

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

Well Operator's Report of Well Work

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Office of Oil & Gas  
MAR 29 2012  
WV Department of  
Environmental Protection

Farm name: JENNINGS, G. LYNN Operator Well No.: \_\_\_\_\_

LOCATION: Elevation: 1583 Quadrangle: THORNTON

District: RENO County: PRESTON  
Latitude: 13,200 Feet South of 39 Deg. 22 Min. 30 Sec.  
Longitude: 3,210 Feet West of 79 Deg. 52 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: 05/12/11	9 5/8"	432	432	180
Date Well Work Commenced: 11/30/11				
Date Well Work Completed: 12/07/11	7"	1734	1734	240
Verbal Plugging:				
Date Permission granted on:	4 1/2"	0	5594	246
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft.): 5900				
Total Measured Depth(ft.): 5900				
Fresh Water Depth (ft.): 310', 620'				
Salt Water Depth (ft.): none reported				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 252', 610'				
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) 5453 - 5468  
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d  
Final open flow 1278 MCF/D Oil: Final open flow: 0 Bbl/d  
Time of open flow between initial and final tests: N/A Hours  
Static rock Pressure: 690 psig(surface pressure) after 48 Hours

Second Producing formation: LOWER RILEY Pay zone Depth (ft) 4175 - 4181  
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

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 5453' - 5468' (12 shots). BD 3584 #. 0 SKS 40/70 & 0 sks 20/40. 70 bbl. Gel Frac.  
 Perfed Lower Riley 4175' - 4181' (24 shots). BD 2440 #. 200 sks 40/70 & 109 sks 20/40. 667 bbl. Gel Frac.  
 Perfed Balltown B 3221' - 3236' (45 shots). BD 2500 #. 250 sks 40/70 & 109 sks 20/40. 723 bbl. Gel Frac.  
 Perfed Bayard 2566' - 2571' (20 shots). BD 3389 #. 150 sks 40/70 & 121 sks 20/40. 557 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	15	
SHALE	15	20	
SANDY SHALE	20	30	
SANDSTONE	30	58	
SANDY SHALE	58	87	
SANDSTONE	87	102	
SHALE	102	125	
SANDY SHALE	125	172	
SANDSTONE	172	232	
SHALE	232	252	
COAL	252	260	
SHALE	260	282	
SANDSTONE	282	322	DAMP FW @ 225'
SANDY SHALE	322	382	
SANDSTONE	382	550	
SANDY SHALE	550	610	
COAL	610	620	DAMP FW @ 620'
SANDY SHALE	620	875	
SHALE	875	1010	
RED ROCK	1010	1150	
SANDSTONE	1150	1230	
RED ROCK	1230	1300	
LITTLE LIME	1300	1313	
PENCIL CAVE SHALE	1313	1350	
BIG LIME	1350	1551	
SHALE	1551	1580	
SQUAW SANDSTONE	1580	1603	
SANDY SHALE	1603	1640	
WEIR SANDSTONE	1640	1678	
SANDY SHALE	1678	1780	
BEREA SANDSTONE	1780	1800	
UPPER GANTZ SANDSTONE	1800	1816	
SHALE	1816	1840	
GANTZ SANDSTONE	1840	1851	
SANDY SHALE	1851	2549	
BAYARD SANDSTONE	2549	2578	
SANDY SHALE	2578	3221	
BALLTOWN B SANDSTONE	3221	3245	
SANDY SHALE	3245	3750	
SHALE	3750	4175	
LOWER RILEY SILTSTONE	4175	4800	
1ST ELK SILTSTONE	4800	4858	
SANDY SHALE	4858	5016	
2ND ELK SILTSTONE	5016	5084	
SHALE	5084	5152	
2ND ELK A SILTSTONE	5152	5193	
SANDY SHALE	5193	5428	
3RD ELK SILTSTONE	5428	5503	
SANDY SHALE	5503	5900	TD

Third Producing formation: BALLTOWN B Pay zone Depth (ft) 3221 - 3236  
 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

Fourth Producing formation: BAYARD Pay zone Depth (ft) 2566 - 2571  
 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

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