	OPERATOR							
Company: Address: Contact Geologist: Contact Phone Nbr: Well Name: Location: Pool: State:	Falcon Exploration, Inc. 125 N. Market Suite 1252 Wichita, KS 67202 Brian Fisher 316-262-1378 Michael Esau #1-22 (SE) Sec. 22 - T28S - R30W Kansas	API: Field: Country:	15-069-20369-0000 Wildcat USA					
	0 1 4 9 4 9 1 9 1							
	Scale 1:240 Imperial							
Surface Location: Bottom Location: API: License Number: Spud Date: Region: Drilling Completed: Surface Coordinates: Bottom Hole Coordinates: Ground Elevation: K.B. Elevation:	Sec. 22 - T28S - R30W 15-069-20369-0000 5316 4/9/2012 Gray County 4/16/2012 977' FSL & 1857' FEL 2772.00ft 2785.00ft	Time: Time:	00:00 16:35					
Logged Interval: Total Depth: Formation: Drilling Fluid Type:	2600.00ft 4325.00ft Stotler - Lansing Chemical/Fresh Water Gel	10:	4325.00ft					
		s						
Well Type: Longitude: N/S Co-ord: E/W Co-ord:	Vertical 977' FSL 1857' FEL	Latitude:						
LOGGED BY								
	LOGGED BY							
	LOGGED BY <b>Keith Reavis</b> Consulting Geologist							
Company: Address:	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530							
Company: Address: Phone Nbr: Logged By:	LOGGED BY Keith Reavis Consulting Geologist Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 KLG #136	Name:	Keith Reavis					
Company: Address: Phone Nbr: Logged By:	LOGGED BY Keith Reavis Consulting Geologist Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 KLG #136 CONTRACTOR	Name:	Keith Reavis					
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release:	LOGGED BY Keith Reavis <i>Consulting Geologist</i> Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 KLG #136 CONTRACTOR Sterling Drilling Company 5 mud rotary 4/9/2012 4/16/2012	Name: Time: Time: Time: Time:	Keith Reavis 00:00 16:35					
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release:	LOGGED BY Keith Reavis Consulting Geologist Consulting Geologist Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 KLG #136 CONTRACTOR Sterling Drilling Company 5 mud rotary 4/9/2012 4/16/2012 ELEVATIONS	Name: Time: Time: Time: Time:	Keith Reavis 00:00 16:35					
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground:	LOGGED BY Keith Reavis Consulting Geologist Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 KLG #136 CONTRACTOR Sterling Drilling Company 5 mud rotary 4/9/2012 4/16/2012 ELEVATIONS 2785.00ft Ground 13.00ft	Name: Time: Time: Time: Elevation:	Keith Reavis 00:00 16:35 2772.00ft					
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground: A Tooke Daq gas detection system were imported into this geological	LOGGED BY Keith Reavis Consulting Geologist Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 KLG #136 CONTRACTOR Sterling Drilling Company 5 mud rotary 4/9/2012 4/16/2012 ELEVATIONS 2785.00ft 13.00ft NOTES n owned by Sterling Drilling Company report.	Name: Time: Time: Time: Elevation: y was emplo	Keith Reavis         00:00         16:35         2772.00ft         oyed on this well. ROP and gas data					
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground: A Tooke Daq gas detection system were imported into this geological Due to positive results of DST #1 the Stotler be further tested throu	LOGGED BY	Name: Time: Time: Time: Elevation: y was emplo	Keith Reavis         00:00         16:35         2772.00ft         oyed on this well. ROP and gas data         t 5 1/2" production casing be set and					
Company: Address: Phone Nbr: Logged By: Contractor: Rig #: Rig Type: Spud Date: TD Date: TD Date: Rig Release: K.B. Elevation: K.B. to Ground: A Tooke Daq gas detection system were imported into this geological Due to positive results of DST #1 the Stotler be further tested throu Samples were saved and will be a Wichita, KS. Respectfully submitted,	LOGGED BY Keith Reavis, Inc. 3420 22nd Street Great Bend, KS 67530 620-617-4091 KLG #136 CONTRACTOR Sterling Drilling Company 5 mud rotary 4/9/2012 4/16/2012 ELEVATIONS 2785.00ft Ground 13.00ft Ground 13.00ft NOTES n owned by Sterling Drilling Company report. and electrical log analysis, it was deter gh perforations and stimulation. available for review at the Kansas Ge	Name: Time: Time: Time: Elevation: y was emplo ermined tha	Keith Reavis         00:00         16:35         2772.00ft         oyed on this well. ROP and gas data         t 5 1/2" production casing be set and         vey Well Sample Library located in					

# Falcon Exploration, Inc.

DAILY DRILLING REPORT

DATE	7:00 AM DEPTH	REMARKS
4/12/2012		Geologist Keith Reavis on location @ 2005 hrs, 2491 ft. drilling ahead permian redbeds
4/13/2012	2808	drilling ahead, Chase Group, Fort Riley, Cottonwood, Neva
4/14/2012	3439	drilling ahead, Foraker, Stotler, gas kick and show warrant DST, short trip, TOH w/bit and in with tools, conducting DST #1
4/15/2012	3614	complete DST #1, successful test, back on bottom with bit, drilling ahead Tarkio, Bern, Topeka, Lecompton
4/16/2012	4165	drilling ahead, Lecompton, Heebner, Toronto, Douglas, Lansing, TD @ 4325 short trip, TOH, conduct logging operations
4/17/2012	4325	complete logging operations, geologist released and off location 0400 hrs

	Fa	lcor	n Ex	<b>plo</b>	rati	on,	Inc	1 7 m		
		WEL	LCOM	PARISC	ON SHE	ET				
		DRILLING W	/ELL			COMPARI	SON WELL	-		
		Esau #1-22			Fry #1-23					
		977' FSL & 1	857' FEL		850' FNL & 1850' FWL					
		Sec. 22 T285	5 R30W		Sec. 23 T28S R30W					
							Struct	tural		
	2785	KB			2801	KB	Relatio	onship		
ation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Lo		
	2639	146	2634	151	2633	168	-22	-1		
eld	2710	75	2707	78	2707	94	-19	-1		
nda	2760	25	2755	30	2754	47	-22	-1		

							Structural	
	2785	КВ			2801	KB	Relatio	nship
Formation	Sample	Sub-Sea	Log	Sub-Sea	Log	Sub-Sea	Sample	Log
Chase	2639	146	2634	151	2633	168	-22	-17
Winfield	2710	75	2707	78	2707	94	-19	-16
Towanda	2760	25	2755	30	2754	47	-22	-17
Ft. Riley	2809	-24	2807	-22	2802	-1	-23	-21
Cottonwood	3079	-294	3075	-290	3063	-262	-32	-28
Neva	3135	-350	3130	-345	3122	-321	-29	-24
Foraker	3247	-462	3241	-456	3234	-433	-29	-23
Stotler	3483	<b>-69</b> 8	3480	-695	3466	-665	-33	-30
Topeka	3752	-967	3751	-966	3739	-938	-29	-28
Lecompton	3950	-1165	3947	-1162	3920	-1119	-46	-43
Heebner	4109	-1324	4106	-1321	4086	-1285	-39	-36
Lansing	4215	-1430	4216	-1431	4185	-1384	-46	-47
Stark	np		8		4538	-1737		
Marmaton	np		9 9		4691	-1890		
Pawnee	np		2		4778	-1977		
Cherokee	np				4823	-2022		
Morrow	np		4 5		5018	-2217		
Miss St. Gen.	np				5074	-2273		
St. Louis A por	np				5196	-2395		
Warsaw	np		-		5542	-2741		
Osage	np				5830	-3029		
Viola	np				6074	-3273		
Total Depth	4325	-1540	4324	-1539	6151	-3350	1810	1811



DIAMOND TESTING P.O. Box 157 HOISINGTON, KANSAS 67544 (800) 542-7313

TIME ON: 14:52 4-14-12

TIME OFF: 00:20 4-15-12

DRILL-STEM TEST TICKET FILE: MICHAELESAU122SEDST1 V Company FALCON EXPLORATION, INC. Lease & Well No. MICHAEL ESAU #1-22 (SE) Contractor STERLING DRILLING CO. RIG #5 \_ Charge to FALCON EXPLORATION, INC. 2785 KB Formation STOTLER Effective Pay\_ \_\_\_\_\_Ft. Ticket No.\_\_\_\_\_\_T041 Elevation\_\_\_\_ 22 30 W County GRAY State KANSAS Date 4-14-12 28 S Range Sec.\_\_\_\_ Twp.

Test Approved By	KEITH RE	AVIS				_ Diamond Representative	9	TIMOT	HY T. VI	ENTERS	1	
Formation Test	No	1Ir	nterval Teste	d from	3	453 <sub>ft. to</sub>	3521 <sub>ft.</sub>	Total De	pth		3521	ft.
Packer Depth_		3448 <sub>ft.</sub>	Size6	3/4	in.	Packer depth		ft.	Size	6 3/4	in.	
Packer Depth		3453 <sub>ft.</sub>	Size 6	3/4	in.	Packer depth		ft.	Size	6 3/4	in.	
Depth of Select	ive Zone Se	t										
Top Recorder D	epth (Inside	e)		343	34 <sub>ft.</sub>	Recorder Number		8457 Ca	0	10,00	<u>0</u> P.S.I.	
Bottom Recorde	er Depth (Ou	utside)		351	18 <sub>ft.</sub>	Recorder Number		11029_ <sub>Ca</sub>	ip	5,02	5 P.S.I.	
Below Straddle	Recorder D	epth			_ft.	Recorder Number		Ca	0		P.S.I.	
Mud Type	CHEMICA	L_Viscosit	y	50		Drill Collar Length		331_ft.	I.D	2 1/	4	in.
Weight	8.95	Water Loss	i	8.8	cc	. Weight Pipe Length_		0_ <sub>ft.</sub>	I.D	2 7/	8	_ in
Chlorides				2,100 <sub>P.</sub>	P.M.	Drill Pipe Length		3089 <sub>ft.</sub>	I.D	3 1/	2	_ in
Jars: Make	STERLING	Serial Nu	mber	4		Test Tool Length		33 <sub>ft.</sub>	Tool Size	e3 1/	2-IF	_ in
Did Well Flow?_	1	NO Rev	ersed Out_	NC	D	Anchor Length		36 <sub>ft.</sub>	Size	4 1/	2-FH	_ ir
Main Hole Size_	7 7/8	Тоо	I Joint Size_	4 1/2 🕽	KH_in.	32' DP IN ANCHOR Surface Choke Size_	1	in.	Bottom	Choke Siz	ze_ 5/8	in
Blow: 1st Open	GOOD	2 1/2 INC	CH BLOV	N, BUIL		A, REACHING B	OB 45	SEC.		(NOBE	3)	
2nd Oper	··VERY S	STRONG	BLOW HI	TTING	вов	INSTANTANEOU	SLY.			(NOBB	6)	
Recovered	3310 ft. of	GAS IN PIPI	E									
Recovered	210 ft. of	MUD										
Recovered	ft. of											_
Recovered	ft. of											_
Recovered	ft. of							Pric	e Job			
Recovered	ft. of							Othe	er Charge	S		

TOOL SAMPLE: 4% (	DIL, 96% MUD							Total	
Time Set Packer(s)	5:04 PM	A.M. P.M.	Time Started	d Off Bott	om	10:09 PM	A.M. P.M.	Maximum Tempe	erature _ 109 deg.
Initial Hydrostatic Press	ure				(A)_		1586 <sub>P</sub>	.S.I.	
Initial Flow Period		Minut	tes	5	_(B)_		29 <sub>P</sub>	.S.I. to (C)	49 P.S.I.
Initial Closed In Period.		Minu	tes	90	(D)_		915 <sub>P</sub>	.S.I.	
Final Flow Period		Minu	tes	90	_(E)_		48 P.	.S.I. to (F)	82 P.S.I.
Final Closed In Period.		Minut	tes	120	_(G)_		890 P.	.S.I.	
Final Hydrostatic Press	ure				(H)		1583 <sub>P.</sub>	S.I.	





Time O'Clock	Orifice Size	Gauge	CF/D
	in.	in.	
	io.	in.	
	in.	in.	
	in.	in.	
	in.	in.	

FINAL FLOW PSI

Time O'Clock	Orifice Size	Gauge	CF/D
10	1/2 in.	5.5 in.	81,800
20	1/2 in.	8 <sub>in.</sub>	101,000
30	1/2 <sub>in.</sub>	9.5 in.	112,000
40	1/2 in.	10.5 <sub>in.</sub>	118,500
*50	1/2 in.	11.5 <sub>in.</sub>	125,000
60	1/2 <sub>in.</sub>	12 <sub>in.</sub>	129,000
70	1/2 <sub>in.</sub>	12.5 <sub>in.</sub>	131,500
80	1/2 in.	13 in.	134,000
90	1/2 <sub>in.</sub>	13 <sub>in,</sub>	134,000
	in.	in.	

\* TOOK SAMPLE



ACCESSORIES								
MINERAL → Argillaceous ▲ Chert, dark → Dolomitic つ Glauconite ★ Mineral Crystals P Pyrite △ Chert White	<ul> <li>FOSSIL</li> <li>∩ Bioclastic or Fragmental</li> <li>F Fossils &lt; 20%</li> <li>♦ Oolite</li> <li>Ø Pellets</li> <li>♦ Oomoldic</li> </ul>	STRINGER     TEXTURE       Shale     C       Green shale     L       red shale     L       carb shale						
		OTHER SYMBOLS						
MISC Daily Report Digital Photo Document Folder Link Vertical Log File Horizontal Log File Core Log File Drill Cuttings Rpt	DST Int DST alt Core It tail pipe							
		Printed by GEOstrin VC Strinl	og version 4 0 7 0 (www.grsi.ca)					
Curve Track #1 ROP (min/ft) Gamma (API) Cal (in) 1:240 Imperial	DST Interval Depth   Intervals	Geological Descriptions	TG, C1 - C5 Total Gas (units) C1 (units) C2 (units) C3 (units) C4 (units) 1:240 Imperial					
0 COP (min/ft) 0 Calinga (API) 1 6 Calinga (API) 1 6 Calinga (API) 1	<b>5</b> <b>50</b> <b>16</b> 2560	Elevation 2785' KB Surface Pipe set @ 1883' KB log meas	D         Total Gas (units)         100           C1 (units)         100           O         C2 (units)         100           O         C3 (units)         100           O         C3 (units)         100           O         C4 (units)         100           O         C4 (units)         100           O         C4 (units)         100           O         C4 (units)         100					
0 Cainina (API) 1 6 Cainina (API) 1	2580 50 50	begin samples @ 2600'	D         Total Gas (units)         100           C1 (units)         100           C2 (units)         100           C3 (units)         100           C3 (units)         100           C3 (units)         100					

samples very fine, dolomite, gray, microcrystalline, mostly dense, no visible porosity or shows, no fluoresence, abundant red shale and anhydrite

Chase Group 2639 +146

shale, gray to light gray, microcrystalline, poor visible porosity, fine samples, dense to soft, no shows, no fluoresence

as above with some white and gray mottled dolomite, very fine samples, no shows or fluoresence





2620

2640

2660

2680

### Winfield 2710 +75

very fine samples, dolomite, variable gray, microcrystalline, some soft, some mottled, some slightly fossiliferous, poor visible porosity, no shows, some very faint mineral fluoresence

# Towanda 2760 +25

poor samples, very fine, dolomite, variable gray, microcrystalline, no visible porosity or shows, abundant shale and anhydrite





#### Fort Riley 2809 -24

very fine samples - dolomite, gray, microcrystalline, mottled, fossiliferous, soft to dense, no visible porosity, no shows or fluoresence

limestone, white to cream, slightly chalky and fossiliferous, with dolomitic limestone, gray, microcrystalline, mottled fossiliferous, no visible porosity or shows, no fluoresence, with: chert, gray fossiliferous, and dolomite as above, poor fine samples

flood red and gray shale

poor samples, mostly shale, with limestone, white to light gray, some mottled, fossiliferous, some small pieces gray mottled fossiliferous chert, some dolomites as above

limestone as above, some bioclastic, no shows

shale and limestone, poor samples, limestone is white to gray, fossiliferous to bioclastic, poor visible porosity, some scattered white fluoresence, no visible shows



poor samples, as above, some white crystalline dolomite

poor samples, abundant shales, some white chalky and light gray limestones, small specimens, no shows

#### Cottonwood 3079 -294

limestone, white to light gray, mottled bioclastic to oolitic and some pelletal, some pinpoint porosity, small specimens, no visible mold development, no shows, even faint green mineral fluoresence

poor samples, very shaley, some mixed white to gray fossiliferous limestones, no shows, faint fluoresence

Neva 3135 -350

poor samples, abundant shales, with: limestones, mixed white to gray, microcrystalline, fossiliferous, small specimens, poor visible porosity, no shows, some faint fluoresence

limestone, white, cryptocrystalline, chalky, some bioclastic/fossiliferous, trace interclast porosity, fair white fluoresence, no show gas

poor samples, abundant shales, mixed fine limestones

samples improve, limestone, cream to gray, fossiliferous to oolitic, abundant chalk in samples, no shows

### Foraker 3247 -462

limestone, cream, bioclastic to oolitic, poor visible porosity, chalky, no shows, abundant chalk in samples, some pale green fluoresence

limestone, cream to gray, microcrystalline, fossiliferous to oolitic, dense to chalky, abundant chalk, no shows, some pale green fluoresence

limestone as above, increased oolitic, moderate chalk, no shows

limestone, gray, microcrystalline, dense, fossilifeorus, with chert, gray fossiliferous and gray limey shales

limestone, mixed gray fossiliferous, some mottled, very weathered, with limestone, cream, chalky fossiliferous, scattered gray mottled fossiliferous cherts, some chalk, no shows

as above, grading to mostly darker gray limestones, some gray microcrystalline lithographic, abundant gray shales

limestone, cream to gray, bioclastic, very small poor samples, poor visible porosity, no shows, some scattered cream cryptocrystalline lithographic, dense, with bright white fluoresence



displace mud system @ 3200'

0

100

10

otal Gas (units)

C2 (units)

-C3 (units)



limestone, mixed cream to gray, fossiliferous to bioclastic, some pelletal, small samples, with abundant limestone, gray, cryptocrystalline to microcrystalline lithographic, abundant gray shales, poor overall visible porosity, some cherts, no shows

limestone, cream, very fossiliferous to bioclastic, chalky in part, poor visible porosity, no shows

red, gray and green shales

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DST #1 3453-3521 - 5-90-90-120 - recovered 210 ft mud - GTS 1 1/2 min into 2nd flow, GA 81,000 cfd to 134,000 cfd in 90 min, FP's 29-49# & 48-82#, SIP's 915-890#, HSH 1586-183#, BHT 109 deg. F

#### Stotler 3483 -698

limestone, cream to light gray, mixed fossiliferous, some scattered oolitic, mostly dense with poor visible porosity, no shows, some scattered very faint fluoresence, no shows

MICHAELESAU122SEDST1all.pdf

limestone, cream, chalky bioclastic, some pin-point porosity, fairly dense, slow bleeding gas bubbles on break, no odor, fair greenish-white fluoresence

deviation survey 1.5 deg.

lots of trip trash in samples, limestones, mixed cream to gray and brown, fossiliferous, with abundant shales, some pyrite

#### Tarkio

limestone, cream to light gray, microcrystalline, fossiliferous, chalky but dense, glauconitic in part, poor visible porosity, faint even bluish-white fluoresence, no shows

limestone, light gray, grainy bioclastic to fossiliferous, chalky, some interclast pinpoint porosity, abundant chalk, no shows

limestone, brown mottled fossilifeorus, some gray/green argillaceous, with gray pelletal, no shows

limestone, light gray, cryptocrystalline, dense lithographic, with light gray cryptocrystalline fossiliferous, moderate chalk in samples



#### Bern

limestone, light gray, oolitic and fossiliferous, poor visible porosity, glauconitic in part, no shows

grading to limestone, mixed dark gray grainy fossiliferous, brown mottled fossiliferous, cream microcrystalline lithographic to fossiliferous

as above, influx limey gray shales

limestone, light gray, microcrystalline, fossiliferous, dense, some secondary calcite and large clast, cherty in part, moderate chalk in samples, no shows

limestones as above, some darker gray fossiliferous limestones, still carrying moderate chalk

#### Topeka 3752 -967

limestone, cream to gray and tan, chalky fossiliferous to bioclastic, some light gray fossiliferous cherts, abundant chalk, no shows or fluoresence

as above

limestone as above, decrease in chalk and chert

limestone, cream to light gray, fine oolitic to grainy bioclastic, poor visible porosity, with: limestone, gray to tan, microcrystalline, dense fossiliferous, abundant chalk, no shows

limestone, cream to light gray, oomoldic, some fair oomold porosity, even pale green fluoresence, no shows, abundant chalk

limestone, cream to light gray, mixed chalky fossilifeorus to cryptocrystalline chalky lithographic, still abundant chalk, no shows

limestone, cream to gray, mixed fossiliferous to cryptocrystalline lithographic, some sub-sucrosic, moderate chalk, poor visible porosity, no shows, some faint fluoresence - some scattered white fossiliferous cherts

shale, gray to brown, silty to fossiliferous

#### Lecompton 3950 -1165

limestone, light gray, microcrystalline, fossiliferous to arenaceous, some weathered, with limestone, blue-gray, cryptocrystalline, slightly fossiliferous to lithographic, dense, no shows

limestone, cream to white and blue-gray, microcrystalline, fossiliferous, some large secondary calcite crystals, some scattered intercrystalline and interclast porosity, no shows, some pale green mineral fluoresence, flood chalk



as above, abundant chalk

F

mixed chalky fossiliferous as above, abundant chalk, no shows, some scattered fluoresence

as above

F

C

F

C F

F

F

limestone, cream to gray, microcrystalline, chalky fossiliferous to bioclastic, abundant chalk, chert, white fossiliferous to dark gray, some dark gray to black dense limey shales, no shows

Heebner 4109 -1324

shale, black carbonaceous

#### Toronto

limestone, cream to light gray, bioclastic, grainy, chalky, poor visible porosity, with limestone, gray, microcrystalline, lithographic to arenaceous, dense, abundant chalk in samples, no shows, faint green to bluish-white mineral fluoresence, no shows

Douglas 4149 -1364

shale, gray to gray green, silty, some dense and limey

limestone, gray to light gray, micro-cryptocrystalline, fossiliferous to arenaceous, some lithographic, fairly dense, poor visible porosity, no shows, abundant chalk in samples

# Lansing 4215 -1430

limestone, white to light gray, microcrystalline, chalky fossiliferous to sucrosic crystalline, some cryptocrystalline lithographic, white to light gray fossiliferous chert, abundant chalk, fairly even faint greenish yellow fluoresence, no noted shows



