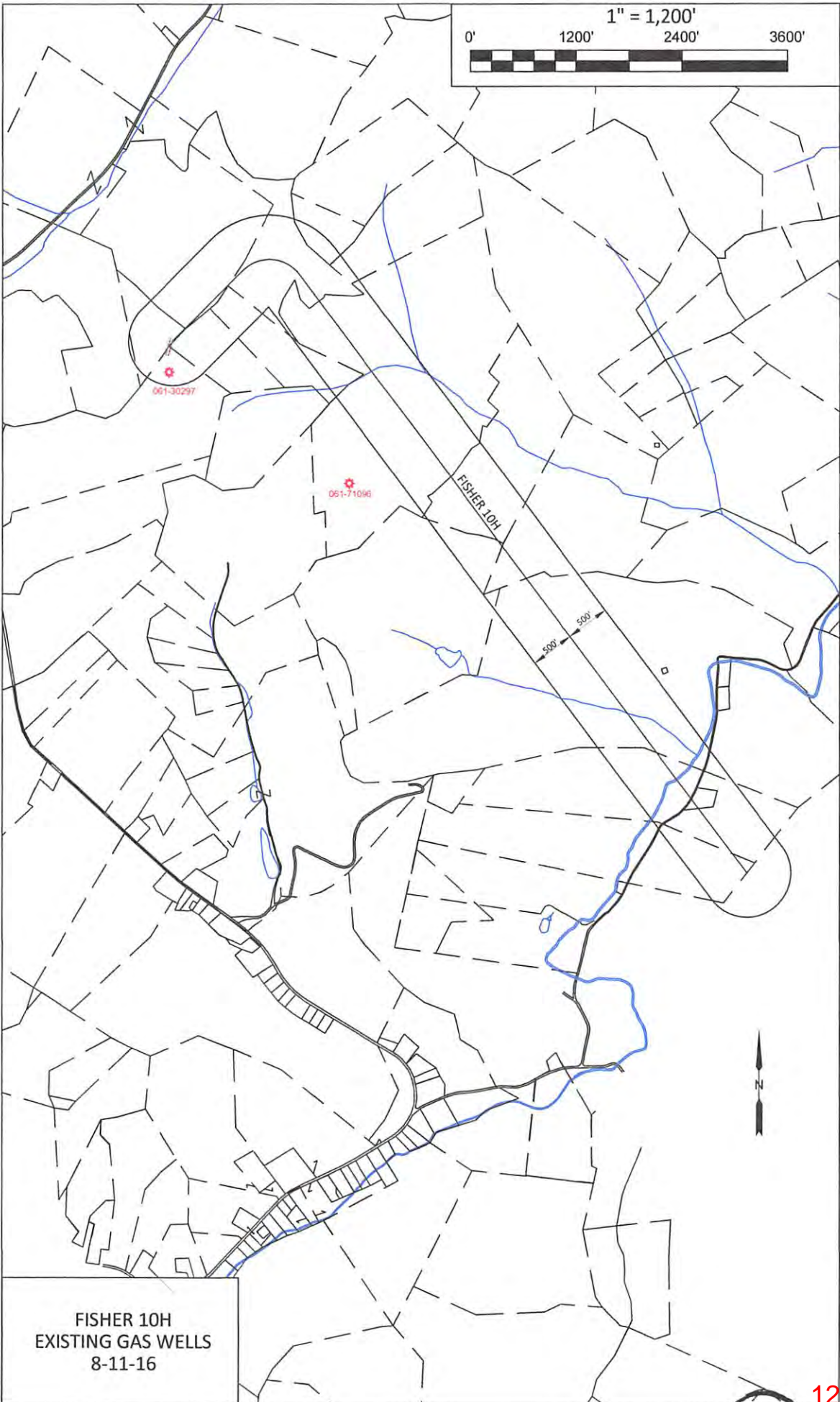
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*Note: Attach additional sheets as needed.

Fisher 10H - Area of Review

API Number	Well Name	Well Number	Operator	Latitude (NAD 27)	Longitude (NAD 27)	TMP	TVD	Producing Formation
47-061-302970000	R W SINE/LOU KENT SINE	1	HOPE NATURAL GAS COMPANY	39.69540	-80.21390	8-7-8	unknown	Pre 1929 No Records



FISHER 10H
EXISTING GAS WELLS
8-11-16

61-01738 MOD

WW-6A1
(5/13)

Operator's Well No. Fisher 10H

**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
See Attachment	See Attachment	See Attachment	See Attachment	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: Northeast Natural Energy LLC
 By: Hollie M. Medley
 Its: Regulatory Coordinator

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 JUN 10 2016
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 Page 1 of 7

12/02/2016

61-01738 May

Operator's Well No.

Fisher 10H

NNE Lease No.	Lessor Name	Lessee Name	Royalty	Book/Page
WV-061-001938-001	SIMPSON, EDNA F.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1388/035
WV-061-001938-002	SIMPSON, EDNA F.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1526/128
WV-061-002534-001	SHUMAN, INC.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1429/366
WV-061-001127-001	AMES, HENRY P. III	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1359/671
WV-061-002534-001	SHUMAN, INC.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1429/366
WV-061-003618-001	SHUMAN, INC.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1539/411
WV-061-001080-001	ZASTROW, LORITA MARIE AND STEVE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1500/135
WV-061-001080-002	HENRY, DOIS MAE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1500/133
WV-061-001080-003	MAKIN, LINDA LORRAINE AND JAMES	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1500/137
WV-061-001080-004	HENRY, KEITH AND IDA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1500/390
WV-061-001080-005	FULTZ, BETTY AND DANIEL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1500/266
WV-061-001080-006	SINE, ERNEST LEROY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1500/268
WV-061-001080-007	HADLEY, RONALD E.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1505/163
WV-061-001080-008	SINE, MARY ANN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1505/155
WV-061-001080-009	COLLINS, JOANN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1505/379
WV-061-001080-010	LENTZ, SUSAN RANAE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/395
WV-061-001080-011	SINE, DOROTHY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/271
WV-061-001080-012	SINE, LARRY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/706
WV-061-001080-013	PIRIE, MARY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/775
WV-061-001080-014	SINE, PHILIP	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/770
WV-061-001080-015	MILLER, PERRY WILLIAM JR. AN SHIRLEY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1509/244
WV-061-001080-016	SINE, SUSAN J.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1508/620
WV-061-001080-017	HOUCHIN, BEVERLY A.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1508/618
WV-061-001080-018	MILLER, PHILLIP EUGENE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/762
WV-061-001080-019	PENHERWOOD, ROSEMARY GAE AND DOUGLAS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1510/95
WV-061-001080-020	HENRY, NANCY JANE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1516/766
WV-061-001080-021	COLLINS, DARRELL ROY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1510/91
WV-061-001080-022	MILLER, DONALD KEITH AND TAMI	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1511/787
WV-061-001080-023	SINE, JAMES R.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1511/763
WV-061-001080-024	COLINS, LARRY G.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1510/516
WV-061-001080-025	HENRY, KATHRYN A.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1510/643
WV-061-001080-026	COLLINS, CINDY SUE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/738
WV-061-001080-027	COLLINS, PAUL MARVIN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/736
WV-061-001080-028	COLLINS, ROBERT LEE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/726
WV-061-001080-029	ROGERS, LAURA A.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1534/78
WV-061-002534-001	SHUMAN, INC.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1429/366
WV-061-002589-001	WACO OIL & GAS CO. INC.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1441/1
WV-061-002621-001	REVOCABLE TRUST OF ROBERT M. SPRAGG	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1441/411
WV-061-002657-001	DAWSON, MARY SPRAGG	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1451/458
WV-061-002657-002	SIMS, JERRY E. AND JOYCE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/37
WV-061-002657-003	WATKINS, ROBERT D. AND JANICE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/101
WV-061-002657-004	WATKINS, DOUGLAS D. AND JEAN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/82
WV-061-002657-005	TENNANT, KENT S.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/97
WV-061-002657-006	GEISSINGER, CONNIE AND WAYNE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/99
WV-061-002657-007	TENNANT, JOE S. AND KAREN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/756
WV-061-002657-008	TENNANT, STEPHEN A. AND MARCIA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1505/135
WV-061-002657-009	WATKINS, TOMMY D.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/799
WV-061-002657-010	WATKINS, MACK	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/581
WV-061-002657-011	COLEMAN, JANET	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/789
WV-061-002657-012	SELL, JOYCE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/691
WV-061-002657-013	WATKINS, JO ANN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/803
WV-061-002657-014	WATKINS, DAVID	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/571
WV-061-002657-015	CORTES, LISA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/80
WV-061-002657-016	SWARTZ, CARL E.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/801
WV-061-002657-017	FRITZ, KIM DAVID AND NANCY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/783
WV-061-002657-018	KETELSEN, MARY ANNE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/686
WV-061-002657-019	TENNANT, NELLIE G.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/577

WV Department of Environmental Protection
12/02/2016

61-01738 MW

WV-061-002657-020	MAIN, DONLEY CARR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/785
WV-061-002657-021	SIMS, DANIEL T.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1514/100
WV-061-002657-022	TENNANT, LEO KEITH	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/727
WV-061-002657-023	LARRY, RUTH ELLEN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1514/65
WV-061-002657-024	TENNANT, MARK M. AND JEAN I.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1514/8
WV-061-002657-025	BOHM, JEAN-CLARE SIMS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1515/845
WV-061-002657-026	KRIDER, SANDRA K. AND WILLIAM S.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/554
WV-061-002657-027	WILSON, JUDY I. AND ROBERT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1513/836
WV-061-002657-028	ELLIS, EVA L. AND ROBERT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1516/229
WV-061-002657-029	TENNANT, D. RAY AND BARBARA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1516/221
WV-061-002657-030	SIMS, PHILLIP J. AND VICKI	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1514/53
WV-061-002657-031	TENNANT, ROBERT W.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1513/314
WV-061-002657-032	TENNANT, JOSEPH B.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1513/304
WV-061-002657-033	TENNANT, TERESA LEIGH	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1513/306
WV-061-002657-034	TENNANT, MARK M. AND JEAN I.	NORTHEAST NATURAL ENERGY LLC	DEED	1516/552
WV-061-002657-035	HUBER, BARBARA AND DAVE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1520/306
WV-061-002657-036	TENNANT, JOE S. AND KAREN	NORTHEAST NATURAL ENERGY LLC	DEED	1521/55
WV-061-002657-037	TENNANT, MARION EMROD	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1520/80
WV-061-002657-038	SCHUSTER, SHARON K. AND CARL E.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1520/304
WV-061-002657-039	LUCKEY, CAROL A. AND DAVID M.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/125
WV-061-002657-040	TENNAN, GOLDENE B.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1519/802
WV-061-002657-041	HARRISON, SHERRY L.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1520/673
WV-061-002657-042	HALBROOK, JACQUELYN M. AND DONALD R.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/576
WV-061-002657-043	KIRBY, LORI AND GARY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1520/678
WV-061-002657-044	TENNANT, MARION LAVERN AND GINGER J.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/186
WV-061-002657-045	TENNANT, SUE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1524/261
WV-061-002657-046	WAGNER, PATRICIA JOANN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1541/250
WV-061-003528-001	TENNANT, JAN L. AND RICHARD COOPER	NORTHEAST NATURAL ENERGY LLC	DEED	1524/225
WV-061-003535-001	WATKINS, ROBERT D. AND JANICE	NORTHEAST NATURAL ENERGY LLC	DEED	1532/384
WV-061-003271-001	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/244
WV-061-003271-002	STATOIL USA ONSHORE PROPERTIES	*STATOIL USA ONSHORE PROPERTIES INC.	0.125 OR GREATER	1488/744
WV-061-003274-001	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/220
WV-061-003274-002	STATOIL USA ONSHORE PROPERTIES	*STATOIL USA ONSHORE PROPERTIES INC.	0.125 OR GREATER	1488/760
WV-061-003274-003	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/240
WV-061-003274-004	STATOIL USA ONSHORE PROPERTIES	*STATOIL USA ONSHORE PROPERTIES INC.	0.125 OR GREATER	1488/729
WV-061-003309-001	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/228
WV-061-003309-002	STATOIL USA ONSHORE PROPERTIES	*STATOIL USA ONSHORE PROPERTIES INC.	0.125 OR GREATER	1488/752
WV-061-001079-000	BASILE, JOHN	NORTHEAST NATURAL ENERGY LLC	ROW	1491/729
WV-061-002352-001	BASILE, JOHN	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1410/646
WV-061-002352-002	WILDMAN, WINIFRED H.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/131
WV-061-002352-003	SLEETH, LUZETTA GALE MOORE PRATT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/372
WV-061-002352-004	ROX, ALBERT R. AND ARTA S.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/319
WV-061-002352-005	WRIGHT, M. DONALD AND JANE C.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/105
WV-061-002352-006	SUSKIND, MARY WRIGHT AND I. RUSSELL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/94
WV-061-002352-007	PRATT, ROGER AND TERRY LEE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/350
WV-061-002352-008	KRIER, MARGARET WRIGHT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/610
WV-061-002352-009	BUTCHER, LUTECIA AND FREDDIE L.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1525/216
WV-061-002352-010	MOORE, ROGER D. AND RUBY I.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1525/210
WV-061-002352-011	MOORE, KENNETH JR. AND SHARON L.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1524/240
WV-061-002352-012	MOORE, PHILLIP D.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1525/246
WV-061-002352-013	HARKER, BARBARA J.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1528/82
WV-061-002352-014	KRENCY, MARY J. AND ROBERT	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/572
WV-061-002352-015	STEWART, EARL L. AND LINDA S.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/768
WV-061-002352-016	MORRIS, SARA DAWN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/542
WV-061-002352-017	THARP, LARRY W. AND PATRICIA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/538
WV-061-002352-018	PECJAK, LOIS S. AND JERE F.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/845
WV-061-002352-019	VARNER, PAMELA J. AND EVERETT E.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/556
WV-061-002352-020	BANE, EILEEN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/590
WV-061-002352-021	AYERSMAN, LILA S. AND JOSEPH V.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/847
WV-061-002352-022	STEWART, ELEANOR L.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/566
WV-061-002352-023	STEWART, JOAN L.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/570

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12/02/2016

61-1738 new

WV-061-002352-024	MOORE, HAROLD W. JR. AND SANDY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1532/105
WV-061-002352-025	MOONEY, ELVA S.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1531/88
WV-061-002352-026	STEWART, JEFF BARR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1532/716
WV-061-002352-027	THARP, LARRY RICHARD AND MYRNA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1532/610
WV-061-002352-028	STEWART, JOHN MARK	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1532/695
WV-061-002352-029	ENLOW, JUDY LANE AND CHARLES WILLIAM	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1536/539
WV-061-002352-030	STEWART, LOYE G. AND DEBRA K.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1538/66
WV-061-002352-032	LEMLEY, KENNETH GERALD AND ANN C.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1539/37
WV-061-002352-033	LEMELY, FRANKLIN EUGENE AND WILLIE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1539/47
WV-061-002352-034	MACBETH, SHIRLEY RUTH	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1539/35
WV-061-002352-035	HOSKINS, FRANCES MYRTLE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1539/20
WV-061-002352-036	GRANT, PEGGY ANN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1541/313
WV-061-002352-037	HAUENSTEIN, AMY SUE AND BRADLEY DEAN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1542/89
WV-061-002352-038	BROTHERTON, LOIS MAE AND GLEN D.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1542/511
WV-061-002352-039	BYERS, SUSAN JANE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1540/624
WV-061-002352-045	WADE, LEANNA R.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1544/108
WV-061-002352-046	GALLATIN, MELVIN PAUL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1544/104
WV-061-002352-047	PIKE, PATSY ADELE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1542/10
WV-061-002352-050	LEPPARD, DIAE CAROL AND TEDDY ALLEN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1542/8
WV-061-002352-054	LEMLEY, PAUL DAVID	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1542/24
WV-061-002352-057	ALLISON, REX ALLEN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1544/92
WV-061-003575-001	SUSKIND, MARY WRIGHT AND I. RUSSELL	NORTHEAST NATURAL ENERGY LLC	DEED	1530/83
WV-061-003575-002	KRIER, MARGARET WRIGHT AND GARY E.	NORTHEAST NATURAL ENERGY LLC	DEED	1529/476
WV-061-003575-003	WRIGHT, M. DONALD AND JANE C.	NORTHEAST NATURAL ENERGY LLC	DEED	1530/79
WV-061-002351-001	PRICE, DAVID L. AND SUSAN ROSE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1412/815
WV-061-002351-002	WALKER, SUSAN ANN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/739
WV-061-002351-003	WHITTAKER, SYLVIA AND JOHN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/405
WV-061-002351-004	THROCKMORTON, SANDRA L. AND FRANCIS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/680
WV-061-002351-005	SINCE, ROBERT AND LAURIE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/569
WV-061-002351-006	JOHNSON, DIANA AND HARRY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/818
WV-061-002351-007	SINE, GARY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/281
WV-061-002351-008	KENNEDY, NORMA J.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1509/527
WV-061-002351-009	KENNEDY, RUSSELL AND DELORIS	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1518/11
WV-061-002351-010	NICHOLSON, HELEN AND RONALD	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1518/9
WV-061-002351-011	CLEMMER, LINDA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/816
WV-061-002351-012	POLANSKY, EMELIA B.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/785
WV-061-002351-013	STOVER, NANCY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/722
WV-061-002351-014	GASKINS, DEBORA KENNEDY AND GARY M.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1521/584
WV-061-002351-015	CARMONDY, OLIVE JEAN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1526/130
WV-061-002351-016	TOTH, FRANK E.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/226
WV-061-002351-017	LOUGH, WILLIAM J.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/120
WV-061-002351-018	DOLAN, MARY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1531/826
WV-061-002351-019	CHISLER, LARRY AND SANDRA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1536/318
WV-061-002351-020	VIZZINI, VIRGINIA HELEN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1536/597
WV-061-002351-021	CHISLER, ROBERT L. AND PATRICIA A.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1535/699
WV-061-002351-022	CHISLER, PEGGY L.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1535/689
WV-061-002351-023	CHISLER, RODDY DEAN AND CAROLYN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1535/109
WV-061-002351-024	MOORE, MARY E. AND LARRY P.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1533/86
WV-061-002351-025	TENNANT, BRYAN D.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1538/147
WV-061-002351-026	DEVINE, CURTIS L. AND ELAINE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1542/16
WV-061-002351-036	STUYVESANT AND RUSSELL J.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1544/377
WV-061-003956-001	ERP FEDERAL MINING COMPLEX, LLC	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1552/61
WV-061-003431-001	WILLARD, CLARENCE S.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/521
WV-061-001572-001	TENNANT, PAULINE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1383/616
WV-061-001572-002	SNYDER, LILLIAN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1382/842
WV-061-003638-001	VERBOSKY, MARY LOU	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1539/358
WV-061-002875-001	MYERS, JUNE C.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/371
WV-061-002875-002	SMYRES, ETHEL WRIGHT WAGNER	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1424/833
WV-061-002875-003	LONDOT, WILMA WRIGHT	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/262
WV-061-002875-004	CODY, DOROTHY C.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/223
WV-061-002875-005	WRIGHT, WILLIS G.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1425/508

12/02/2016

61-01738 MW

WV-061-002875-006	EMILY BROADWATER ESTATE	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1444/359
WV-061-002875-007	COLE, WALTER JR.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1511/781
WV-061-002875-008	CRYDER, JASON R.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1516/769
WV-061-002875-009	YOUNG, LAURA CRYDER	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/57
WV-061-002875-010	HENSEN, MARY H.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1516/239
WV-061-002875-011	EASTON, LEA ANN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/49
WV-061-002875-012	CRYDER, CYNTHIA E.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1519/804
WV-061-002875-013	JONES, MARGARET ANN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1520/154
WV-061-002875-014	MILLER, LINDA K.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1523/496
WV-061-002875-015	ANGELOTTI, ROBERT	NORTHEAST NATURAL ENERGY LLC	DEED	1529/488
WV-061-002875-016	HOLLAND, BETTY JANE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1520/84
WV-061-002875-017	STEVENS, JOY B. AND JOE A.	NORTHEAST NATURAL ENERGY LLC	DEED	1529/484
WV-061-002875-018	HYATT, MARY JO AND EDWARD EARL	NORTHEAST NATURAL ENERGY LLC	DEED	1524/200
WV-061-002875-019	WHITE, JACQUELINE AND JAMES	NORTHEAST NATURAL ENERGY LLC	DEED	1524/204
WV-061-002875-020	WARREN, JOYCE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1524/323
WV-061-002875-021	KELLEY, EARL F.	NORTHEAST NATURAL ENERGY LLC	DEED	1524/208
WV-061-002875-024	HENDERSON, MAXINE CHADOCK	NORTHEAST NATURAL ENERGY LLC	DEED	1529/814
WV-061-002875-025	RANSDALL, LOUISE	NORTHEAST NATURAL ENERGY LLC	DEED	1529/480
WV-061-002875-026	MAUK, ELIZABETH S.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1525/256
WV-061-002875-027	GERBER, FRANK W. JR. AND TEYUAN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1526/106
WV-061-002875-028	MANNING, GRI S. AND LLOYD D.	NORTHEAST NATURAL ENERGY LLC	DEED	1529/492
WV-061-002875-029	RANSDALL, DORIS M.	NORTHEAST NATURAL ENERGY LLC	DEED	1530/603
WV-061-002875-030	STOUT, BARBARA S. AND JERALD M.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1524/447
WV-061-002875-031	RANSDALL, CECIL D. III AND LOIS W.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1528/52
WV-061-002875-032	VAUGHN, JACQUELYN AND DR. JAMES A.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1528/42
WV-061-002875-033	RANSDALL, WARD R. AND LINDA R.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1528/46
WV-061-002875-034	RANSDALL, DWIGHT DEAN AND KIM	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1528/44
WV-061-002875-035	ZAHNLE, BARBARA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1528/5
WV-061-002875-036	PITTMAN, NAOMI RANSDALL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/63
WV-061-002875-037	SMART, LORRAINE E.	NORTHEAST NATURAL ENERGY LLC	DEED	1529/796
WV-061-002875-038	ACKERMAN, WILMA MABEL AND HAROLD	NORTHEAST NATURAL ENERGY LLC	DEED	1529/778
WV-061-002875-039	MCKINSEY, RICHARD T. AND IMOGENE A.	NORTHEAST NATURAL ENERGY LLC	DEED	1529/504
WV-061-002875-040	GERBER, LOIS	NORTHEAST NATURAL ENERGY LLC	DEED	1543/670
WV-061-002875-041	GUMM, JANE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/220
WV-061-002875-042	JONES, EMILY E. AND STEVE D.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1529/35
WV-061-002875-043	RANSDALL, REBECCA LEE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/210
WV-061-002875-044	POSTER, ELINOR	NORTHEAST NATURAL ENERGY LLC	DEED	1529/508
WV-061-002875-045	RANSDALL, SHIRLEY ANN	NORTHEAST NATURAL ENERGY LLC	DEED	1529/512
WV-061-002875-046	HAHN, FRANK	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/288
WV-061-002875-048	PERKINS, ANN-MARGRET AND KEVIN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/33
WV-061-002875-049	BENTLEY, J.C.	NORTHEAST NATURAL ENERGY LLC	DEED	1533/673
WV-061-002875-050	SCHOOLER, MARY CATHRYN AN JONATHAN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1534/130
WV-061-002875-051	JOHNSON, GRACE J.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1533/80
WV-061-002875-052	CARLTON, MARY L. AND MICHAEL E.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1533/221
WV-061-002875-053	DEAL, MICHAEL B.	NORTHEAST NATURAL ENERGY LLC	DEED	1537/190
WV-061-002875-054	LEE, JEANETTE WRIGHT	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1445/138
WV-061-002875-055	WRIGHT, THOMAS A.	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1445/134
WV-061-002875-056	ROYALTY, BREND AND DONALD	NORTHEAST NATURAL ENERGY LLC	DEED	1544/156
WV-061-002875-059	FISCHER, KAREN AND DANIEL	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1539/360
WV-061-002875-060	COOPER, CARLEEN K AND GARY W.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1548/3
WV-061-003383-001	MARPLE, JEFFRY L. AND TERRA M.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/895
WV-061-003383-002	ADAMS, BETTY JEAN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/791
WV-061-003383-003	MARPLE, STEPHEN L.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/795
WV-061-003383-004	HOLLAND, ROY CARL AND KAREN KAY	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/712
WV-061-003383-005	MUMMERT, LINDA DARLENE AND GEORGE W.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1506/797
WV-061-003383-006	LIPP, KENDALL AND PATTI	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1507/805
WV-061-003383-007	POSTER, ELINOR	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1509/800
WV-061-003383-008	LOCKARD, BARBARA LOU AND HOWARD	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1510/627
WV-061-003383-009	LOCKARD, ICIE MAE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1510/631
WV-061-003383-010	TERRY, SHARON	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/115

61-01738 MW

WV-061-003383-011	DUNLAP, DOROTHY W.	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1517/315
WV-061-003383-012	CRYDER, MARGARET	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1516/160
WV-061-003871-001	SHIPLEY, JANET D.	NORTHEAST NATURAL ENERGY LLC	DEED	1545/806
WV-061-003595-001	MASON, ALENA LUE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/346
WV-061-003595-002	TENNANT, BILLIE JEAN	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/332
WV-061-003595-003	MATHENY, REBECCA SUE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/152
WV-061-003595-004	LEMLEY, LUANNE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/150
WV-061-003599-002	SEKULA, TONY JR. AND LISA	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1530/298
WV-061-003599-003	WILLIAMS, LAWRENCE JOSEPH AND MARGARET ELIZABETH	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1532/50
WV-061-002534-001	SHUMAN, INC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1429/366
WV-061-003425-001	WILLARD, CLARENCE S. AND ANTOINETTE	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1512/568
WV-061-003278-001	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/248
WV-061-003278-002	STATOIL USA ONSHORE PROPERTIES	*STATOIL USA ONSHORE PROPERTIES INC.	0.125 OR GREATER	1488/748
WV-061-003278-003	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/236
WV-061-003278-004	STATOIL USA ONSHORE PROPERTIES	*STATOIL USA ONSHORE PROPERTIES INC.	0.125 OR GREATER	1488/725
WV-061-003278-005	CHESAPEAKE APPALACHIA LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/232
WV-061-003278-006	STATOIL USA ONSHORE PROPERTIES	*STATOIL USA ONSHORE PROPERTIES INC.	0.125 OR GREATER	1488/740
WV-061-001078-000	VERBOSKY, MARY LOU	NORTHEAST NATURAL ENERGY LLC	SURFACE	1491/714
WV-061-003638-001	VERBOSKY, MARY LOU	NORTHEAST NATURAL ENERGY LLC	0.125 OR GREATER	1539/358
WV-061-003890-006	MUSKINGUM UNIVERSITY	NORTHEAST NATURAL ENERGY LLC	DEED	1552/58
WV-061-003314-001	MC MINERAL COMPANY LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/209
WV-061-003314-001	MC MINERAL COMPANY LLC	*CHESAPEAKE APPALACHIA LLC	0.125 OR GREATER	1487/209
WV-061-003314-002	STATOIL USA ONSHORE PROPERTIES	*STATOIL USA ONSHORE PROPERTIES INC.	0.125 OR GREATER	1488/736

*See Attachment

RECEIVED
Office of Oil and Gas

JUN 10 2016

WV Department of
Environmental Protection 12/02/2016

61-01738 new

Chesapeake Appalachia, LLC.
And
Statoil USA Onshore Properties Inc.

Northeast Natural Energy
Assignment
BK 120/769

RECEIVED
Office of Oil and Gas

JUN 10 2016

WV Department of
Environmental Protection 12/02/2016

61-01738 men



northeast
NATURAL ENERGY

Fisher 10H
SITE SAFETY PLAN

June 6, 2016

MSK 6/9/2016

RECEIVED
Office of Oil and Gas

JUN 10 2016

WV Department of
Environmental Protection 12/02/2016

SITE NAME Fisher

COUNTY Monongalia

ACCESS ROAD ENTRANCE N39° 41' 42.2" , W-80° 13' 22.4" or

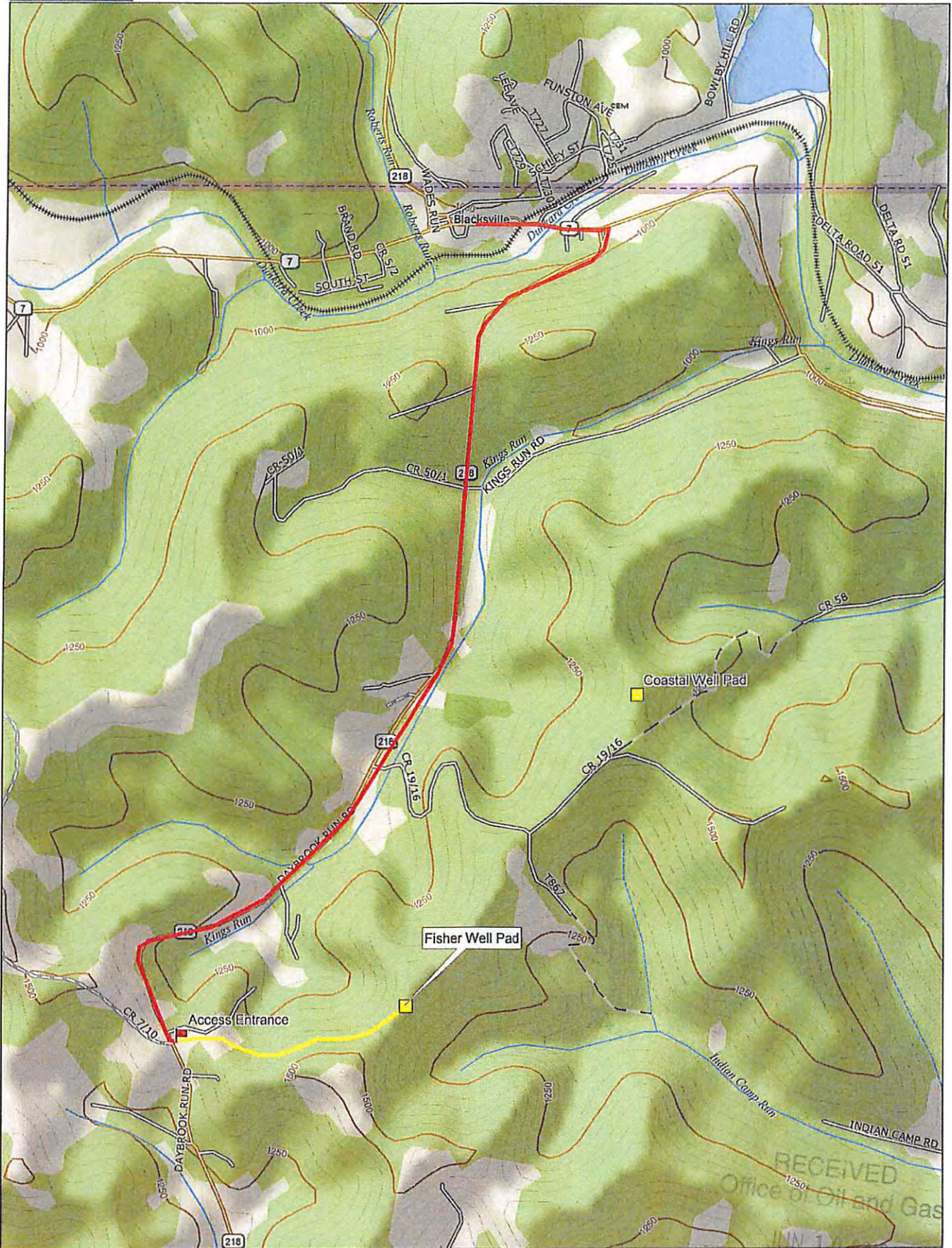
N 4394200.9 , E 566628.5 (UTM NAD 83)

DIRECTIONS TO SITE:

From I-79, take exit 155. Merge onto Chaplin Hill Road/CR-19/24N toward US-19/WV-7/Star City. If traveling from the south, this will be a right off the exit. If traveling from the north, this will be a left off the exit. After approximately 0.8 miles, turn left at light onto US-19/WV-7. Continue on US-19/WV-7 for approximately 1.7 miles. Turn left on WV-7 and continue on route for approximately 13.9 miles, turn left on WV-218/Daybrook Rd. for approximately 2.2 miles. The Fisher Pad Access Road Entrance will be on the left.

From Blacksville, take WV-218/WV-7 East for approximately 0.3 miles, turn right onto WV-218/Daybrook Rd. for approximately 2.2 miles. The Fisher Pad Access Road Entrance will be on the left.

*See Attached Maps



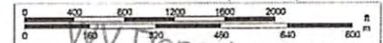
Data use subject to license.

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www.delorme.com



Scale 1:17,600

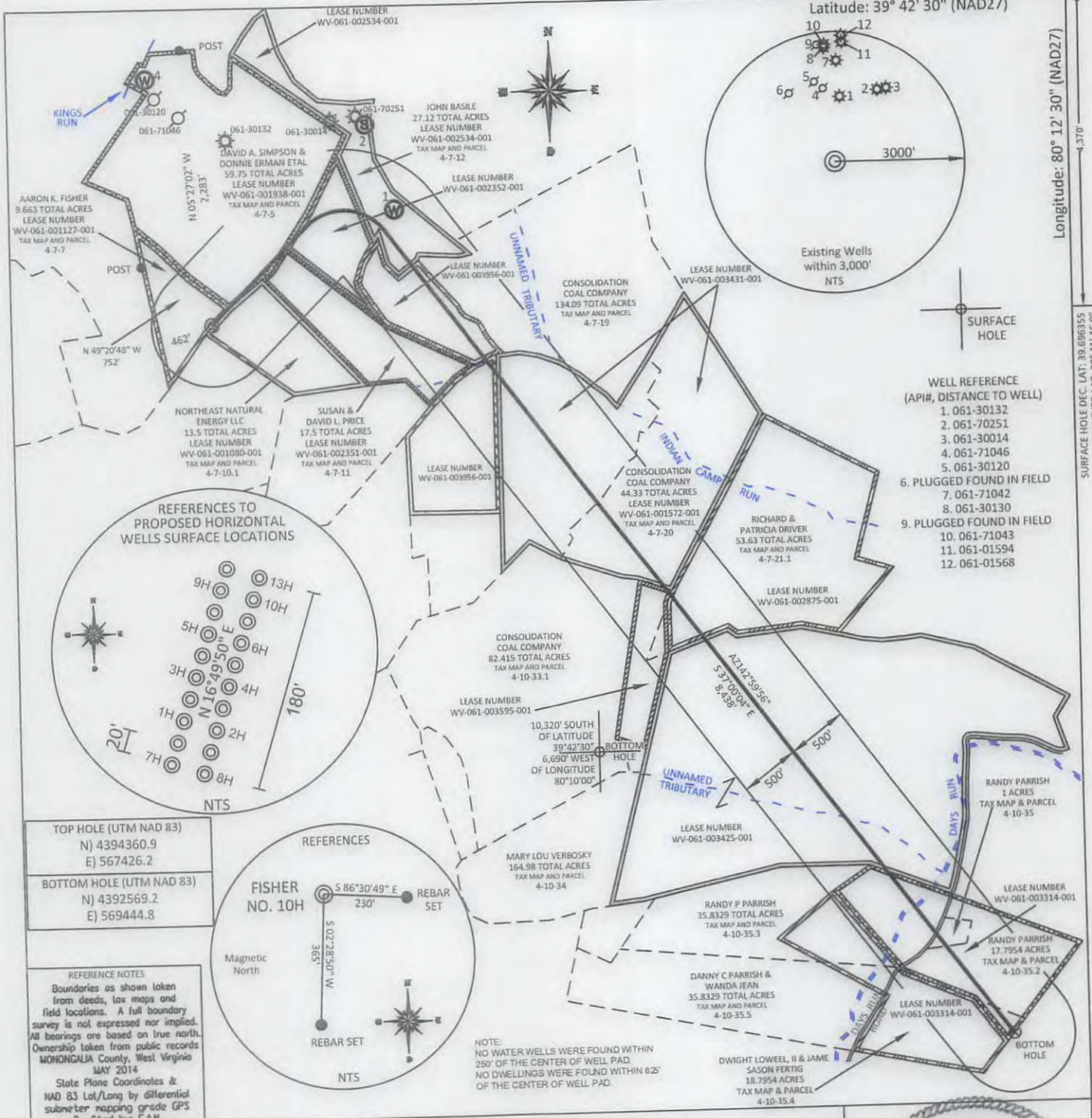


VIV Department of Environmental Protection
 1" = 1,486.7 ft Data 4/21/02/2016

SURFACE HOLE DEC. LONG: 80.213775
SURVEYED LONG: 80° 12' 49.6"

Latitude: 39° 42' 30" (NAD27)

Longitude: 80° 12' 30" (NAD27)

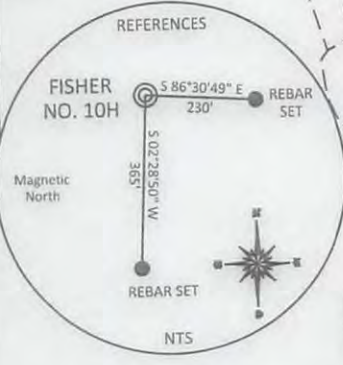


- WELL REFERENCE (API#, DISTANCE TO WELL)
- 061-30132
 - 061-70251
 - 061-30014
 - 061-71046
 - 061-30120
 - PLUGGED FOUND IN FIELD
 - 061-71042
 - 061-30130
 - PLUGGED FOUND IN FIELD
 - 061-71043
 - 061-01594
 - 061-01568

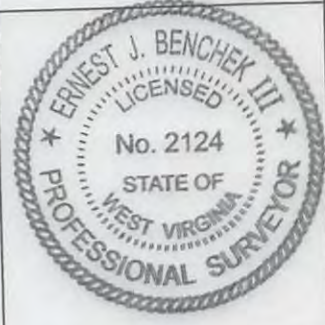
TOP HOLE (UTM NAD 83)
N) 4394360.9
E) 567426.2

BOTTOM HOLE (UTM NAD 83)
N) 4392569.2
E) 569444.8

REFERENCE NOTES
Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia MAY 2014
State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
Drafted by: EAM



NOTE:
NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD.
NO DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF WELL PAD.



FILE #: NNE14

DRAWING #: 2387

SCALE: PLAT: 1" = 1200'
TICK: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: [Signature]

L.L.S. #2124 : Ernest J. Benchek III

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: DUNKARD CREEK

COUNTY/DISTRICT: MONONGALIA / CLAY

SURFACE OWNER: AARON K. FISHER

OIL & GAS ROYALTY OWNER: HENRY P. AMES, III, ET AL

LEASE NUMBERS: _____

TARGET FORMATION: MARCELLUS

WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC

ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: MAY 18, 2016

OPERATOR'S WELL #: FISHER NO. 10H

API WELL #: 47 STATE 61 COUNTY 01738 MOD. PERMIT

PROPOSED ELEVATION: 1,453.04'
CURRENT ELEVATION: 1,480'

QUADRANGLE: BLACKSVILLE

ACREAGE: 9.663 +/-

ACREAGE: 716.2346 +/-

12/02/2016

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

ESTIMATED DEPTH: TVD: 8,276.50' TMD: 17,775.22'

DESIGNATED AGENT: JOHN ADAMS

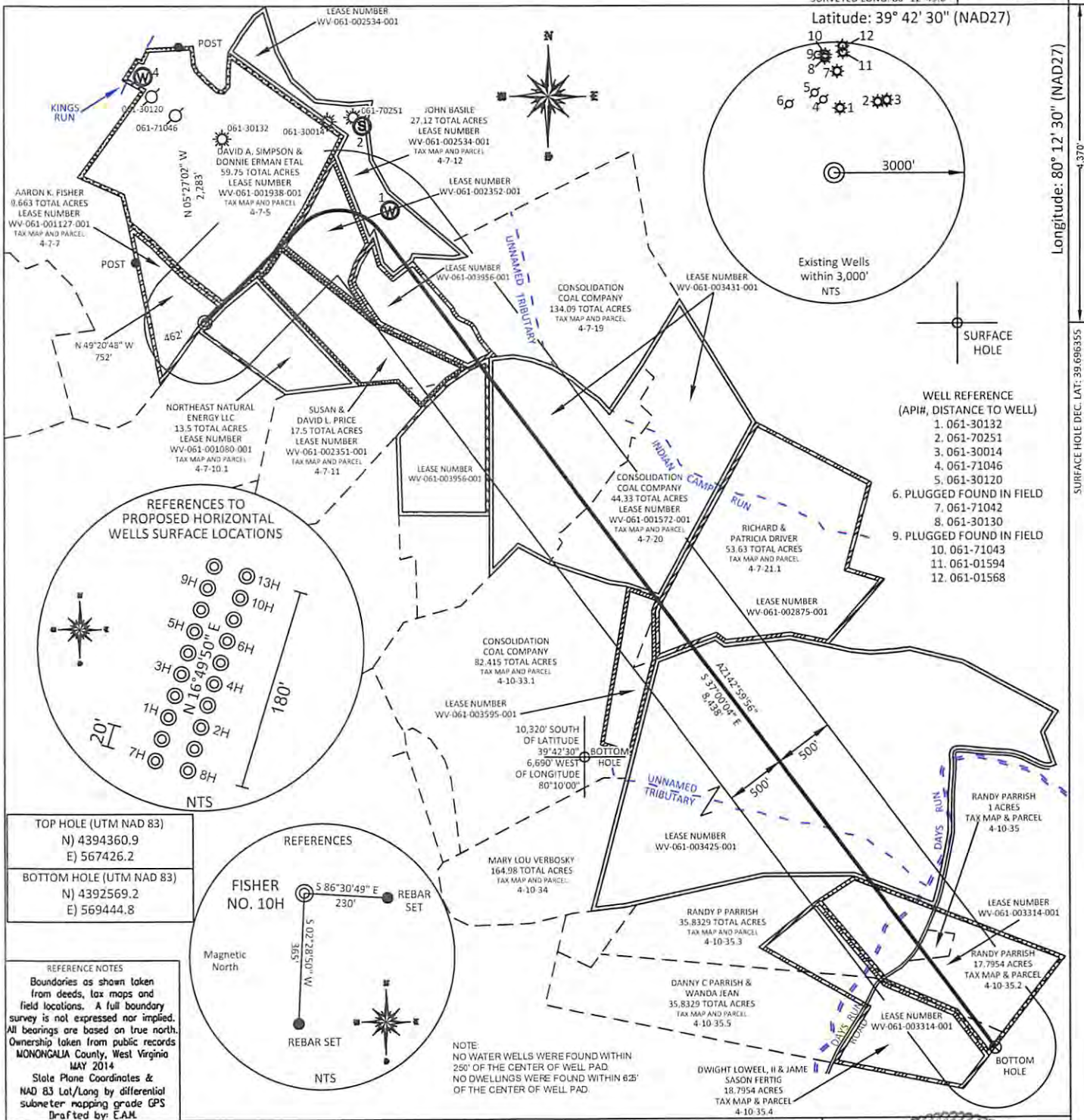
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200

CITY: CHARLESTON STATE: WV ZIP CODE: 25301

SURFACE HOLE DEC. LONG: 80.213775
SURVEYED LONG: 80° 12' 49.6"

Latitude: 39° 42' 30" (NAD27)

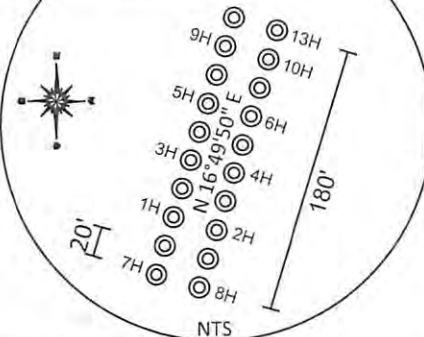
Longitude: 80° 12' 30" (NAD27)



SURFACE HOLE DEC. LAT: 39.696355
SURVEYED LAT: 39° 41' 46.9"

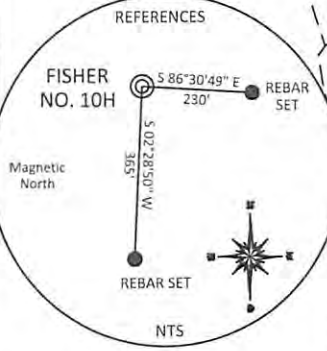
- WELL REFERENCE (API#, DISTANCE TO WELL)
- 061-30132
 - 061-70251
 - 061-30014
 - 061-71046
 - 061-30120
 - PLUGGED FOUND IN FIELD
 - 061-71042
 - 061-30130
 - PLUGGED FOUND IN FIELD
 - 10.061-71043
 - 061-01594
 - 061-01568

REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



TOP HOLE (UTM NAD 83)
N) 4394360.9
E) 567426.2

BOTTOM HOLE (UTM NAD 83)
N) 4392569.2
E) 569444.8



REFERENCE NOTES

Boundaries as shown taken from deeds, tax maps and field locations. A full boundary survey is not expressed nor implied. All bearings are based on true north. Ownership taken from public records MONONGALIA County, West Virginia MAY 2014

State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS

Drafted by: EAM

NOTE: NO WATER WELLS WERE FOUND WITHIN 250' OF THE CENTER OF WELL PAD. NO DWELLINGS WERE FOUND WITHIN 625' OF THE CENTER OF WELL PAD.

FILE #: NNE14

DRAWING #: 2387

SCALE: PLAT: 1" = 1200'
TICK: 1" = 2000'

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SUBMETER MAPPING GRADE GPS

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *[Signature]*

L.L.S. #2124 : Ernest J. Benchek III



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

OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25304

Well Type: Oil Waste Diposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: DUNKARD CREEK

COUNTY/DISTRICT: MONONGALIA / CLAY

SURFACE OWNER: AARON K. FISHER

OIL & GAS ROYALTY OWNER: HENRY P. AMES, III, ET AL

LEASE NUMBERS:

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY):

TARGET FORMATION: MARCELLUS

WELL OPERATOR: NORTHEAST NATURAL ENERGY LLC
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

DATE: MAY 18, 2016

OPERATOR'S WELL #: FISHER NO. 10H

API WELL #: 47 61 01738400
STATE COUNTY PERMIT

PROPOSED ELEVATION: 1,453.04'
CURRENT ELEVATION: 1,480'

QUADRANGLE: BLACKSVILLE

ACREAGE: 9.663 +/-

ACREAGE: 716.2346 +/12/02/2016

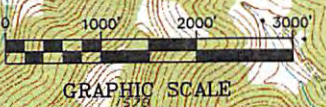
ESTIMATED DEPTH: TVD: 8,276.50' TMD: 17,775.22'

DESIGNATED AGENT: JOHN ADAMS
ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
CITY: CHARLESTON STATE: WV ZIP CODE: 25301

WELL: FISHER NO. 10H
QUAD: BLACKSVILLE, WV



12/02/2016



61-01738 MOD



June 9, 2016

WV Department of Environmental Protection
Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304

Re: Fisher 10H Permit Modification
API # 47-061-01738

Dear Permit Reviewer,

Northeast Natural Energy LLC ("NNE") would like to request a modification to its existing Fisher 10H Permit (47-061-01738). NNE has lengthened the horizontal well bore to allow for more efficient development of the permitted Fisher Well Pad.

Please find enclosed with this request a revised WW-6B Form, WW-6A1 Form and Attachment, Revised Site Safety Plan, Well Bore Schematic and Mylar Plat for the 10H well.

Should you have any questions please contact me at 304.212.0422 or by email at hmedley@nne-llc.com.

Sincerely,

A handwritten signature in blue ink that reads 'Hollie M. Medley'.

Hollie M. Medley
Regulatory Coordinator

RECEIVED
Office of Oil and Gas
JUN 10 2016
WV Department of
Environmental Protection