

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

API 47-095-02089 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 # 1301 MH
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 4373293.4 Easting 505121.1
Landing Point of Curve Northing 4373533.6 Easting 505228.8
Bottom Hole Northing 4375164.9 Easting 504593.6

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 3/26/2013 Date drilling commenced 12/31/2013 Date drilling ceased 1/26/2014
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

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Reviewed by:
WS 6/25/15
WS 7/01/15

API 47-095-02089 Farm name Stewart; James L. & Martha Well number Stewart / Winland # 1301 MH

PRODUCING FORMATION(S)	DEPTHS	
Marcellus Shale	6,156'	TVD 12,500' MD

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Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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SHUT-IN PRESSURE Surface 2,600 psi Bottom Hole 5,540 psi DURATION OF TEST 264 hrs

OPEN FLOW Gas 10,100 mcfpd Oil 240 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		** No Open Hole Logs **
					Pilot Hole: Stewart / Winland # 1300 UH (P # 47-095-02128)
Stewart / Winland # 1301 MH					<i>See attached</i>
Tully	6,120'	6,122'	6,497'	6,502'	Limestone
Marcellus	6,122'	Not Drilled	6,502'	12,500'	Organic Shale (Show Gas)

Please insert additional pages as applicable.

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

Logging Company Wildcat Wireline, LLC
Address 8583 Georgetown Road, Unit A City Cambridge State Oh. Zip 43725

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

Stimulating Company Producers Service Corporation
Address 109 S. Graham Street City Zanesville State Oh. Zip 43701

Please insert additional pages as applicable.

Completed by Ben Smeltzer Telephone (740) 760-0570
Signature *Ben Smeltzer* Title Geologist Date 12/5/2014

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

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Stewart Winland 1301M

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)
47-95-02089	12,469	6,677	86	5,793	6,156				12,470	5 1/2

Stages	Perforation Intervals		Stage Intervals		Total Volume (bbl)	Average Rate (bpm)	Formation Break (PSI)	Average Pressure (PSI)	80/100 Mesh Pumped (Lb)	40/70 White Pumped (Lb)	20/40 Mesh Pumped (Lb)	20/40 CRC Pumped (Lb)	Total Sand Pumped (Lb)	ISIP (PSI)	Completed per design	Notes on Frac
	Actual Length	Footage	Actual Length	Footage												
Stage 1	12197'-12355'	158	12377'-12182'	195	6,871	80	8,799	6,422	48,500	322,200	47,100	36,600	454,400	N/A		
Stage 2	11995'-12157'	162	12182'-11979'	203	8,049	77	7,446	1,000	48,900	320,100	45,900	42,100	457,000	N/A		
Stage 3	11798'-11952'	154	11979'-11751'	228	3,977		7,184	NA	NA	NA	9,500	9,500	19,000	4,923		
Stage 4	11598'-11751'	153	11751'-11582'	169	8,479	71	6,879	6,579	49,000	321,000	91,700	91,700	553,400	4,146		
Stage 5	11398'-11555'	157	11582'-11382'	200	8,587	73	6,554	6,501	48,900	320,000	91,500	91,500	551,900	3,942		
Stage 6	11198'-11358'	160	11382'-11182'	200	8,464	75	6,615	6,625	48,700	320,200	92,000	92,000	552,900	3,804		
Stage 7	10997'-11157'	160	11182'-10982'	200	8,227	76	6,768	6,995	49,100	320,500	92,200	92,200	554,000	3,869		
Stage 8	10797'-10957'	160	10982'-10782'	200	8,752	75	5,698	6,620	49,000	320,000	91,700	91,700	552,400	4,248		
Stage 9	10595'-10755'	160	10782'-10582'	200	8,663	75	6,382	6,630	49,000	320,000	91,700	91,700	552,400	4,759		
Stage 10	10395'-10555'	160	10582'-10382'	200	8,537	78	5,423	6,310	49,200	320,500	87,000	5,000	461,700	5,372		
Stage 11	10197'-10357'	160	10382'-10182'	200	8,350	75	6,549	6,310	48,900	320,200	90,000	9,800	468,900	5,117		
Stage 12	9997'-10157'	160	10182'-9982'	200	8,189	78	6,579	6,420	49,100	320,100	45,600	42,500	457,300	4,734		
Stage 13	9797'-9957'	160	9982'-9782'	200	8,417	75	5,573	6,232	49,000	320,400	46,200	42,300	457,900	3,680		
Stage 14	9597'-9757'	160	9782'-9582'	200	7,987	78	6,371	6,450	49,000	320,800	46,200	42,300	458,300	3,845		
Stage 15	9397'-9557'	160	9582'-9382'	200	8,248	76	5,955	6,478	48,500	319,800	46,300	42,400	457,000	3,698		
Stage 16	9195'-9355'	160	9382'-9182'	200	8,820	76	6,319	6,676	49,000	320,000	46,300	42,000	457,300	4,166		
Stage 17	8995'-9155'	156	9182'-8982'	200	8,758	76	6,085	6,400	49,000	320,300	46,300	41,700	457,300	4,959		
Stage 18	8795'-8955'	160	8982'-8776'	206	8,496	77	5,950	6,353	49,500	320,200	46,300	42,000	458,000	4,182		
Stage 19	8595'-8749'	154	8776'-8582'	194	7,573	75	6,314	6,527	49,000	315,000	NA	NA	364,000	4,826		
Stage 20	8395'-8555'	160	8582'-8382'	200	8,688	77	6,084	6,196	49,000	320,000	46,300	42,000	457,300	4,703		
Stage 21	8200'-8355'	155	8382'-8182'	200	8,435	77	6,353	6,359	49,000	320,000	46,300	42,000	457,300	5,060		
Stage 22	7995'-8155'	160	8182'-7976'	206	8,453	77	6,031	6,393	49,000	304,600	61,700	42,000	457,300	5,210		
Stage 23	7795'-7949'	154	7976'-7782'	194	8,520	76	5,613	6,134	49,000	320,000	46,300	42,000	457,300	5,277		
Stage 24	7595'-7755'	160	7782'-7582'	200	10,247	76	5,919	6,839	49,000	320,000	46,300	42,000	457,300	4,550		
Stage 25	7395'-7552'	157	7582'-7382'	200	8,605	75	5,998	6,039	49,000	320,200	46,300	42,000	457,500	3,966		
Stage 26	7195'-7355'	160	7382'-7184'	198	8,492	75	6,431	5,890	49,000	320,000	46,300	42,000	457,300	4,693		
Stage 27	6995'-7155'	160	7184'-	NA	8,565	76	6,241	6,186	53,000	321,500	48,500	45,400	468,400	3,872		

Total	27		4,280		5,193	223,449	1,975	172,113	161,564	1,277,300	8,207,600	1,541,500	1,288,400	12,414,800	111,601	
Average			159		200	8,276	76	6,375	6,214	49,127	319,523	59,288	49,554	459,807	4,464	

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Stewart Winland

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(P# 47-095-02089)

Tyler County, WV

District:

Ellsworth

CHEMICAL SUMMARY

STAGE #	SURFACTANT (gals.)	BIOCIDE (gals.)	SCALE INHIBITOR (gals.)	FRICTION REDUCER (gal.)	LINEAR GEL (gal.)	SP BREAKER (gal.)	7.5%/15% FE ACID (gal.)
1	0	95	70	490	N/A	0	0 / 3000
2	375	108	41	363	400	0.5	0 / 3000
3	180	60	25	240	140	1	3000 / 2000
4	427	108	40	420	635	0.75	0 / 3000
5	443	106	42	439	600	1	0 / 3000
6	400	116	42	430	571	1	0 / 3000
7	380	120	35	410	436	1	2000 / 0
8	400	125	40	425	704	0.75	0 / 3000
9	485	125	40	365	752	0.75	0 / 3000
10	420	120	40	516	245	0.75	3000 / 0
11	390	125	45	425	455	0.5	3000 / 0
12	385	120	40	360	316	0.25	3000 / 0
13	380	100	50	320	530	0.5	3000 / 0
14	355	110	38	330	436	0.5	3000 / 0
15	350	125	38	355	370	0.5	3000 / 0
16	395	150	50	405	720	0.55	3000 / 0
17	370	115	40	365	533	0.55	3000 / 0
18	385	135	40	365	521	0.5	3000 / 0
19	310	138	45	313	307	0.5	3000 / 0
20	418	160	50	363	520	1	3000 / 0
21	415	190	50	413	576	0.625	3000 / 0
22	375	140	45	380	505	0.5	3000 / 0
23	422	138	40	386	593	1	3000 / 0
24	485	185	50	545	1122	1	3000 / 0
25	394	140	47	442	624	0.6	3000 / 0
26	399	133	45	388	564	0.6	3000 / 0
27	380	135	100	435	496	0.5	3000 / 0
TOTALS:							
27	10,118	3,422	1,228	10,688	13,671	18	82,000
Stages	Gals	Gals	Gals	Gals	Gals	Gals	Gals

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