

~~CONFIDENTIAL~~ *expired 2/21/18*

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

API 47-095-02128 County Tyler District Ellsworth
Quad Paden City Pad Name Stewart / Winland Pad Field/Pool Name Middlebourne
Farm name Stewart; James L. & Martha Well Number Stewart / Winland # 1300 UH
Operator (as registered with the OOG) Triad Hunter, LLC
Address 777 Post Oak Blvd. Suite 910 City Houston State Texas Zip 77056

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 370,889 Easting 1,593,647
Landing Point of Curve Northing 371,465 Easting 1,594,467
Bottom Hole Northing 376,621 Easting 1,592,590

Elevation (ft) 906' 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 Base Mud; HT Light Mineral Oil, Synvert TWA & LWA - thinner and wetting agents, Synvert L-1 primary emulsifier, and Cimbar - weighting and filler material

Date permit issued 12/12/2013 Date drilling commenced 3/22/2014 Date drilling ceased 6/7/2014
Date completion activities began 7/9/2014 Date completion activities ceased 7/21/2014
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

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

Freshwater depth(s) ft surface - 250' Open mine(s) (Y/N) depths N
Salt water depth(s) ft @ 1,000' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 1,100' - 1,400' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
JCB
3/14/2014

Reviewed

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WR-35
Rev. 8/23/13

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API 47-095 - 02128 Farm name Stewart; James L. & Martha Well number Stewart / Winland # 1300 UH

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"	26"	100'	New	A53B - 90 lb.	none	yes
Surface	24"	20"	622'	New	J-55 94 lb.	none	yes
Coal							
Intermediate 1	17 1/2"	13 3/8"	3,006'	New	J-55 68 lb.	2 - 585', 1234'	yes - circ. 68 bbls.
Intermediate 2	12" & 11 5/8"	9 5/8"	9,658'	New	P-110 43.5 lb.	9 - 1 every 25 jts.	No
Intermediate 3							
Production	8 1/2"	5 1/2"	16,767'	New	P-110 23 lb.	none	yes
Tubing	<u>5 1/2 Class A</u>	<u>2.375"</u>	<u>10,275'</u>	<u>NEW</u>	<u>N-80 FUE4.7#</u>		
Packer type and depth set							

Comment Details 2.375" Tubing was ran on 02/04/16.

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	Class A	155	15.6	1.18	183	surface	Days
Surface	Class A (Halcem)	798	15.6	1.20	958	surface	12
Coal							
Intermediate 1	Class A (Halcem)	2,500	15.6	1.19	2,975	surface	12
Intermediate 2	Econocem/Varicem	520 / 1,260	11.0/13.5/15.2	4.24/2.0/1.2	4,453	@ 2,800'	12
Intermediate 3							
Production	Varicem / Fraccem	1,550 / 1,130	13.6 / 15.2	1.51 / 1.28	2,341 / 1,446	surface	Days
Tubing							

Drillers TD (ft) TMD = 16,800' TVD = 11,053' Loggers TD (ft) TVD = 11,063'
 Deepest formation penetrated Trenton Limestone Plug back to (ft) 9,216'
 Plug back procedure Pumped 3 cement plugs: # 1 - 11,037'-10,426' with 42 bbls. Class A Cement 16 ppg., # 2 - 10,426'-9,816' with 42 bbls. Class A Cement 16 ppg., # 3 - 9,816'-9,216' with 41 bbls. Class A Cement 16 ppg.

Kick off depth (ft) @ 9,775'

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 _____
 20" (0)
 13 3/8" (7) - 1 every 10th joint
 9 5/8" (24) - 1 every 10th joint
 5 1/2" (79) - 55 spiral centralizers from Toe to KOP (every 3rd jt.), and 24 bow centralizers from KOP to 250' (every 10th jt.)

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- 095 - 02128 Farm name Stewart; James L. & Martha Well number Stewart / Winland # 1300 UH

PRODUCING FORMATION(S)	DEPTHS	
Point Pleasant	10,826.5	16,800'
	TVD	MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 9,000 psi Bottom Hole 9,744 psi DURATION OF TEST 96 hrs

OPEN FLOW Gas 46,500 mcfpd Oil - 0 - bpd NGL _____ bpd Water 720 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		
Big Injun	1837'	1982'			Sandstone
Gordon	2782'	2811'			Siltstone / Sandstone
Marcellus	6134'	6186'			Organic Shale (* Show Gas)
Onondaga	6186'	6410'			Sandstone
Oriskany	6410'	7470'			Sandstone
Salina	6901'	7816'			Anhydrite, Dolomite, Salt
Lockport	7816'	8194'			Dolomite
Packer Shell	8606'	8649'			Dolomite
Tuscarora	8674'	8818'			Sandstone
Queenston	8870'	9583'			Red Shale
Point Pleasant	10,770'	10,840'	11,203'	16,800'	Calcareous, Organic Shale [Utica 10,653' TVD, 10,958 MD]
Lexington	10,840'	10,880'			Limestone inter-bedded with organic shale
Trenton	10,880'	11,063'			Limestone

Please insert additional pages as applicable.

Drilling Contractor Alpha Hunter Drilling
Address 28407 St. Rt. 7 City Marietta State Oh. Zip 45750

Logging Company Schlumberger
Address 1080 US Hwy. 33 East City Weston State WV. Zip 26452

Cementing Company Halliburton Energy Services
Address 4999 East Point Drive City Zanesville State Oh. Zip 43702

Stimulating Company Halliburton Energy Services
Address 4999 East Point Drive City Zanesville State Oh. Zip 43702

Please insert additional pages as applicable.

Completed by B. Austin Clark Telephone (740) 760-0594
Signature [Signature] Title Drilling Manager Date 9.20.2016

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

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Stewart Winland 1300U

API	Total Depth (ft)	Landing Point MD (ft)	Landing Point Angle (Degrees)	Effective Lateral Length (ft)	TVD (ft)	Tubing Depth (ft)	Tubing Dia. (Inches)	Tubing Angle (Degrees)	Casing Depth (ft)	Casing Dia. (Inches)
47-95-02128	16,800	11,613	88.32	5,289	10,709		2 7/8		16,767	5 1/2

Stages	Perforation Intervals		Stage Intervals		Total Volume (bbl)	Average Rate (bpm)	Formation Break (PSI)	Average Pressure (PSI)	100 Mesh Pumped (Lb)	30/50 White Pumped (Lb)	30/50 CRC Pumped (Lb)	20/40 Mesh Pumped (Lb)	Total Sand Pumped (Lb)	ISIP (PSI)	Completed per design	Notes on Frac
	Actual Length	Footage	Actual Length	Footage												
Stage 1	16438'-16611'	173	16629'-16417'	212	9,057	70	NA	10,003	50,040	220,171	84,979	0	355,190	5,666		
Stage 2	16198'-16390'	192	16417'-16168'	249	13,053	75	8,631	10,303	50,018	219,994	170,433	0	440,445	8,259		
Stage 3	15953'-16149'	196	16168'-15932'	236	10,193	74	9,015	10,379	50,122	219,868	32,436	0	302,426	8,403		
Stage 4	15711'-15907'	196	15932'-15689'	243	10,380	75	8,793	10,148	50,204	219,922	229,966	44,748	544,840	7,521		
Stage 5	15468'-15664'	196	15689'-15447'	242	10,212	69	8,873	9,946	52,672	220,469	238,060	0	511,201	7,682		
Stage 6	15226'-15422'	196	15447'-15204'	243	11,497	62	8,960	10,233	50,029	220,041	230,162	19,044	519,276	7,026		Screened out
Stage 7	14983'-15179'	196	15204'-14962'	242	4,496	34	9,662	10,429	7,597	0	0	0	7,597	9,594		
Stage 8	14741'-14937'	196	14962'-14719'	243	11,070	70	9,843	10,548	25,689	224,131	158,837	0	408,657	8,507		
Stage 9	14498'-14690'	192	14719'-14477'	242	9,846	63	10,367	10,364	26,556	221,136	230,910	49,624	528,226	7,599		
Stage 10	14256'-14452'	196	14477'-14234'	243	9,423	78	10,115	10,019	25,443	218,364	229,018	50,049	522,874	7,580		
Stage 11	14013'-14209'	196	14234'-13992'	242	9,459	80	10,562	10,117	27,683	219,687	231,166	46,693	525,229	8,340		
Stage 12	13771'-13967'	196	13992'-13749'	243	9,271	79	9,752	10,170	26,029	220,035	230,698	47,517	524,279	8,040		
Stage 13	13528'-13724'	196	13749'-13507'	242	9,270	78	11,840	9,914	25,545	220,382	230,698	48,305	524,930	7,965		
Stage 14	13286'-13482'	196	13507'-13264'	243	8,955	79	10,773	10,287	26,435	219,594	233,832	0	479,861	8,446		
Stage 15	13043'-13239'	196	13264'-13029'	235	8,539	79	9,363	9,856	26,021	220,496	233,832	48,320	528,669	9,178		
Stage 16	12801'-12997'	196	13029'-12779'	250	7,899	84	8,138	9,893	26,020	220,497	233,832	17,778	498,127	7,920		
Stage 17	12558'-12754'	196	12779'-12537'	242	9,197	84	8,966	10,142	26,080	219,997	230,486	49,613	526,176	7,791		
Stage 18	12316'-12512'	196	12537'-12294'	243	9,055	83	9,387	10,205	26,005	220,103	225,096	20,072	491,276	8,375		
Stage 19	12073'-12269'	196	12294'-12052'	242	8,893	80	8,960	9,691	25,220	218,679	234,172	44,977	523,048	8,145		
Stage 20	11831'-12027'	196	12052'-11809'	243	9,096	84	8,514	9,943	25,960	220,105	230,636	42,529	519,230	7,571		
Stage 21	11588'-11784'	196	11809'-11567'	242	9,185	80	8,812	9,795	26,001	220,051	230,564	47,963	524,579	8,031		
Stage 22	11346'-11542'	196	11567'-11316'	251	8,692	80	8,875	9,698	30,100	262,540	223,400	26,540	542,580	8,795		

Total	22		4,281		5,313	206,738	1,639	198,201	222,083	705,469		4,373,213	603,772	10,348,716	176,434	
Average			195		242	9,397	75	9,438	10,095	32,067		198,782	27,444	470,396	8,020	

