

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

Well Operator's Report of Well Work

Farm name: BIGELOW LODGE Operator Well No.: 18

LOCATION: Elevation: 1517' Quadrangle: NESTORVILLE

District: COVE County: BARBOUR
Latitude: 300 Feet South of 39 Deg. 15 Min. 0 Sec.
Longitude: 9,280 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: 05/24/10	9 5/8"	462	462	200
Date Well Work Commenced: 11/03/11				
Date Well Work Completed: 11/10/11	7"	1694	1694	230
Verbal Plugging:				
Date Permission granted on:	4 1/2"	0	5454	205
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft.): 5568	1 1/2"	0	5303	0
Total Measured Depth(ft.): 5568				
Fresh Water Depth (ft.): 100, 340, 575, 610				
Salt Water Depth (ft.): none reported				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 95				
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) 5319 - 5328
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 813 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 1000 psig(surface pressure) after 48 Hours

Second Producing formation: 3RD ELK Pay zone Depth (ft) 4966 - 5001
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] 1/16/12
Signature Date

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WV GEOLOGICAL SURVEY
MORGANTOWN, WV

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 5319' - 5328' (24 shots). BD 3787 #. 150 sks 40/70 & 100 sks 20/40. 508 bbl. Gel Frac.
Perfed 3rd Elk 4966' - 5001' (30 shots). BD 2600 #. 200 sks 40/70 & 113 sks 20/40. 811 bbl. Gel Frac.
Perfed Benson 4073' - 4079' (18 shots). BD 3125 #. 100 sks 40/70 & 82 sks 20/40. 464 bbl. Gel Frac.
Perfed Balltown C 3187' - 3193' (18 shots). BD 3633 #. 100 sks 40/70 & 110 sks 20/40. 462 bbl. Gel Frac.
Perfed Balltown B 3034' - 3046' (24 shots). BD 3569 #. 250 sks 40/70 & 117 sks 20/40. 642 bbl. Gel Frac.
Perfed Balltown A 2987' - 2993' (18 shots). BD 3818 #. 150 sks 40/70 & 116 sks 20/40. 502 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	16	
SAND	16	32	
SANDY SHALE	32	54	
SAND	54	95	
COAL	95	100	1/2" FW @ 100'
SANDY SHALE	100	142	DAMP @ 130'
SAND	142	200	
SANDY SHALE	200	240	
RED ROCK	240	265	
SANDY SHALE	265	350	1/4" FW @ 340'
SAND	350	442	
SANDY SHALE	442	540	
SAND	540	650	DAMP @ 575', 1/4" FW @ 610'
RED ROCK	650	770	
SAND	770	860	
RED ROCK	860	925	
SANDY SHALE	925	1000	
SAND	1000	1210	
LITTLE LIME	1210	1228	
PENCIL CAVE SHALE	1228	1257	
BIG LIME	1257	1504	
WEIR SANDSTONE	1504	1546	
SHALE	1546	1645	
BEREA SANDSTONE	1645	1665	
UPPER GANTZ SANDSTONE	1665	1680	
GANTZ SANDSTONE	1680	1703	
LOWER GANTZ SANDSTONE	1703	1751	
SANDY SHALE	1751	2358	
BAYARD SANDSTONE	2358	2400	
SPEECHLEY A SANDSTONE	2400	2450	
SANDY SHALE	2450	2506	
SPEECHLEY B SANDSTONE	2506	2954	
BALLTOWN A SANDSTONE	2954	3033	
BALLTOWN B SANDSTONE	3033	3150	
BALLTOWN C SANDSTONE	3150	3203	
SANDY SHALE	3203	4070	
BENSON SILTSTONE	4070	4080	
SANDY SHALE	4080	4264	
ALEXANDER	4264	4300	
SHALE	4300	4473	
1ST ELK SILTSTONE	4473	4595	
SANDY SHALE	4595	4721	
2ND ELK SILTSTONE	4721	4751	
SANDY SHALE	4751	4959	
3RD ELK SILTSTONE	4959	5023	
SANDY SHALE	5023	5291	
5TH ELK SILTSTONE	5291	5340	
SHALE	5340	5568	TD

Third Producing formation: BENSON Pay zone Depth (ft) 4073 - 4079
 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: BALLTOWN C Pay zone Depth (ft) 3187 - 3193
 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

Fifth Producing formation: BALLTOWN B Pay zone Depth (ft) 3034 - 3046
 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

Sixth Producing formation: BALLTOWN A Pay zone Depth (ft) 2987 - 2993
 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