**OPERATOR** 

Falcon Exploration, Inc. Company: Address: 125 N. Market

Suite 1252 Wichita, KS 67202

Contact Geologist: Brian Fisher Contact Phone Nbr: 316-262-1378

Well Name: Ward #1-31 (SE) Sec. 31 - T28S - R30W Location:

API: 15-069-20402-0000 Wildcat Pool: Field: USA State: Kansas Country:

Scale 1:240 Imperial

Well Name: Ward #1-31 (SE) Sec. 31 - T28S - R30W Surface Location:

**Bottom Location:** 

API:

15-069-20402-0000 License Number: 5316

10/16/2012 Spud Date: **Gray County** Region:

**Drilling Completed:** 10/25/2012 Surface Coordinates: 2445' FSL & 1370' FEL

**Bottom Hole Coordinates:** 

Ground Elevation:

2808.00ft K.B. Elevation: 2821.00ft

> N/S Co-ord: E/W Co-ord:

> > Company:

Logged Interval: 3400.00ft Total Depth: 5485.00ft

Formation: Morrow/Mississippian Drilling Fluid Type: Chemical/Fresh Water Gel

00:00

10:30

5485.00ft

Time:

Time:

To:

Latitude:

**SURFACE CO-ORDINATES** 

#### 2445' FSL 1370' FEL

Vertical Well Type: Longitude:

**LOGGED BY** 

# Keith Reavis Consulting Geologist

Keith Reavis, Inc.

Address: 3420 22nd Street Great Bend, KS 67530 620-617-4091 Phone Nbr:

Logged By: KLG #136 Name: Keith Reavis

CONTRACTOR

Sterling Drilling Company Contractor: Rig #: Rig #5

Rig Type: mud rotary Spud Date: 10/16/2012

Time: 00:00 TD Date: 10/25/2012 Time: 10:30 Rig Release: Time:

**ELEVATIONS** 

K.B. Elevation: 2821.00ft Ground Elevation: 2808.00ft K.B. to Ground: 13.00ft

#### **NOTES**

Due to negative drill stem tests, it was determined that the Ward #1-31 be plugged and abandoned as a dry test.

A Tooke Daq gas detection system operated by Sterling Drilling was employed on this well. ROP and gas data were imported into this mudlog. The caliper and gamma ray were also imported from the electrical log data. Sample formation picks were generally within 2-4 ft. of actual electrical log tops, these curves were not 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

7:00 AM DEPTH

# Falcon Exploration, Inc daily drilling report

REMARKS

10/20/2012		Geologist Keith Reavis on location @ 1700 hrs, 3505 ft., drilling ahead Stotler, Tarkio
10/21/2012	4135	drilling Topeka, Lecompton, Tooke Daq computer crashed, pull up, circ, wait on replacement computer, resume drilling 0935 hrs, drill Douglas, Lansing
10/22/2012	5064	drilling base KC, Marmaton, Pawnee, Cherokee, bit trip @ 5064', 0630 hrs, out with PDC, in with button, ctch, resume drlg., Cherokee, Morrow
10/23/2012	5235	drilling Morrow, Chester, stop, TOH for DST #1, conduct and complete DST #1, successful test, out w/tools TIH w/bit, ctch, resume drilling
10/24/2012	5359	drilling St. Gen, St. Louis, show in St. Louis warrants test, ctch, TOH w/bit in w/tools, conducting DST #2
10/25/2012	5449	complete DST #2, TIH w/bit, rathole ahead to TD of 5485 @ 1030 hrs conduct and complete logging operations, geologist released 2050 hrs

## Falcon Exploration, Inc. well comparison sheet DRILLING WELL COMPARISON WELL

	1	Ward #1-	31 (SE)		James Koehn No. 1-31 (NW) 2310' FNL & 1670' FWL Sec 31-T28S-R30W				Sherlyn Koehn No. 1-31 (SW) 1700' FSL and 2000' FWL Sec 31-T28S-R30W			
	24	45' FSL &	1370' F	EL								
	1	Sec 31-T	28S-R30W									
	1			Structural			1		Structural			
	2821	KB			2842	Relati	Relationship		2842 KB		Relationship	
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log	Log	Sub-Sea	Sample	Log
Stotler	3536	-715	3534	-713	3542	-700	-15	-13	3544	-702	-13	-11
Tarkio	3602	-781	3602	-781	3609	-767	-14	-14	3611	-769	-12	-12
Topeka	3804	-983	3804	-983	3813	-971	-12	-12	3817	-975	-8	-8
Heebner	4140	-1319	4140	-1319	4148	-1306	-13	-13	4154	-1312	-7	-7
Douglas	4181	-1360	4178	-1357	4189	-1347	-13	-10	4197	-1355	-5	-2
Lansing	4249	-1428	4249	-1428	4260	-1418	-10	-10	4264	-1422	-6	-6
Stark	4629	-1808	4628	-1807	4648	-1806	-2	-1	4654	-1812	4	5
Marmaton	4770	-1949	4764	-1943	4776	-1934	-15	-9	4776	-1934	-15	-9
Pawnee	4875	-2054	4768	-1947	4875	-2033	-21	86	4888	-2046	-8	99
Cherokee	4912	-2091	4909	-2088	4915	-2073	-18	-15	4926	-2084	-7	-4
Morrow	5136	-2315	5131	-2310	5135	-2293	-22	-17	5148	-2306	-9	-4
Morrow Sand	5169	-2348	5168	-2347	5159	-2317	-31	-30	5172	-2330	-18	-17
Chester	5238	-2417	5231	-2410	5216	-2374	-43	-36	5237	-2395	-22	-15
St. Gen	5272	-2451	5270	-2449	5296	-2454	3	5	5306	-2464	13	15
St. Louis por	5386	-2565	5384	-2563	5402	-2560	-5	-3	5425	-2583	18	20
Total Depth	5485	-2664	5484	-2663	5549	-2707	43	44	5519	-2677	13	14

### DIAMOND TESTING P.O. Box 157

HOISINGTON, KANSAS 67544

(800) 542-7313

**DST #1** 



**DRILL-STEM TEST TICKET** FILE: WARD1-31SEDST1 Lease & Well No. WARD #1-31 (SE)

TIME ON: 08:41

TIME OFF: 16:56

COMPARISON WELL

Contractor ST	FERLING D	RILLING (	co. Rig	#5		Charge to FALC	CON EXPL	ORATION, IN	IC.			
Elevation 2821 KB		Form	ation		MORROW Effective Pay				Ft. Ticke	t No	T113	
Date 10-2	23-12 Sec.	31	Twp		28 S	Range	30 W (	County	GRAY	State_	KANSAS	
Test Approved E	By KEITH RE	AVIS				Diamond Represe	ntative	TIMO	THY T. V	/ENTERS		
Formation Tes	st No	1	nterval Te	ested from_		5134 ft. to	523	5 <sub>ft.</sub> Total D	Depth		5235 ft.	
Packer Depth		5129 <sub>ft</sub>	Size	6 3/4	in.	Packer depth			ft. Size_	6 3/4	in.	
Packer Depth		5134 <sub>ft</sub>	Size	6 3/4	in.	Packer depth			ft. Size_	6 3/4	in.	
Depth of Selec	ctive Zone Set											
Top Recorder	Depth (Inside	)			5115 <sub>ft.</sub>	Recorder Number	er	8457 C	ар	10,00	0 P.S.I.	
Bottom Recorder Depth (Outside		tside)	52		5232 ft.	Recorder Numb	Recorder Number 110		030 Cap		5,025 P.S.I.	
Below Straddle	e Recorder De	epth			ft.	Recorder Number	er		ар		_ P.S.I.	
Mud Type	CHEMICA	L_ Viscosi	ity	55		Drill Collar Lengt	th	331 ft.	I.D.	2 1/	4in.	
Weight	9.2	Water Los	s	6.4		cc. Weight Pipe Ler	ngth	O ft	. I.D	2 7/	8 in	
Chlorides				2,400	P.P.M.	Drill Pipe Length	1	4770 ft	I.D	3 1/	2 in	
Jars: Make	STERLING	Serial N	umber	4	4	_ Test Tool Length	h	33 ft.	Tool Si	ze 3 1/	2-IF in	
Did Well Flow?	?N	IO Re	versed Ou	ıt	NO	_ Anchor Length_		37 ft	. Size _	4 1/	2-FHin	
Main Hole Size	e_ 7 7/8	Too	ol Joint Siz	ze_ 4 1/2	2 XH_in	Surface Choke S	Size	1in	Botton	Choke Siz	ze_ 5/8 _in	
Blow: 1st Ope	en:WEAK	SURFAC	CE BLC	DW, BU	ILIDIN	G TO 1/4 INC	H.		(	(NOBB)		
2nd Ope	en:VERY V	VEAK SU	JRFACI	E BLOW	/ THRO	UGHOUT PER	RIOD.		(	(NOBB)		
Recovered	30 ft. of	MUD					meri .	60.	1	8		
Recovered	ft. of	72.4						···· †	Temp + HELD	VI		
						0	200			1	100	
							1	1			7/	
	ft. of					11	- 1	/	p+4768	1	, a	
							\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	protein .	1-11			
Remarks:								4+W.M	2+30M p=1		**	
222 277 2 3032	41 <u>20 - 1422 20100</u>											
TOOL SAMP	LE: 100% M	UD					15 mm ***	100	tim tim	90 00	No.	

(B)

(D)

(E)

(G)

(H)

Time Started Off Bottom

90

40

40

1:50 PM

P.M.

2481 P.S.I.

374 P.S.I.

48 P.S.I.

2478 P.S.I.

12 P.S.I. to (C)\_

23 P.S.I. to (F)

**DST #2** DIAMOND TESTING P.O. Box 157

Minutes

Minutes

Minutes

10:55 AM

Time Set Packer(s)

Initial Flow Period...

Final Flow Period...

Initial Closed In Period...

Final Closed In Period.

Final Hydrostatic Pressure.

Initial Hydrostatic Pressure.

TIME ON: 16:16 10-24-12

Maximum Temperature \_

118 deg.

17 P.S.I.

30 <sub>P.S.I.</sub>









