Contact Geologist: Contact Phone Nbr: Well Name: Location: Pool: State:	Wichita, KS 67202 Shauna Gunzelman 316-267-3241 Patricia #1-16 Sec. 16 - T1S - R37W	API: Field:	15-023-21378-0000 Wildcat
State:	Kansas	Country:	USA
	DRILLING COMPANY WICHITA, KANSA	N, INC.	
	Scale 1:240 Imperial		
Well Name: Surface Location:	Patricia #1-16 Sec. 16 - T1S - R37W		
Bottom Location: API:	15-023-21378-0000		
License Number:	30606 1/29/2014	Time	21.15
Region:	Cheyenne County		21.15
Surface Coordinates:	2/9/2014 1980' FNL & 2100' FWL	l ime:	04:05
Bottom Hole Coordinates: Ground Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type:	3247.00ft 3260.00ft 3560.00ft 4785.00ft Cherokee Chemical/Fresh Water Gel	To:	4785.00ft
	SURFACE CO-ORDINATI	ES	
Well Type: Longitude: N/S Co-ord: E/W Co-ord:	Vertical 1980' FNL 2100' FWL	Latitude:	
	LOGGED BY		
	Keith Reavis		
	Consulting Geologist	ŧ	
Company: Address:	Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530		
Phone Nbr: Logged By:	620-617-4091 KLG #136	Name:	Keith Reavis
Contractor:	Murfin Drilling Company		
кıg #: Rig Type:	∠ວ mud rotary		
Spud Date:	1/29/2014	Time:	21:15 04:05
Rig Release:		Time:	UT.UJ
	ELEVATIONS		
K.B. Elevation: K.B. to Ground:	3260.00ft Groun 13.00ft	d Elevation:	3247.00ft
	NOTES		

The gamma ray and caliper curves were imported into this report from the electrical log suite. Sample tops from the

Topeka down were generally low to logged formation tops. Neither ROP or electrical log curves were shifted to provide an exact match, but rather left as recorded in the field.

The samples were saved and will be available for review at the Kansas Geological Survey Well Sample Library located in Wichita, KS.

Respectfully submitted, Keith Reavis

## Murfin Drilling Company daily drilling report

DATE	7:00 AM DEPTH	REMARKS
02/03/2014		Geologist Keith Reavis on location @ 2240 hrs, 3500 ft, bit trip
02/04/2014	3692	complete bit trip, ctch, resume drilling, Neva, Red Eagle, Foraker
02/05/2014	4154	drilling Topeka, Oread, Lansing
02/06/2014	4485	drilling Lansing, BKC, Marmaton, drill to 4595', stop above Pawnee, short trip, put rig to circulating, too cold to test
02/07/2014	4595	circulating until daylight, resume drilling 0750 hrs, cut Pawnee, show warrant DST, TOH w/bit and in w/tools, conduct DST #1,
02/08/2014	4667	complete DST #1, successful test, TIH w/bit, resume drilling, cut upper Cherokee, show warrants test, conduct and complete DST #2, TIH w/bit
02/09/2014	4785	resume drilling, TD @ 0405 hrs, ctch, TOH w/bit, conduct and complete logging operations 1300 hrs, geologist off location 1340 hrs

## Murfin Drilling Company well comparison sheet

		DETTING	ATRT T			COMPADIC	ON LIFT T			COMPADIO	ON METT		
		DRIFFING	WELL		COMPARISON WELL			COMPARISON WELL					
	Murfin - Patricia #1-16					Murfin - Patricia #2-16				Murfin - Jones B #1-9			
	1	980' FNL	& 2100'	FWL	660' FNL & 660' FWL				710' FSL & 710' FWL				
	Sec. 16 - T1S - R37W			Sec. 16 - T1S - R37W				Sec. 9 - T1S - R37W					
					Structural				Struct			ural	
	3260 KB				3264 KB Relationship		3253 KB		Relationship				
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log	
Neva	3658	-398	3664	-404	3666	-402	4	-2	3658	-405	7	1	
Red Eagle	3726	-466	3729	-469	3729	-465	-1	-4	3722	-469	3	0	
Foraker	3773	-513	3775	-515	3777	-513	0	-2	3769	-516	3	1	
Topeka	4004	-744	4002	-742	4002	-738	-6	-4	3996	-743	-1	1	
Oread	4137	-877	4135	-875	4136	-872	-5	-3	4127	-874	-3	-1	
Lansing	4219	-959	4214	-954	4216	-952	-7	-2	4213	-960	1	6	
Stark	4438	-1178	4432	-1172	4436	-1172	-6	0	4428	-1175	-3	3	
BKC	4490	-1230	4486	-1226	4490	-1226	-4	0	4483	-1230	0	4	
Pawnee	4616	-1356	4613	-1353	4612	-1348	-8	-5	4605	-1352	-4	-1	
Cherokee	4697	-1437	4696	-1436	4696	-1432	-5	-4	4690	-1437	0	1	
Total Depth	4785	-1525	4783	-1523	4845	-1581	56	58	4833	-1580	55	57	

			est #1 - Pawii						
		DRILL STEM T	EST REPC	RT					
ESTING, IN		Murfin Drilling Co., Inc.		16-1S-37\	16-1S-37W				
		250 N. Water STE 300	Patricia #	Patricia #1-16					
		Michita Ks. 67202	Job Ticket:	Job Ticket: 55166					
	υ,	ATTN: Keith Reavis		Test Start:	Test Start: 2014.02.07 @ 13:18:00				
GENERAL INFORMA	TION:								
Formation: Pawn	ee								
Deviated: No	Whipstock:	ft (KB)		Test Type:	Conventior	nal Bottom Hol	e (Initial)		
Time Tool Opened: 19:16:	15			Tester:	Royal Fish	er			
Time Test Ended: 01:33:	00			Unit No:	#54				
Interval: 4594.001	t(KB)To 4640	.00 ft (KB) (TVD)		Reference	Bevations:	3260.00	ft (KB)		
Total Depth: 4640	.00 ft (KB) (TVD)					3247.00	ft (CF)		
Hole Diameter: 7	.88 inchesHole C	ondition: Good		K	B to GR/CF:	13.00	ft		
Serial #: 8879									
Press@RunDepth:	26.04 psig @	ft (KB)		Capacity:		8000.00	psig		
Start Date:	2014.02.07	End Date:	2014.02.08	Last Calib .:		2014.02.08			
Start Time:	13:18:05	End Time:	01:33:00	Time On Btm:	2014.02.07	7 @ 19:16:00			
				Time Off Btm:	2014.02.07	@ 22:21:30			

## TEST COMMENT: 30 - IF - No Surface blow

60 - ISI - No Return

30 - FF - No Surface blow

60 - FSI - No Return









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