

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

API 47-95-02152 County Tyler District Lincoln  
Quad Paden City Pad Name Wells Meckley Unit Field/Pool Name Middlebourne  
Farm name Velma L. Wells Well Number # 1402 MH

Operator (as registered with the OOG) Triad Hunter, LLC  
Address 122 W. John Carpenter Freeway, Suite 300 City Irving State Texas Zip 75039

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey  
Top hole Northing 380229.58 Easting 1567223.29  
Landing Point of Curve Northing 379396.89 Easting 1566640.30  
Bottom Hole Northing 373406.72 Easting 1568742.27

Elevation (ft) 985' 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)  
Synthetic Mud System

\*Drilling Re-work 1-3-18 to 1-18-18

Date permit issued 5/21/2014 Date drilling commenced 12/21/2014 Date drilling ceased 12/24/2014 PH

Date completion activities began 2-24-18 Date completion activities ceased 3-12-18

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

AUG 20 2018

Freshwater depth(s) ft Surface - 300' Open mine(s) (Y/N) depths N/A  
Salt water depth(s) ft @ 1200' Void(s) encountered (Y/N) depths N/A  
Coal depth(s) ft 600' - 700' Cavern(s) encountered (Y/N) depths N/A

Is coal being mined in area (Y/N) N

Reviewed by:  
[Signature]

Reviewed

[Signature]  
8/21/2018

WV Department of  
Environmental Protection

WR-35  
Rev. 8/23/13

API 47-095 - 02152 Farm name Velma L. Wells Well number # 1402 MH

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	24"	20"	100'	New	J-55 94#	- 0 -	yes
Surface	17 1/2"	13 3/8"	421'	New	J-55 54.5#	- 0 -	15 bbl. cement returns
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,874'	New	J-55 36#	2 baskets	54 bbl. cement returns
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	13,072	New	P-110 20#	- 0 -	49 bbl cement surface
Tubing		2 7/8"	6,545	NEW	L-80 6.4#	- 0 -	
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	180	15.6	1.18	212.4	Surface	24+
Surface	HALCEM (Class A)	365	15.6	1.19	434.4	Surface	12+
Coal							
Intermediate 1	HALCEM (Class A)	1,050	15.6	1.19	1,285.2	Surface	24+
Intermediate 2							
Intermediate 3							
Production	SAVOYER (H) / lead (H) / Tail (H)	515/560/1165	15.5/15.2	1.40/1.34/1.14	3389	surface	24+
Tubing							

Drillers TD (ft) TYD = 6268 TMD = 13075 Loggers TD (ft) N/A no open hole logs  
 Deepest formation penetrated Marcellus shale Plug back to (ft) N/A  
 Plug back procedure N/A

Kick off depth (ft) 5314 TYD / 5392 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 \_\_\_\_\_  
Surface Casing 20" - 4 centralizers  
Intermediate Casing 13 3/8" - 7 centralizers  
Production casing 5 1/2" - 95 centralizers

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 \_\_\_\_\_

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
					SEE ATTACHED

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
		SEE	ATTACHED					

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
<u>Marcellus shale</u>	<u>6110.9</u> TVD	<u>1052.3</u> MD

Please insert additional pages as applicable.

GAS TEST    Build up    Drawdown    Open Flow                      OIL TEST    Flow    Pump

SHUT-IN PRESSURE   Surface 3110 psi   Bottom Hole 4854 psi   DURATION OF TEST 81.12 hrs

OPEN FLOW      Gas                      Oil                      NGL                      Water                      GAS MEASURED BY

5.5 mcfpd                      280 bpd                      N/A bpd                      382 bpd                       Estimated    Orifice    Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H <sub>2</sub> S, ETC)
	0		0		SEE ATTACHED FORMATION DETAILS

Please insert additional pages as applicable.

Drilling Contractor Alpha Hunter Rig 7                      + Helmerich & Rayne                      912 North Eagle Valley Rd  
28407 State Route 7                      City Marietta                      State Ohio                      Zip 45750                      Howard, PA 16841

Logging Company Baker Hughes  
Address 370 Westec Drive                      City Mt. Pleasant                      State PA                      Zip 15616

Cementing Company Halliburton Energy Services                      + O-Tex Pumping                      2916 old Route 422E  
Address 4999 East Point Drive                      City Zanesville                      State Ohio                      Zip 43702                      Penelton, PA 16024

Stimulating Company Stinson Pressure Pumping  
Address 42739 National Rd                      City Belmont                      State OH                      Zip 43718

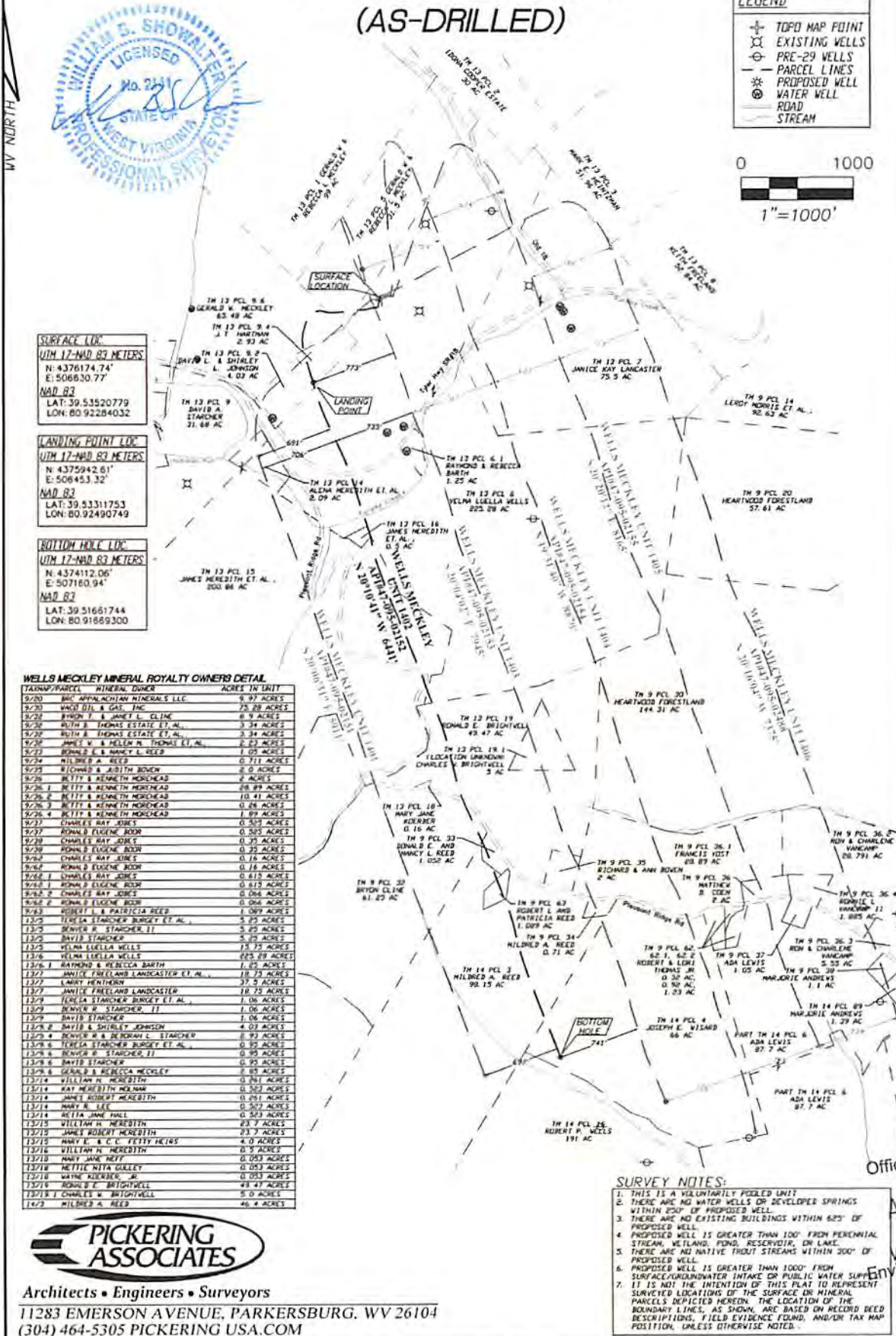
Please insert additional pages as applicable.

Complete                      Rachael Parker                      Telephone                      740-808-1319  
Signature                      R Parker                      Title                      Sr. Engineering Technician                      Date                      6-18-18

Submittal of Hydraulic Fracturing Chemical Disclosure Information                      Attach copy of FRACFOCUS Registry

# WELLS MECKLEY 1402 (AS-DRILLED)

02/15/2019



**SURFACE LOC:**  
 UTM 17-NAD 83 METERS  
 N: 4376174.74  
 E: 506830.77  
**NAD 83**  
 LAT: 39.53520779  
 LONG: 80.92284032

**LANDING POINT LOC:**  
 UTM 17-NAD 83 METERS  
 N: 4375942.61  
 E: 506453.32  
**NAD 83**  
 LAT: 39.53311753  
 LONG: 80.92490749

**BOTTOM HOLE LOC:**  
 UTM 17-NAD 83 METERS  
 N: 4374112.06  
 E: 507180.94  
**NAD 83**  
 LAT: 39.51661744  
 LONG: 80.91869300

**WELLS MECKLEY MINERAL ROYALTY OWNERS DETAIL**

TAXMAP/PARCEL	MINERAL OWNER	ACRES IN UNIT
9/20	BMC APPALACHIAN MINERALS LLC	9.97 ACRES
9/20	WACO OIL & GAS, INC.	78.28 ACRES
9/20	FRONZ, J. & JANE L. CLINE	6.9 ACRES
9/20	RUTH B. THOMAS ESTATE ET AL.	3.34 ACRES
9/20	RUTH B. THOMAS ESTATE ET AL.	3.34 ACRES
9/20	JAMES E. & HELEN M. THOMAS ET AL.	2.23 ACRES
9/22	RONALD E. & WANCY L. REED	1.05 ACRES
9/24	MILBRED A. REED	0.711 ACRES
9/25	RICHARD & JUDITH BOWEN	2.0 ACRES
9/26	RITTY & BENNETT MORGHEAD	2 ACRES
9/26.1	RITTY & BENNETT MORGHEAD	18.89 ACRES
9/26.2	RITTY & BENNETT MORGHEAD	10.41 ACRES
9/26.3	RITTY & BENNETT MORGHEAD	0.24 ACRES
9/26.4	RITTY & BENNETT MORGHEAD	1.89 ACRES
9/27	CHARLES RAY JONES	0.503 ACRES
9/27	RONALD EUGENE BOON	0.583 ACRES
9/28	CHARLES RAY JONES	0.25 ACRES
9/28	RONALD EUGENE BOON	0.25 ACRES
9/28	CHARLES RAY JONES	0.16 ACRES
9/28	RONALD EUGENE BOON	0.16 ACRES
9/28.1	CHARLES RAY JONES	0.615 ACRES
9/28.1	RONALD EUGENE BOON	0.615 ACRES
9/28.2	CHARLES RAY JONES	0.06 ACRES
9/28.2	RONALD EUGENE BOON	0.06 ACRES
9/28.3	ROBERT L. & PATRICIA REED	1.069 ACRES
13/25	TERESA STANCHER BURGET ET AL.	5.25 ACRES
13/25	BRYN R. STANCHER, II	5.25 ACRES
13/25	DAVID STANCHER	5.25 ACRES
13/25	VELMA LUELLA WELLS	71.25 ACRES
13/26	VELMA LUELLA WELLS	625.29 ACRES
13/26.1	RAYMOND & REBECCA BARTH	1.05 ACRES
13/27	JANICE FREELAND LANCASTER ET AL.	12.25 ACRES
13/27	LARRY HENTON	27.5 ACRES
13/27	JANICE FREELAND LANCASTER	18.75 ACRES
13/29	TERESA STANCHER BURGET ET AL.	1.06 ACRES
13/29	BRYN R. STANCHER, II	1.06 ACRES
13/29	DAVID STANCHER	1.06 ACRES
13/29.8	DAVID & SHIRLEY JOHNSON	4.03 ACRES
13/29.4	BRYN R. & REBECCA STANCHER	0.92 ACRES
13/29.8	TERESA STANCHER BURGET ET AL.	0.95 ACRES
13/29.8	BRYN R. STANCHER, II	0.95 ACRES
13/29.8	DAVID STANCHER	0.95 ACRES
13/29.8	GERALD W. & REBECCA MECKLEY	0.25 ACRES
13/29.8	WILLIAM H. MORGENTHAU	0.261 ACRES
13/29.8	KAY MARGRETH MORGAN	0.503 ACRES
13/29.8	JANICE ROBERT MORGENTHAU	0.503 ACRES
13/29.8	MARY K. REE	0.503 ACRES
13/29.8	NETTA JANE HALL	0.503 ACRES
13/29.8	WILLIAM H. MORGENTHAU	23.7 ACRES
13/29.8	JANICE ROBERT MORGENTHAU	23.7 ACRES
13/29.8	MARY K. & C. C. PETTY HEARS	4.0 ACRES
13/29.8	WILLIAM H. MORGENTHAU	0.5 ACRES
13/29.8	MARY JANE NEFF	0.093 ACRES
13/29.8	NETTIE WITA GALLEY	0.093 ACRES
13/29.8	WAYNE KICKER, JR.	0.093 ACRES
13/29.8	RONALD E. BRIGHTWELL	43.47 ACRES
13/29.8	CHARLES W. BRIGHTWELL	5.0 ACRES
13/29.8	MILBRED A. REED	46.4 ACRES

**SURVEY NOTES:**

1. THIS IS A VOLUNTARILY POOLED UNIT
2. THERE ARE NO WATER WELLS OR DEVELOPER SPRINGS WITHIN 250' OF PROPOSED WELL
3. THERE ARE NO EXISTING BUILDINGS WITHIN 625' OF PROPOSED WELL
4. PROPOSED WELL IS GREATER THAN 100' FROM PERENNIAL STREAM, WETLAND, POND, RESERVOIR, OR LAKE
5. THERE ARE NO ACTIVE TROUT STREAMS WITHIN 300' OF PROPOSED WELL
6. PROPOSED WELL IS GREATER THAN 1000' FROM SURFACE/GROUNDWATER INTAKE OF PUBLIC WATER SUPPLY
7. IT IS NOT THE INTENTION OF THIS PLAN TO REPRESENT SURVEYED LOCATIONS OF THE SURFACE OR MINERAL PARCELS DEPICTED HEREIN. THE LOCATION OF THE BOUNDARY LINES, AS SHOWN, ARE BASED ON RECORD DEED DESCRIPTIONS, FIELD EVIDENCE FOUND, AND/OR TAX MAP POSITION, UNLESS OTHERWISE NOTED.



**PICKERING ASSOCIATES**  
 Architects • Engineers • Surveyors  
 11283 EMERSON AVENUE, PARKERSBURG, WV 26104  
 (304) 464-5305 PICKERING USA.COM

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API WELL#: 47-095-02152  
 STATE COUNTY PERMIT  
 OPERATOR'S WELL#: **WELLS MECKLEY 1402**

WELL OPERATOR TRIAD HUNTER, LLC (SUBSIDIARY OF BLUE RIDGE MOUNTAIN RESOURCES) ADDRESS 125 PUTNAM ST. MARRIETTA OH 45750  
 DESIGNATED AGENT KIMBERLY ARNOLD ADDRESS PO BOX 154 WAVERLY WV 26184 DATE: 3/14/2018

02/15/2019

**Wells Meckley 1402 Formation Tops**

Formation	TVD= MD	Rock Type/ record QTY/Type of Fluid (Fresh water, brine, oil, gas, H2S, Ect)
Water zone	980	water
Salt Sand	1,563	Sandstone
Maxton Sand	1,687	Sandstone
Greenbrier Limestone	1,773	Limestone
Keener Sand	1,811	Sandstone
Big Injun	1,822	Sandstone
Squaw Sand	2,020	Sandstone
Weir Sand	2,228	Sandstone
Berea Sandstone	2,398	Sandstone
Gordon Stray Sand	2,729	Sandstone
Gordon	2,752	Sandstone
Fifth Sand	2,840	Sandstone
Warren	3,375	Sandstone
Benson	4,845	Sandstone
Tully LS	6,147	Limestone
Marcellus Shale	6,169	Shale / gas
TARGET	6,194	Shale / gas
Onondaga LS	6,223	Limestone

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**ACTUAL WELLPATH REPORT (CSV version)**

Prepared by Baker Hughes  
Software System: WellArchitect® 5.1

**REFERENCE WELLPATH IDENTIFICATION**

Operator BLUE RIDGE MOUNTAIN RESOURCES  
Area Tyler County, WV  
Field Tyler  
Facility Meckley Pad  
Slot Slot #05  
Well Wells Meckley 1402MH  
Wellbore Wells Meckley 1402MH AWB  
Wellpath Wells Meckley 1402MH AWP Proj: 6368'  
Sidetrack (none)

**REPORT SETUP INFORMATION**

Projection NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet  
North Refe Grid  
Scale 0.999942  
Convergen 0.91" West  
Software S WellArchitect® 5.1  
User Edsaryar  
Report Ger 15/Jan/2018 at 16:29  
DataBase/f: WA\_MPL\_EASTERNUS\_Defn/ev4821.xml

WELLPATH Local North	Local East	Easting	Northing	Latitude	Longitude
[ft]	[ft]	[US ft]	[US ft]		
Slot Locatic	-31.2	-18	1567223	380229.6	39°32'06.7 80°55'22.225"W
Facility Ref			1567241	380260.8	39°32'07.0 80°55'22.002"W
Field Refer			600000	0	38°24'00.3 84°16'35.572"W

**WELLPATH DATUM**

Calculation Minimum curvature  
Horizontal Slot  
Vertical Re H&P 371 (RKB)  
MD Refere H&P 371 (RKB)  
Field Vertic Mean Sea Level  
H&P 371 (F 27.00ft)  
H&P 371 (F 985.00ft)  
H&P 371 (F 27.00ft)  
Section Ori N 0.00, E 0.00 ft  
Section Azi 160.00°

**WELLPATH DATA** † = Interpolated/extrapolated station

MD	Inclination	Azimuth	TVD	Vert Sect	North	East	Grid East	Grid North	Latitude	Longitude	Closure Dis	Closure Dir	DLS	Enviro	Rental	Protection
[ft]	[°]	[°]	[ft]	[ft]	[ft]	[ft]	[US ft]	[US ft]			[ft]	[°]	[°/100ft]	[°/100ft]	[°/100ft]	[°/100ft]
†	0	0	99.04	0	0	0	0	1567223	380229.6	39°32'06.7 80°55'22.2	0	0	0	0	0	0
27	0	99.04	27	0	0	0	0	1567223	380229.6	39°32'06.7 80°55'22.2	0	0	0	0	0	0
305	0.24	99.04	305	0.28	-0.09	0.58	1567224	380229.5	39°32'06.7 80°55'22.2	0.58	99.04	0.09	0.09	35.63		
457	0.46	95.58	457	0.7	-0.2	1.5	1567225	380229.4	39°32'06.7 80°55'22.2	1.51	97.643	0.15	0.14	-2.28		
519	0.56	148.47	518.99	1.1	-0.48	1.9	1567225	380229.1	39°32'06.7 80°55'22.2	1.96	104.251	0.75	0.16	85.31		
549	0.98	174.85	548.99	1.5	-0.86	2	1567225	380228.7	39°32'06.7 80°55'22.1	2.18	113.333	1.8	1.4	87.93		
580	1.53	185.69	579.98	2.13	-1.54	1.99	1567225	380228.1	39°32'06.7 80°55'22.2	2.51	127.794	1.92	1.77	34.97		
611	2.23	186.44	610.97	3.04	-2.55	1.88	1567225	380227.1	39°32'06.7 80°55'22.2	3.17	143.658	2.26	2.26	2.42		
642	2.88	187.25	641.94	4.27	-3.92	1.71	1567225	380225.7	39°32'06.7 80°55'22.2	4.28	156.438	2.1	2.1	2.61		
672	3.66	188.69	671.89	5.78	-5.62	1.47	1567225	380224	39°32'06.6 80°55'22.2	5.81	165.326	2.61	2.6	4.8		
703	4.45	189.31	702.81	7.7	-7.78	1.13	1567224	380221.8	39°32'06.6 80°55'22.2	7.86	171.761	2.55	2.55	2		
734	4.93	189.21	733.71	9.91	-10.28	0.72	1567224	380219.3	39°32'06.6 80°55'22.2	10.31	176	1.55	1.55	-0.32		
795	5.48	189.76	794.45	14.73	-15.74	-0.19	1567223	380213.9	39°32'06.5 80°55'22.2	15.74	180.707	0.91	0.9	0.9		
870	5.86	187.83	869.09	21.22	-23.06	-1.32	1567222	380206.5	39°32'06.5 80°55'22.2	23.1	183.283	0.57	0.51	-2.57		
957	4.85	192.67	955.71	28.24	-31.05	-2.73	1567221	380198.6	39°32'06.4 80°55'22.2	31.17	185.033	1.27	-1.16	5.56		
1044	4.16	194.98	1042.44	33.93	-37.69	-4.36	1567219	380191.9	39°32'06.3 80°55'22.2	37.94	186.594	0.82	-0.79	2.66		
1132	4.36	193.93	1130.19	39.32	-44.02	-5.99	1567217	380185.6	39°32'06.3 80°55'22.2	44.42	187.746	0.24	0.23	-1.19		
1219	4.15	193.45	1216.95	44.69	-50.29	-7.52	1567216	380179.3	39°32'06.2 80°55'22.3	50.85	188.5	0.24	-0.24	-0.55		
1350	4.86	186.15	1347.55	53.62	-60.42	-9.21	1567214	380169.2	39°32'06.1 80°55'22.3	61.12	188.67	0.7	0.54	-5.57		
1437	3.91	189.81	1434.29	59.51	-67.01	-10.11	1567213	380162.6	39°32'06.0 80°55'22.3	67.76	188.583	1.14	-1.09	4.21		
1524	2.26	200.02	1521.17	63.39	-71.54	-11.21	1567212	380158.1	39°32'06.0 80°55'22.3	72.41	188.902	1.99	-1.9	11.74		
1612	1.03	302.14	1609.14	64.1	-72.75	-12.47	1567211	380156.9	39°32'06.0 80°55'22.3	73.81	189.726	3.04	-1.4	116.05		
1699	1.4	348.39	1696.12	62.43	-71.29	-13.35	1567210	380158.3	39°32'06.0 80°55'22.3	72.53	190.603	1.16	0.43	53.16		
1786	0.62	38.96	1783.11	61.13	-69.89	-13.26	1567210	380159.7	39°32'06.0 80°55'22.3	71.13	190.746	1.28	-0.9	58.13		
1874	0.59	69.51	1871.1	60.89	-69.36	-12.54	1567211	380160.3	39°32'06.0 80°55'22.3	70.48	190.248	0.36	-0.03	34.72		
1961	0.07	244.78	1958.1	60.89	-69.22	-12.17	1567211	380160.4	39°32'06.0 80°55'22.3	70.28	189.97	0.76	-0.6	201.46		
2048	0.72	236.13	2045.1	61.02	-69.55	-12.67	1567211	380160.1	39°32'06.0 80°55'22.3	70.69	190.325	0.75	0.75	-9.94		
2136	1.18	237.72	2133.09	61.35	-70.34	-13.9	1567209	380159.3	39°32'06.0 80°55'22.3	71.7	191.174	0.52	0.52	1.81		
2223	1.25	233.98	2220.07	61.8	-71.38	-15.42	1567208	380158.2	39°32'06.0 80°55'22.4	73.02	192.191	0.12	0.08	-4.3		
2310	1.42	236.52	2307.05	62.31	-72.53	-17.09	1567206	380157.1	39°32'06.0 80°55'22.4	74.52	193.256	0.21	0.2	2.92		
2397	1.55	232.45	2394.02	62.92	-73.84	-18.92	1567204	380155.8	39°32'06.0 80°55'22.4	76.23	194.37	0.19	0.15	-4.68		
2485	1.62	230.84	2481.98	63.69	-75.35	-20.83	1567202	380154.3	39°32'06.0 80°55'22.4	78.18	195.45	0.09	0.08	-1.83		
2572	0.51	214.47	2568.97	64.31	-76.45	-22	1567201	380153.2	39°32'05.9 80°55'22.4	79.55	196.054	1.31	-1.28	-18.82		
2660	0.35	187.26	2656.96	64.78	-77.04	-22.26	1567201	380152.6	39°32'05.9 80°55'22.4	80.19	196.113	0.29	-0.18	-30.92		

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2747	0.47	183.84	2743.96	65.34	-77.66	-22.31	1567201	380152	39°32'05.9	80°55'22.4	80.8	196.03	0.14	0.14	-3.93
2828	0.39	184.06	2824.96	65.9	-78.27	-22.35	1567201	380151.3	39°32'05.9	80°55'22.4	81.4	195.941	0.1	-0.1	0.27
2942	0	83.36	2938.96	66.25	-78.65	-22.38	1567201	380151	39°32'05.9	80°55'22.4	81.77	195.885	0.34	-0.34	154.33
3036	0.09	12.41	3032.96	66.19	-78.58	-22.37	1567201	380151	39°32'05.9	80°55'22.4	81.7	195.888	0.1	0.1	13.2
3130	0.1	248.72	3126.96	66.13	-78.54	-22.43	1567201	380151.1	39°32'05.9	80°55'22.4	81.68	195.937	0.18	0.01	-131.59
3224	0.15	69.84	3220.96	66.13	-78.53	-22.39	1567201	380151.1	39°32'05.9	80°55'22.4	81.65	195.913	0.27	0.05	-190.3
3318	0.1	312.29	3314.96	66.06	-78.43	-22.33	1567201	380151.2	39°32'05.9	80°55'22.4	81.55	195.895	0.23	-0.05	-125.05
3412	0.15	329.22	3408.96	65.87	-78.27	-22.46	1567201	380151.3	39°32'05.9	80°55'22.4	81.42	196.009	0.07	0.05	18.01
3506	3.13	260.99	3502.91	65.26	-78.56	-25.05	1567198	380151	39°32'05.9	80°55'22.5	82.46	197.688	3.27	3.17	-72.59
3601	12.34	272.59	3596.95	60.85	-78.51	-37.79	1567186	380151.1	39°32'05.9	80°55'22.6	87.13	205.701	9.78	9.69	12.21
3695	12.75	258.06	3688.73	55.54	-80.2	-57.97	1567165	380149.4	39°32'05.9	80°55'22.9	98.96	215.861	3.38	0.44	-15.46
3789	12.72	254.3	3780.42	53.31	-85.15	-78.08	1567145	380144.5	39°32'05.8	80°55'23.2	115.53	222.522	0.88	-0.03	-4
3883	14.68	258.51	3871.74	50.77	-90.32	-99.72	1567124	380139.3	39°32'05.8	80°55'23.4	134.55	227.831	2.34	2.09	4.48
3977	15.56	260.12	3962.49	46.79	-94.86	-123.82	1567099	380134.8	39°32'05.7	80°55'23.7	155.98	232.543	1.04	0.94	1.71
4071	15.62	263.81	4053.03	41.55	-98.39	-148.82	1567074	380131.2	39°32'05.7	80°55'24.1	178.4	236.53	1.06	0.06	3.93
4166	16.79	266.46	4144.25	34.61	-100.61	-175.23	1567048	380129	39°32'05.7	80°55'24.4	202.06	240.136	1.46	1.23	2.79
4260	17.22	266.02	4234.14	26.93	-102.42	-202.66	1567021	380127.2	39°32'05.7	80°55'24.7	227.07	243.19	0.48	0.46	-0.47
4354	17.1	264.96	4323.96	19.52	-104.6	-230.31	1566993	380125	39°32'05.6	80°55'25.1	252.95	245.574	0.36	-0.13	-1.13
4449	16.64	264.87	4414.87	12.42	-107.04	-257.77	1566966	380122.6	39°32'05.6	80°55'25.4	279.11	247.449	0.48	-0.48	-0.09
4543	17.23	263.7	4504.8	5.67	-109.77	-285.01	1566938	380119.8	39°32'05.6	80°55'25.8	305.42	248.936	0.72	0.63	-1.24
4637	15.69	260.69	4594.94	0.02	-113.36	-311.39	1566912	380116.3	39°32'05.5	80°55'26.1	331.38	249.997	1.87	-1.64	-3.2
4732	17.15	262.03	4686.07	-5.29	-117.38	-337.94	1566885	380112.2	39°32'05.5	80°55'26.5	357.75	250.847	1.59	1.54	1.41
4829	19.51	265.51	4778.14	-12.6	-120.63	-368.26	1566855	380109	39°32'05.4	80°55'26.9	387.51	251.863	2.68	2.43	3.59
4921	18.66	265.24	4865.08	-20.58	-123.05	-398.24	1566825	380106.6	39°32'05.4	80°55'27.2	416.82	252.83	0.93	-0.92	-0.29
5015	19.73	270.08	4953.86	-29.98	-124.28	-429.1	1566794	380105.3	39°32'05.4	80°55'27.6	446.73	253.848	2.04	1.14	5.15
5110	17.96	272.2	5043.77	-41.02	-123.69	-459.77	1566764	380105.9	39°32'05.4	80°55'28.0	476.12	254.942	2	-1.86	2.23
5204	17.79	270.28	5133.23	-51.47	-123.07	-488.61	1566735	380106.5	39°32'05.4	80°55'28.4	503.87	255.863	0.65	-0.18	-2.04
5298	18.02	272.9	5222.68	-62.11	-122.26	-517.49	1566706	380107.4	39°32'05.4	80°55'28.8	531.74	256.707	0.89	0.24	2.79
5392	17.47	273.68	5312.21	-73.43	-120.62	-546.1	1566677	380109	39°32'05.4	80°55'29.1	559.26	257.545	0.64	-0.59	0.83
5486	17.56	271.48	5401.85	-84.29	-119.35	-574.35	1566649	380110.3	39°32'05.4	80°55'29.5	586.62	258.261	0.71	0.1	-2.34
5581	17.48	270.39	5492.44	-94.51	-118.88	-602.95	1566620	380110.7	39°32'05.4	80°55'29.8	614.55	258.846	0.36	-0.08	-1.15
5675	16.74	269.72	5582.28	-104	-118.85	-630.6	1566593	380110.8	39°32'05.4	80°55'30.2	641.7	259.327	0.81	-0.79	-0.71
5769	17.03	267.15	5672.23	-112.62	-119.6	-657.89	1566565	380110	39°32'05.4	80°55'30.5	668.67	259.696	0.85	0.31	-2.73
5864	16.99	256.28	5763.1	-118.24	-123.59	-685.27	1566538	380106	39°32'05.4	80°55'30.9	696.33	259.777	3.34	-0.04	-11.44
5958	19.33	238.56	5852.48	-116.66	-134.97	-711.91	1566511	380094.6	39°32'05.3	80°55'31.2	724.59	259.265	6.35	2.49	-18.85
5986	19.5	235.74	5878.89	-114.59	-140.02	-719.73	1566504	380089.6	39°32'05.2	80°55'31.3	733.22	258.991	3.4	0.61	-10.07
5992	18.79	233.37	5884.55	-114.07	-141.16	-721.33	1566502	380088.5	39°32'05.2	80°55'31.4	735.01	258.928	17.54	-11.83	-39.5
6065	21.78	224.55	5953.03	-104.88	-157.83	-740.27	1566483	380071.8	39°32'05.0	80°55'31.6	756.91	257.964	5.85	4.1	-12.08
6087	24.34	221.03	5973.28	-100.93	-164.16	-746.12	1566477	380065.5	39°32'05.0	80°55'31.7	763.96	257.592	13.21	11.64	-16
6118	29.01	216.59	6000.97	-93.69	-175.02	-754.8	1566469	380054.6	39°32'04.9	80°55'31.8	774.82	256.945	16.37	15.06	-14.32
6149	33.3	212.92	6027.5	-84.41	-188.21	-763.91	1566459	380041.4	39°32'04.7	80°55'31.9	786.75	256.159	15.13	13.84	-11.84
6181	37.16	209.02	6053.63	-72.77	-204.04	-773.37	1566450	380025.6	39°32'04.6	80°55'32.0	799.84	255.22	13.96	12.06	-12.19
6212	39.94	204.02	6077.88	-59.47	-221.32	-781.97	1566441	380008.3	39°32'04.4	80°55'32.1	812.69	254.197	13.46	8.97	-16.13
6244	43.37	200.49	6101.79	-43.72	-241.01	-790	1566433	379988.6	39°32'04.2	80°55'32.2	825.94	253.034	12.98	10.72	-11.03
6275	45.65	197.76	6123.9	-26.86	-261.54	-797.11	1566426	379968.1	39°32'04.0	80°55'32.3	838.92	251.835	9.6	7.35	-8.81
6307	48.68	196.58	6145.65	-8.16	-283.96	-804.03	1566419	379945.7	39°32'03.8	80°55'32.4	852.7	250.548	9.85	9.47	-3.69
6368	48.68	196.58	6185.93	28.63	-327.87	-817.1	1566406	379901.8	39°32'03.3	80°55'32.5	880.43	248.137	0	0	0

HOLE AND CASING SECTIONS Ref Wellbore: Wells Meckley 1402MH AWP Proj: 6368'

String/Dian	Start MD	End MD	Interval	Start TVD	End TVD	Start N/S	Start E/W	End N/S	End E/W
	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]	[ft]
20in Concl	27	100	73	27	100	0	0	-0.01	0.04
17.5in Ope	100	400	300	100	400	-0.01	0.04	-0.16	1.08
13.375in C	27	400	373	27	400	0	0	-0.16	1.08
12.25in Op	400	2891	2491	400	2887.96	-0.16	1.08	-78.57	-22.38
9.625in Ca	27	2880	2853	27	2876.96	0	0	-78.54	-22.37
8.5in Open	2891	6368	3477	2887.96	6185.93	-78.57	-22.38	-327.87	-817.1

TARGETS

Name	TVD	North	East	Grid East	Grid North	Latitude	Longitude	Shape	Comment
	[ft]	[ft]	[ft]	[US ft]	[US ft]	[US ft]			
1402MH LI	6229.38	-599.84	-830.8	1566393	379629.8	39°32'00.6	80°55'32.7	point	
1402MH LF	6231.14	-700.16	-609.05	1566614	379529.5	39°31'59.7	80°55'29.8	point	
1402MH A	6240.54	-1964.43	-148.96	1567074	378265.3	39°31'47.3	80°55'23.7	point	
1402MH BI	6276.49	-6803.82	1612.17	1568835	373426.2	39°30'59.7	80°55'00.2	point	

WELLPATH COMPOSITION Ref Wellbore: Wells Meckley 1402MH AWP Proj: 6368'

Log Name/	Start MD	End MD	Pos Unc Model
	[ft]	[ft]	
01_Sperry I	27	2828	ISOWSA MWD, Rev. 4 (Standard)
02_BHI AT	2828	5986	BHI AutoTrak Curve (Short)
03_BH MA	5986	6307	BHI NaviTrak (Short spacing)
Projection	6307	6368	Blind Drilling (std)

COMMENTS

Wellpath general comments  
 API: 47-095-02152-0000  
 BH Job #: 8903916  
 Rig: H&P 371  
 Duration: 1/2/2018-1/9/2018



02/15/2019

Sperry MWD <12-1/4> (300'-2823')"  
BH AT Curve <8-1/2> (2828')(2942'-5986')"  
BH MWD <8-1/2> (5986')(5992'-6307')"  
Projected MD at TD: 6368'

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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/24/2018
Job End Date:	3/12/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02152-00-00
Operator Name:	Triad Hunter LLC.
Well Name and Number:	Wells Meckley 1402
Latitude:	39.53311753
Longitude:	-80.92490749
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,267
Total Base Water Volume (gal):	10,111,962
Total Base Non Water Volume:	0



## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Blue Ridge Mountain Resources	Carrier/Base Fluid					
			Water	7732-18-5	100.00000	88.29293	None
Sand (Silica)	Muskie Propant	Proppant					
			Silica Substrate	14808-60-7	100.00000	10.66301	None
Hydrochloric Acid (28%)	Dover	Acidizing					
			Water	7732-18-5	64.00000	0.59003	None
			Hydrochloric Acid (Hydrogen Chloride)	7732-18-5	36.00000	0.33189	None
Plexslick 957	Chemplex SOLVAY	Friction Reducer					
			Water	7732-18-5	75.00000	0.04348	None
			Petroleum Distillate	64742-47-8	20.00000	0.01159	None
			Ammonium Chloride ((NH4)Cl)	12125-02-9	2.00000	0.00116	None
			Alcohols, C14-15, ethoxylated	68551-12-2	1.50000	0.00087	None
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00087	None
Exgel 907L-EB	Chemplex SOLVAY	Gelling Agent, Water Viscofier					
			Guar gum	9000-30-0	50.00000	0.01181	None
			Petroleum distillate	64742-47-8	50.00000	0.01181	None

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			Organophilic clay	Proprietary	2.00000	0.00047	None
			Alcohol ethoxylate	34398-01-1	1.00000	0.00023	None
			Crystalline silica	14808-60-7	0.10000	0.00001	None
SI-20W	Moon Chemical Products	Scale Inhibitor					
			Water	7732-18-5	56.00000	0.01289	None
			Phosphinocarboxylic acid	110224-99-2	44.00000	0.01013	None
K-BAC 1005	Water Science Technologie, LLC	Biocide					
			Polyethylene glycol	25322-68-3	50.00000	0.00710	None
			Water	7732-18-5	44.30000	0.00629	None
			2, 2-Dibromo-3-nitrilopropionamide	10222-01-2	5.80000	0.00082	None
NEFE-180	Chemplex	Corrosion Inhibitor/Iron Control					
			Acetic acid	64-19-7	89.00000	0.00251	None
			Methanol	67-56-1	40.00000	0.00113	None
			2-Ethylhexanol	104-76-7	10.00000	0.00028	None
			Coconut oil acid diethanolamine	68603-42-9	5.00000	0.00014	None
			Fatty acids, tall oil	61790-12-3	5.00000	0.00014	None
			2-Propyn-1-ol	107-19-7	5.00000	0.00014	None
			Alcohols, C14-15, ethoxylated	68951-67-7	5.00000	0.00014	None
Breaker	Chemplex SOLVAY	Sodium Persulfate					
			Gel Breaker	7775-27-1	50.00000	0.00025	None
Ingredients shown above are subject to 29 CFR 1910.1200(i) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Other Chemical(s)	Listed Above	See Trade Name(s) List					
			Water	7732-18-5	64.00000	0.59003	
			Water	7732-18-5	75.00000	0.04348	
			Guar gum	9000-30-0	50.00000	0.01181	
			Phosphinocarboxylic acid	110224-99-2	44.00000	0.01013	
			Polyethylene glycol	25322-68-3	50.00000	0.00710	
			Water	7732-18-5	44.30000	0.00629	
			Ammonium Chloride ((NH4)Cl)	12125-02-9	2.00000	0.00116	
			Methanol	67-56-1	40.00000	0.00113	
			Oleic Acid Diethanolamide	93-83-4	1.50000	0.00087	
			Alcohols, C14-15, ethoxylated	68551-12-2	1.50000	0.00087	
			Organophilic clay	Proprietary	2.00000	0.00047	
			2-Ethylhexanol	104-76-7	10.00000	0.00028	
			Alcohol ethoxylate	34398-01-1	1.00000	0.00023	
			Coconut oil acid diethanolamine	68603-42-9	5.00000	0.00014	
			Alcohols, C14-15, ethoxylated	68951-67-7	5.00000	0.00014	
			Fatty acids, tall oil	61790-12-3	5.00000	0.00014	
			2-Propyn-1-ol	107-19-7	5.00000	0.00014	
			Crystalline silica	14808-60-7	0.10000	0.00001	

- \* Total Water Volume sources may include fresh water, produced water, and/or recycled water
- \*\* Information is based on the maximum potential for concentration and thus the total may be over 100%

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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Well: 1402  
 Crew: White Fleet  
 Location: WV / Tyler  
 Formation: Marcellus

**Treatment Summary**

Stage Number	Start Date	Total Clean Vol (bbt)	Avg Psi (psi)	Max Psi (psi)	Avg Rate (bpm)	Max Rate (bpm)	100 Mesh (lbs)	40/70 White (lbs)	Proppant Type 3 (lbs)	Proppant Type 4 (lbs)	Acid Volume (gal)	Breakdown (psi)	SIP (psi)
1	2/24/2018	5,864	7,312	7,973	85.0	90.7	28,400	193,400			2,264	n/a	3,750
2	2/25/2018	6,177	7,542	8,549	84.8	85.8	30,620	239,960			2,272	5,494	3,416
3	2/25/2018	6,158	7,984	8,989	84.0	90	28,080	245,160			2,415	5,376	3,688
4	2/26/2018	1,664	8,672	9,592	35.9	58.3	6,540				2,260	5,733	4,365
5	2/26/2018	5,953	7,800	8,998	88.9	90.3	26,960	242,980			2,839	5,638	3,856
6	2/26/2018	6,284	8,074	9,208	85.8	90.2	26,520	244,060			2,545	5,485	3,483
7	2/27/2018	6,124	7,585	8,201	90.0	90.7	29,120	242,720			2,734	5,564	3,942
8	2/28/2018	6,254	7,927	8,774	87.2	90.8	27,960	240,920			3,268	5,379	4,355
9	2/28/2018	6,246	7,386	7,920	89.3	90.6	27,420	242,520			2,906	5,340	4,643
10	2/28/2018	6,380	7,831	9,374	85.0	88	27,500	241,780			3,713	5,585	4,159
11	3/1/2018	6,184	7,938	9,146	79.9	85.3	27,440	239,880			3,545	5,627	4,091
12	3/1/2018	6,104	7,737	8,509	90.2	90.6	26,780	244,880			2,390	5,267	3,758
13	3/1/2018	6,162	7,904	8,790	87.4	88.8	26,900	238,540			2,075	5,394	3,739
14	3/2/2018	6,139	8,209	8,752	84.8	89.9	26,820	243,520			2,360	5,532	4,195
15	3/2/2018	6,091	7,820	8,679	84.0	87.5	26,900	245,120			2,734	5,288	3,837
16	3/2/2018	6,019	8,070	9,569	80.5	85.9	27,760	239,820			2,247	5,545	3,997
17	3/3/2018	6,024	8,098	9,153	83.6	86.7	26,500	244,040			2,612	5,889	3,716
18	3/3/2018	6,203	7,685	8,619	89.8	90.4	27,020	243,480			2,310	6,593	4,528
19	3/3/2018	6,025	7,778	8,826	89.0	90.5	27,040	240,700			2,306	5,604	3,942
20	3/4/2018	5,752	7,875	9,004	85.0	88.3	26,680	244,260			2,121	5,751	4,164
21	3/4/2018	5,967	8,274	9,120	85.7	91.9	26,920	244,120			2,331	5,473	4,866
22	3/4/2018	2,916	8,333	9,938	64.4	88.7	27,000	17,869			848	4,977	6,092
23	3/5/2018	5,982	7,662	8,735	84.1	86.6	27,000	243,040			2,159	6,157	3,874
24	3/5/2018	5,999	7,334	8,351	84.4	87.1	26,800	240,880			2,339	5,545	4,083
25	3/5/2018	5,812	7,731	8,711	91.9	92.8	27,020	239,280			2,264	5,632	4,183
26	3/5/2018	6,029	7,477	8,795	84.4	86.8	27,000	243,500			2,163	5,709	4,125
27	3/6/2018	6,574	7,524	8,636	80.5	88	28,040	242,420			2,176	1,159	3,584
28	3/6/2018	5,709	7,835	8,635	90.4	92.7	27,440	242,860			2,192	5,438	4,529
29	3/6/2018	5,934	7,698	8,475	90.0	90.9	30,440	239,420			2,251	5,308	5,108
30	3/6/2018	6,000	7,497	8,614	83.4	86	26,980	238,500			2,297	5,821	4,140
31	3/7/2018	6,014	7,357	8,311	90.0	90.8	27,000	244,340			2,041	5,487	4,554
32	3/7/2018	5,643	7,622	8,651	88.8	90.4	26,880	199,920			2,159	5,611	4,116
33	3/8/2018	5,638	7,338	8,186	86.5	87.6	27,020	212,580			2,125	5,471	4,509
34	3/8/2018	5,761	7,131	8,492	84.8	86.2	27,000	243,440			2,167	5,447	3,984
35	3/8/2018	5,849	7,129	7,794	85.3	86	26,960	243,620			2,260	5,611	3,508
36	3/10/2018	6,014	7,346	8,842	82.9	86.2	27,020	243,740			2,134	5,664	4,061
37	3/9/2018	5,604	7,210	8,240	86.1	86.7	27,000	239,000			2,146	5,394	3,872
38	3/10/2018	6,034	7,509	8,935	83.9	87.4	25,500	244,980			2,390	7,269	3,662
39	3/10/2018	5,979	6,591	6,884	84.9	86.5	29,940	241,360			2,318	5,422	3,622
40	3/10/2018	5,887	7,285	8,162	90.5	91.9	27,020	243,420			2,134	6,109	3,756
41	3/11/2018	5,583	6,805	7,671	85.5	86	28,780	239,860			2,188	5,485	3,720
42	3/11/2018	5,857	5,336	9,796	57.3	90.9	22,920	247,360			2,411	5,235	3,496
43	3/12/2018	5,913	7,377	8,339	89.3	90.5	30,340	239,900			2,226	5,423	4,017
<b>Totals</b>		<b>250,505</b>	<b>7,591</b>	<b>8,673</b>	<b>83.8</b>	<b>88.09</b>	<b>1,156,980</b>	<b>9,833,149</b>			<b>101,665</b>	<b>230,811</b>	<b>4,072</b>

1402

02/15/2019

Stage No.	Perforation Date	Top Depth (ft MD)	Bottom Depth (ft MD)	Number of Perfs
Stg 43	3/12/2018 3:00	6604	6605	6
Stg 43	3/12/2018 3:00	6632	6633	6
Stg 43	3/12/2018 3:00	6660	6661	6
Stg 43	3/12/2018 3:00	6688	6689	6
Stg 43	3/12/2018 3:00	6716	6717	6
Stg 42	3/11/2018 10:00	6746	6747	6
Stg 42	3/11/2018 10:00	6776	6777	6
Stg 42	3/11/2018 10:00	6806	6807	6
Stg 42	3/11/2018 10:00	6836	6837	6
Stg 42	3/11/2018 10:00	6866	6867	6
Stg 41	3/10/2018 18:00	6896	6897	6
Stg 41	3/10/2018 18:00	6926	6927	6
Stg 41	3/10/2018 18:00	6956	6957	6
Stg 41	3/10/2018 18:00	6986	6987	6
Stg 41	3/10/2018 18:00	7016	7017	6
Stg 40	3/10/2018 14:00	7046	7047	6
Stg 40	3/10/2018 14:00	7076	7077	6
Stg 40	3/10/2018 14:00	7106	7107	6
Stg 40	3/10/2018 14:00	7136	7137	6
Stg 40	3/10/2018 14:00	7166	7167	6
Stg 39	3/10/2018 6:45	7196	7197	6
Stg 39	3/10/2018 6:45	7226	7227	6
Stg 39	3/10/2018 6:45	7256	7257	6
Stg 39	3/10/2018 6:45	7286	7287	6
Stg 39	3/10/2018 6:45	7316	7317	6
Stg 38	3/9/2018 17:00	7346	7347	6
Stg 38	3/9/2018 17:00	7376	7377	6
Stg 38	3/9/2018 17:00	7406	7407	6
Stg 38	3/9/2018 17:00	7436	7437	6
Stg 38	3/9/2018 17:00	7466	7467	6
Stg 37	3/9/2018 3:30	7496	7497	6
Stg 37	3/9/2018 3:30	7526	7527	6
Stg 37	3/9/2018 3:30	7556	7557	6
Stg 37	3/9/2018 3:30	7586	7587	6
Stg 37	3/9/2018 3:30	7616	7617	6
Stg 36	3/8/2018 19:59	7646	7647	6
Stg 36	3/8/2018 19:59	7676	7677	6
Stg 36	3/8/2018 19:59	7706	7707	6
Stg 36	3/8/2018 19:59	7736	7737	6
Stg 36	3/8/2018 19:59	7766	7767	6
Stg 35	3/8/2018 10:15	7796	7797	6
Stg 35	3/8/2018 10:15	7826	7827	6
Stg 35	3/8/2018 10:15	7856	7857	6
Stg 35	3/8/2018 10:15	7886	7887	6
Stg 35	3/8/2018 10:15	7916	7917	6
Stg 34	3/8/2018 5:15	7946	7947	6

Stg 34	3/8/2018 5:15	7976	7977	6
Stg 34	3/8/2018 5:15	8006	8007	6
Stg 34	3/8/2018 5:15	8036	8037	6
Stg 34	3/8/2018 5:15	8066	8067	6
Stg 33	3/8/2018 1:00	8096	8097	6
Stg 33	3/8/2018 1:00	8126	8127	6
Stg 33	3/8/2018 1:00	8156	8157	6
Stg 33	3/8/2018 1:00	8186	8187	6
Stg 33	3/8/2018 1:00	8216	8217	6
Stg 32	3/7/2018 14:15	8246	8247	6
Stg 32	3/7/2018 14:15	8276	8277	6
Stg 32	3/7/2018 14:15	8306	8307	6
Stg 32	3/7/2018 14:15	8336	8337	6
Stg 32	3/7/2018 14:15	8366	8367	6
Stg 31	3/7/2018 1:30	8396	8397	6
Stg 31	3/7/2018 1:30	8426	8427	6
Stg 31	3/7/2018 1:30	8456	8457	6
Stg 31	3/7/2018 1:30	8486	8487	6
Stg 31	3/7/2018 1:30	8516	8517	6
Stg 30	3/6/2018 16:45	8546	8547	6
Stg 30	3/6/2018 16:45	8576	8577	6
Stg 30	3/6/2018 16:45	8606	8607	6
Stg 30	3/6/2018 16:45	8636	8637	6
Stg 30	3/6/2018 16:45	8666	8667	6
Stg 29	3/6/2018 11:45	8696	8697	6
Stg 29	3/6/2018 11:45	8726	8727	6
Stg 29	3/6/2018 11:45	8756	8757	6
Stg 29	3/6/2018 11:45	8786	8787	6
Stg 29	3/6/2018 11:45	8816	8817	6
Stg 28	3/6/2018 6:45	8846	8847	6
Stg 28	3/6/2018 6:45	8876	8877	6
Stg 28	3/6/2018 6:45	8906	8907	6
Stg 28	3/6/2018 6:45	8936	8937	6
Stg 28	3/6/2018 6:45	8966	8967	6
Stg 27	3/5/2018 23:30	8996	8997	6
Stg 27	3/5/2018 23:30	9026	9027	6
Stg 27	3/5/2018 23:30	9056	9057	6
Stg 27	3/5/2018 23:30	9086	9087	6
Stg 27	3/5/2018 23:30	9116	9117	6
Stg 26	3/5/2018 18:45	9146	9147	6
Stg 26	3/5/2018 18:45	9176	9177	6
Stg 26	3/5/2018 18:45	9206	9207	6
Stg 26	3/5/2018 18:45	9236	9237	6
Stg 26	3/5/2018 18:45	9266	9267	6
Stg 25	3/5/2018 10:30	9296	9297	6
Stg 25	3/5/2018 10:30	9326	9327	6
Stg 25	3/5/2018 10:30	9356	9357	6

Stg 25	3/5/2018 10:30	9386	9387	6
Stg 25	3/5/2018 10:30	9416	9417	6
Stg 24	3/5/2018 1:00	9446	9447	6
Stg 24	3/5/2018 1:00	9476	9477	6
Stg 24	3/5/2018 1:00	9506	9507	6
Stg 24	3/5/2018 1:00	9536	9537	6
Stg 24	3/5/2018 1:00	9566	9567	6
Stg 23	3/4/2018 18:00	9596	9597	6
Stg 23	3/4/2018 18:00	9627	9628	6
Stg 23	3/4/2018 18:00	9656	9657	6
Stg 23	3/4/2018 18:00	9686	9687	6
Stg 23	3/4/2018 18:00	9716	9717	6
Stg 22	3/4/2018 13:45	9746	9747	6
Stg 22	3/4/2018 13:45	9776	9777	6
Stg 22	3/4/2018 13:45	9806	9807	6
Stg 22	3/4/2018 13:45	9836	9837	6
Stg 22	3/4/2018 13:45	9866	9867	6
Stg 21	3/4/2018 5:45	9896	9897	6
Stg 21	3/4/2018 5:45	9926	9927	6
Stg 21	3/4/2018 5:45	9956	9957	6
Stg 21	3/4/2018 5:45	9986	9987	6
Stg 21	3/4/2018 5:45	10016	10017	6
Stg 20	3/4/2018 2:00	10046	10047	6
Stg 20	3/4/2018 2:00	10076	10077	6
Stg 20	3/4/2018 2:00	10106	10107	6
Stg 20	3/4/2018 2:00	10136	10137	6
Stg 20	3/4/2018 2:00	10166	10167	6
Stg 19	3/3/2018 14:00	10196	10197	6
Stg 19	3/3/2018 14:00	10226	10227	6
Stg 19	3/3/2018 14:00	10256	10257	6
Stg 19	3/3/2018 14:00	10286	10287	6
Stg 19	3/3/2018 14:00	10316	10317	6
Stg 18	3/3/2018 9:00	10346	10347	6
Stg 18	3/3/2018 9:00	10376	10377	6
Stg 18	3/3/2018 9:00	10406	10407	6
Stg 18	3/3/2018 9:00	10436	10437	6
Stg 18	3/3/2018 9:00	10466	10485	6
Stg 17	3/3/2018 1:00	10496	10497	6
Stg 17	3/3/2018 1:00	10526	10527	6
Stg 17	3/3/2018 1:00	10556	10557	6
Stg 17	3/3/2018 1:00	10586	10587	6
Stg 17	3/3/2018 1:00	10616	10617	6
Stg 16	3/2/2018 14:00	10646	10647	6
Stg 16	3/2/2018 14:00	10676	10677	6
Stg 16	3/2/2018 14:00	10706	10707	6
Stg 16	3/2/2018 14:00	10736	10737	6
Stg 16	3/2/2018 14:00	10766	10767	6



Stg 15	3/2/2018 8:15	10796	10797	6
Stg 15	3/2/2018 8:15	10826	10827	6
Stg 15	3/2/2018 8:15	10856	10857	6
Stg 15	3/2/2018 8:15	10886	10887	6
Stg 15	3/2/2018 8:15	10916	10917	6
Stg 14	3/1/2018 19:15	10946	10947	6
Stg 14	3/1/2018 19:15	10983	10985	6
Stg 14	3/1/2018 19:15	11021	11024	6
Stg 14	3/1/2018 19:15	11059	11060.5	6
Stg 14	3/1/2018 19:15	11066	11067	6
Stg 13	3/1/2018 14:45	11126	11127	8
Stg 13	3/1/2018 14:45	11156	11157	8
Stg 13	3/1/2018 14:45	11186	11187	8
Stg 13	3/1/2018 14:45	11216	11217	8
Stg 12	3/1/2018 3:45	11246	11247	6
Stg 12	3/1/2018 3:45	11276	11277	6
Stg 12	3/1/2018 3:45	11306	11307	6
Stg 12	3/1/2018 3:45	11336	11337	6
Stg 12	3/1/2018 3:45	11366	11367	6
Stg 11	2/28/2018 15:00	11396	11397	6
Stg 11	2/28/2018 15:00	11426	11427	6
Stg 11	2/28/2018 15:00	11456	11457	6
Stg 11	2/28/2018 15:00	11486	11487	6
Stg 11	2/28/2018 15:00	11516	11517	6
Stg 10	2/28/2018 9:30	11546	11547	6
Stg 10	2/28/2018 9:30	11576	11577	6
Stg 10	2/28/2018 9:30	11606	11607	6
Stg 10	2/28/2018 9:30	11636	11637	6
Stg 10	2/28/2018 9:30	11666	11667	6
Stg 9	2/28/2018 2:30	11696	11697	6
Stg 9	2/28/2018 2:30	11726	11727	6
Stg 9	2/28/2018 2:30	11756	11757	6
Stg 9	2/28/2018 2:30	11786	11787	6
Stg 9	2/28/2018 2:30	11816	11817	6
Stg 8	2/27/2018 16:30	11846	11847	6
Stg 8	2/27/2018 16:30	11876	11877	6
Stg 8	2/27/2018 16:30	11906	11907	6
Stg 8	2/27/2018 16:30	11936	11937	6
Stg 8	2/27/2018 16:30	11966	11967	6
Stg 7	2/27/2018 12:00	11996	11997	6
Stg 7	2/27/2018 12:00	12026	12027	6
Stg 7	2/27/2018 12:00	12056	12057	6
Stg 7	2/27/2018 12:00	12086	12087	6
Stg 7	2/27/2018 12:00	12116	12117	6
Stg 6	2/26/2018 12:30	12146	12147	6
Stg 6	2/26/2018 12:30	12176	12177	6
Stg 6	2/26/2018 12:30	12206	12207	6

Stg 6	2/26/2018 12:30	12236	12237	6
Stg 6	2/26/2018 12:30	12266	12267	6
Stg 5	2/26/2018 3:30	12296	12297	6
Stg 5	2/26/2018 3:30	12326	12327	6
Stg 5	2/26/2018 3:30	12356	12357	6
Stg 5	2/26/2018 3:30	12386	12387	6
Stg 5	2/26/2018 3:30	12416	12417	6
Stg 4	2/25/2018 23:00	12446	12447	6
Stg 4	2/25/2018 23:00	12476	12477	6
Stg 4	2/25/2018 23:00	12506	12507	6
Stg 4	2/25/2018 23:00	12536	12537	6
Stg 4	2/25/2018 23:00	12566	12567	6
Stg 3	2/25/2018 15:00	12596	12597	6
Stg 3	2/25/2018 15:00	12626	12627	6
Stg 3	2/25/2018 15:00	12656	12657	6
Stg 3	2/25/2018 15:00	12686	12687	6
Stg 3	2/25/2018 15:00	12716	12717	6
Stg 2	2/25/2018 3:00	12746	12747	6
Stg 2	2/25/2018 3:00	12776	12777	6
Stg 2	2/25/2018 3:00	12806	12807	6
Stg 2	2/25/2018 3:00	12836	12837	6
Stg 2	2/25/2018 3:00	12866	12867	6
Stg 1 (Sleeve)	2/16/2018	12892	12897	8
Stg 1 (Sleeve)	2/16/2018	12942	12947	8
Stg 1 (Sleeve)	2/16/2018	12992	12997	8

**ACTUAL WELLPATH REPORT (CSV version)**

Prepared by Baker Hughes

Software System: WellArchitect® 5.1

**REFERENCE WELLPATH IDENTIFICATION**

Operator

Area

Field

Facility

Slot

Well

Wellbore

Wellpath

Sidetrack

**REPORT SETUP INFORMATION**

Projection System

North Reference

Scale

Convergence at slot

Software System

User

Report Generated

DataBase/Source file

**WELLPATH LOCATION**

Slot Location

Facility Reference Pt

Field Reference Pt

**WELLPATH DATUM**

Calculation method

Horizontal Reference Point

**Vertical Reference Point**

**MD Reference Point**

**Field Vertical Reference**

**H&P 371 (RKB) to Facility Vertical Datum**

**H&P 371 (RKB) to Mean Sea Level**

**H&P 371 (RKB) to Mud Line at Slot (Slot #05)**

**Section Origin**

**Section Azimuth**

**WELLPATH DATA † = interpolated/extrapolated station**

†

**HOLE AND CASING SECTIONS** Ref Wellbore: Wells Meckley 1402MH ST01 AWB Ref Wellpath: Wells Meckley 1402MH-  
String/Diameter

20in Conductor

17.5in Open Hole

13.375in Casing Surface

12.25in Open Hole

9.625in Casing Intermediate

8.5in Open Hole

8.5in Open Hole

5.5in Casing Production

#### T A R G E T S

Name

1402MH LP Rev-2

1402MH LP Rev-4

1402MH BHL Rev-2

WELLPATH COMPOSITION Ref Wellbore: Wells Meckley 1402MH ST01 AWB Ref Wellpath: Wells Meckley 1402MH ST  
Log Name/Comment

01\_Sperry MWD <12-1/4"> (300'-2823')

02\_BHI AT Curve <8-1/2"> (2828')(2942'-5986')

04\_BH AT Curve <8-1/2"> (5015')(5077'-13047')

Projection to bit

#### C O M M E N T S

Wellpath general comments

API: 47-095-02152-0100

BH Job #: 8903916-A

Rig: H&P 371

Duration: 1/10/2018-1/16/2018

Sperry MWD [OH] <12-1/4> (300'-2823')"

BH AT Curve [OH] <8-1/2> (2828')(2942'-5015')"

BH AT Curve [ST01] <8-1/2> (5015')(5077'-13047')"

Projected MD at TD: 13072'

**BLUE RIDGE MOUNTAIN RESOURCES**

Tyler County, WV

Tyler

Meckley Pad

Slot #05

Wells Meckley 1402MH ST01

Wells Meckley 1402MH ST01 AWB

Wells Meckley 1402MH ST01 AWP Proj: 13072'

Wells Meckley 1402MH AWP Proj: 6368' at 5015.00 MD

NAD83 / Lambert West Virginia SP, Northern Zone (4701), US feet

Grid

0.999942

0.91° West

WellArchitect® 5.1

Edsaryar

16/Jan/2018 at 19:28

WA\_MPL\_EASTERNUS\_Defn/ev4821.xml

Local North  
[ft]

Local East [ft]	Easting [US ft]	Northing [US ft]	Latitude
-31.2	-18	1567223.3	380229.6 39°32'06.749"N
		1567241.3	380260.8 39°32'07.060"N
		600000	0 38°24'00.345"N

Minimum curvature

Slot

**H&P 371 (RKB)**  
**H&P 371 (RKB)**  
**Mean Sea Level**  
**27.00ft**  
**985.00ft**  
**27.00ft**  
**N 0.00, E 0.00 ft**  
**160.00°**

<b>MD</b>	<b>Inclination</b>	<b>Azimuth</b>	<b>TVD</b>	<b>Vert Sect</b>
<b>[ft]</b>	<b>[°]</b>	<b>[°]</b>	<b>[ft]</b>	<b>[ft]</b>
0	0		99.04	0
27	0		99.04	27
305	0.24		99.04	305
457	0.46		95.58	457
519	0.56		148.47	518.99
549	0.98		174.85	548.99
580	1.53		185.69	579.98
611	2.23		186.44	610.97
642	2.88		187.25	641.94
672	3.66		188.69	671.89
703	4.45		189.31	702.81
734	4.93		189.21	733.71
795	5.48		189.76	794.45
870	5.86		187.83	869.09
957	4.85		192.67	955.71
1044	4.16		194.98	1042.44
1132	4.36		193.93	1130.19
1219	4.15		193.45	1216.95
1350	4.86		186.15	1347.55
1437	3.91		189.81	1434.29
1524	2.26		200.02	1521.17



1612	1.03	302.14	1609.14	64.1
1699	1.4	348.39	1696.12	62.43
1786	0.62	38.96	1783.11	61.13
1874	0.59	69.51	1871.1	60.89
1961	0.07	244.78	1958.1	60.89
2048	0.72	236.13	2045.1	61.02
2136	1.18	237.72	2133.09	61.35
2223	1.25	233.98	2220.07	61.8
2310	1.42	236.52	2307.05	62.31
2397	1.55	232.45	2394.02	62.92
2485	1.62	230.84	2481.98	63.69
2572	0.51	214.47	2568.97	64.31
2660	0.35	187.26	2656.96	64.78
2747	0.47	183.84	2743.96	65.34
2828	0.39	184.06	2824.96	65.9
2942	0	83.36	2938.96	66.25
3036	0.09	12.41	3032.96	66.19
3130	0.1	248.72	3126.96	66.13
3224	0.15	69.84	3220.96	66.13
3318	0.1	312.29	3314.96	66.06
3412	0.15	329.22	3408.96	65.87
3506	3.13	260.99	3502.91	65.26
3601	12.34	272.59	3596.95	60.85
3695	12.75	258.06	3688.73	55.54
3789	12.72	254.3	3780.42	53.31
3883	14.68	258.51	3871.74	50.77
3977	15.56	260.12	3962.49	46.79
4071	15.62	263.81	4053.03	41.55
4166	16.79	266.46	4144.25	34.61
4260	17.22	266.02	4234.14	26.93
4354	17.1	264.96	4323.96	19.52
4449	16.64	264.87	4414.87	12.42
4543	17.23	263.7	4504.8	5.67
4637	15.69	260.69	4594.94	0.02

4732	17.15	262.03	4686.07	-5.29
4829	19.51	265.51	4778.14	-12.6
4921	18.66	265.24	4865.08	-20.58
5015	19.73	270.08	4953.86	-29.98
5077	18.67	272.14	5012.41	-37.31
5110	17.82	272.28	5043.75	-41.22
5204	15.29	292.32	5133.92	-55.03
5298	17.1	286.38	5224.19	-71.57
5392	17.09	267.72	5314.11	-83.98
5486	18.87	251.17	5403.57	-88.5
5581	20.03	240.49	5493.18	-86.12
5675	20.01	225.1	5581.56	-76.69
5769	20.39	208.38	5669.85	-59.02
5864	26.83	201	5756.88	-31.82
5958	34.52	197.17	5837.67	5.48
6052	40.08	192.35	5912.43	52.31
6146	44.84	180.99	5981.86	108.93
6240	47.85	167.7	6046.9	174.58
6335	56.32	164.52	6105.23	249.03
6429	60.66	164.7	6154.35	328.89
6523	68.17	162.15	6194.92	413.45
6617	78.09	164.14	6222.16	503.15
6711	89.6	164.39	6232.23	596.19
6805	89.48	160.78	6232.98	690.08
6899	89.6	157.88	6233.74	784.06
6994	89.78	155.66	6234.25	878.9
7088	89.63	154.64	6234.73	972.56
7182	89.57	153.9	6235.39	1066.09
7276	89.38	155.24	6236.25	1159.66
7370	89.54	155.83	6237.14	1253.37
7464	89.57	159.07	6237.87	1347.26
7558	89.57	161.04	6238.57	1441.26
7652	89.88	163.64	6239.02	1535.17
7746	89.78	162.38	6239.3	1629.04

7841	89.75	161.95	6239.69	1723.97
7935	89.63	160.74	6240.2	1817.94
8029	89.75	162.8	6240.71	1911.89
8124	89.85	167.45	6241.04	2006.48
8218	89.69	169.7	6241.42	2099.42
8312	89.42	162.64	6242.15	2192.82
8406	89.57	159.05	6242.98	2286.79
8500	89.51	159.9	6243.73	2380.78
8594	89.82	160.91	6244.28	2474.77
8688	89.66	157.68	6244.71	2568.75
8782	89.94	155.8	6245.04	2662.6
8877	89.88	154.52	6245.19	2757.26
8971	89.11	156.67	6246.02	2850.97
9065	89.45	158.07	6247.2	2944.86
9160	89.26	158.01	6248.27	3039.8
9254	89.38	157.05	6249.38	3133.7
9348	89.42	157.59	6250.37	3227.6
9443	89.42	160.15	6251.33	3322.56
9537	89.63	162.01	6252.11	3416.54
9631	89.57	156.99	6252.76	3510.5
9725	89.91	155.4	6253.19	3604.29
9820	89.66	156.35	6253.55	3699.04
9914	89.82	161.18	6253.97	3792.99
10009	90.83	163.64	6253.44	3887.9
10103	90	166.9	6252.75	3981.49
10197	89.94	165.59	6252.8	4074.93
10291	89.66	166.36	6253.13	4168.41
10385	89.72	165.94	6253.64	4261.87
10480	89.85	163.15	6254	4356.56
10574	89.88	159.56	6254.22	4450.52
10668	89.88	155.1	6254.42	4544.4
10762	89.94	154.73	6254.56	4638.03
10857	90	154.47	6254.61	4732.6
10951	89.78	154.23	6254.79	4826.15

11045	89.97	156.16	6255	4919.81
11139	89.82	157.18	6255.17	5013.65
11234	89.72	161.21	6255.55	5108.62
11328	89.72	161.64	6256.01	5202.59
11422	89.82	157.05	6256.39	5296.56
11516	89.85	156.95	6256.66	5390.43
11610	89.42	158.04	6257.26	5484.34
11704	89.42	159.74	6258.21	5578.31
11799	89.35	166.45	6259.23	5673.11
11893	89.57	167.08	6260.12	5766.45
11988	89.54	164.68	6260.85	5860.94
12082	89.66	163.03	6261.51	5954.73
12176	89.72	161.14	6262.02	6048.66
12271	89.57	160.68	6262.61	6143.64
12365	89.78	159.71	6263.14	6237.64
12459	89.69	159.17	6263.58	6331.63
12553	89.82	159.04	6263.98	6425.62
12648	89.63	157.62	6264.43	6520.58
12742	89.57	157.56	6265.09	6614.49
12836	89.6	157.23	6265.77	6708.39
12930	89.75	158.06	6266.3	6802.31
13024	89.51	159.51	6266.91	6896.29
13047	89.63	159.88	6267.08	6919.28
13072	89.63	159.88	6267.25	6944.28

I ST01 AWP Proj: 13072'

Start MD  
[ft]

	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	
	27	100	73	27	100
	100	400	300	100	400
	27	400	373	27	400
	400	2891	2491	400	2887.96
	27	2880	2853	27	2876.96
	2891	5015	2124	2887.96	4953.86

5015	13072	8057	4953.86	6267.25
27	13072	13045	27	6267.25

TVD  
[ft]

	North [ft]	East [ft]	Grid East [ft]	Grid North [US ft]
6231.14	-700.16	-609.05	1566614.29	379529.48
6232.04	-820.27	-565.34	1566658	379409.38
6276.49	-6803.82	1612.17	1568835.38	373426.19

01 AWP Proj: 13072'  
Start MD  
[ft]

End MD [ft]	Pos Unc Model
27	2828 ISCWSA MWD, Rev. 4 (Standard)
2828	5015 BHI AutoTrak Curve (Short)
5015	13047 BHI AutoTrak Curve (Short)
13047	13072 Blind Drilling (std)

02/15/2019

Longitude

80°55'22.225"W

80°55'22.002"W

84°16'35.572"W

North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Closure Dis [ft]	Closure Dir [°]	DLS [°/100ft]	Build Rate [°/100ft]	Turn Rate [°/100ft]
0	0	1567223	380229.6	39°32'06.7	80°55'22.2	0	0	0	0	0
0	0	1567223	380229.6	39°32'06.7	80°55'22.2	0	0	0	0	0
-0.09	0.58	1567224	380229.5	39°32'06.7	80°55'22.2	0.58	99.04	0.09	0.09	35.63
-0.2	1.5	1567225	380229.4	39°32'06.7	80°55'22.2	1.51	97.643	0.15	0.14	-2.28
-0.48	1.9	1567225	380229.1	39°32'06.7	80°55'22.2	1.96	104.251	0.75	0.16	85.31
-0.86	2	1567225	380228.7	39°32'06.7	80°55'22.1	2.18	113.333	1.8	1.4	87.93
-1.54	1.99	1567225	380228.1	39°32'06.7	80°55'22.2	2.51	127.794	1.92	1.77	34.97
-2.55	1.88	1567225	380227.1	39°32'06.7	80°55'22.2	3.17	143.658	2.26	2.26	2.42
-3.92	1.71	1567225	380225.7	39°32'06.7	80°55'22.2	4.28	156.438	2.1	2.1	2.61
-5.62	1.47	1567225	380224	39°32'06.6	80°55'22.2	5.81	165.326	2.61	2.6	4.8
-7.78	1.13	1567224	380221.8	39°32'06.6	80°55'22.2	7.86	171.761	2.55	2.55	2
-10.28	0.72	1567224	380219.3	39°32'06.6	80°55'22.2	10.31	176	1.55	1.55	-0.32
-15.74	-0.19	1567223	380213.9	39°32'06.5	80°55'22.2	15.74	180.707	0.91	0.9	0.9
-23.06	-1.32	1567222	380206.5	39°32'06.5	80°55'22.2	23.1	183.283	0.57	0.51	-2.57
-31.05	-2.73	1567221	380198.6	39°32'06.4	80°55'22.2	31.17	185.033	1.27	-1.16	5.56
-37.69	-4.36	1567219	380191.9	39°32'06.3	80°55'22.2	37.94	186.594	0.82	-0.79	2.66
-44.02	-5.99	1567217	380185.6	39°32'06.3	80°55'22.2	44.42	187.746	0.24	0.23	-1.19
-50.29	-7.52	1567216	380179.3	39°32'06.2	80°55'22.3	50.85	188.5	0.24	-0.24	-0.55
-60.42	-9.21	1567214	380169.2	39°32'06.1	80°55'22.3	61.12	188.67	0.7	0.54	-5.57
-67.01	-10.11	1567213	380162.6	39°32'06.0	80°55'22.3	67.76	188.583	1.14	-1.09	4.21
-71.54	-11.21	1567212	380158.1	39°32'06.0	80°55'22.3	72.41	188.902	1.99	-1.9	11.74

-72.75	-12.47	1567211	380156.9	39°32'06.0	80°55'22.3'	73.81	189.726	3.04	-1.4	116.05
-71.29	-13.35	1567210	380158.3	39°32'06.0	80°55'22.3'	72.53	190.603	1.16	0.43	53.16
-69.89	-13.26	1567210	380159.7	39°32'06.0	80°55'22.3'	71.13	190.746	1.28	-0.9	58.13
-69.36	-12.54	1567211	380160.3	39°32'06.0	80°55'22.3'	70.48	190.248	0.36	-0.03	34.72
-69.22	-12.17	1567211	380160.4	39°32'06.0	80°55'22.3'	70.28	189.97	0.76	-0.6	201.46
-69.55	-12.67	1567211	380160.1	39°32'06.0	80°55'22.3'	70.69	190.325	0.75	0.75	-9.94
-70.34	-13.9	1567209	380159.3	39°32'06.0	80°55'22.3'	71.7	191.174	0.52	0.52	1.81
-71.38	-15.42	1567208	380158.2	39°32'06.0	80°55'22.4'	73.02	192.191	0.12	0.08	-4.3
-72.53	-17.09	1567206	380157.1	39°32'06.0	80°55'22.4'	74.52	193.256	0.21	0.2	2.92
-73.84	-18.92	1567204	380155.8	39°32'06.0	80°55'22.4'	76.23	194.37	0.19	0.15	-4.68
-75.35	-20.83	1567202	380154.3	39°32'06.0	80°55'22.4'	78.18	195.45	0.09	0.08	-1.83
-76.45	-22	1567201	380153.2	39°32'05.9	80°55'22.4'	79.55	196.054	1.31	-1.28	-18.82
-77.04	-22.26	1567201	380152.6	39°32'05.9	80°55'22.4'	80.19	196.113	0.29	-0.18	-30.92
-77.66	-22.31	1567201	380152	39°32'05.9	80°55'22.4'	80.8	196.03	0.14	0.14	-3.93
-78.27	-22.35	1567201	380151.3	39°32'05.9	80°55'22.4'	81.4	195.941	0.1	-0.1	0.27
-78.65	-22.38	1567201	380151	39°32'05.9	80°55'22.4'	81.77	195.885	0.34	-0.34	154.33
-78.58	-22.37	1567201	380151	39°32'05.9	80°55'22.4'	81.7	195.888	0.1	0.1	13.2
-78.54	-22.43	1567201	380151.1	39°32'05.9	80°55'22.4'	81.68	195.937	0.18	0.01	-131.59
-78.53	-22.39	1567201	380151.1	39°32'05.9	80°55'22.4'	81.65	195.913	0.27	0.05	-190.3
-78.43	-22.33	1567201	380151.2	39°32'05.9	80°55'22.4'	81.55	195.895	0.23	-0.05	-125.05
-78.27	-22.46	1567201	380151.3	39°32'05.9	80°55'22.4'	81.42	196.009	0.07	0.05	18.01
-78.56	-25.05	1567198	380151	39°32'05.9	80°55'22.5'	82.46	197.688	3.27	3.17	-72.59
-78.51	-37.79	1567186	380151.1	39°32'05.9	80°55'22.6'	87.13	205.701	9.78	9.69	12.21
-80.2	-57.97	1567165	380149.4	39°32'05.9	80°55'22.9'	98.96	215.861	3.38	0.44	-15.46
-85.15	-78.08	1567145	380144.5	39°32'05.8	80°55'23.2'	115.53	222.522	0.88	-0.03	-4
-90.32	-99.72	1567124	380139.3	39°32'05.8	80°55'23.4'	134.55	227.831	2.34	2.09	4.48
-94.86	-123.82	1567099	380134.8	39°32'05.7	80°55'23.7'	155.98	232.543	1.04	0.94	1.71
-98.39	-148.82	1567074	380131.2	39°32'05.7	80°55'24.1'	178.4	236.53	1.06	0.06	3.93
-100.61	-175.23	1567048	380129	39°32'05.7	80°55'24.4'	202.06	240.136	1.46	1.23	2.79
-102.42	-202.66	1567021	380127.2	39°32'05.7	80°55'24.7'	227.07	243.19	0.48	0.46	-0.47
-104.6	-230.31	1566993	380125	39°32'05.6	80°55'25.1'	252.95	245.574	0.36	-0.13	-1.13
-107.04	-257.77	1566966	380122.6	39°32'05.6	80°55'25.4'	279.11	247.449	0.48	-0.48	-0.09
-109.77	-285.01	1566938	380119.8	39°32'05.6	80°55'25.8'	305.42	248.936	0.72	0.63	-1.24
-113.36	-311.39	1566912	380116.3	39°32'05.5	80°55'26.1'	331.38	249.997	1.87	-1.64	-3.2



-117.38	-337.94	1566885	380112.2	39°32'05.5	80°55'26.5	357.75	250.847	1.59	1.54	1.41
-120.63	-368.26	1566855	380109	39°32'05.4	80°55'26.9	387.51	251.863	2.68	2.43	3.59
-123.05	-398.24	1566825	380106.6	39°32'05.4	80°55'27.2	416.82	252.83	0.93	-0.92	-0.29
-124.28	-429.1	1566794	380105.3	39°32'05.4	80°55'27.6	446.73	253.848	2.04	1.14	5.15
-123.89	-449.48	1566774	380105.7	39°32'05.4	80°55'27.9	466.24	254.59	2.03	-1.71	3.32
-123.49	-459.8	1566764	380106.1	39°32'05.4	80°55'28.0	476.1	254.966	2.58	-2.58	0.42
-118.21	-485.67	1566738	380111.4	39°32'05.5	80°55'28.3	499.85	256.32	6.6	-2.69	21.32
-109.6	-510.39	1566713	380120	39°32'05.5	80°55'28.7	522.03	257.88	2.61	1.93	-6.32
-106.25	-537.48	1566686	380123.4	39°32'05.6	80°55'29.0	547.88	258.817	5.81	-0.01	-19.85
-111.71	-565.68	1566658	380117.9	39°32'05.5	80°55'29.4	576.61	258.829	5.73	1.89	-17.61
-124.69	-594.39	1566629	380104.9	39°32'05.4	80°55'29.7	607.33	258.152	3.93	1.22	-11.24
-143.99	-619.81	1566604	380085.6	39°32'05.2	80°55'30.1	636.32	256.922	5.59	-0.02	-16.37
-169.77	-639	1566584	380059.8	39°32'04.9	80°55'30.3	661.17	255.122	6.14	0.4	-17.79
-204.39	-654.57	1566569	380025.2	39°32'04.6	80°55'30.5	685.74	252.659	7.45	6.78	-7.77
-249.71	-670.06	1566553	379979.9	39°32'04.1	80°55'30.7	715.08	249.561	8.44	8.18	-4.07
-304.77	-684.41	1566539	379924.8	39°32'03.6	80°55'30.8	749.21	245.996	6.68	5.91	-5.13
-367.6	-691.47	1566532	379862	39°32'03.0	80°55'30.9	783.11	242.004	9.59	5.06	-12.09
-434.96	-684.6	1566539	379794.7	39°32'02.3	80°55'30.8	811.09	237.571	10.7	3.2	-14.14
-507.6	-666.52	1566557	379722	39°32'01.6	80°55'30.6	837.8	232.708	9.3	8.92	-3.35
-584.85	-645.26	1566578	379644.8	39°32'00.8	80°55'30.3	870.86	227.811	4.62	4.62	0.19
-666.02	-621.03	1566602	379563.6	39°32'00.0	80°55'30.0	910.64	222.998	8.35	7.99	-2.71
-752.01	-595.02	1566628	379477.6	39°31'59.2	80°55'29.6	958.95	218.353	10.75	10.55	2.12
-841.82	-569.72	1566654	379387.8	39°31'58.3	80°55'29.3	1016.49	214.089	12.25	12.24	0.27
-931.49	-541.6	1566682	379298.2	39°31'57.4	80°55'28.9	1077.5	210.175	3.84	-0.13	-3.84
-1019.43	-508.42	1566715	379210.2	39°31'56.5	80°55'28.5	1139.18	206.507	3.09	0.13	-3.09
-1106.72	-470.95	1566752	379123	39°31'55.7	80°55'28.0	1202.76	203.052	2.34	0.19	-2.34
-1192.02	-431.45	1566792	379037.7	39°31'54.9	80°55'27.4	1267.7	199.898	1.1	-0.16	-1.09
-1276.69	-390.64	1566833	378953	39°31'54.0	80°55'26.9	1335.12	197.013	0.79	-0.06	-0.79
-1361.58	-350.28	1566873	378868.1	39°31'53.2	80°55'26.4	1405.91	194.427	1.44	-0.2	1.43
-1447.14	-311.36	1566912	378782.6	39°31'52.3	80°55'25.9	1480.25	192.142	0.65	0.17	0.63
-1533.93	-275.31	1566948	378695.8	39°31'51.5	80°55'25.4	1558.45	190.175	3.45	0.03	3.45
-1622.29	-243.25	1566980	378607.4	39°31'50.6	80°55'25.0	1640.43	188.528	2.1	0	2.1
-1711.85	-214.74	1567009	378517.9	39°31'49.7	80°55'24.6	1725.27	187.15	2.79	0.33	2.77
-1801.75	-187.27	1567036	378428	39°31'48.9	80°55'24.2	1811.45	185.934	1.34	-0.11	-1.34

-1892.18	-158.17	1567065	378337.5	39°31'48.0	80°55'23.8	1898.78	184.778	0.45	-0.03	-0.45
-1981.24	-128.11	1567095	378248.5	39°31'47.1	80°55'23.4	1985.38	183.7	1.29	-0.13	-1.29
-2070.51	-98.7	1567125	378159.2	39°31'46.2	80°55'23.0	2072.87	182.729	2.2	0.13	2.19
-2162.3	-74.32	1567149	378067.4	39°31'45.3	80°55'22.7	2163.58	181.969	4.9	0.11	4.89
-2254.44	-55.7	1567168	377975.3	39°31'44.4	80°55'22.4	2255.12	181.415	2.4	-0.17	2.39
-2345.65	-33.25	1567190	377884.1	39°31'43.5	80°55'22.1	2345.89	180.812	7.52	-0.29	-7.51
-2434.43	-2.41	1567221	377795.3	39°31'42.6	80°55'21.7	2434.43	180.057	3.82	0.16	-3.82
-2522.46	30.54	1567254	377707.3	39°31'41.8	80°55'21.3	2522.64	179.306	0.91	-0.06	0.9
-2611.01	62.07	1567285	377618.8	39°31'40.9	80°55'20.9	2611.75	178.638	1.12	0.33	1.07
-2698.93	95.3	1567319	377530.8	39°31'40.0	80°55'20.4	2700.61	177.978	3.44	-0.17	-3.44
-2785.28	132.42	1567356	377444.5	39°31'39.2	80°55'19.9	2788.43	177.278	2.02	0.3	-2
-2871.49	172.32	1567396	377358.3	39°31'38.4	80°55'19.4	2876.66	176.566	1.35	-0.06	-1.35
-2957.08	211.16	1567434	377272.7	39°31'37.5	80°55'18.9	2964.61	175.916	2.43	-0.82	2.29
-3043.84	247.32	1567471	377186	39°31'36.7	80°55'18.4	3053.87	175.355	1.53	0.36	1.49
-3131.94	282.85	1567506	377097.9	39°31'35.8	80°55'17.9	3144.68	174.84	0.21	-0.2	-0.06
-3218.79	318.77	1567542	377011	39°31'34.9	80°55'17.5	3234.54	174.344	1.03	0.13	-1.02
-3305.52	355.01	1567578	376924.3	39°31'34.1	80°55'17.0	3324.53	173.87	0.58	0.04	0.57
-3394.12	389.26	1567613	376835.7	39°31'33.2	80°55'16.5	3416.37	173.458	2.69	0	2.69
-3483.04	419.73	1567643	376746.8	39°31'32.3	80°55'16.1	3508.23	173.129	1.99	0.22	1.98
-3571.05	452.64	1567676	376658.8	39°31'31.5	80°55'15.7	3599.62	172.776	5.34	-0.06	-5.34
-3657.05	490.58	1567714	376572.8	39°31'30.6	80°55'15.2	3689.81	172.36	1.73	0.36	-1.69
-3743.75	529.41	1567753	376486.1	39°31'29.8	80°55'14.7	3781	171.951	1.03	-0.26	1
-3831.34	563.44	1567787	376398.5	39°31'28.9	80°55'14.2	3872.55	171.634	5.14	0.17	5.14
-3921.89	592.15	1567815	376307.9	39°31'28.0	80°55'13.8	3966.34	171.414	2.8	1.06	2.59
-4012.79	616.05	1567839	376217.1	39°31'27.1	80°55'13.5	4059.8	171.272	3.58	-0.88	3.47
-4104.09	638.4	1567862	376125.8	39°31'26.2	80°55'13.2	4153.44	171.158	1.4	-0.06	-1.39
-4195.29	661.18	1567884	376034.6	39°31'25.3	80°55'12.9	4247.07	171.044	0.87	-0.3	0.82
-4286.55	683.68	1567907	375943.3	39°31'24.4	80°55'12.6	4340.73	170.938	0.45	0.06	-0.45
-4378.11	708.99	1567932	375851.8	39°31'23.5	80°55'12.2	4435.14	170.801	2.94	0.14	-2.94
-4467.16	739.04	1567962	375762.7	39°31'22.7	80°55'11.8	4527.88	170.606	3.82	0.03	-3.82
-4553.87	775.26	1567999	375676	39°31'21.8	80°55'11.4	4619.39	170.338	4.74	0	-4.74
-4639.01	815.11	1568038	375590.9	39°31'21.0	80°55'10.8	4710.07	170.034	0.4	0.06	-0.39
-4724.82	855.86	1568079	375505.1	39°31'20.1	80°55'10.3	4801.71	169.733	0.28	0.06	-0.27
-4809.56	896.55	1568120	375420.3	39°31'19.3	80°55'09.8	4892.41	169.441	0.35	-0.23	-0.26

-4894.88	935.99	1568159	375335	39°31'18.5	80°55'09.2	4983.57	169.175	2.06	0.2	2.05
-4981.2	973.21	1568196	375248.7	39°31'17.6	80°55'08.8	5075.38	168.945	1.1	-0.16	1.09
-5069.98	1006.95	1568230	375159.9	39°31'16.8	80°55'08.3	5169.01	168.767	4.24	-0.11	4.24
-5159.09	1036.89	1568260	375070.8	39°31'15.9	80°55'07.9	5262.25	168.636	0.46	0	0.46
-5247.02	1070.04	1568293	374982.9	39°31'15.0	80°55'07.5	5355.01	168.474	4.88	0.11	-4.88
-5333.55	1106.77	1568330	374896.4	39°31'14.2	80°55'07.0	5447.17	168.277	0.11	0.03	-0.11
-5420.38	1142.75	1568366	374809.5	39°31'13.3	80°55'06.5	5539.53	168.095	1.25	-0.46	1.16
-5508.07	1176.6	1568400	374721.9	39°31'12.5	80°55'06.1	5632.33	167.942	1.81	0	1.81
-5598.91	1204.2	1568427	374631	39°31'11.6	80°55'05.7	5726.94	167.862	7.06	-0.07	7.06
-5690.4	1225.72	1568449	374539.5	39°31'10.7	80°55'05.4	5820.92	167.844	0.71	0.23	0.67
-5782.52	1248.9	1568472	374447.4	39°31'09.8	80°55'05.1	5915.85	167.813	2.53	-0.03	-2.53
-5872.81	1275.03	1568498	374357.1	39°31'08.9	80°55'04.7	6009.63	167.751	1.76	0.13	-1.76
-5962.25	1303.95	1568527	374267.7	39°31'08.0	80°55'04.3	6103.17	167.664	2.01	0.06	-2.01
-6052.02	1335.02	1568558	374177.9	39°31'07.1	80°55'03.9	6197.52	167.56	0.51	-0.16	-0.48
-6140.46	1366.87	1568590	374089.5	39°31'06.2	80°55'03.5	6290.75	167.451	1.06	0.22	-1.03
-6228.47	1399.88	1568623	374001.5	39°31'05.4	80°55'03.1	6383.85	167.333	0.58	-0.1	-0.57
-6316.29	1433.4	1568657	373913.7	39°31'04.5	80°55'02.6	6476.89	167.214	0.2	0.14	-0.14
-6404.57	1468.48	1568692	373825.4	39°31'03.6	80°55'02.1	6570.77	167.086	1.51	-0.2	-1.49
-6491.47	1504.31	1568728	373738.5	39°31'02.8	80°55'01.7	6663.49	166.953	0.09	-0.06	-0.06
-6578.25	1540.45	1568764	373651.8	39°31'01.9	80°55'01.2	6756.2	166.82	0.35	0.03	-0.35
-6665.18	1576.2	1568799	373564.8	39°31'01.1	80°55'00.7	6849.02	166.695	0.9	0.16	0.88
-6752.81	1610.21	1568833	373477.2	39°31'00.2	80°55'00.3	6942.13	166.588	1.56	-0.26	1.54
-6774.38	1618.19	1568841	373455.6	39°31'00.0	80°55'00.2	6964.96	166.566	1.69	0.52	1.61
-6797.85	1626.79	1568850	373432.2	39°30'59.8	80°55'00.0	6989.79	166.542	0	0	0

Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
0	0	-0.01	0.04
-0.01	0.04	-0.16	1.08
0	0	-0.16	1.08
-0.16	1.08	-78.57	-22.38
0	0	-78.54	-22.37
-78.57	-22.38	-124.28	-429.1

02/15/2019

Latitude [US ft]	Longitude	Shape	Comment
-124.28	-429.1	-6797.85	1626.79
0	0	-6797.85	1626.79
39°31'59.734"N	80°55'29.8	point	
39°31'58.554"N	80°55'29.2	point	
39°30'59.766"N	80°55'00.2	point	

# WELLS MECKLEY 1402 (AS-DRILLED)

**LEGEND**

- TOPD MAP POINT
- EXISTING WELLS
- PRE-29 WELLS
- PARCEL LINES
- PROPOSED WELL
- WATER WELL
- ROAD
- STREAM

02/15/2019

1"=1000'

WV NORTH

**SURFACE LOC.**

UTM 17-NAD 83 METERS

N: 4376174.74'  
E: 506630.77'

NAD 83

LAT: 39.53520779  
LON: 80.92284032

**LANDING POINT LOC.**

UTM 17-NAD 83 METERS

N: 4375942.61'  
E: 506453.32'

NAD 83

LAT: 39.53311753  
LON: 80.92490749

**BOTTOM HOLE LOC.**

UTM 17-NAD 83 METERS

N: 4374112.06'  
E: 507160.94'

NAD 83

LAT: 39.51661744  
LON: 80.91669300

TAXMAP/PARCEL	MINERAL OWNER	ACRES IN UNIT
9/20	BRIC APPALACHIAN MINERALS LLC	9.97 ACRES
9/30	WACO OIL & GAS, INC	75.28 ACRES
9/32	BYRON T. & JANET L. CLINE	8.9 ACRES
9/32	RUTH B. THOMAS ESTATE ET. AL.	3.34 ACRES
9/32	RUTH B. THOMAS ESTATE ET. AL.	3.34 ACRES
9/32	JAMES W. & HELEN M. THOMAS ET. AL.	2.23 ACRES
9/33	DONALD E. & NANCY L. REED	1.05 ACRES
9/34	MILDRED A. REED	0.711 ACRES
9/35	RICHARD & JUDITH BOVEN	2.0 ACRES
9/36	BETTY & KENNETH MOREHEAD	2 ACRES
9/36.1	BETTY & KENNETH MOREHEAD	28.89 ACRES
9/36.2	BETTY & KENNETH MOREHEAD	10.41 ACRES
9/36.3	BETTY & KENNETH MOREHEAD	0.26 ACRES
9/36.4	BETTY & KENNETH MOREHEAD	1.89 ACRES
9/37	CHARLES RAY JONES	0.525 ACRES
9/37	RONALD EUGENE BOOR	0.35 ACRES
9/38	CHARLES RAY JONES	0.35 ACRES
9/38	RONALD EUGENE BOOR	0.35 ACRES
9/62	CHARLES RAY JONES	0.16 ACRES
9/62	RONALD EUGENE BOOR	0.16 ACRES
9/62.1	CHARLES RAY JONES	0.615 ACRES
9/62.1	RONALD EUGENE BOOR	0.615 ACRES
9/62.2	CHARLES RAY JONES	0.066 ACRES
9/62.2	RONALD EUGENE BOOR	0.066 ACRES
9/63	ROBERT L. & PATRICIA REED	1.089 ACRES
13/5	TERESA STARCHER BURGET ET. AL.	5.25 ACRES
13/5	DENVER R. STARCHER, II	5.25 ACRES
13/5	DAVID STARCHER	5.25 ACRES
13/5	VELMA LUELLA WELLS	15.75 ACRES
13/6	VELMA LUELLA WELLS	225.28 ACRES
13/6.1	RAYMOND & REBECCA BARTH	1.25 ACRES
13/7	JANICE FREELAND LANCASTER ET. AL.	18.75 ACRES
13/7	LARRY HENTHORN	37.5 ACRES
13/7	JANICE FREELAND LANCASTER	18.75 ACRES
13/9	TERESA STARCHER BURGET ET. AL.	1.06 ACRES
13/9	DENVER R. STARCHER, II	1.06 ACRES
13/9	DAVID STARCHER	1.06 ACRES
13/9.2	DAVID & SHIRLEY JOHNSON	4.03 ACRES
13/9.4	DENVER R. & DEBORAH L. STARCHER	2.93 ACRES
13/9.6	TERESA STARCHER BURGET ET. AL.	0.95 ACRES
13/9.6	DENVER R. STARCHER, II	0.95 ACRES
13/9.6	DAVID STARCHER	0.95 ACRES
13/9.6	GERALD & REBECCA MECKLEY	2.85 ACRES
13/14	WILLIAM H. MEREDITH	0.261 ACRES
13/14	KAY MEREDITH MULNAR	0.523 ACRES
13/14	JAMES ROBERT MEREDITH	0.261 ACRES
13/14	MARY R. LEE	0.523 ACRES
13/14	REITA JANE HALL	0.523 ACRES
13/15	WILLIAM H. MEREDITH	23.7 ACRES
13/15	JAMES ROBERT MEREDITH	23.7 ACRES
13/15	MARY E. & C. C. FETTY HEIRS	4.0 ACRES
13/16	WILLIAM H. MEREDITH	0.5 ACRES
13/18	MARY JANE NEFF	0.053 ACRES
13/18	NETTIE NITA GULLEY	0.053 ACRES
13/18	WAYNE KIDBERGER, JR.	0.053 ACRES
13/19	RONALD E. BRIGHTWELL	49.47 ACRES
13/19.1	CHARLES W. BRIGHTWELL	5.0 ACRES
14/3	MILDRED A. REED	46.4 ACRES



**Architects • Engineers • Surveyors**  
 11283 EMERSON AVENUE, PARKERSBURG, WV 26104  
 (304) 464-5305 PICKERING USA.COM

- SURVEY NOTES:**

  1. THIS IS A VOLUNTARILY POOLED UNIT
  2. THERE ARE NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' OF PROPOSED WELL.
  3. THERE ARE NO EXISTING BUILDINGS WITHIN 625' OF PROPOSED WELL.
  4. PROPOSED WELL IS GREATER THAN 100' FROM PERENNIAL STREAM, WETLAND, POND, RESERVOIR, OR LAKE.
  5. THERE ARE NO NATIVE TROUT STREAMS WITHIN 300' OF PROPOSED WELL.
  6. PROPOSED WELL IS GREATER THAN 1000' FROM SURFACE/GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY
  7. IT IS NOT THE INTENTION OF THIS PLAT TO REPRESENT SURVEYED LOCATIONS OF THE SURFACE OR MINERAL PARCELS DEPICTED HEREIN. THE LOCATION OF THE BOUNDARY LINES, AS SHOWN, ARE BASED ON RECORD DEED DESCRIPTIONS, FIELD EVIDENCE FOUND, AND/OR TAX MAP POSITION, UNLESS OTHERWISE NOTED.

API WELL#: 47-095-02152  
 STATE COUNTY PERMIT

OPERATOR'S WELL #: **WELLS MECKLEY 1402**

WELL OPERATOR TRIAD HUNTER, LLC (SUBSIDIARY OF BLUE RIDGE MOUNTAIN RESOURCES) ADDRESS 125 PUTNAM ST. MARRIETTA OH 45750  
 DESIGNATED AGENT KIMBERLY ARNOLD ADDRESS PO BOX 154 WAVERLY WV 26184 DATE: 3/14/2018

