

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

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MAR 29 2012

Well Operator's Report of Well Work

WV GEOLOGICAL SURVEY
MORGANTOWN, WV

Farm name: GRAGG, JAMES Operator Well No.: 9

LOCATION: Elevation: 1300' Quadrangle: THORNTON

District: KNOTTSVILLE County: TAYLOR
Latitude: 2,300 Feet South of 39 Deg. 20 Min. 0 Sec.
Longitude: 560 Feet West of 79 Deg. 57 Min. 30 Sec.

Company: Texas Keystone, Inc.

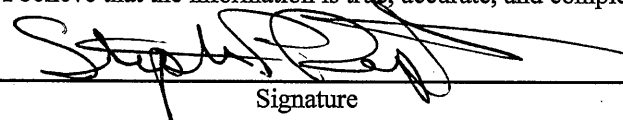
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
560 Epsilon Drive Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	Sanded In
Inspector: Bryan Harris				
Date Permit Issued: 07/25/11	9 5/8"	462	462	180
Date Well Work Commenced: 12/12/11				
Date Well Work Completed: 12/19/11	7"	1567	1567	220
Verbal Plugging:				
Date Permission granted on:	4 1/2"	0	5265	182
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft.): 5835				
Total Measured Depth(ft.): 5835				
Fresh Water Depth (ft.): none reported				
Salt Water Depth (ft.): none reported				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 385', 410', 445',				
Void(s) encountered (N/Y) Depth(s): N				

OPEN FLOW DATA (If more than two producing formations please include additional data on separate sheet)

Producing formation: 3RD ELK Pay zone Depth (ft) 5126 - 5140
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 158 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 680 psig(surface pressure) after 48 Hours

Second Producing formation: 3RD ELK Pay zone Depth (ft) 5068 - 5072
Gas: Initial open flow: Co-mingled MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow Co-mingled MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: Hours
Static rock Pressure: Co-mingled psig(surface pressure) after - Hours

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.


Signature

2/14/12
Date

Third Producing formation:	<u>2ND ELK</u>	Pay zone Depth (ft)	<u>4794 - 4804</u>
Gas: Initial open flow:	<u>Co-mingled</u>	MCF/D	Oil: Initial open flow: <u>0</u> Bbl/d
Final open flow	<u>Co-mingled</u>	MCF/D	Oil: Final open flow: <u>0</u> Bbl/d
Time of open flow between initial and final tests:	<u> </u>	Hours	
Static rock Pressure:	<u>Co-mingled</u>	psig(surface pressure) after	<u> </u> Hours

Fourth Producing formation:	<u>BALLTOWN C</u>	Pay zone Depth (ft)	<u>3124 - 3130</u>
Gas: Initial open flow:	<u>Co-mingled</u>	MCF/D	Oil: Initial open flow: <u>0</u> Bbl/d
Final open flow	<u>Co-mingled</u>	MCF/D	Oil: Final open flow: <u>0</u> Bbl/d
Time of open flow between initial and final tests:	<u> </u>	Hours	
Static rock Pressure:	<u>Co-mingled</u>	psig(surface pressure) after	<u> </u> Hours

Were core samples taken? Yes ___ No X Were cuttings caught during drilling? Yes ___ No X

Were N Electrical, N Mechanical, Y or Geophysical logs recorded on this well?
 Y/N Y/N Y/N

NOTE: IN THE AREA BELOW PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF THE TOPS AND BOTTOMS OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE FROM SURFACE TO TOTAL

Perforated Intervals, Fracturing, or Stimulating:

Perfed 3rd Elk 5126' - 5140' (18 shots). BD 4050 #. NO SAND. 71 bbl. Gel Frac.
Perfed 3rd Elk 5068' - 5072' (16 shots). BD 2400 #. 150 sks 40/70 & 115 sks 20/40. 615 bbl. Gel Frac.
Perfed 2nd Elk 4794' - 4804' (34 shots). BD 3600 #. 250 sks 40/70 & 114 sks 20/40. 693 bbl. Gel Frac.
Perfed Balltown C 3124' - 3130' (24 shots). BD 2250 #. 250 sks 40/70 & 113 sks 20/40. 663 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	15	
SHALE	15	25	
SANDY SHALE	25	38	
SANDSTONE	38	110	
SANDY SHALE	110	160	
SHALE	160	220	
SANDSTONE	220	350	
SANDY SHALE	350	385	
COAL	385	390	
SANDSTONE	390	410	
COAL	410	416	
SANDY SHALE	416	445	
COAL	445	450	
SANDSTONE	450	590	
SANDY SHALE	590	670	
SANDSTONE	670	765	
RED ROCK	765	800	
SANDY SHALE	800	1082	
LITTLE LIME	1082	1095	
PENCIL CAVE SHALE	1095	1118	
BIG LIME	1118	1420	
WEIR SANDSTONE	1420	1462	
SHALE	1462	1559	
BEARA	1559	1581	
UPPER GANTZ	1581	1606	
GANTZ	1606	1650	
LOWER GANTZ	1650	1701	
SANDY SHALE	1701	2212	
FIFTH SAND	2212	2375	
SPEECHLEY A	2375	2425	
SPEECHLEY B	2425	2572	
SPEECHLEY C	2572	2611	
SHALE	2611	2873	
BALLTOWN A SANDSTONE	2873	2942	
SANDY SHALE	2942	3108	
BALLTOWN C SANDSTONE	3108	3137	
SHALE	3137	3835	
UPPER RILEY SILTSTONE	3835	3949	
SHALE	3949	4343	
SANDY SHALE	4343	4532	
1ST ELK SILTSTONE	4532	4597	
SANDY SHALE	4597	4761	
2ND ELK SILTSTONE	4761	4810	
SANDY SHALE	4810	5042	
3RD ELK SILTSTONE	5042	5156	
SANDY SHALE	5156	5835	TD