		•										
Scale 1:240 Imperial												
Well Name: Surface Location: Bottom Location:	MP 1-23 980' FNL, 1754' FWL, Sec	. 23-18S-14W										
API: License Number: Spud Date: Region:	15-009-26139-0000 2/22/2016 Barton County	Time:	7:45 PM									
Drilling Completed: Surface Coordinates: Bottom Hole Coordinates:	2/26/2016	Time:	10:25 PM									
Ground Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type:	1906.00ft 1917.00ft 2800.00ft 3520.00ft Penn Sand/Chert Chemical/Fresh Water Gel	To:	3500.00ft									
	OPERATOR	1										
Company: Address:	Shelby Resources, LLC 621 17th St, Suite 1155 Denver, CO 80293											
Contact Geologist: Contact Phone Nbr: Well Name: Location: API:	Janine Sturdavant 303-907-2209 / 720-274-46 MP 1-23 980' FNL, 1754' FWL, Sec 15-009-26139-0000											
Pool: State:	Kansas	Field: Country:	Laud USA									
	LOGGED BY	(
Company: Address:	Shelby Resources, LLC 621 17th St. Suite 1155 Denver, CO 80293											
Phone Nbr: Logged By:	203-671-6034 Geologist	Name:	Jeremy Schwartz									

NOTES

The Shelby Resources, LLC MP #1-23 was drilled to a total depth of 3520', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

1 DST was conducted in the Penn Conglomerate. The DST Report can be found at the bottom of this log.

Due to negative DST Results, lack of sample shows, gas kicks, and log analysis it was determined by all parties involved that the well be plugged and abandoned. The dry samples were saved and will be available for furthur review at the Kansas Geological Society Well Sample Library, located in Wichita, KS.

Respectfully Submitted, Jeremy Schwartz Geologist

CONTRACTOR

Contractor: Sterling Drilling Co Rig #: 4

Rig Type:	mud rotary
Spud Date:	2/22/2016
TD Date:	2/26/2016
Rig Release:	

Time: 7:45 PM Time: 10:25 PM Time:

ELEVATIONS

K.B. Elevation: 1917.00ft K.B. to Ground: 11.00ft Ground Elevation:

1906.00ft

DATE	DEPTH	ACTIVITY
Thursday, February 25, 2016	3000'	Geologist Jeremy Schwartz on location @ 0330hrs, 3000', Drlg ahead through Heebner,
	3165'	Toronto, Douglas Shale, Brown Lime, CFS @ 3165', Drop Survey, Strap Out,
		Conduct Bit Trip, Swap PDC for Button Bit, Successful Bit Trip, Resume Drlg ahead
	3390'	through LKC, LKC "G", Muncie Creek Shale, LKC "H", Stark Shale, LKC "K", CFS @ 3390'
Friday, February 26, 2016	3390'	Conduct DST #1 in the Penn Conglomerate, Successful Test, Resume Drlg ahead
	3433'	through Arbuckle, CFS @ 3422', Resume Drlg, CFS @ 3430', Resume Drlg, CFS @ 3433',
	3520'	Resume Drlg ahead to TD @ 3520', TD of 3520' reached @ 2225hrs, CTCH 1hr,
Saturday, February 27, 2016	3520'	Drop Survey, OOH for logs, Conduct Logging Operations, Logging Operations
		Complete @ 0545hrs, Geologist Jeremy Schwartz off location @ 0715hrs

						D	&A						0				
		WILKINSON DRILLING CO.								L.D. DRILLING, INC							
					LAUDICK #1 SW-NE-NW 23-18S-14W					SKOLAUT #1-24							
		MP #	‡1-23							SE-NW-SE-SW 14-185-14W							
	КВ		1917		КВ		1911				КВ	1918					
	LOG	TOPS	SAMPL	ETOPS	COM	P. CARD	LC	DG	SN	1PL.	COMP. CARD		LOG		SM	SMPL.	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CO	RR.	CC	RR.	DEPTH	DATUM	CORR.		CORR.		
ANHYDRITE TOP	849	1068	851	1066	845	1066	+	2	+	0	857	1061	+	7	+	5	
BASE	876	1041	880	1037	874	1037	+	4	+	0	882	1036	+	5	+	N.	
торека	2864	-947	2866	-949							2873	-955	+	8	+	1	
HEEBNER SHALE	3082	-1165	3082	-1165	3076	-1165	+	0	+	0	3088	-1170	+	5	+		
TORONTO	3093	-1176	3093	-1176	3088	-1177	+	1	+	1	3097	-1179	+	3	+	- 22	
DOUGLAS SHALE	3108	-1191	3109	-1192	3103	-1192	+	1	+	0	3112	-1194	+	3	+		
BROWN LIME	3160	-1243	3161	-1244	3154	-1243	+	0	1	1	3163	-1245	+	2	+		
LKC	3170	-1253	3170	-1253	3164	-1253	+	0	+	0	3172	-1254	+	1	+		
LKC G	3250	-1333	3250	-1333	3244	-1333	+	0	+	0	3244	-1326	-	7		- 3	
MUNCIE CREEK	3294	-1377	3296	-1379	3285	-1374	1920	3	1	5	3299	-1381	+	4	+	1	
LKC H	3302	-1385	3304	-1387	3294	-1383	1. 4 0	2	÷	4	3307	-1389	+	4	+		
STARK SHALE	3350	-1433	3354	-1437	3343	-1432		1	7.	5	3355	-1437	+	4	+		
LKC K	3354	-1437	3359	-1442	3348	-1437	+	0	- 7-	5	3359	-1441	+	4	-	ŝ	
BKC	3373	-1456	3374	-1457	3367	-1456	+	0	- 1	1	3378	-1460	+	4	+	1	
PENN SAND/CHERT	3373	-1456	3374	-1457	3367	-1456	+	0	÷	1	3378	-1460	+	4	+	1	
ARBUCKLE	3419	-1502	3417	-1500	3400	-1489	-	13	-	11	3410	-1492	1	10	-	1	
RTD	3520	-1603	3520	-1603	3456	-1545	-	58	4	58						Γ	
LTD	3520	-1603			3456	-1545	-	58			3415	-1497	-	106			





A A A A			Printed by GEOstrip VC Striplog	version 4.0.8.15 (www.grsi.ca)
Curve Track #1 ROP (min/ft)				TG, C1 - C5 Total Gas (units)
Gamma (API)	als			C1 (units)
Cal (in)	erva			C2 (units)
		Ab		
	Depth Intervals	Lithology		C3 (units)
		ST 🗄 ö	Geological Descriptions	C4 (units)
	Cored Interval DST Interval			
	d Inter Inter			
1:240 Imperial	Cored Interv DST Interval			1:240 Imperial
0 ROP (min/ft) 0 Gamma (API)	3		Logged By Jeremy Schwartz	0 Total Gas (units) 50
6 Cal (in)	150 16		Logged by Jereiny Schwartz	0 C2 (units) 50
	2810		LS, gray to cream, micro-xln, some fossiliferous, dense with poor visible	C3 (units) 50 C4 (units) 50
			porosity, no show or odor	
33	2820			
	2830		LS as above, no show or odor	
	2000			
	<u> </u>			
	2840			
	2850		LS, gray to cream, micro-xln, some fossiliferous, dense with poor visible porosity, no show or odor	
	2860			
			Topeka 2866 (-949)	
	2870		LS, gray to cream, micro-xln, some fossiliferous, dense with poor visible porosity, no show or odor	
	2880			
2				
	2890		LS as above, no show or odor	
	2900			
	2300			
			LS, cream with some scattered gray, micro-xln, dense with poor visible	
	2910		porosity, some scattered soft and chalky in part, fairly chalky, no show	
			or odor	
	2920			
	 		LS, cream with some scattered gray, micro-xln, some fossiliferous and dense with poor visible porosity, some soft and chalky in part, chalky, no	
	2930		show or odor	
Ving Litt				
King Hill			Shale, black carbonaceous	
	2940			
			LS, cream with some very scattered gray, micro-xln, some fossiliferous	
<u> </u>	2950		and dense with poor visible porosity, some soft and chalky in part, chalky no show or odor	



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LS, mostly same as above, with slight influx cream, crypto-xln, lithographic and dense with poor visible porosity, slightly less chalky, no show or odor

Shale, black carbonaceous

LS, cream, micro-xln, fossiliferous and dense with poor visible porosity, with some scattered crytpo-xln, lithographic and dense with poor visible porosity, slightly chalky, no show or odor

LS as above, no show or odor

LS, cream with some very scattered gray and brown, micro-xln, some fossiliferous, dense with poor visible porosity, no show or odor

LS as above, no show or odor

Heebner 3082 (-1165)

Shale, black carbonaceous

Toronto 3093 (-1176)

LS, cream to white, micro-xln, some fossiliferous and dense with poor visible porosity, some scattered soft and chalky in part, fairly chalky, no show or odor $% \left({\frac{1}{2}} \right) = 0$

Douglas Shale 3109 (-1192)

Shale, mostly gray with some scattered red, mostly soft and waxy with some blocky and dense

Shale as above, with slight influx red

Brown Lime 3161 (-1244)

LS, brown to gray, micro-xln, fossiliferous and dense with no visible porosity, no show or odor

Lansing 3170 (-1253)





LS, cream to tan with some scattered gray, some slightly fossiliferous, dense with poor visible porosity, no show or odor

LS, cream, micro-xln, mostly lithographic and dense with poor visible porosity, few very scattered chips with very slight poor edge pinpoint porosity, no show or odor

LS, cream with some scattered gray and very scattered brown, microxln, some lithographic, some fossiliferous, dense with poor visible porosity, no show or odor

LS, cream to gray, micro-xln, some lithographic, some fossiliferous, mostly dense with poor visible porosity, some very scattered with very scattered poor pinpoint porosity and very slight poor black stain in porosity only, few chips with slight inter-fossil staining and VSSFO upon break, chips with shows <10%, No fluor., poor odor

LS, cream to white, micro-xln, mostly lithographic and dense with poor visible porosity, some very scattered fossiliferous, few chips (<5%) with very slight poor edge pinpoint porosity and poor black stain in porosity only, trace oomoldic with poor visible oomold porosity, no fluor., or odor

LS, cream to white, micro-xln, some lithographic and dense with poor visible porosity, some sub-oolitic to sub-oomoldic with poor visible porosity, few chips (<5%) with very scattered poor black stain in several oomolds only, chalky, NSFO, no fluor., no odor

LS, mostly same as above, chalky, NSFO, no fluor., no odor

LS, cream, micro-xln, lithographic and dense with poor visible porosity, with influx gray and brown, mostly lithographic, some fossiliferous, very dense with no visible porosity, no show or odor

LS, brown to gray with some cream, micro-xln, mostly lithographic, few chips fossiliferous, very dense with no visible porosity, no show or odor

LS, mostly same as above, no show or odor

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D

LS, cream to gray with some scattered brown, micro-xln, lithographic and dense with poor visible porosity, found few small chips with some poor edge pinpoint porosity and wet black stain in porosity only, chips too dense to break, VSSFO when agitated, no fluor., poor fleeting odor

LS, cream with some scattered gray, micro-xln, mostly lithographic and dense with poor visible porosity, some very scattered fossiliferous (<10%) with some scattered inter-fossil staining, upon break SSFO, no fluor., or odor

LS, cream to gray and brown, micro-xln, lithographic and very dense with no visible porosity, no show or odor

LS, cream, micro-xln, lithographic and dense with poor visible porosity, some scattered (~20%) with few very small edge vugs and wet, tarry black to dead stain inside vugs only, no fluor, NSFO, no odor

LS, mostly same as above, few chips with some very scattered edge pinpoint to very slightly vuggy edges with wet, tarry black to dead stain inside porosity only, no fluor., NSFO, no odor

Penn Conglomerate Chert/SS 3374 (-1457)

LS, cream, micro-xln, lithographic and dense with poor visible porosity, barren, with influx maroon, red and gray shales as well as vari-colored red to orange and tan to opaque cherts, no show or odor

3390' 30" Mixed LS, shales, and vari-colored cherts, no visible porosity, no visible loose sand grains, no show, fluor., or odor





Shelby MP 1-23 dst1.jpg

-72		DRILL STEM TES									
(Ω)	RILOBITE	Shelby Resources LLC			23/18S/14W/Barton						
A	ESTING , INC.										
	,	2717 Canal Blvd Hays Kansas 67601		MP #1-23 Job Ticket: 65080 DST#:1							
NOV '		ATTN: Jeremy Schwartz	ATTN: Jeremy Schwartz			Test Start: 2016.02.26 @ 02:28:56					
GENERAL I	NFORMATION:										
Formation: Deviated: Time Tool Oper Time Test Ende		llom ft (KB)		Tes	ter: k	Con∨entiona Ken Sw inne 72 Great Bei		e (Initial)			
Interval: Total Depth: Hole Diameter:	3366.00 ft (KB) To 33 3390.00 ft (KB) (TV inchesHole			Reference Elevations: 1917.00 ft (KB) 1906.00 ft (CF) 1906.00 ft (CF) KB to GR/CF: 11.00 ft							
	A 1997 COLOR AND						, 1.00				
Serial #: 89 Press@RunDe Start Date: Start Time:	pth: 142.98 psig 2016.02.26 02:28:56	End Date: End Time:	2016.02.26 10:08:56	Capacity Last Calil Time On Time Off	o.: Btm: 2	2016.02.26 (2016.02.26 (2745	psig			
	Initial Shut In 60 r Final Flow 60 mir Final Shut In 120	nutes/Blow built to 11 inches minutes/Surface blow back died in nutes/Blow built to 10 inches minutes/No blow back	20 minutes								
	Pressure vs. T	imic 5500 Temperature	Time	Pr Pressure	Temp	E SUMM					
1500	1	Paul (you + side.	(Min.)	(psig)	(deg F)						
-	P	¥ - 100	0	1660.14 32.78	104.75 104.50	Initial Hydro Open To Fl					
1290		50	11	97.86		Shut-In(1)					
a 1000			71	152.16 101.82	111.83 111.84	End Shut-Ir Open To Fl					
3 1000 -			131	142.98	114.43	Shut-In(2)					
		R B B	251 253	151.90 1623.73	113.67 113.45	End Shut-Ir					
			200	1023.73	115.45	Final Hydro	FSIdile				
34M 28 Fri Feb 2016	G ebi Time (Hours)	944									
	Recovery	Gas Rates									
Length (ft)	Description	Volume (bbl)			Choke (ir	nches) Pressu	re (psig) Ga	as Rate (Mcf/d)			
280.00	Oil cut Muddy Water	1.94									
0.00	Oil 1% Mud 20% Water 7										
3.00	Clean oil 100%	0.04									
<u>k</u>		• • •									