Pare of MR 35 18 Of AUG Revise 1919 Of AUG Provided Provided In International In

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

DATE: 08/06/08 API #: 47-001-02959

Well Operator's Report of Well Work

Farm name:	Robert Smith		Opera	ator Well No.:	1	
LOCATION:	Elevation:	1629'	Quad	rangle:	Thornton	
Dis	strict: Cove		Coun	tv:	Barbour	
	titude: 3220		39 Deg.	17 N	fin. 30 S	ec.
Lo	ngitude: 6,200	Feet West of	79 Deg.	52 N	fin. 30 S	lec.
	AUTOMORPHONICS CONTRACTOR					
Company:	Texas Keystor	ne, Inc.	Casing & Tubing	Used in drilling	Left in well	Cement fill up Cu. Ft.
Address: 560	Epsilon Drive	- 111-	T T T T T T T T T T T T T T T T T T T	-		Lap Carrie
	tsburgh PA, 15238					
Agent: Jon Fa			13 3/8"	42'	42'	Sanded In
Inspector: B	ill Hatfield					
	Issued: 04/25/2008		9 5/8"	464'	464'	135 SKS
	ork Commenced: 0		 		1	
	ork Completed: 06/	16/08	7"	1394'	1394'	265 SKS
Verbal Plugg	ging: sion granted on: N/	Λ	4 1/2"	5601'	5601'	111 SKS
Rotary X		Rig	4 /2	3001	3001	111 3K3
	h (feet): 6512'	Ng	-		-	
	r Depth (ft.):					
765'						
Salt Water	Depth (ft.):					
				1		
	mined in area (N/Y)? N				
Coal Depths	(ft <u>.):</u>					
Proceedings of the second seco	ducing formation	G/S TSTM 531 ween initial and fi 1300 nation 3 rd Elk Co-mingled Co-mingled ween initial and fi Co-mingled tion 1 st Elk Co-mingled Co-mingled co-mingled ween initial and fi Co-mingled co-mingled ation Alexand Co-mingled	MCF MCF MCF inal tests NA psig (surface Pay 2 MCF MCF inal tests NA psig Pay 2 MCF MCF inal tests NA psig MCF MCF MCF inal tests NA psig MCF	6/d Oil: Initia 6/d Oil: Final Hours pressure) aft cone depth (final Hours cone depth (final Hours (surface pressure) aft 6/d Oil: Initia Mours (surface pressure) aft 6/d Oil: Final Hours (surface pressure) aft 6/d Oil: Initia 6/d Oil: Final Hours (surface pressure) aft 6/d Oil: Initia cone depth (final Hours (surface pressure) aft 6/d Oil: Initia	lopen flow	Bbl/d Bbl/d Hours 173' Bbl/d Bbl/d Hours 592' Bbl/d Bbl/d Hours 476' Bbl/d Bbl/d
Fina	l open flow	Co-mingled	MCF	/d Oil: Final	open flow 0	Bbl/d
Tim	e of open flow bety	ween initial and fi	inal testsNA	Hours		
	ic rock Pressure				sure) after	Hours
		2-11-11-11-11-11-11-11-11-11-11-11-11-11				
	n Producing format			zone depth (f		22
	open flow				open flow 0	Bbl/d
	e of open flow bety					
NOTE: ON B INTERVALS LOG WHICH	ACK OF THIS FOR FRACTURING OF H IS A SYSTE COAL ENCOUNT	RM PUT THE FO R STIMULATING MATIO DETAIL	LLOWING: 1) , PHYSICAL (ED GEOLOG	. DETAILS C	C. 2). THE WEL	L
Si	igned:	MA	77			
		UL M. AERZIA	561			
	Date:	8-18-08	3023			

Well fractured 06/19/08

Perfed 5th Elk 5502' - 5504' (4 shots) & 5510' - 5514' (12 shots). BD 3196#. 350 sks 20/40. 721 bbl - Gel Frac. Perfed 3rd Elk 5142' - 5144' (4 shots), 5158' - 5162' (8 shots) & 5171' - 5173' (4 shots). BD 2732#. 250 sks 20/40. 690 bbl - Gel Frac. Perfed 1st Elk 4688' - 4692' (12 shots). BD 4045#. 200 sks 20/40. 563 bbl - Gel Frac. Perfed Alexander 4456' - 4458' (4 shots) & 4470' - 4476' (12 shots). BD 3196#. 200 sks 20/40. 556 bbl - Gel Frac.

ROCK DESCRIPTION	TOP DEPTH	BOTTOM DEPTH	NOTES
FILL	0	8	
SHALE	8	41	
REDROCK SHALE	41	82	
SANDY SHALE	82	172	
SANDSTONE	172	292	
SANDY SHALE	292	382	
SANDSTONE	382	492	
SANDY SHALE	492	700	
SANDSTONE	700	790	¼" FW @ 765'
SANDY SHALE	790	960	
REDROCK SHALE	960	1080	
SANDSTONE	1080	1170	
REDROCK SHALE	1170	1280	
LITTLE LIME	1280	1295	
PENCIL CAVE SHALE	1295	1314	
BIG LIME	1314	1538	
SHALE	1538	1551	
SANDSTONE	1551	1575	
SHALE	1575	1617	
WEIR SANDSTONE	1617	1656	
SHALE	1656	1750	
BEREA SANDSTONE	1750	1777	
SHALE	1777	1795	
GANTZ SANDSTONE	1795	1874	
50 FOOT SANDSTONE	1874	1915	
SANDY SHALE	1915	2541	
SPEECHLEY A SANDSTONE	2541	2585	
SANDY SHALE	2585	2789	
SHALE	2789	3050	
BALLTOWN A SANDSTONE	3050	3138	
SHALE	3138	3167	
BALLTOWN B SANDSTONE	3167	3254	
SHALE	3254	3300	
SANDY SHALE	3300	3469	
SHALE	3469	4065	
LOWER RILEY SILTSTONE	4065	4118	
SHALE	4118	4230	
BENSON SILTSTONE	4230	4242	
SANDY SHALE	4242	4451	
ALEXANDER SILTSTONE	4451	4478	
SHALE	4478	4633	
1 ST ELK SILTSTONE	4633	4700	
SANDY SHALE	4700	4876	
2 ND ELK SILTSTONE	4876	4916	
SHALE	4916	4982	
2 ND ELK A SILTSTONE	4982	4990	
SANDY SHALE	4990	5043	
SHALE	5043	5140	
3 RD ELK SILTSTONE	5140	5186	
SHALE	5186	5463	
5 TH ELK SILTSTONE	5463	5515	GAS SHOW @ 5510' TSTM
SHALE	5515	6512	TD



west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Joe Manchin III, Governor Stephanic R. Timmermeyer, Cabinet Secretary www.wvdep.org

April 25, 2008

WELL WORK PERMIT

New Well

This permit, API Well Number: 47-102959, issued to TEXAS KEYSTONE INC, is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to all conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas inspector.

Please be advised that form WR-35, well operators report of well work, is to be submitted to this office within 90 days of completion of drilling, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35CSR-4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: R SMITH 1

Farm Name: SMITH, ROBERT L.

API Well Number: 47-102959

Permit Type: New Well

Date Issued: 04/25/2008

Promoting a healthy environment.

Form: WW - 2B

1-02959

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

)Well Operato	r iexa	as Keysto	one, Inc.			Barbour	Cove	Thorn 7.5'
				Op ID	erator	County	District	Quadra
) Operators W	lell Num	ber:	R. Smith #1	3)	Elevat	ion: <u>16</u>	29'	_
) Well Type: (a	a) Oil) If Gas:	Produ	ction X / l	Jnderground	d Stora	ge		,
	U. 122			Shallow	<u>X</u>	=		
) Proposed Ta) Proposed To								
) Approximate				300'				
) Approximate				1700'	201 0 45	1 4001		
) Approximate 0) Does land				85' 149' 20		['] 400' No		
.,				127 5.5				
	- 2000				*	***************************************	*///	
	PECIFIC Size	CACATIONS Grade	SING AND TU	For	E INTI	in <u>F</u>	CEMI	
TYPE S	Size	ATIONS		FOOTAGE For Drilling	Left Wei	in F		
TYPE S		ATIONS	Weight per	For	Left Wei	in <u>F</u>		
TYPE S Conductor	Size 13	ATIONS	Weight per	FOOTAGE For Drilling	Left Wel	in F		
TYPE S Conductor Fresh Water	<u>Size</u> 13 3/8"	ATIONS	Weight per	FOOTAGE For Drilling 30'	Left Wel	in <u>F</u> 1 30'	ill -up (Cu	
TYPE S Conductor Fresh Water Coal	<u>Size</u> 13 3/8"	ATIONS	Weight per	FOOTAGE For Drilling 30'	Left Wel	in <u>F</u> 1 30'	ill -up (Cu	J. Ft.)
TYPE S Conductor Fresh Water Coal	13 3/8" 9 5/8"	ATIONS	Weight per	FOOTAGE For Drilling 30' 450'	Left Wel	in F 1 30' 450'	CTS	J. Ft.)
TYPE S Conductor Fresh Water Coal Intermediate Production	Size 13 3/8" 9 5/8"	ATIONS	Weight per	FOOTAGE For Drilling 30' 450'	Left Wel	in F 1 30' 450' 129' 930'	CTS CTS By Rule	J. Ft.)
2) TYPE S Conductor Fresh Water Coal Intermediate Production Tubing Liners	Size 13 3/8" 9 5/8"	ATIONS	Weight per	FOOTAGE For Drilling 30' 450'	Left Wel	in F 1 30' 450' 129' 930'	CTS CTS By Rule CSR 4-1	J. Ft.)

\$650

