

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

API 47 - 061 - 01745 County Monongalia District Clay
Quad Blacksville Pad Name MEPCO Field/Pool Name _____
Farm name MEPCO, LLC Well Number MEPCO 6H
Operator (as registered with the OOG) Northeast Natural Energy LLC
Address 707 Virginia Street E., Suite 1200 City Charleston State WV Zip 25301

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4390675.4 Easting 572731.2
Landing Point of Curve Northing 4390667.1 Easting 572884.2
Bottom Hole Northing 4388672.6 Easting 574184.2

Elevation (ft) 1420' 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 Based Mud - Horizontal Section: BIO-BASE 365, CALCIUM CHLORIDE POWDER, G-SEAL PLUS, HRP, LIME, M-I WATE (BARITE),
M-I-X II MEDIUM, MEGADRIL P SYSTEM, MEGADRIL P SYSTEM RENTAL, MEGAMUL, SAFE-CARB 250, VERSATHIN HF, VERSAWET, VG-PLUS, VINSEAL MEDIUM, WALNUT NUT PLUG MEDIUM

Date permit issued 11/01/2017 Date drilling commenced 01/01/2018 Date drilling ceased 05/9/2018
Date completion activities began 09/27/2018 Date completion activities ceased 10/08/2018
Verbal plugging (Y/N) N Date permission granted N Granted by Office of Oil and Gas

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Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 906' Open mine(s) (Y/N) depths _____
Salt water depth(s) ft 2027', 2250', 2460' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 848', 930' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed

Reviewed by:
MSJK 10/28/2019

API 47-061 - 01745 Farm name MEPCO, LLC Well number MEPCO 6H

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	30"	24'	58'	N	NA	N/A	Grouted In
Surface	17-1/2"	13-3/8"	1,407'	N	54.6	N/A	Y, 25 bbl
Coal							
Intermediate 1	12-1/4"	9-5/8"	2,438'	N	40	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	16,398'	N	20	N/A	Y 62 bbl
Tubing	N/A	2-7/8"		N	4.7	N/A	
Packer type and depth set							

Comment Details _____

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	4,500 PSI Grout	36	-	3 Yds	-	CTS	-
Surface	Class A + 2%	1133	15.6	1.20	1360	CTS	8
Coal							
Intermediate 1	Class A + 1%	800	15.6	1.18	944	CTS	8
Intermediate 2							
Intermediate 3							
Production	50:50 Class A + Additives	3510	14.5	1.17	4,113	CTS	48
Tubing							

Drillers TD (ft) 16,401' Loggers TD (ft) 16,371'

Deepest formation penetrated Marcellus Plug back to (ft) NA

Plug back procedure NA

Kick off depth (ft) NA

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: Bow spring centralizers every 3rd joint or approximately 120'

Intermediate: Bow spring centralizers every 3rd joint or approximately 120'

Production: Rigid body centralizers placed at a minimum of every other joint (~80') from TD to surface

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47-061 - 01745 Farm name MEPCO, LLC Well number MEPCO 6H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
			Please	See	Attachment

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)
						Please	See	Attachment

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Please insert additional pages as applicable.

API 47- 061 - 01745 Farm name MEPCO, LLC Well number MEPCO 6H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
Marcellus	7890'	TVD	16,401' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3343 psi Bottom Hole 4024 psi DURATION OF TEST 48 hrs

OPEN FLOW Gas 3646 mcfpd Oil bpd NGL bpd Water bpd GAS MEASURED BY 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 ₂ S, ETC)
	0		0		Please See Attachment

Please insert additional pages as applicable.

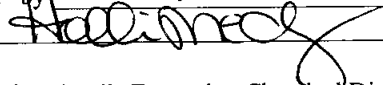
Drilling Contractor Highlands Drilling
Address 900 Virginia Street E. City Charleston State WV Zip 25301

Logging Company Baker Hughes
Address 837 Philippi Pike City Clarksburg State WV Zip 26301

Cementing Company Universal Pressure Pumping
Address 2198 University Dr. City Lemont Furnace State PA Zip 15456 RECEIVED
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Stimulating Company Producers Services
Address 109 Graham St. City Zanesville State OH Zip 43701 SEP 9 2019

Please insert additional pages as applicable.

Completed by Hollie Medley Telephone 304-212-0422
Signature  Title Regulatory Manager Date

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

Lithology/Formation	Top Depth in FT TVD	Bottom Depth in FT TVD	Describe rock type and record quantity and type of fluid (freshwater, brine, oil, gas, H2S, etc)
Shale/Sand	0	384	Shale/Sand
Shale	384	400	Shale
sand/shale	400	466	sand/shale
shale	466	470	shale
Sandstone/shale/coal	470	570	Sandstone/shale/coal
sand/shale	570	848	sand/shale
coal	848	853	coal
sand/shale	853	930	sand/shale
coal	930	933	sandstone/shale/coal - water @ 906'
sand/shale	933	1214	sand/shale
shale/red rock	1214	1651	shale/red rock
sand/shale	1651	2010	sand/shale
red rock	2010	2110	red rock
Big Lime	2110	2248	Big Lime
Big Injun	2248	2370	Big Injun
siltstone	2370	2430	siltstone
Berea	2430	2450	Berea
siltstone	2450	2610	siltstone
Gantz	2610	2630	Gantz
Upper Devonian undifferentiated	2630	2920	Upper Devonian undifferentiated
red rock/siltstone	2920	3080	red rock/siltstone
Devonian silt/sand/shale	3080	7290	Devonian silt/sand/shale
Middlesex	7290	7530	Middlesex
Burkett	7530	7710	Burkett
Geneseo	7710	7770	Geneseo
Tully	7710	7830	Tully
Hamilton	7830	7890	Hamilton
Marcellus	7890	8082	Marcellus
Onondaga	8082	8114	Onondaga
Huntersville chert	8114		Huntersville chert

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MEPCO 6H PERFORATION RECORD				
Stage Number	Report Date	Cluster 5 Bottom TD	Cluster 1 Top TD	Total Shots
1	9/26/2018	16,251	-	40
2	9/27/2018	16,047	16,206	40
3	9/27/2018	15,847	16,005	40
4	9/27/2018	15,646	15,805	40
5	9/27/2018	15,446	15,604	40
6	9/28/2018	15,245	15,404	40
7	9/28/2018	15,045	15,203	40
8	9/26/2018	14,844	15,003	40
9	9/29/2018	14,644	14,802	40
10	9/29/2018	14,443	14,602	40
11	9/30/2018	14,243	14,401	40
12	9/30/2018	14,042	14,201	40
13	9/30/2018	13,842	14,000	40
14	9/30/2018	13,641	13,800	40
15	10/1/2018	13,441	13,599	40
16	10/1/2018	13,240	13,399	40
17	10/1/2018	13,040	13,198	40
18	10/1/2018	12,839	12,998	40
19	10/2/2018	12,639	12,797	40
20	10/2/2018	12,438	12,597	40
21	10/2/2018	12,238	12,396	40
22	10/3/2018	12,037	12,195	40
23	10/3/2018	11,837	11,995	40
24	10/3/2018	11,636	11,794	40
25	10/3/2018	11,436	11,594	40
26	10/4/2018	11,235	11,393	40
27	10/4/2018	11,035	11,193	40
28	10/4/2018	10,834	10,992	40
29	10/4/2018	10,634	10,792	40
30	10/5/2018	10,433	10,591	40
31	10/5/2018	10,233	10,391	40
32	10/5/2018	10,032	10,190	40
33	10/5/2018	9,832	9,990	40
34	10/6/2018	9,631	9,789	40
35	10/6/2018	9,431	9,589	40
36	10/6/2018	9,230	9,388	40
37	10/6/2018	9,030	9,188	40
38	10/7/2018	8,829	8,987	40
39	10/7/2018	8,629	8,787	40
40	10/7/2018	8,428	8,586	40

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MEPCO 6H STIMULATION INFORMATION

Stage Number	Report Date	Avg Treating Rate (BPM)	Avg Treating Pressure (psi)	Breakdown Pressure (psi)	ISIP (psi)	Total Proppant Amount (lbs)	Flush Volume (bbbls)	Total Clean Fluid (Bbbls)	Pad Volume (bbbls)
1	9/26/2018	81	8,089	7,200	5,436	300,170	364	7,093	378
2	9/27/2018	79	8,390	7,127	5,334	350,020	359	7,573	428
3	9/27/2018	80	8,717	6,809	5,471	349,870	355	7,722	575
4	9/27/2018	80	8,935	7,488	5,336	353,230	353	7,727	475
5	9/27/2018	79	8,820	6,928	5,243	350,400	348	7,648	502
6	9/28/2018	80	8,998	7,539	5,449	350,850	341	7,808	620
7	9/28/2018	80	9,183	7,985	5,335	351,700	334	7,652	400
8	9/26/2018	78	9,084	7,792	5,378	348,680	336	7,636	545
9	9/29/2018	80	8,853	7,409	5,527	349,770	327	7,670	421
10	9/29/2018	78	8,922	7,594	5,378	349,660	327	7,425	429
11	9/30/2018	80	8,768	7,629	5,576	349,030	323	7,572	422
12	9/30/2018	80	9,063	7,647	5,632	349,710	315	7,510	375
13	9/30/2018	75	9,069	8,095	5,271	350,260	313	7,484	429
14	9/30/2018	78	8,906	8,136	5,409	350,220	307	7,425	429
15	10/1/2018	79	8,796	7,785	5,372	349,300	301	7,888	504
16	10/1/2018	79	8,646	7,006	5,574	351,010	300	7,619	446
17	10/1/2018	81	8,925	7,934	5,222	351,120	296	7,122	429
18	10/1/2018	81	8,453	6,986	5,556	350,340	291	7,197	429
19	10/2/2018	79	8,759	7,748	5,712	351,080	283	7,402	452
20	10/2/2018	76	8,366	7,462	5,680	350,430	276	8,207	445
21	10/2/2018	81	8,719	7,322	5,411	353,520	273	7,103	301
22	10/3/2018	83	8,522	7,059	5,830	350,010	270	6,884	270
23	10/3/2018	80	8,305	7,162	5,450	350,540	264	7,747	430
24	10/3/2018	80	8,187	6,894	5,855	350,860	275	7,432	439
25	10/3/2018	80	8,317	7,548	5,962	350,720	260	6,872	235
26	10/4/2018	85	8,597	7,167	5,376	351,060	255	7,122	325
27	10/4/2018	83	8,256	6,961	5,676	351,920	248	7,447	429
28	10/4/2018	80	8,201	7,706	5,597	350,340	227	7,168	429
29	10/4/2018	81	8,377	7,469	6,104	351,480	241	7,119	217
30	10/5/2018	81	8,162	7,506	6,019	351,100	241	7,095	175
31	10/5/2018	80	8,055	7,380	5,922	350,420	236	7,413	429
32	10/5/2018	80	8,012	7,295	5,859	349,340	226	7,468	429
33	10/5/2018	80	8,074	7,651	5,453	281,860	220	5,963	158
34	10/6/2018	82	8,048	7,237	5,728	349,760	220	6,893	215
35	10/6/2018	80	8,132	7,010	5,970	350,260	216	7,317	429
36	10/6/2018	80	7,824	7,367	5,770	349,160	206	7,293	429
37	10/6/2018	83	7,828	7,074	6,297	355,300	202	7,020	141
38	10/7/2018	83	7,665	6,723	5,867	349,420	200	6,621	129
39	10/7/2018	82	7,831	7,784	5,288	350,160	417	6,943	102
40	10/7/2018	80	7,819	6,912	5,195	349,700	187	7,357	129

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API Permit #: 47-061-01745

Customer: NENE

Lease and Well Name: Mepco #8-H

A.F.E #: 100378-602



Job Type: 13 3/8"

Cement Operator: Harry Braddee

Date Cemented: 1/2/2018

Drilling Contractor: Highlands #8-H

Cement Slurry Information

No. of Sacks	Cement Blend Composition	Yield (ft ³ /sk)	Mix Water (gal/sk)	Density (lb/gal)	(bbl) Mix Water	(ft ³) Of Slurry	(bbl) Of Slurry	
1133	Class A +2%Calcium+.25#/Sk Flake	1.20	5.20	15.6	140	1360	242	
					Totals	140	1360	242

Wellbore Information

	New/Used	Diameter (in)	Weight (lb/ft)	Top (ft)	Bottom (ft)	Collapse/Burst Pressures (psi)	Requested TOC (ft)	Surface
Casing	New	13 3/8	54.5	0'	1407'		TVD (ft)	1407'
Previous Casing	New	20	94.0	0'	58'		Displacement Depth (ft)	1,362
Tubing or Drillpipe							Displacement (bbl)	210.6
Open Hole								
Open Hole								

Pumping Returns			Cement Slurry Temperature Record (°F)					Fluid Information	
Spacer or Gel Sweep Return Seen At Surface	Yes	Cement	Reading 1	Reading 2	Reading 3	Average	Mix Water Temp (°F)	54	
Cement Returns Seen at Surface	No	Blend 1	50	54	56	53	Displacement Fluid Type	Water	
Amount of Cement Returns (BBL)	25	Blend 2					Displacement Fluid Temp (°F)	50	
		Blend 3					Displacement Fluid Density (lb/gal)	8.5	

Time	Rate (bpm)	Volume (bbl)	Pressure (psi)	Event or Stage Description
1500				Arrive on Location
1545				Spot Trucks, Rig in
1714				Hold Safety Meeting
1806	5.2	240	200-70	Wash down pipe, Break off lifting cap, Install Head
1844			600	Test Opsd
1846			2800	Test Lines
1856	5.4	40	128	Pump Fresh water to establish rate
1905	5.4	25	130	Mix and pump Gel,
2020	5.5	246	137	Mix and Pump Tail Cement
2022				SDDP, Plug Leaft Head ,Displacement tank Frozen
2109	5.5 - 3	211	62 - 910	Displace plug, Plug Lands, Release Psi, Float held
2112		1		Break Head Off
2200				Wash Up, Rack Out
2300				Leave Location

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Comments: Hole Circulated @ 372 bbl of fluid Pumped
26 bbl cement return
Plug Landed Float Held

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Thank You for your Business

UWS Cement Operator Signature: Harry Braddee

Customer Representative Signature:

API Permit #: 47-061-01745

Customer: NENE

Lease and Well Name: Mepco 6-H

A.F.E #: 100378-602

Job Type: 9.625

Cement Operator: Ralph Hiles

Date Cemented: 1/5/2018

Drilling Contractor: Highlands #8



Cement Slurry Information											
No. of Sacks	Cement Blend Composition				Yield (ft³/sk)	Mix Water (gal/sk)	Density (lb/gal)	(bbl) Mix Water	(ft³) Of Slurry	(bbl) Of Slurry	
800	Class A + 1% CaC12				1.18	5.20	15.6	99	944	168	
								Totals	99	944	168

Wellbore Information									
	New/Used	Diameter (in)	Weight (lb/ft)	Top (ft)	Bottom (ft)	Collapse/Burst Pressures (psi)		Requested TOC (ft)	Surface
Casing	New	9 5/8	40.0	0	2,438			TVD (ft)	2,485
Previous Casing		13 3/8	54.5	0	1,400				
Tubing or Drillpipe								Displacement Depth (ft)	2,393
Open Hole				2,438	2,485				
Open Hole								Displacement (bbl)	181.0

Pumping Returns			Cement Slurry Temperature Record (°F)					Fluid Information	
Spacer or Gel Sweep Return Seen At Surface	No	Cement	Reading 1	Reading 2	Reading 3	Average	Mix Water Temp (°F)	48	
Cement Returns Seen at Surface	No	Blend 1	55	55	55	55	Displacement Fluid Type	Water	
Amount of Cement Returns (BBL)	0	Blend 2					Displacement Fluid Temp (°F)	48	
		Blend 3					Displacement Fluid Density (lb/gal)	8.4	

Time	Rate (bpm)	Volume (bbl)	Pressure (psi)	Event or Stage Description
11:00				Arrive on location
11:01				Wait on rig to run casing
20:00				Spot trucks, Rig up
21:20				Hold Safety Meeting
21:38	3.0	3	60	Wet lines
21:46	0.1	0	2000	Pressure test lines
21:50	5.0	200	120	Pump Recycled water to clear shoe by 10 barrel
22:30	5.0	10	115	Switch to fresh water
22:35	5.0	25	120	Mix & Pump gel
22:40	5.0	10	120	Pump Fresh Water
22:42	5.0	800 sacks/ 168 bbl	200	Mix and Pump Cement at 15.6
23:12				Shut Down, Drop Plug
23:16	5.5	128	115 TO 1800	Displace Plug with Recycled water
23:45	3.5	0	1800	Well pressured up to 1800, Shut down, locked or froze up
23:50			1800 to 0	Release Pressure
23:58				Floats Holds, Leave Manifold open
0:05				wash up in half round
0:30				Rack Out
2:00				Leave Location

Comments:

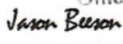
PH - 7/Hardness 120
Circulation at 240
Leaving top of cement at 585 feet / at 220 feet with excess

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UWS Cement Operator Signature:

Ralph Hiles

Customer Representative Signature:

Customer: NORTHEAST NATURAL ENERGY LLC		Date: 5/8/2019		Serv. Supervisor: Jason Beeson							
Cust. Rep.:		Ticket #: JWV1805-0007		Serv. Center: Jane Lew, WV							
Lease: Mepco 6H		API Well #:		County: Monongalia State: West Virginia							
Well Type:		Rig: Patterson 334		Type of Job: Production Casing							
Materials Furnished by C&J ENERGY SERVICES											
Plugs		Casing Hardware		Physical Slurry Properties							
				Sacks of Cement	Fluid Dens (lb/gal)	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbbls)	Mix Water (bbbls)		
Spacer 1:	CJ810 PureScrub Spacer + 1 gal/bbl CPC35				-	13.5		100			
Lead											
Tail:	50:50 CJ010:CJ910 + 3% CJ111 (BWOW) + 0.25% CJ210F + 0.2% CJ500U + 0.2% CJX157011				3510	14.5	1.17	4.95	732	414	
Displacement Chemicals:											
OPEN HOLE DATA				TUBULAR DATA							
SIZE (in)	EXCESS (%)	DEPTH (ft)	TYPE (CSG/TBG/DOP)	OD (in)	WEIGHT (lbs/ft)	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
8 3/4		6616	Casing	5 1/2	20		16398		4.79		
8 1/2		16398									
PREVIOUS CASING DATA				PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS			
SIZE (in)	WEIGHT (lbs/ft)	ID (in)	DEPTH (ft)	TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP
9 5/8	40	8.84	2438					16398	16318		
WELL FLUID		DISPLACEMENT FLUID (STG 1)			DISPLACEMENT FLUID (STG 2)			WATER ON LOC (bbl)	DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)
TYPE	DENSITY	VOLUME	TYPE	DENSITY	VOLUME	TYPE	DENSITY				
		362 bbl	fresh	8.3 ppg				1500	2594	6818	6200
Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details				
4:00 AM						0	arrived on location spot trucks rig up				
9:30 AM						0	safety meeting				
9:45 AM						0	launch bottom plug psi test @ 6200				
9:55 AM						0	preload top plug				
9:59 AM	5	1072			100	100	spacer slurry @ 13.5 ppg				
10:15 AM	7.4	1452			731.5	831.5	tail cement @ 14.5 ppg				
10:47 AM	7.5	1430				831.5	tail cement @ 14.5 ppg				
11:22 AM	7.5	1954				831.5	tail cement @ 14.5 ppg				
11:44 AM	7.5	2696				831.5	tail cement @ 14.5 ppg				
12:00 PM						831.5	shut down wash lines				
12:10 PM	7	2800			362	1193.5	drop top plug				
12:31 PM	7	4800				1193.5	displacement flow line restriction				
12:41 PM	6.5	5200				1193.5	spacer to surface @ 200 bbl				
12:44 PM	5.5	4700				1193.5	slow rate stack overflowing				
12:46 PM	4	4400				1193.5	slow rate stack overflowing				
12:53 PM	3	4250				1193.5	slow rate stack overflowing				
1:07 PM	3	4000				1193.5	cement to surface @ 300 bbl				
1:29 PM		4547				1193.5	plug down				
1:34 PM						1193.5	float held 5.5 bbl returned				
1:38 PM		4470			5.5	1199	rebump plug				
1:43 PM						1199	float held 5.5 bbl returned				
						1199					
						1199					
						1199					
Left Yard	5/8/18 1:00 AM			Left Loc.	5/8/18 3:00 PM			Start Pump	5/8/18 10:00 AM		
Arrived Loc.	5/8/18 4:00 AM			Returned Yd				End Pump	5/8/18 1:43 PM		
Bumped Plug (psi)	Final Differential (psi)	Floats Held (Y/N)	PSI Left on Casing	Cement to Surface (bbl)	Full Circ. During Job (Y/N)	Max Pump Pressure (psi)	Standby Charged (hrs)	 Service Supervisor			
Yes	4000	Yes	0	62	Yes	5200	7	9 2019			

NORTHEAST NATURAL ENERGY, LLC

Location: Monongalia County, WV
 Slot: Slot #06
 Field: Monongalia
 Well: MEPCO LLC 6H
 Facility: MEPCO Pad
 Wellbore: MEPCO.LLC.6H.PWB

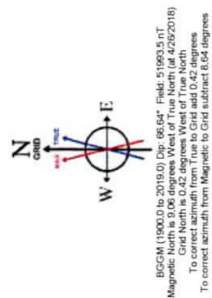
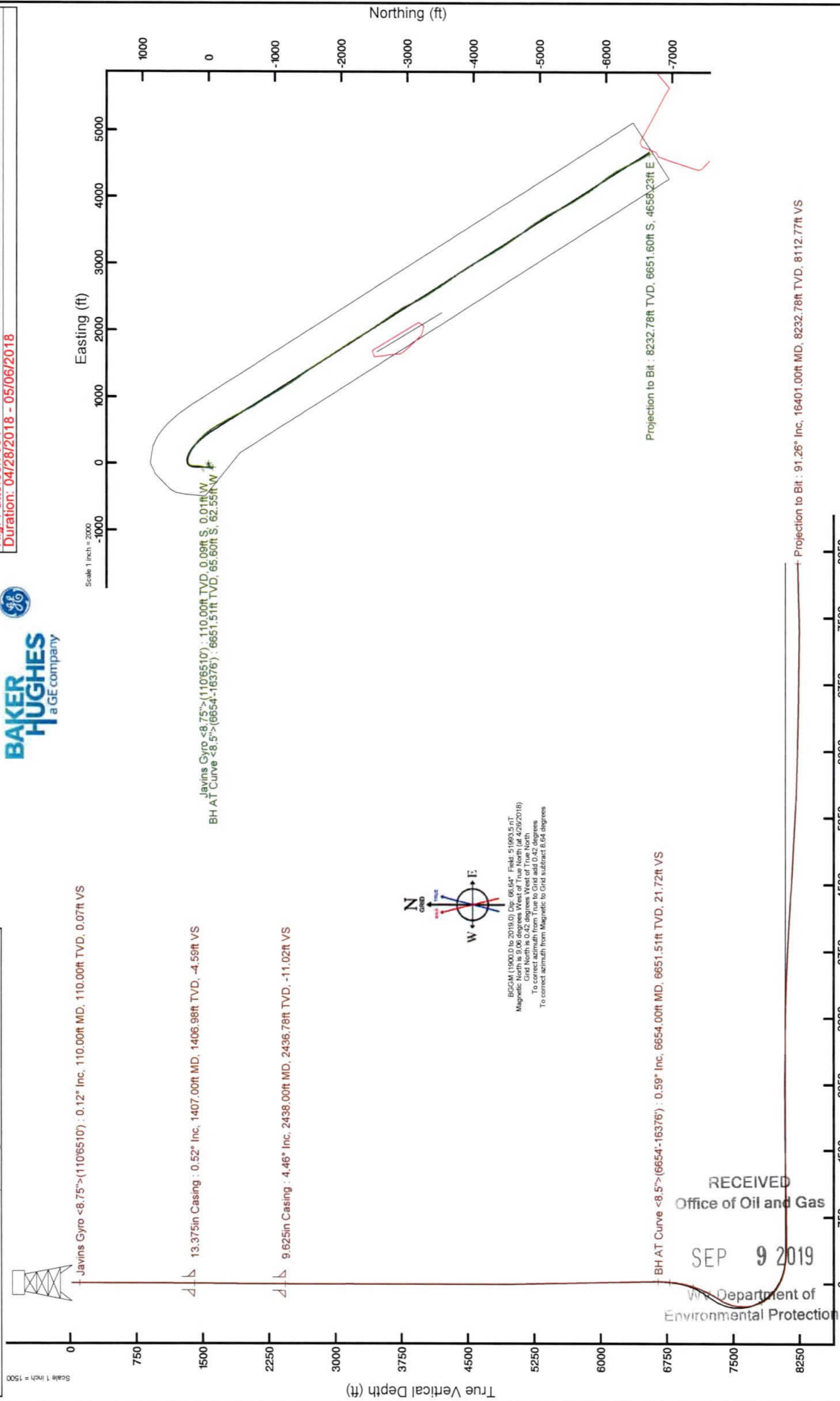
Plot reference weights & MEPCO.LLC.6H.PWB Rev.0	Grid System: NAD83 / Lambert West Virginia SP, NAD83 Zone 1701, US feet
True vertical depths are referenced to Patterson 334 (KB)	North Reference: Grid north
Measured depths are referenced to Patterson 334 (KB)	Scale: True distance
Patterson 334 (KB) to Mean Sea Level: 1440 feet	Depths are in feet
Mean Sea Level to Ground level (At Slot Slot #06) : 1424 ft	Created by: Benchmark on 2018-06-10
Coordinates are in feet referenced to Slot	Database: XVA_Pennsylvania



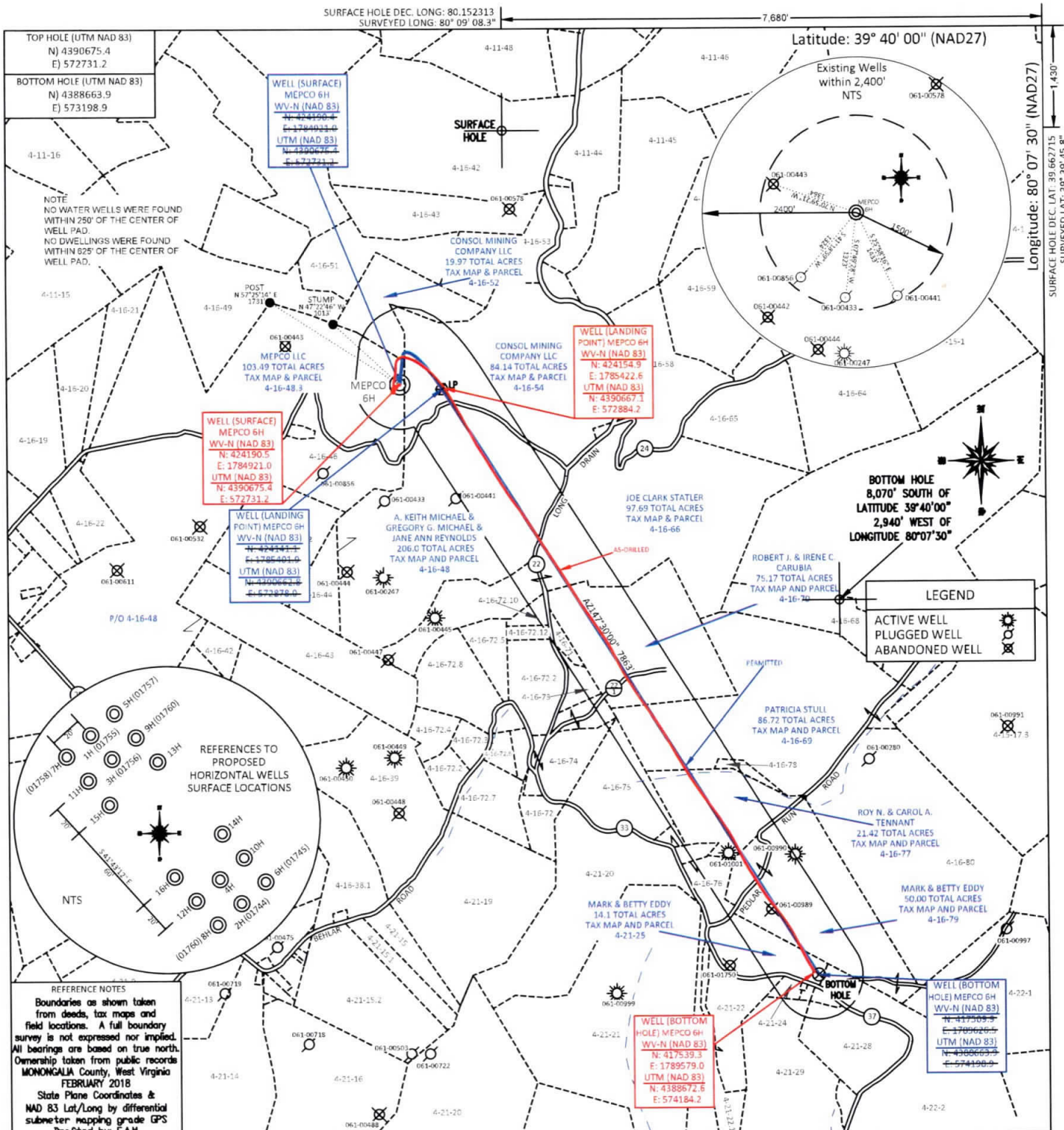
Location Information			
Facility Name	Grid East (US ft)	Grid North (US ft)	Longitude
MEPCO Pad	1784821.230	424282.090	80°09'08.868"W
Local N (ft)	Local E (ft)	Grid East (US ft)	Grid North (US ft)
-91.69	99.74	1784920.960	424190.410
Slot #06	Patterson 334 (KB) to Ground level (At Slot Slot #06)	Mean Sea Level to Ground level (At Slot Slot #06)	25 ft
			-1424 ft
			1440 ft

Comments

API: 47-061-01745-0000
 BH Job #: 9141143
 Rig: Patterson 334
 Duration: 04/28/2018 - 05/06/2018



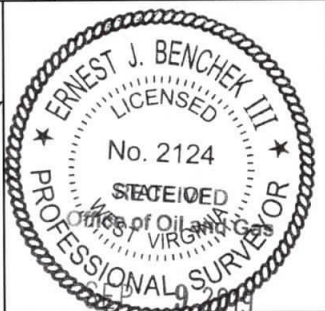
RECEIVED
 Office of Oil and Gas
 SEP 9 2019
 WV Department of
 Environmental Protection



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 FEBRUARY 2018
 State Plane Coordinates & NAD 83 Lat/Long by differential submeter mapping grade GPS
 Drafted by: EAM

FILE #: NNE16
 DRAWING #: 2923
 SCALE: PLAT: 1" = 1600'
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: MEPCO LLC
 OIL & GAS ROYALTY OWNER: NNE LLC 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: AUGUST 5, 2019
 OPERATOR'S WELL #: MEPCO 6H (AS-DRILLED)
 API WELL #: 47 STATE 61 COUNTY 01745 PERMIT
 AS-BUILT ELEVATION: 1,420.20'
 QUADRANGLE: BLACKSVILLE
 ACREAGE: 103.49 +/-
 ACREAGE: 607.30 +/-
 ESTIMATED DEPTH: TVD: 8,222' TMD: 16,495.51'
 DESIGNATED AGENT: JOHN ADAMS
 ADDRESS: 707 VIRGINIA STREET EAST, SUITE 1200
 CITY: CHARLESTON STATE: WV ZIP CODE: 25301