WR-35
Rev. 8/23/13

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

API 47- 91 - 01270 County Taylor County District Booths Creek
Quad Rosemont Pad Name Fairmont Tool Inc Field/Pool Name Booths Creek
Farm name Fairmont Tool Inc Well Number 1H
Operator (as registered with the OOG) Diversified Resources, Inc
Address P.O. Box 381087 City Birmingham State AL Zip 35238-1087

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 14298014.147' (4358034.712 M) Easting 1882503.160' (573786.963 M)
Landing Point of Curve Northing 14296968.069' (4357715.867 M) Easting 1882198.548' (573694.117 M)
Bottom Hole Northing 14294214.099' (4356876.457 M) Easting 1885333.273' (574649.582 M)

Elevation (ft) 1379.5 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

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Mud Type(s) and Additive(s)
synthetic OBM MI - SWACO Mega Drill
Megaul, and versathin

Date permit issued 01/20/2012 Date drilling commenced 01/28/2012 Date drilling ceased 04/04/2012
Date completion activities began 10/30/2013 Date completion activities ceased 11/26/2013
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

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

Freshwater depth(s) ft 600' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1270' Void(s) encountered (Y/N) depths N
Coal depth(s) ft NA Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

08/15/2014

API 47- 91 - 01270 Farm name Fairmont Tool Inc Well number 1H

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		20	55'				Y
Surface	17.50	13 3/8"	688.4'	New	J-55		Y
Coal							
Intermediate 1	12 1/4"	9 5/8"	1884'	New	J-55		y
Intermediate 2							
Intermediate 3							
Production	8 3/4"	5 1/2"	12191	New	P-110		Y
Tubing							
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							
Surface	Type 1 + 2% Calc + 1/4# flake	630	15.6	1.19	108	surface	3hrs
Coal							
Intermediate 1	Type 1 + 1% calc+ 1/4# flake	630	15.2	1.26	142	surface	3hrs 20mins
Intermediate 2							
Intermediate 3							
Production	Class H & Type I cmt	2,485	13.8 & 15.6	1.57 & 1.19	270	surface	6 1/2hrs
Tubing							

Drillers TD (ft) 12220' (7288' TVVD) Loggers TD (ft) 12,220'

Deepest formation penetrated Marcellus Shale Plug back to (ft)

Plug back procedure

Kick off depth (ft) 5450'

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 Centralizers on jts 1, 2, 3, 4, 7, and 10. Cement basket on jt 14

WAS WELL COMPLETED AS SHOT HOLE ☐ Yes ■ No DETAILS Well perforated @ 11,970'-072', 12,020'-022', 12,070'-072', & 12,120-122'

WAS WELL COMPLETED OPEN HOLE? ☐ Yes ■ No DETAILS

WERE TRACERS USED ☐ Yes ■ No TYPE OF TRACER(S) USED

API 47- 91 - 01270 Farm name Fairmont Tool Inc Well number 1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
1	10/31/2013	11,970'	12,122'	40	Marcellus Shale

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)
1	11/26/13	76.6	8975	7576	5366	367,700	8521	0

Please insert additional pages as applicable.

API 47- 91 - 01270 Farm name Fairmont Tool Inc Well number 1H

PRODUCING FORMATION(S)	DEPTHS		
Marcellus Shale	7289'	TVD 12,220'	MD

Please insert additional pages as applicable.

GAS TEST ☐ Build up ☐ Drawdown ■ Open Flow OIL TEST ☐ Flow ☐ Pump

SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST 121 hrs

OPEN FLOW Gas 156 mcfpd Oil 0 bpd NGL 0 bpd Water 2 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_2S, ETC)
	0		0		
see attached list	see attached list	see attached list	see attached list	see attached list	Please see attached list

Please insert additional pages as applicable.

Drilling Contractor Decker Drilling (0-5499') & Pioneer Drilling Company (5499'-12220')
Address 1083 N. 88 Road City Rices Landing State PA Zip 15357

Logging Company Baker Hughes
Address 2929 Allen Parkway City Houston State Tx Zip 77019

Cementing Company Baker Hughes
Address 2929 Allen Parkway City Houston State Tx Zip 77019

Stimulating Company America's Natural Gas Alliance
Address 701 8th Street NW Ste 800 City Washington State DC Zip 20001
Please insert additional pages as applicable.

Completed by Robert Hudson Jr. Telephone 205-408-0909
Signature _____ Title President Date 6/26/14

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

08/15/2014

Fairmont Tool 1H		
Formation	**Top**	**Base**
Siltstone/ sand / shale	0	760
Shale / silt / redrock	760	884
Maxton	884	982
Shale/ redrock	982	1050
Little Lime	1050	1068
shale	1068	1088
Big Lime	1088	1188
Big Injun	1188	1262
silt	1262	1550
Gantz	1550	1578
silt	1578	1684
Fifty-foot	1684	1744
silt	1744	1784
Thirty-foot	1784	1818
silt/ sand/ shale	1818	2085
Fourth	2085	2148
shale/ silt	2148	2223
Fifth	2223	2260
silt/ sand/ shale	2260	2901
Speechley	2901	2910
silt/sand	2910	3181
Balltown	3181	3256
silt / sand	3256	4224
Benson	4224	4264
silt/ sand	4264	6483
Alexander	6483	6578
silt	6578	7248
Geneseo Shale	7248	7282
Tully	7282	7382
Hamilton	7382	7690
Marcellus Shale	7690	12220

CELLS WITH BLUE BACKGROUND ARE THE ONLY CELLS TO BE EDITED

Fracture Start Date/Time:	11/25/2013 16:43:00 PM
Fracture End Date/Time:	11/25/2013 19:19:00 PM
State:	WV
County:	Taylor
API Number:	47-091-03270-0000
Operator Number:	385996
Well Name:	Fairmont Tools 1H
Federal Well:	No
Longitude:	-99.12345679
Latitude:	25.12345679
Long/Lat Projection:	NAD27
True Vertical Depth (TVD):	6,905'
Total Clean Fluid Volume* (gal):	9,519

Additive	Specific Gravity	Additive Quantity	Mass (lbs)	
Water	1.00	357,798	2,985,824	gal
Sand (Proppant)	2.65	367,700	367,700	lb
15% IC Acid	1.07	1,300	11,608	gal
Hydrochloric Acid (7.5%)	1.04	1,200	10,415	gal
PROHIB II	0.97	2.5	20	gal
PRO SHALE SLICK 405	1.05	467	4,104	gal
BIO CLEAR 2000	1.24	91	942	gal
PRO SCALE CLEAR 112	1.19	85	844	gal
PRO FLO 102 M	0.94	0	0	gal
GSF-202-4 0L	1.02	642	5,465	gal
PRO BREAKER 4	1.26	2	21	gal
				gal
				gal
				lb
				gal
				gal
				gal
				gal
				gal
			Total Slurry Mass (Lbs)	
			3,380,942	

Ingredients Section:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Mass per Component (LBS)	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Company 1	Carrier/Base Fluid	Water	7732-18-5	100.00%	2,985,824	88.15693%	
Sand (Proppant)	PSC	Proppant	Silica Substrate		100.00%	367,700	10.85640%	
15% IC Acid	Producers Service Corp	Acidizing	Hydrochloric Acid	7647-01-0	15.00%	1,741	0.05141%	
Hydrochloric Acid (7.5%)	Producers Service Corp	Acidizing	Hydrochloric Acid	7647-01-0	7.50%	781	0.02306%	
PROHIB II	Producers Service Corp	Inhibitor	Ethoxylated Nonylphenol	68412-54-4	10.00%	2	0.00006%	
			Dimethyleocoamine, bis(chloroethyl)ether, diquaternary ammonium salt	68607-28-3	60.00%	12	0.00036%	
			Ethylene Glycol	107-21-1	40.00%	8	0.00024%	
			Glycol Ethers	111-76-2	40.00%	8	0.00024%	
			Methanol	67-56-1	30.00%	6	0.00018%	
			Propargyl Alcohol	107-19-7	30.00%	6	0.00018%	
PRO SHALE SLICK 405	Producers Service Corp	Friction Reducer	Petroleum Distillates	64742-47-8	40.00%	1,641	0.04846%	
BIO CLEAR 2000	Producers Service Corp	Biocide	Polyethylene Glycol	25322-68-3	70.00%	659	0.01946%	
			2,2-dibromo-3-nitrilopropionamide	10222-01-2	40.00%	377	0.01112%	
PRO SCALE CLEAR 112	Producers Service Corp	Scale Inhibitor	Ethylene Glycol	107-21-1	40.00%	338	0.00997%	
GSF-202-4 0L	Producers Service Corp	Gelling Agent	Distillates petroleum, hydro treated	64742-47-8	65.00%	3,552	0.10487%	
			Nonylphenol, ethoxylated	9016-45-9	5.00%	273	0.00807%	
PRO BREAKER 4	Producers Service Corp	Breaker	Sucrose	57-50-1	46.00%	10	0.00029%	
			Ethylene Glycol	107-21-1	14.00%	3	0.00009%	

*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%

All component information listed was obtained from the supplier's Material Safety Data Sheets (MSDS). As such, the Operator is not responsible for inaccurate and/or incomplete information. Any questions regarding the content of the MSDS should be directed to the supplier who provided it. The Occupational Safety and Health Administration's (OSHA) regulations govern the criteria for the disclosure of this information. Please note that Federal Law protects "proprietary", "trade secret", and "confidential business information" and the criteria for how this information is reported on an MSDS is subject to 29 CFR 1910.1200(i) and Appendix D.

08/15/2014

9-01270

JK

WR-36
Rev. 5/08

Date: 12/10/2013
Operators Well Number: Fairmont Tools Inc. #1H
API Well No: 47- 91 - 01270

State of West Virginia
Department of Environmental Protection
Office of Oil and Gas

Well Operator's Report of
Initial Gas-Oil Ratio

Well Operator: Diversified Resources, Inc.
Address: P.O. Box 381087
Birmingham, AL 35238-1087
Texas 77094

Designated Agent: Robert R Hutson, Jr.
Address: 100 Corporate Ridge, Suite 100
Birmingham, AL 35242

Geological Target Formation: Marcellus Shale Depth 12,220' feet
Perforation Interval 11,900'-12,052' feet

Guidelines for testing:
1. *A minimum of gas vented or flared.*
2. *A 24 hour pre-flow into pipelines or tanks.*
3. *Uniform producing rate during the 24 hour test per test period.*
4. *Measurement standards as for Form WR-39, "Report of Annual Production" (see 35CSR4-15)*
5. *Separate Form WR-36 for each producing formation in a multiple completion.*

TEST DATA

Start of Test Date	Time	End of Test Date	Time	Duration of Test
11/25/2013	1300	11/30/2013		121

Tubing Pressure	Casing Pressure	Separator Pressure	Separator Temperature
	370 psi	85	

Oil Production During Test	Gas Production During Test	Water Production During Test
0 BBLS	156.0 MCF	2 BBls -Salinity

Oil Gravity	Producing Method (flowing, pumping, gas lift etc.)
NA API	flowing

GAS PRODUCTION

Measurement Method		Positive Choke ☑
Flange Tap ☑ Pipe Tap ☐ L-10 ☐		Positive flow prover ☐
Orifice diameter: 1.000"	Pipe Diameter (inside): NA	Nominal Choke Size inches: 12/64
Differential Pressure range	Max. Static pressure range: 337	Prover and Orifice diameter - inches: NA

Differential	Static
4.04	285

Gas Gravity (Air = 1.0)	Flowing Temperature	Gas Temperature
Measured 0.585 Estimated	51.08	51.08

24 Hour Coefficient	24 Hour coefficient pressure PSIA
23	416.87

TEST RESULTS

Daily Oil	Daily Water	Daily Gas	Gas-Oil Ratio
0	2	156	NA

Received
JUN 30 '14
Office of Oil and Gas
WV Department of Environmental Protection

Diversified Resources, Inc.
Well Operator
BY
ITS: President

08/15/2014