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

DATE: 2/10/2011 API #: 4700103053

Well Operator's Report of Well Work

Farm name:	The state of the s	HOVATTER	, IKA	_Operator	Well	No.:		10		
LOCATION	ኒኒኒኒኒኒ N: Elevation:		1823	Quadrang	gle:			THORNTON		
Market II	The same is			_						
			OVE	County:				BARBOUR		
	Latitude:	430				12	Min.			
	Longitude:	2,538	Feet West of		Deg.	52	Min.	Sec.		
Company:	Texas Keyston	ie, Inc.				·				
A ddmoss.	560 Engilon D	 .		Casing & Tubing	č	Used in drilling		Left in well	Cement Cu. Ft.	fill up
Addiess.	560 Epsilon D Pittsburgh, PA			Tubing		urming			Cu. Ft.	
Agent:	Jon Farmer	13236	,	13 3/	2"	42		42	Conda	d I.
Inspector:	Bryan Harris			13 3/6	` .	42		42	Sande	a m
Date Permi	t Issued:	06/3	0/09	9 5/8	11	462		462	17	5
	Work Commer			7 3/0		702		702	17.	<u>, </u>
	Work Complet			7"		1937	7	1937	27	5
Verbal Plu		12/0	77.10	<u> </u>		175		1/5/	27	
	ssion granted	on:		4 1/2'	,	5666		5666	23:	5
	X Cable	Rig		1 /2		3000	,	3000	23.	
	cal Depth (ft.):									
	ured Depth(ft.									
	er Depth (ft.):		ted							
	Depth (ft.):									
	g mined in the		N					·		
	s (ft.):								 	
Void(s) enc	ountered (N/Y) Depth(s):	N						<u> </u>	
	W DATA (If Producing forn		vo producing forms	ations plea					e sheet)	20
	Gas: Initial ope		G/S TSTM			MCF/D	Oil: I	nitial open flow	7: 0	Bbl/d
	Final open flow		N/A			MCF/D	Oil: F	inal open flow:		-Bbl/d
	Time of open f	low between	initial and final tes	sts: N/A		Hours			_ <i>Doi/u</i>	
	Static rock Pressure: 1250			•	psig(surface pressure) after			_336	Hours	
	Second Produc	ing formation	n: ALEXANDER			Pay zone	Depth	(ft)4	426 - 445	54
	Gas: Initial ope	· -	Co-mingled			MCF/D	Oil: Iı	nitial open flow	: 0	Bbl/d
	Final open flow		Co-mingled					inal open flow:		Bbl/d
	Time of open flow between initial and final tests:				Hours					
	Static rock Pres	ssure: (Co-mingled			psig(surfa	ce pre	ssure) after	· -	Hours
aocument ai	nd all the attac	chments and	that, based on me information is to	ny inquiry rue, accura	of tl	hose indiv	louhin	information sustainmediately 4-/2-// Date	bmitted cresponsib	n this le for

Were co	ore sam	ples taken?	Yes No _X	Wei	re cuttings caught during drilling?	Yes	No X
Were	N Y/N	_Electrical,	N Mechanical,	Y V/N	or Geophysical logs recorded on	this well?	

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 5448' - 5539' (30 shots). BD 3232 #. 401 sks. 932 bbl. Gel Frac. Shutdown 12/15/2010
Frac 1/5/2011
Perfed Alexander 4426' - 4454' (32 shots). BD 2078 #. 350 sks. 848 bbl. Gel Frac.

Perfed Benson 4226' - 4231' (15 shots). BD 1979 #. 200 sks 20/40. 574 bbl. Gel Frac.

Perfed Balltown C 3374' - 3392' (22 shots). BD 3588 #. 250 sks. 638 bbl. Gel Frac.

Perfed Balltown A 3184' - 3198' (20 shots). BD 3370 #. 250 sks. 615 bbl. Gel Frac.

Formations Encountered:	Top Depth	Bottom Depth	Notes:
FILL	0	16	
SHALE	15	15 30	
SANDSTONE	30	42	
SANDY SHALE	42	190	
COAL	190	195	
REDROCK SHALE	195	240	
SANDY SHALE	240	380	
SANDSTONE	380	450	
SANDY SHALE	450	550	
COAL	550	555	
SANDSTONE	555	610	
SANDY SHALE	610	770	
SANDSTONE	770	890	DAMB CW (2) 8001
SANDY SHALE	890	1040	DAMP SW @ 800'
SANDSTONE	1040	1150	
REDROCK SHALE	1150	1230	
SANDSTONE	1230	1285	
REDROCK SHALE	1285	1447	1/2" SW @ 1730'
LITTLE LIME	1447	1466	1/2 SW (# 1/30
PENCIL CAVE SHALE	1466	1498	
BIG LIME	1498	1727	
SHALE	1727	1745	
WEIR SANDSTONE	1745	1785	
SANDY SHALE	1785	1875	
BEREA SANDSTONE	1875	1897	
UPPER GANTZ SANDSTONE	1897	1904	·
SANDY SHALE	1904	2783	
SPEECHLEY C SANDSTONE	2783	2847	
SHALE	2847	3175	
BALLTOWN A SANDSTONE	3175	3212	
SANDY SHALE	3212	3357	
BALLTOWN C SANDSTONE	3357	3395	•
SHALE	3395	4003	
SANDY SHALE	4003	4223	
BENSON SILTSTONE	4223	4235	
SANDY SHALE	4235	4420	
ALEXANDER SILTSTONE	4420	4457	
SANDY SHALE	4457	4638	
1ST ELK SILTSTONE	4638	4700	
SANDY SHALE	4700	5426	
5TH ELK SILTSTONE	5426	5583	
SANDY SHALE	5583	5770	TD
		•	· · · · · · · · · · · · · · · · · · ·

Third Producing formatio	n: BENSON	Pay zone Depth (ft)	4226 - 4231
Gas: Initial open flow:	Co-mingled	MCF/D Oil: Initial open f	low: 0 Bbl/d
Final open flow	Co-mingled	MCF/D Oil: Final open fl	
Time of open flow between	en initial and final tests:	Hours	
Static rock Pressure:	Co-mingled	psig(surface pressure) after	Hours
Fourth Producing formation	on: BALLTOWN C	Pay zone Depth (ft)	3374 - 3392
Gas: Initial open flow:	Co-mingled	MCF/D Oil: Initial open f	
Final open flow	Co-mingled	MCF/D Oil: Final open fl	
Time of open flow between	en initial and final tests:	Hours	
Static rock Pressure:	Co-mingled	psig(surface pressure) after	- Hours
Fifth Producing formation		Pay zone Depth (ft)	
-	Co-mingled	MCF/D Oil: Initial open f	low: 0 Bbl/d
Final open flow		MCF/D Oil: Final open flo	ow: 0 Bbl/d
Time of open flow between	en initial and final tests:	Hours	
Static rock Pressure:	Co-mingled	_psig(surface pressure) after	Hours