

Well Operator's Report of Well Work

Well Number: JONES 3H

API: 47 - 049 - 02283

Submission: Initial Amended

Notes:

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MAR 27 2018
WV Department of
Environmental Protection

Reviewed

S Dew
5/9/2018

08/31/2018

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-049-02283 County MARION District MANNINGTON
Quad CAMERON Pad Name JONES Field/Pool Name MARCELLUS
Farm name HUBBS, TIMOTHY JAMES Well Number JONES 3H
Operator (as registered with the OOG) TRANS ENERGY, INC. (a subsidiary of EQT Production)
Address 625 Liberty Ave. EQT Plaza, Suite 1700 City Pittsburgh State PA Zip 15222

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4381936.973 Easting 549192.077
Landing Point of Curve Northing 4382023.97 Easting 549570.62
Bottom Hole Northing 4380404.44 Easting 550477.98

Elevation (ft) 1042 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s) WATER BASE DRILLING MUD & SYNTHETIC BASE DRILLING MUD
CALCIUM CARBONATE, CALCIUM CHLORIDE, SYNVERT LEM, SYNVERT SYNTHETIC WA-L, BARITE, HYDRATED LIME, CEDAR FIBER, RUBBER CRUMB,
COTTONSEED HULLS, SYNVERT SYNTHETIC 11-L, SYNVERT SYNTHETIC 1-L, BENTONITE, SODA ASH DENSE, LIGNITE, ALUMINUM STERATE,
CITRIC ACID, SODIUM BICARBONATE, GLYCERINE, DESCO, CAUSTIC SODA BEADS, DRISPAC LOW VIS, L-20C, BIOCLEAR

Date permit issued 04/21/2014 Date drilling commenced 05/28/2014 Date drilling ceased 06/26/2014

Date completion activities began _____ Date completion activities ceased _____
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A
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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug *WV Department of Environmental Protection*

Freshwater depth(s) ft 150' Open mine(s) (Y/N) depths N
Salt water depth(s) ft N Void(s) encountered (Y/N) depths N
Coal depth(s) ft 144', 239', 598', 641' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: _____

08/31/2018

API 47-049 - 02283 Farm name HUBBS, TIMOTHY JAMES Well number JONES 3H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	26"	20"	118'	NEW	J-55 94#	-	-
Surface	17-1/2"	13-3/8"	1015'	NEW	J-55 54.5#	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	3039'	NEW	J-55 36#	N/A	Y
Intermediate 2	-	-	-	-	-	-	-
Intermediate 3	-	-	-	-	-	-	-
Production	8-3/4"	5-1/2"	13115'	NEW	DQXR3 23#	N/A	Y
Tubing	-	-	-	-	-	-	-
Packer type and depth set							

Comment Details Production Cement job received 30 bbls back to surface.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	-	-	-	-	-	-	-
Surface	TYPE 1	743	15.2	1.27	943	0	8
Coal							
Intermediate 1	TYPE 1	928	15.6	1.21	1123	0	8
Intermediate 2							
Intermediate 3							
Production	POZ H / CLASS H	1421 / 1656	14.0 / 15.6	1.34 / 1.18	3858	0	8
Tubing							

Drillers TD (ft) 14289' Loggers TD (ft) N/A
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 3148' MD

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING CONDUCTOR: NONE
 SURFACE: 1 CENTRALIZER EVERY 160'
 INTERMEDIATE 1 : 1 CENTRALIZER EVERY 100' FROM TD TO 900'
 PRODUCTION: 1 CENTRALIZER EVERY 80' FROM TD TO ABOVE KOP

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 049 - 02283 Farm name HUBBS, TIMOTHY JAMES Well number JONES 3H

Drilling Contractor _____
Address _____ City _____ State _____ Zip _____

Logging Company Baker Hughes
Address 400 Technology DR - Suite 100 City Cannonsburg State PA Zip 15317

Logging Company _____
Address _____ City _____ State _____ Zip _____

Cementing Company _____
Address _____ City _____ State _____ Zip _____

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Jones 3H Final Formations 47-049-02283				
Formation Name	Drill Top MD (ftKB)	Drill Top (TVD) (ftKB)	Drill Btm MD (ftKB)	Drill Btm (TVD) (ftKB)
COAL	144	144	147	147
SAND/SHALE	147	147	239	239
COAL	239	239	240	240
SAND/SHALE	240	240	598	598
PITTSBURGH COAL	598	598	606	606
SAND/SHALE	606	606	641	641
MAPLE COAL	641	641	671	671
SAND/SHALE	671	671	1207	1207
DUNKARD	1207	1207	1233	1233
SAND/SHALE	1233	1233	1253	1253
GAS SAND	1253	1253	1261	1261
SAND/SHALE	1261	1261	1458	1456
1ST SALT	1458	1456	1479	1477
SAND/SHALE	1479	1477	1533	1530
2ND SALT	1533	1530	1555	1552
SAND/SHALE	1555	1552	1560	1557
3RD SALT	1560	1557	1641	1637
SAND/SHALE	1641	1637	1766	1761
MAXON	1766	1761	1794	1789
SAND/SHALE	1794	1789	1883	1877
BIG LIME	1883	1877	1966	1959
SAND/SHALE	1966	1959	1970	1963
BIG INJUN	1970	1963	2021	2014
SAND/SHALE	2021	2014	2158	2151
BEREA	2158	2151	2163	2156
SAND/SHALE	2163	2156	2494	2487
30 FOOT	2494	2487	2528	2521
SAND/SHALE	2528	2521	2593	2586
GORDON	2593	2586	2641	2634
SAND/SHALE	2641	2634	2645	2638
4TH	2645	2638	2687	2680
SAND/SHALE	2687	2680	2763	2756
5TH	2763	2756	2778	2771
SAND/SHALE	2778	2771	2903	2896
BAYARD	2903	2896	2914	2907
SAND/SHALE	2914	2907	3590	3579
WARREN	3590	3579	3624	3612
SAND/SHALE	3624	3612	4152	4123
RILEY	4152	4123	4197	4166
SAND/SHALE	4197	4166	4513	4472
BENSON	4513	4472	4598	4554
SAND/SHALE	4598	4554	4870	4815
ALEXANDER	4870	4815	4947	4888
SAND/SHALE	4947	4888	5834	5739
ELK	5834	5739	7214	7071
SONYEA	7214	7071	7392	7240
MIDDLESEX	7392	7240	7466	7307
GENESSEE	7466	7307	7599	7410
GENESE0	7599	7410	7638	7437
TULLY	7638	7437	7691	7471
HAMILTON	7691	7471	7901	7568
MARCELLUS	7901	7568	14299	7642

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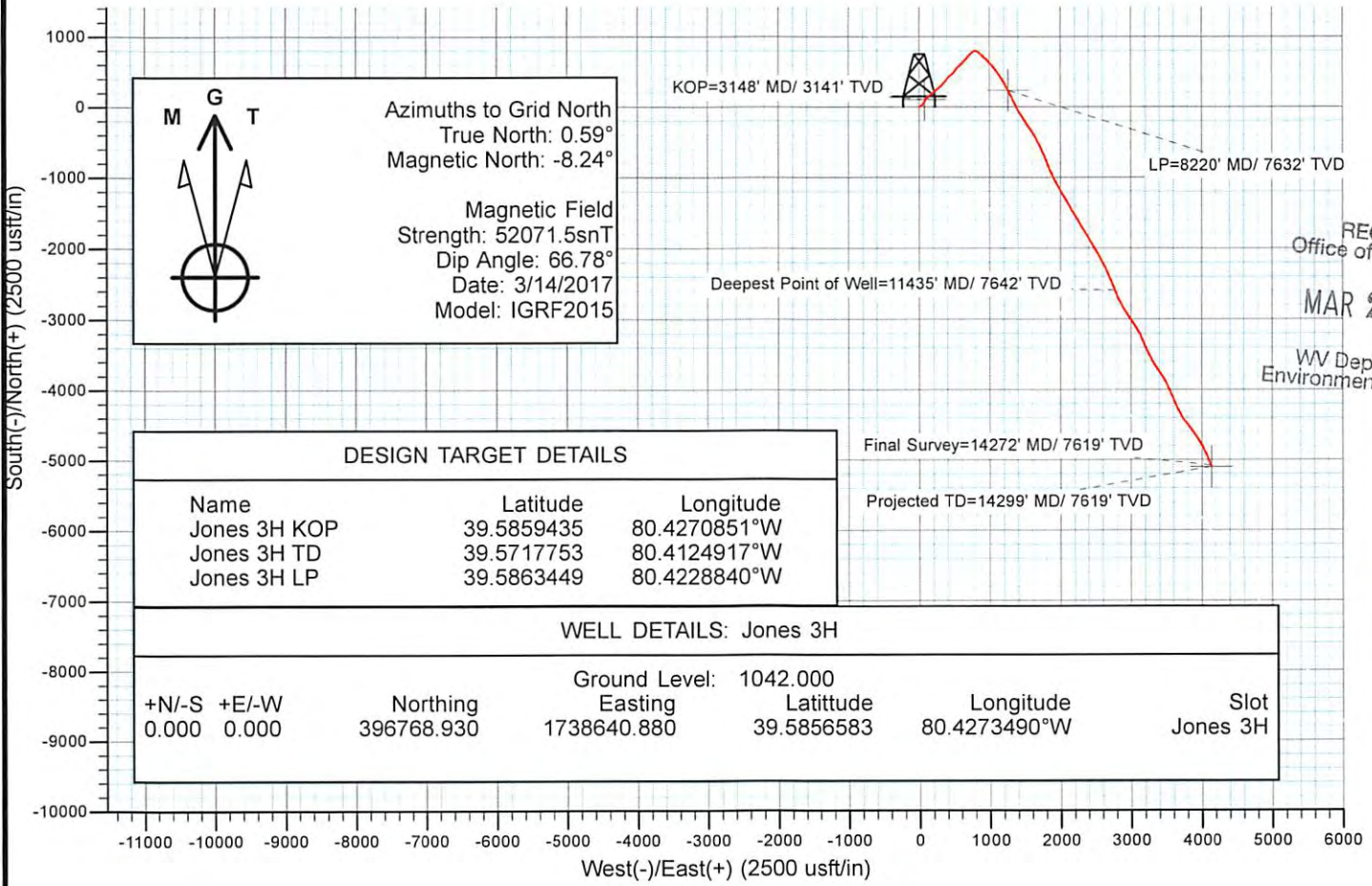
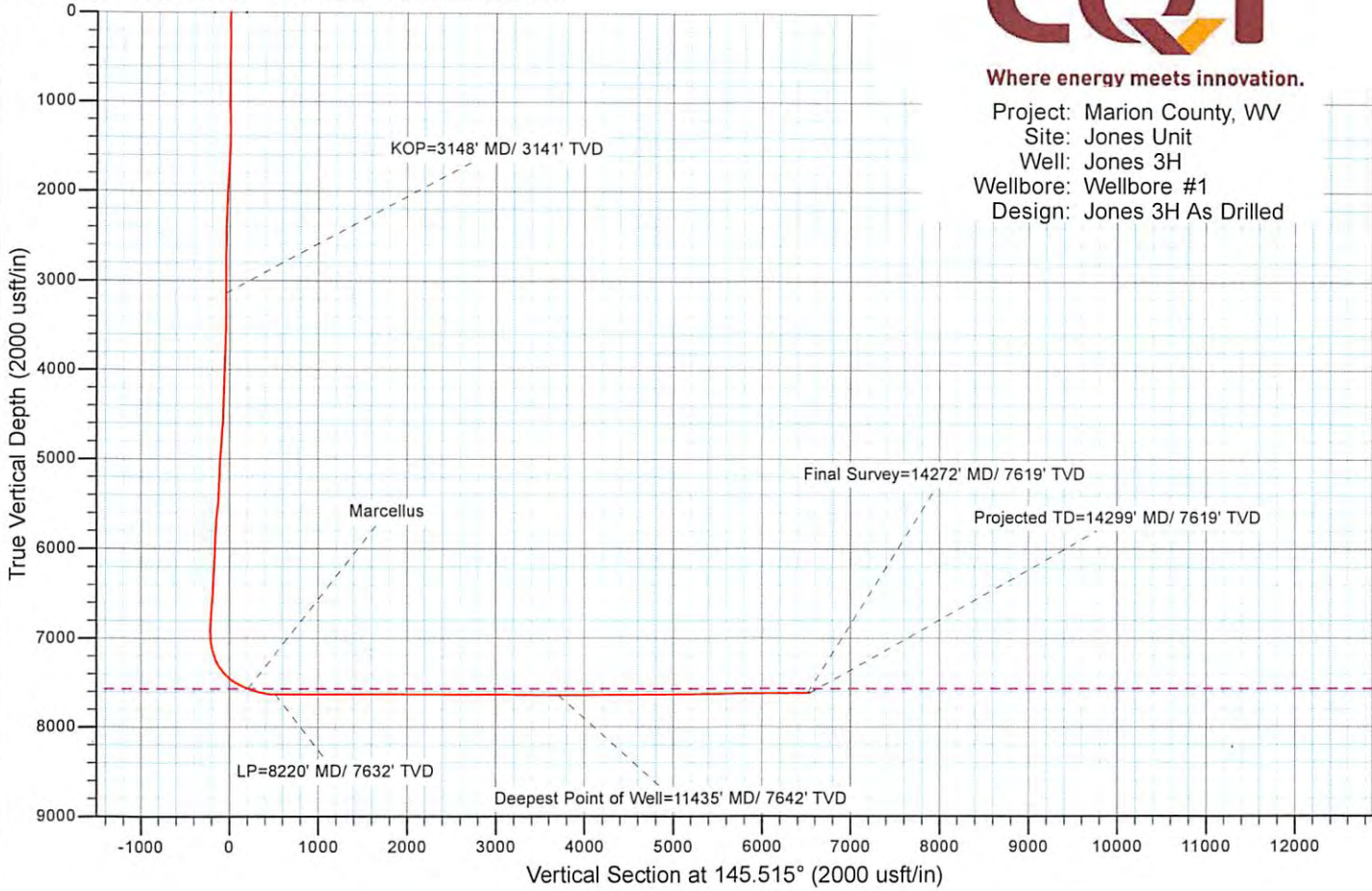
KB Elevation=1064 FT
 Ground Elevation= 1042 FT



Where energy meets innovation.

Project: Marion County, WV
 Site: Jones Unit
 Well: Jones 3H
 Wellbore: Wellbore #1
 Design: Jones 3H As Drilled

All Survey Measurements were taken from KB Elevation



	Azimuths to Grid North	
	True North: 0.59°	
	Magnetic North: -8.24°	
Magnetic Field		
Strength: 52071.5snT		
Dip Angle: 66.78°		
Date: 3/14/2017		
Model: IGRF2015		

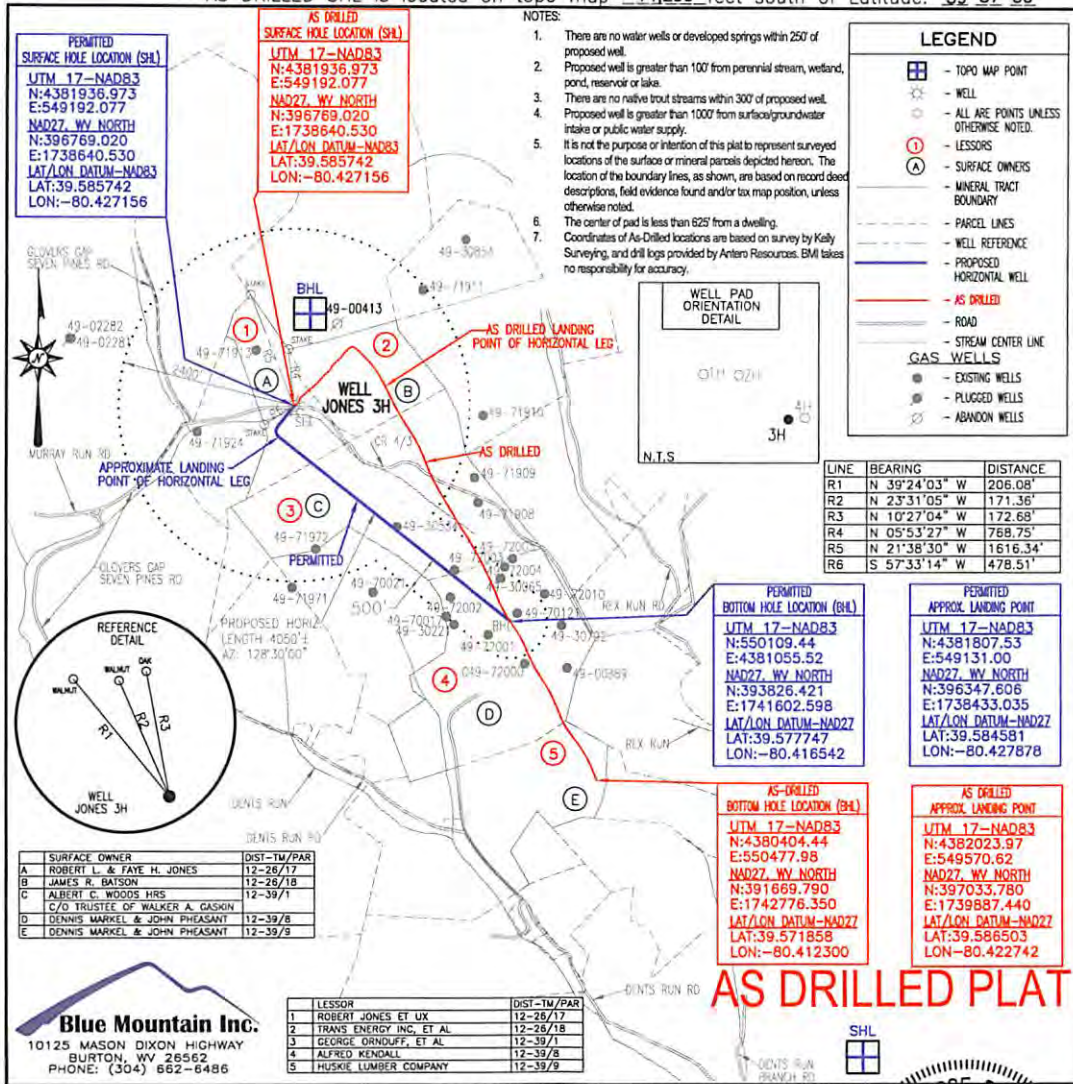
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DESIGN TARGET DETAILS		
Name	Latitude	Longitude
Jones 3H KOP	39.5859435	80.4270851°W
Jones 3H TD	39.5717753	80.4124917°W
Jones 3H LP	39.5863449	80.4228840°W

WELL DETAILS: Jones 3H						
+N/-S	+E/-W	Northing	Ground Level:	Easting	Latitude	Longitude
0.000	0.000	396768.930	1042.000	1738640.880	39.5856583	80.4273490°W
						Slot Jones 3H

08/31/2018

AS DRILLED BHL is located on topo map 4,179 feet south of Latitude: 39° 35' 00"
 AS DRILLED SHL is located on topo map 14,299 feet south of Latitude: 39° 37' 30"



AS DRILLED BHL is located on topo map 10,514 feet west of Longitude: 80° 22' 30"
 AS DRILLED SHL is located on topo map 2,999 feet west of Longitude: 80° 25' 00"

Blue Mountain Inc.
 10125 MASON DIXON HIGHWAY
 BURTON, WV 25562
 PHONE: (304) 662-6486

AS DRILLED PLAT

FILE #: JONES 3H AS-DRILLED
 DRAWING #: JONES 3H AS-DRILLED
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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: *George D. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000

STATE OF WEST VIRGINIA
 LICENSED PROFESSIONAL SURVEYOR
 No. 2000
 PLACE SEAL HERE

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

DATE: MARCH 5, 2018
 OPERATOR'S WELL #: JONES 3H AS-DRILLED
 API WELL #: 47 49 02283
 STATE COUNTY PERMIT

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

WATERSHED: BUFFALO CREEK ELEVATION: 1042.00'
 COUNTY/DISTRICT: MARION/MANNINGTON QUADRANGLE: GLOVER GAP
 SURFACE OWNER: ROBERT L. & FAYE H. JONES ACREAGE: 57±
 OIL & GAS ROYALTY OWNER: ROBERT JONES ET AL ACREAGE: 394.688±

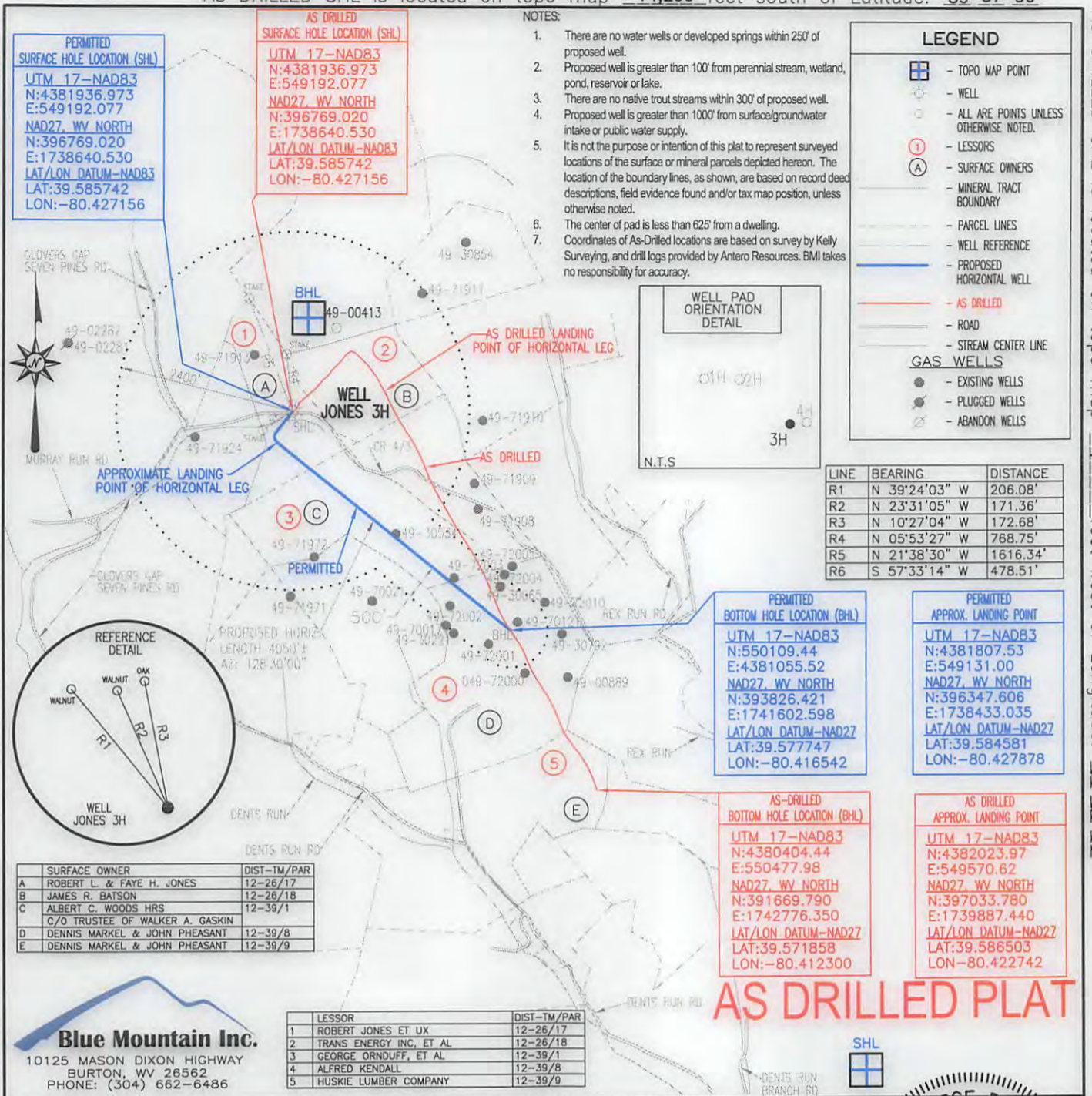
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): AS-DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 7,900'± TMD: 11,950'±
 WELL OPERATOR EQT PRODUCTION CO. INC. DESIGNATED AGENT JASON RANSON
 Address 115 PROFESSIONAL PLACE, P.O. BOX 280 Address 115 PROFESSIONAL PLACE - P.O. BOX 280
 City BRIDGEPORT State WV Zip Code 26330 City BRIDGEPORT State WV Zip Code 26301

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 Address 115 PROFESSIONAL PLACE, P.O. BOX 280 Address 115 PROFESSIONAL PLACE - P.O. BOX 280
 City BRIDGEPORT State WV Zip Code 26330 City BRIDGEPORT State WV Zip Code 26301

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