

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

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Well Operator's Report of Well Work

DEC 22 2011

Farm name: HEBB, DOUGLAS Operator Well No.: _____ WV GEOLOGICAL SURVEY
MORGANTOWN, WV

LOCATION: Elevation: 1428' Quadrangle: FELLOWSVILLE

District: RENO County: PRESTON
Latitude: 12,980 Feet South of 39 Deg. 20 Min. 30 Sec.
Longitude: 10,470 Feet West of 79 Deg. 50 Min. 0 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: 10/18/10	9 5/8"	464	464	180
Date Well Work Commenced: 10/04/11				
Date Well Work Completed: 10/15/11	7"	1311	1311	180
Verbal Plugging:				
Date Permission granted on:	4 1/2"	0	5943	375
Rotary <input checked="" type="checkbox"/> Cable <input type="checkbox"/> Rig <input type="checkbox"/>				
Total Vertical Depth (ft.): 6000				
Total Measured Depth(ft.):6000				
Fresh Water Depth (ft.): 430, 590, 675				
Salt Water Depth (ft.): none reported				
Is coal being mined in the area (N/Y)? N				
Coal Depths (ft.): 105, 590				
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: 7TH ELK Pay zone Depth (ft) 5821 - 5827
Gas: Initial open flow: G/S TSTM MCF/D Oil: Initial open flow: 0 Bbl/d
Final open flow 1,189 MCF/D Oil: Final open flow: 0 Bbl/d
Time of open flow between initial and final tests: N/A Hours
Static rock Pressure: 1240 psig(surface pressure) after 36 Hours

Second Producing formation: 3RD ELK Pay zone Depth (ft) 5150 - 5173
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

12/15/11
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 7th Elk 5821' - 5827' (18 shots). BD 3880 #. 200 sks 40/70 & 108 sks 20/40. 559 bbl. Gel Frac.

Perfed 3rd Elk 5150' - 5173' (24 shots). BD 2400 #. 200 sks 40/70 & 111 sks 20/40. 655 bbl. Gel Frac.

Perfed 1st Elk 4614' - 4668' (22 shots). BD 2500 #. 200 sks 40/70 & 110 sks 20/40. 630 bbl. Gel Frac.

Perfed 2nd Alexander 4435' - 4449' (16 shots). BD 4131 #. 100 sks 40/70 & 110 sks 20/40. 475 bbl. Gel Frac.

Perfed Upper Riley 3970' - 3975' (15 shots). BD 3579 #. 100 sks 40/70 & 106 sks 20/40. 418 bbl. Gel Frac.

Perfed Balltown A & B 3085' - 3142' (30 shots). BD 3136 #. 200 sks 40/70 & 120 sks 20/40. 562 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	20	
SANDY SHALE	20	35	
SANDSTONE	35	42	
SHALE	42	82	
SANDY SHALE	82	105	
COAL	105	110	
SANDY SHALE	110	142	
SANDSTONE	142	264	
RED ROCK	264	310	
SANDSTONE	310	385	
SANDY SHALE	385	442	1" FW @ 430'
SANDSTONE	442	472	
SHALE	472	560	
SANDSTONE	560	590	1/2" FW @ 590'
COAL	590	595	
SANDSTONE	595	730	1" FW @ 675'
RED ROCK	730	790	
SANDY SHALE	790	910	
SHALE	910	1055	
SANDSTONE	1055	1140	
SANDY SHALE	1140	1200	
LITTLE LIME	1200	1215	
PENCIL CAVE SHALE	1215	1239	
BIG LIME	1239	1452	
SHALE	1452	1351	
WEIR SANDSTONE	1351	1575	
SHALE	1575	1676	
BEREA SANDSTONE	1676	1694	
UPPER GANTZ SANDSTONE	1694	1718	
SHALE	1718	1741	
GANTZ SANDSTONE	1741	1758	
SHALE	1758	1780	
LOWER GANTZ SANDSTONE	1780	1805	
SHALE	1805	2250	
LOWER FOURTH SAND	2250	2330	
SANDY SHALE	2330	2450	
BAYARD SANDSTONE	2450	2482	
SHALE	2482	2516	
SPEECHLEY A SANDSTONE	2516	2529	
SANDY SHALE	2529	3048	
BALLTOWN A SANDSTONE	3048	3148	
SANDY SHALE	3148	3970	
UPPER RILEY SILTSTONE	3970	3977	
SHALE	3977	4421	
ALEXANDER SILTSTONE	4421	4449	
SANDY SHALE	4449	4605	
1ST ELK SILTSTONE	4605	4668	
SANDY SHALE	4668	5143	
3RD ELK SILTSTONE	5143	5172	
SHALE	5172	5821	
7TH ELK SILTSTONE	5821	5827	
SHALE	5827	6000	

TD

Third Producing formation:	<u>1ST ELK</u>	Pay zone Depth (ft)	<u>4614 - 4668</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>2ND ALEXANDER</u>	Pay zone Depth (ft)	<u>4435 - 4449</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>UPPER RILEY</u>	Pay zone Depth (ft)	<u>3970 - 3975</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

Sixth Producing formation:	<u>BALLTOWN A & B</u>	Pay zone Depth (ft)	<u>3085 - 3142</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