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

DATE: 9/14/2011 API #: 4700103166

Well Operator's Report of Well Work

LOCATION									
	: Elevation:	n:1707'		_Quadrangle:		NESTORVILLE			
	District:			County:	BARBOUR				
	Latitude:		Feet South of		. 15 Mi	n. 0 Sec.			
		8,540	Feet West of		. 52 Mi	n. 30 Sec.			
			_			7			
Company:	Texas Keystone	, Inc.		I~	Ter	Tu un un			
	560 Epsilon Dri			Casing & Tubing	Used in drilling	Left in well	Cement Cu. Ft.	fill up	
	Pittsburgh, PA 1	15238		12.2/00	12	- 10	CANIDA	3D D I	
	Jon Farmer			13 3/8"	42	42	SANDI	ED IN	
	Bryan Harris	00/1	(11.0	0.5/00	165		-		
Date Permi		09/16		9 5/8"	465	465	17	5	
	Work Commenc				10-0				
	Work Complete	d: 06/22	2/11	7"	1858	1858	23	0	
Verbal Plug		36.		4 170		70.50		_	
	ssion granted or			4 ½"	0	5260	18	5	
Rotary		Rig				PENEIL			
	cal Depth (ft.):			2 3/8"	0	R5079			
	ured Depth(ft.):					Office of O	& Gia	Ö	
	r Denth (ff)	55. 140. 79	00						
Fresh Wate		00, 110, 15			1		0.044		
Salt Water	Depth (ft.):					SEP 29	2011		
Salt Water Is coal being	Depth (ft.): g mined in the a	area (N/Y)?				0.2.			
Salt Water Is coal being Coal Depths	Depth (ft.): g mined in the a s (ft.):	area (N/Y)? 175, 790	N			0.2.		of	
Salt Water Is coal being Coal Depths	Depth (ft.): g mined in the a	area (N/Y)? 175, 790			Fn	WV Depart	mont	of ction	
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Were co	ore samp	oles 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 5120' - 5129' (21 shots). BD 4150 #. 100 sks 20/40 & 150 sks 40/70. 549 bbl. Gel Frac.

Perfed Alexander 4453' - 4465" (21 shots). BD 3915 #. 114 sks 20/40 & 150 sks 40/70. 601 bbl. Gel Frac.

Perfed Benson 4226' - 4233' (21 shots). BD 4424 #. 113 sks 20/40 & 150 sks 40/70. 550 bbl. Gel Frac.

Perfed Balltown A 3146' - 3167' (34 shots). BD 2950 #. 118 sks 20/40 & 200 sks 40/70. 766 bbl. Gel Frac.

Perfed Balltown Stray 3054' - 3076' (30 shots). BD 2800#. 118 sks 20/40 & 200 sks 40/70. 579 bbl. Gel Frac

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	12	
REDROCK SHALE	12	25	
SANDY SHALE	25	80	1/2" FW @ 55'
SANDSTONE	80	145	1/2" FW @ 140'
SANDY SHALE	145	175	
COAL	175	180	
SANDY SHALE	180	262	
SANDSTONE	262	322	
SANDY SHALE	322	352	
SANDSTONE	352	500	
SANDY SHALE	500	765	
SANDSTONE	765	790	DAMP @ 790'
COAL	790	795	
SANDY SHALE	795	900	
SHALE	900	1140	
SANDSTONE	1140	1230	
SHALE	1230	1370	
SANDY SHALE	1370	1405	
LITTLE LIME	1405	1421	
PENCIL CAVE SHALE	1421	1454	
BIG LIME	1454	1668	
SANDY SHALE	1668	1697	
WEIR SANDSTONE	1697	1725	
SHALE	1725	1867	
UPPER GANTZ SANDSTONE	1867	1890	
SHALE	1890	1908	
GANTZ SANDSTONE	1908	1940	
SANDY SHALE	1940	2568	
SPEECHLEY A SANDSTONE	2568	2600	
SHALE	2600	2766	
SPEECHLEY C SANDSTONE	2766	2786	
SANDY SHALE	2786	3052	
BALLTOWN STRAY SANDSTONE	3052	3084	
SHALE	3084	3144	
BALLTOWN A SANDSTONE	3144	3170	
SANDY SHALE	3170	4226	
BENSON SILTSTONE	4226	4234	
SANDY SHALE	4234	4434	
ALEXANDER SILTSTONE	4434	4465	
SANDY SHALE	4465	4631	
1ST ELK SILTSTONE	4631	4683	
SANDY SHALE	4683	4895	
2ND ELK SILTSTONE	4895	4940	
SHALE	4940	4940	
2ND ELK A SILTSTONE	4992	5019	
SANDY SHALE	5019	5120	10/14/2011
3RD ELK SILTSTONE	5120	5169	10/14/2011
SANDY SHALE 4TH ELK SILTSTONE	5169 5300	5300 5340	
SANDY SHALE 5TH ELK SILSTONE	5340 5455	5455 5505	
			TD
SHALE	5505	5702	TD

Third Producing formation	n: BENSON	Pay zone	Depth (ft)	4226 - 42	33
Gas: Initial open flow:	Co-mingled	MCF/D	Oil: Initial oper	flow: 0	Bbl/d
Final open flow	Co-mingled	MCF/D	Oil: Final open	flow: 0	Bbl/d
Time of open flow betwee	n initial and final tests:	Hours			_
Static rock Pressure:	Co-mingled	psig(surf	ace pressure) aft	er <u>-</u>	_ Hours
					_
Fourth Producing formation	on: BALLTOWN A	Pay zone	Depth (ft)	3146 - 31	67
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 betwee	n initial and final tests:	Hours			
Static rock Pressure:	Co-mingled	psig(surf	ace pressure) after	er <u>-</u>	Hours
					_
Fifth Producing formation	: BALLTOWN STRAY	Pay zone	Depth (ft)	3054 - 30	76
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 betwee	n initial and final tests:	Hours			_
Static rock Pressure:	Co-mingled	psig(surf	ace pressure) after	er -	Hours