

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

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NOV 4 2011

WV GEOLOGICAL SURVEY
MORGANTOWN, WV
1

Well Operator's Report of Well Work

Farm name: COZAD, GEORGE Operator Well No.: _____

LOCATION: Elevation: 1294' Quadrangle: THORNTON

District: COVE County: BARBOUR

Latitude: 860 Feet South of 39 Deg. 17 Min. 30 Sec.

Longitude: 8,780 Feet West of 79 Deg. 52 Min. 30 Sec.

Company: Texas Keystone, Inc.

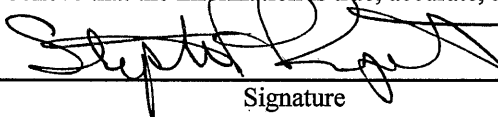
Address:	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
560 Epsilon Drive Pittsburgh, PA 15238				
Agent: Jon Farmer	13 3/8"	42	42	Sanded In
Inspector: Bryan Harris				
Date Permit Issued: 07/11/11	9 5/8"	465	465	260
Date Well Work Commenced: 08/22/11				
Date Well Work Completed: 08/30/11	7"	1393	1393	200
Verbal Plugging:				
Date Permission granted on:	4 1/2"	0	5422	295
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft.): 5682				
Total Measured Depth(ft.):5682				
Fresh Water Depth (ft.): 60, 100, 180				
Salt Water Depth (ft.): none reported				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): none reported				
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: 5TH ELK Pay zone Depth (ft) 5284 - 5314
 Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
 Final open flow 1253 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 120 Hours

Second Producing formation: 3RD ELK Pay zone Depth (ft) 4933 - 4954
 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

10/28/11
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 5th Elk 5284' - 5314' (21 shots). BD 4200 #. 100 sks 40/70 & 104 sks 20/40. 569 bbl. Gel Frac.
 Perfed 3rd Elk 4933' - 4954' (21 shots). BD 3150 #. 200 sks 40/70 & 109 sks 20/40. 661 bbl. Gel Frac.
 Perfed Lower Benson 4054' - 4065' (18 shots). BD 3807 #. 100 sks 40/70 & 107 sks 20/40. 568 bbl. Gel Frac.
 Perfed Upper Benson 4016' - 4024' (24 shots). BD 3864 #. 200 sks 40/70 & 101 sks 20/40. 605 bbl. Gel Frac.
 Perfed Gordon 1732' - 1742' (30 shots). BD 3948 #. 250 sks 40/70 & 104 sks 20/40. 645 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	15	
SHALE	15	25	
SANDY SHALE	25	150	1" FW @ 60', 2" FW @ 100'
SANDSTONE	150	265	2" FW @ 180'
SANDY SHALE	265	340	
SANDSTONE	340	480	
SANDY SHALE	480	610	
REDROCK SHALE	610	954	
LITTLE LIME	954	967	
PENCIL CAVE SHALE	967	998	
BIG LIME	998	1196	
SQUAW SANDSTONE	1196	1208	
SHALE	1208	1291	
WEIR SANDSTONE	1291	1436	
BEREA SANDSTONE	1436	1448	
SHALE	1448	1474	
GANTZ SANDSTONE	1474	1515	
LOWER GANTZ SANDSTONE	1515	1539	
SANDY SHALE	1539	1730	
GORDON SANDSTONE	1730	1745	
SANDY SHALE	1745	2179	
BAYARD SANDSTONE	2179	2202	
SANDY SHALE	2202	2240	
SPEECHLEY A SANDSTONE	2240	2343	
SPEECHLEY B SANDSTONE	2343	2349	
SANDY SHALE	2349	2845	
BALLTOWN B SANDSTONE	2845	2868	
SANDY SHALE	2868	4016	
BENSON SILTSTONE	4016	4080	
SANDY SHALE	4080	4217	
ALEXANDER	4217	4286	
SHALE	4286	4417	
1ST ELK SILTSTONE	4417	4484	
SANDY SHALE	4484	4658	
2ND ELK SILTSTONE	4658	4710	
SANDY SHALE	4710	4933	
3RD ELK SILTSTONE	4933	4992	
SANDY SHALE	4992	5285	
5TH ELK SILTSTONE	5285	5317	
SHALE	5317	5682	TD

Third Producing formation:	<u>LOWER BENSON</u>	Pay zone Depth (ft)	<u>4054 - 4065</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>UPPER BENSON</u>	Pay zone Depth (ft)	<u>4016 - 4024</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
Fifth Producing formation:	<u>GORDON</u>	Pay zone Depth (ft)	<u>1732 - 1742</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