Well Name:	Scale 1:240 Imper	ial				
Surface Location: Bottom Location: API: License Number:	1619' FSL _403' FEL Sec. 3-2 15-145-21813-00-00	22S-17W				
Drilling Completed:	11/16/2015 Pawnee County 11/22/2015	Time: Time:	8:15 PM 8:30 PM			
Bottom Hole Coordinates: Ground Elevation: K.B. Elevation:	2020.00ft 2031.00ft					
Logged Interval: Total Depth: Formation: Drilling Fluid Type:	3200.00ft 4155.00ft Simp/Cong Sand Chemical/Fresh Water Gel	To:	4115.00ft			
Company:	OPERATOR Shelby Resources, LLC					
Address: Contact Geologist:	621 17TH ST, STE 1155 DENVER, CO. 80293 Janine Sturdavant					
Contact Phone Nbr: Well Name: Location:	303-907-2209 / 720-274-468 Froetschner #1-3 1619' FSL _403' FEL Sec. 3-2	2 2S-17W				
Pool: State:	Kansas	Field: Country:	Wildcat USA			
	LOGGED BY					
	XA	1				
<u> </u>						
Ferino 2	USTURI AI	il gy	ISUIULY			
Company:	Charlie Sturdavant Consultin	g				
Address:	920 12th Street Golden, CO 80401 303-907-2295 / 303-384-948	1				
Logged By:	Geologist CONTRACTOR	Name:	Charlie Sturdavant			
Contractor: Rig #: Rig Type:	Sterling Drilling Co 4 mud rotary 11/16/2015	Timo	9-15 DM			
TD Date: Rig Release:	11/10/2015 11/22/2015	Time: Time: Time:	8:15 PM 8:30 PM			
The Shelby Resources, LLC Froe the Arbuckle. A TookeDaq gas de	NOTES tschner #1-3 was drilled to a tot tector was employed in the dril	al depth of 4155 f ling of said well.	t. (RTD), 4156 ft. (LTD), bottoming	g in		
Two DST's were conducted with o	lisappointing results. The report	can be found at t	he bottom of this log. ed that the well should be plugged	and		
abandoned. The dry samples were Sample Library, located in Wichita	e saved and will be available fo a, KS.	r furthur review at	t the Kansas Geological Society N	/ell		
Respectfully Submitted, Charlie Sturdavant Geologist						
	Well Comparison S	heet	1			
Charlie	Sturdavant		lting			
DRILLING WELL Shelby Resources, # 1-3 Fro 1619' FSL & 403' FEL	eschner Gulf Oil, State Hos SE-SE-SW	pial # 1	COMPARISON WELL Captiva II # 1-1 Woods Trust 5550'FSL & 705' FEL			
Sec. 3, T22S R17W 2031 KB Formation Sample Sub-Sea Log	Sec. 1, T22S R1 2019 KB F Sub-Sea Log Sub-Sea Sar	6W Structural Relationship nple Log	Sec. 1, T22S R17W Structural 2024 KB Relationship g Sub-Sea Sample Log			
Annydrite 1051 980 1048 Topeka 3182 -1151 3181 Queen Hill 3356 -1325 3352 Heebner 3466 -1435 3462 Toronto 3480 -1449 3484	983 2031 -1150 3150 -1119 -1321 3324 -1293 -1431 3433 -1402 -1453 3452 -1421	-1048 102 32 -31 314 32 -28 332 33 -29 343 28 -32 345	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
Douglas 3492 -1461 3490 Brown Lime 3557 -1526 3556 Lansing 3566 -1535 3564 Muncie Creek 3701 -1670 3702	-1459 3463 -1432 - -1525 3535 -1504 - -1533 3543 -1512 - -1671 3672 -1641 -	32 -27 346 29 -27 353 22 -21 353 23 -21 354 29 -30 366	1441 -20 -18 34 -1510 -16 -15 13 -1519 -16 -14 33 -1639 -31 -32			
Stark Shale 3776 -1745 3777 Base KC 3835 -1804 3838 Marmaton 3845 -1814 3848 Conglomerate 3920 -1889 3919 Penn. Sand 3925 -1894 3930	-1746 3752 -1721 - -1807 3808 -1777 - -1817 3822 -1791 - -1888 NP - - -1899 NP - -	24 -25 374 27 -30 380 23 -26 381 386 NR	R0 -1716 -29 -30 00 -1776 -28 -31 10 -1786 -28 -31 66 -1842 -47 -46			
Simpson Sand	NP -1973 3932 -1901 - -2125 3985 -1954 -1	NI 73 -72 394 70 -171 402				
	Doily Drilling Pop	ort				
Charlie S	4	-4 6-				
	DAILY DRILLING	REPORT				
Company: Charlie Sturdava 920 12th Street Golden, CO 8040	ant Consulting	Well: #1 Location: 16 Se	I-3 Froeschner # 1-3 519' FSL & 403' FEL ec. 3 T22S R17W			
Shelby Resources Office: 303-274-4 Jim Waechter Cell: 303-478-33	4682 88	Pa	awnee County, KS			
Wellsite Geologist: Charlie Sturdavant Cell: (303) 907-2 Office: (303) 384	295 -9481	Elevation: 2 Field: W API No.: 15-1 Surface Casi	031' KB 2020' GL ildcat 45-21813-0000 ng: 8 5/8'' set @ 1061' KB			
Drilling Contractor: Sterling Drilling	Rig #4 620-388-4192, Tool Push	er: Lanny Saloga,	cell: 620-388-4193	1		
11/16/2015 0 ft.	Spudded today at 0815 hrs. Drilling ahead, Shut down form	1115-1345 hrs du	e to rain.	1		
11/18/2015 1065'	WOC. Set 25 jts of 23# new 8-5 60/40 pos. Plug down @ 2200	/8" surface csg @ hrs.	1061'. Cement w/ 450 sx of			
11/19/2015 2194 ft.	Drilling ahead. Geologist on To	ocation @ 2145 hrs	ange frm PDC to button bit			
11/21/2015 3936 ft. Conducting DST # 1: 3890'-3936', Rec: 15' mud, show of oil in tool, SIP: 40-45#						
11/22/2015 4013 ft.	11/22/2015 4013 ft. TOOH w/ DST # 2: 3895'-4013', Rec: 834' Muddy Water (75% water, 25% mud), SIP: 1186-1184#. Drill ahead to RTD of 4155' @ 2030 hrs. 11/23/2015 4155 ft. WOO. Completed logging operations @ 0530 hrs.					
11/23/2015 4155 π.	Geologist off location @ 1100	ations @ 0530 nrs hrs.				
K.B. Elevation:	ELEVATIONS 2031.00ft G	round Elevation:	2020.00ft			
K.B. to Ground:	SURFACE CO-ORDIN	IATES				
Well Type: Longitude: Latitude:	Vertical -99.169449					
E/W Co-ord	38.164468 546060					
	38.164468 546060 1807628 BOCK TYPES					



Shelby Froetschner #1-3 DST #10001.jpg

DRILL STEM TEST REPORT	

	DRILL STEM TES	ST REP	ORT					
I RILUDITE	Shelby Resources LLC	3/22S/17W/Pawnee						
ESTING , INC	2717 Canal Boulevard	Froetschner #1-3						
	Suite C Hays Kansas 67601	Job	Ticket: 61	961	D\$T#:1			
	ATTN: Charlie Sturdavant		Tes	st Start: 20)15.11.21 @	05:03:00		
GENERAL INFORMATION:								
Formation: Conglomerate Deviated: No Whipstock:	Conglomerate No Whipstock: ft(KB)			Test Type: Conventional Bottom Hole (Initial)				
Time Tool Opened: 07:36:31 Time Test Ended: 11:45:16		Tester: Ken Swinney Unit No: 58 Great Bend/54						
Interval: 3890.00 ft (KB) To 3936.00 ft (KB) (TVD)			Reference Elevations: 2031.00 ft (KB)					
Total Depth:3936.00 ft (KB) (TVD)Hole Diameter:7.80 inchesHole Condition: Fair			2020.00 ft (CF) KB to GR/CF: 11.00 ft					
Serial#: 6838 Inside								
Press@RunDepth: 40.61 psig	@ 3932.00 ft (KB)	2015 11 21	Capacity	/: ik:		8000.00	psig	
Start Time: 05:03:01	11:45:16	Time On	Btm: 2	2015.11.21 (2015.11.21 @ 07:36:16			
				Btm: 2	2015.11.21 (@ 09:35:16		
TEST COMMENT: 1ST Open 17 1ST Shut In 45 M 2ND Open 10 M 2ND Shut In 45 M	Minutes/Weak blow /Blow built to 1 Vinutes/No blow back Vinutes/Dead no blow /Flush tool n Minutes/No blow back	/2 inch o help						
Pressure vs. 1	ime.		Р	RESSUF	RE SUMM	ARY		
	663 Temperature	Time (Min.)	Pressure	Temp	Annotatio	'n		
2000 000 000 000 000 000 000 000 000 00	dill constant	Time (Min.) 0	Pressure (psig) 1925.75	Temp (deg F) 107.56	Annotatio Initial Hydro	n o-static		
	033 Temperater	Time (Min.) 0 1	Pressure (psig) 1925.75 37.76	Temp (deg F) 107.56 106.45	Annotatio Initial Hydro Open To Fl	on o-static ow(1)		
	BUT Tempedan The second secon	Time (Min.) 0 1 17	Pressure (psig) 1925.75 37.76 29.58	Temp (deg F) 107.56 106.45 106.85	Annotatio Initial Hydro Open To Fl Shut-In(1)	o-static low(1)		
		Time (Min.) 0 1 17 63 63	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51	Temp (deg F) 107.56 106.45 106.85 107.60 107.60	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl	n o-static low (1) n(1)		
		Time (Min.) 0 1 17 63 63 63 73	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61	Temp (deg F) 107.56 106.45 106.85 107.60 107.60 107.91	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-In Open To Fl Shut-In(2)	n o-static ow (1) n(1) ow (2)		
		Time (Min.) 0 17 63 63 73 118	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74	Temp (deg F) 107.56 106.45 106.85 107.60 107.60 107.91 108.71	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir	n o-static ow (1) n(1) ow (2) n(2)		
		Time (Min.) 0 1 17 63 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 106.85 107.60 107.60 107.91 108.71 109.86	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	n o-static low (1) n(1) ow (2) n(2) o-static		
		Time (Min.) 0 1 17 63 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 106.85 107.60 107.60 107.91 108.71 109.86	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-In Open To Fl Shut-In(2) End Shut-In Final Hydro	n o-static ow (1) n(1) ow (2) n(2) o-static		
		Time (Min.) 0 1 17 63 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 106.85 107.60 107.60 107.91 108.71 109.86	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) -static		
		Time (Min.) 0 1 17 63 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 106.85 107.60 107.60 107.91 108.71 109.86	Annotatio Initial Hydro Open To FI Shut-In(1) End Shut-Ir Open To FI Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) o-static		
	UNI ENVIRONMENT	Time (Min.) 0 17 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 107.60 107.60 107.91 108.71 109.86	Annotatio Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) static		
(DE) France 100 F	USU Temporator USU Temporator	Time (Min.) 0 17 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 107.60 107.60 107.91 108.71 109.86	Annotatio Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) -static		
21 Mike 285 True Many	Volume (bbl)	Time (Min.) 0 1 17 63 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 107.60 107.60 107.91 108.71 109.86 Ga	Annotatio Open To FI Shut-In(1) End Shut-In Open To FI Shut-In(2) End Shut-In Final Hydro s Rates	n o-static ow (1) n(1) low (2) n(2) o-static	s Rate (M <i>cħd</i>)	
1 Description 1 Description 1 Description 1 Description 1 Description 1 Description 1 Description 1 Description	Volume (bbl) cool 0.07	Time (Min.) 0 17 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 107.60 107.60 107.91 108.71 109.86 Ga	Annotatio Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) static	is Rate (Mcf/d)	
21 Mike 295 True Marks	Volume (bbl) ool 0.07	Time (Min.) 0 1 17 63 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 107.60 107.60 107.91 108.71 109.86 Ga	Annotatio Open To FI Shut-In(1) End Shut-In Open To FI Shut-In(2) End Shut-In Final Hydro s Rates	n o-static ow (1) n(1) low (2) n(2) o-static	is Rate (M <i>cfid</i>)	
a believe and a stream of the	Volume (bbl)	Time (Min.) 0 17 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 107.60 107.60 107.91 108.71 109.86 Ga	Annotatio Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro	n o-static ow (1) n(1) ow (2) n(2) o-static	is Rate (Mct/d)	
21 billion 285 Recovery Length (ft) Description 15.00 Mud with show of oil in the Length (ft) Length (Volume (bbl)	Time (Min.) 0 1 17 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 107.60 107.60 107.91 108.71 109.86 Choke (i	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro s Rates roches) Pressur	n o-static iow (1) n(1) ow (2) n(2) o-static	is Rate (Mct/d)	
100 million and a second secon	Volume (bbl) ool 0.07	Time (Min.) 0 1 17 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 107.60 107.60 107.91 108.71 109.86 Ga	Annotatio Open To Fl Shut-In(1) End Shut-In Open To Fl Shut-In(2) End Shut-In(2) End Shut-In Final Hydro	n o-static ow (1) n(1) ow (2) n(2) o-static	is Rate (Mcf/d)	
1000 Mud with show of oil in the state of th	Volume (bbl) cool 0.07	Time (Min.) 0 1 17 63 63 73 118 119	Pressure (psig) 1925.75 37.76 29.58 40.61 37.51 40.61 45.74 1906.89	Temp (deg F) 107.56 106.45 107.60 107.60 107.91 108.71 109.86 Ga	Annotatio Initial Hydro Open To Fl Shut-In(1) End Shut-Ir Open To Fl Shut-In(2) End Shut-Ir Final Hydro s Rates rokes) Pressur	n o-static ow (1) n(1) ow (2) n(2) o-static	is Rate (M <i>cfid</i>)	

Shelby Froetschner #1-3 DST #2-p.20001.jpg

t								
	DRILL STEM TES	TREP	ORT					
	Shelby Resources LLC		3/2	3/22S/17W/Pawnee				
ESTING, INC	2717 Canal Boulevard		Fro	etschne	er #1-3			
	Suite C Hays Kansas 67601		Job	Ticket: 61	962	DST#: 2		
	ATTN: Charlie Sturdavant		Tes	t Start: 20	15.11.22 @	01:02:00		
GENERAL INFORMATION:								
Formation: Arbuckle			·	(T	~	1 D - 14 1 I - I /I- :6- N		
Time Tool Opened: 03:21:31	TL (KD)		Tes	ter: I	Conventional Ken Swinney	y		
Time Test Ended: 09:42:31			Unit	No: 8	58 Great Ber	nd/54		
Interval: 3895.00 ft (KB) To 40)13.00 ft (KB) (TVD)		Ref	erence Be	vations:	2031.00 ft (KB)		
Hole Diameter: 7.80 inches Hole	e Condition: Fair			KB t	o GR/CF:	11.00 ft		
Serial#: 6838 Inside								
Press@RunDepth: 409.50 psig	@ 4009.18 ft (KB)		Capacity	1		8000.00 psig		
Start Date: 2015.11.22 Start Time: 01:02:00	End Date: End Time:	2015.11.22 09:42:31	Last Calil Time On	o.: Btm: 2	: 2015.11.22 (2015.11.22 @ 03:20:46		
			Time Off	Btm: 2	2015.11.22 (@ 06:52:31		
TEST COMMENT: 1ST Open 30) Minutes/Strong blow/Blow built to	bottom of bu	cket in 6 min	utes				
1 ST Shut In 60 2 ND Open 30	Minutes/No blow back Minutes/Strong blow /Blow built to	bottom of bu	cket in 7 minu	utes 30 se	conds			
2ND Shut In 90	Minutes/No blow back							
Pressure vs 'l	ime		PF	RESSUR		ARY		
	9839 Temperalure	Time (Min.)	Pressure (psig)	Temp (deg E)	Annotatio	'n		
		0	1964.08	104.77	Initial Hydro	o-static		
		1 30	81.61 262.47	104.55 110.52	Open To Fl Shut-In(1)	ow(1)		
		90	1286.68	110.71	End Shut-In	n(1)		
		91 121	294.40 409.50	110.35 115.74	Open To Fl Shut-In(2)	ow(2)		
778		211	1284.65	113.93	End Shut-In	n(2)		
		212	1949.01	113.28	Final Hydro	o-static		
300 _ /								
	•							
3464 22 Sun Hux 2015 Time (Huas)	SPIN SPIN							
Recovery				Ga	s Rates			
Length (ft) Description	Volume (bbl)			Choke (i	nches) Pressur	re (psig) Gas Rate (Mcf/d)		
834.00 Muddy water with show	-4 - 1 0 74			14	20	30 10 ⁰		
0.00 Weiter with show	of oli 9.71							
0.00 Mud 25% Water 75%	0.00							
0.00 Mud 25% Water 75%	0.00							
0.00 Mud 25% Water 75%	0.00							
0.00 Mud 25% Water 75%	0.00							