	Scale 1:240 Imper	ial	
Well Name: Surface Location: Bottom Location:	Jessie #1-8 330' FSL_1318' FWL Sec. 8- ⁻	T22S-R16W	
API: License Number:	15-145-21806-00-00		
Spud Date: Region:	8/4/2015 Pawnee	Time:	9:00 PM
Drilling Completed: Surface Coordinates: Bottom Hole Coordinates:	8/11/2015	Time:	10:41 AM
Ground Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type:	2008.00ft 2019.00ft 3150.00ft 4025.00ft Penn Sand Chemical/Fresh Water Gel	To:	4025.00ft
	OPERATOR		
Company: Address:	Shelby Resources, LLC 621 17th St, Ste 1150 Denver, CO 80293		
Contact Geologist: Contact Phone Nbr: Well Name: Location: API:	Janine Sturdavant 303-907-2209 / 720-274-4682 Jessie #1-8 330' FSL _1318' FWL Sec. 8- 15-145-21806-00-00		
Pool: State:	Kansas	Field: Country:	Wildcat USA
	LOGGED BY		
Company: Address:	Shelby Resources, LLC 621 17TH ST, STE 1155 DENVER, CO. 80293		
Phone Nbr: Logged By:	203-671-6034 Geologist	Name:	Jeremy Schwartz

NOTES

The Shelby Resources, LLC Jessie #1-8 was drilled to a total depth of 4025', bottoming in the Arbuckle. A TookeDaq gas detector was employed in the drilling of said well.

2 DST's were conducted throughout the Penn Conglomerate and Arbuckle Zones. The DST Reports can be found at the bottom of this log.

Due to DST Results, sample shows, gas kicks, and log analysis it was determined by all parties involved to plug and abandon the well. 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

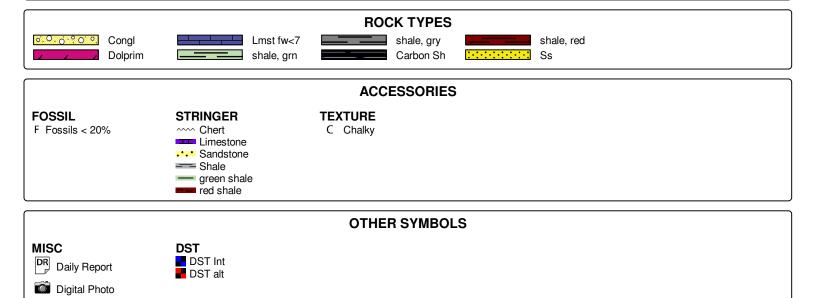
DATE	DEPTH	ACTIVITY
Sunday, August 09, 2015	3400'	Geologist Jeremy Schwartz on location @ 0143hrs, ~3400', Drlg ahead through
		Heebner, Toronto, Douglas Shale, Brown Lime, Lansing, Stark Shale, BKC, Marmaton,
	3828'	CFS @ 3828', Drop Survey, Strap Out, Conduct Bit Trip, Successful Bit Trip, Resume Drlg
Monday, August 10, 2015	3894'	CFS @ 3894', Conduct DST #1 in the Penn Conglomerate, Successful Test, Resume
		Drlg ahead, CFS @ 3945', Conduct DST #2 in the Arbuckle
Tuesday, August 11, 2015	3495'	Successful Test, Resume Drig ahead to TD, TD of 4025' Reached @ 1041hrs,
	4025'	CTCH 1.5hrs, Drop Survey, OOH, Conduct Logging Operations, Logging Operations
	4025'	Complete @ 1830hrs, Geologist Jeremy Schwartz off Location @ 1915hrs

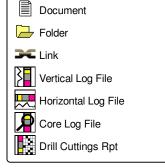
CLIENT:	SHELBY RESOURCES, LLC
WELL NAME:	JESSIE #1-8
LEGAL:	E/2-SE-SW-SW 8-T22S-R16W
COUNTY:	PAWNEE COUNTY, KS
API :	15-145-21 806-00-00
DRLG CONTRACTOR:	STERLING DRILLING CO.
RIG #:	4
DOGHOUSE #:	620-388-4192
TOOLPUSHER:	LANNY SALOGA
CELL #:	620-388-4193

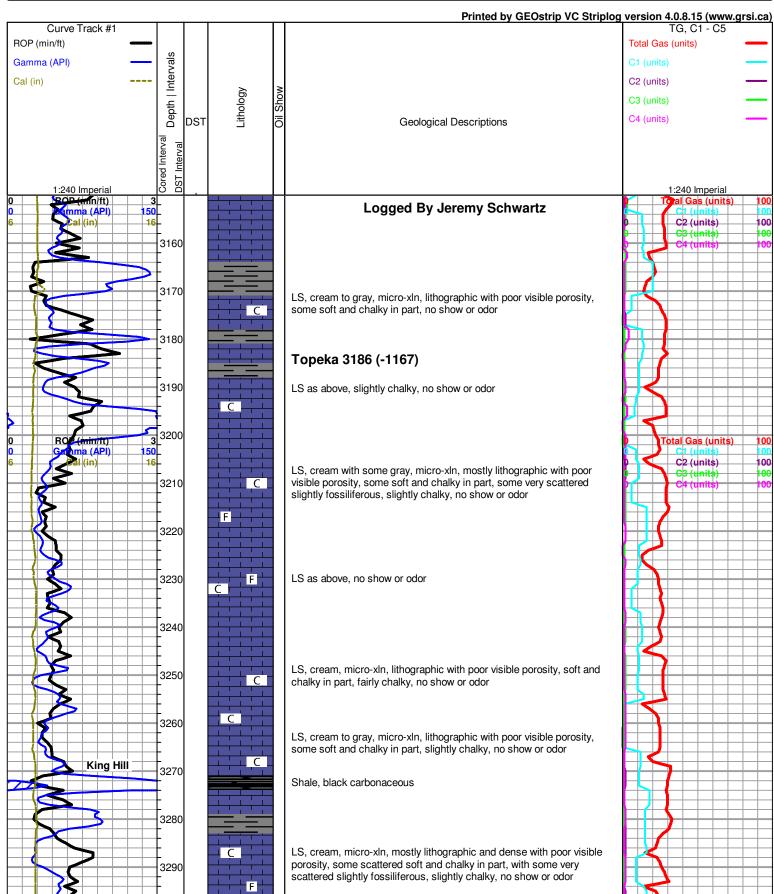
K.B. to Ground:

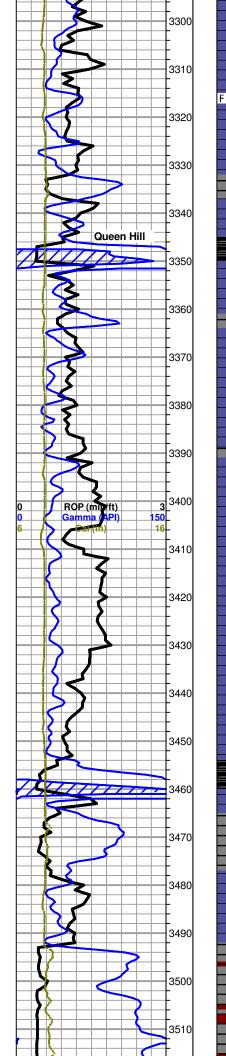
11.00ft

Sector III																						
			GAS						٠													
			SHELBY RESOURCES, LLC					SHELBY RESOURCES, LLC					SHELBY RESOURCES, LLC									
10					EAKIN 5-7 SE-NW-SE-SE 7-22S-16W					EAKIN 4-7 NW-NE-SE-NE 7-228-16W					BUSTER #1-3							
	¢.	JESSI	E #1-8												NE-NE-NW-SW 3-225-16W							
	KB		2019		KB		20)21			KB		20)16			KB		1	.999		
	LOG	TOPS	SAMP	LE TOPS	COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		COMP	. CARD	CARD LOG		SMPL.	
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CO	RR.	CO	RR.	DEPTH	DATUM	CO	RR.	CC	ORR.	DEPTH	DATUM	CO	ORR.	CO	DRR.
ANHYDRITE TOP	1033	98 ő	1026	993	1030	991		5	+	2	1001	1015		29	3	22	995	1004	-	18	-	11
BASE	1046	973	1051	968	1053	968	+	5	+	0	10 23	993	(4	20	Ŷ.	25	1016	983	-	10		15
TOPEKA	3187	-1168	3186	-1167	3190	-1169	+	1	+	2	3160	-1144		24	1	23	3137	-1138		30	5	29
HEEBNER SHALE	3456	-1437	3454	-1435	3459	- 1438	+	1	+	3	3432	-1416	6	21	Ŷ	19	3403	-1404	14	33	-	31
TORONTO	3475	-1456	3479	-1460	3478	-1457	+	1	12	3	3456	-1440	1	16	ŝ,	20	34 24	-1425		31	-	3
DOUGLAS SHALE	3493	-1474	3492	-1473	3495	-1474	+	0	+	1	3471	-1455	1	19	1	18	3437	-1438	-	36	-	3
BROWN LIME	3560	-1541	3560	-1541	3561	-1540	÷	1		1	3537	-1521	Ŷ.	20	Ň	20	3510	-1511	1	30	-	30
ЦКС	3568	-1549	3568	-1549	3570	-1549	+	0	+	0	3546	-1530	14	19	Ĭ.	19	3518	-1519		30		30
LKC"G" POROSITY	3656	-1637	3656	-1637	3659	-1638	÷	1	+	1	3634	-1618	*	19	(A)	19	3607	-1608	18	29	-	2
STARK S HALE	3762	-1743	3758	-1739	3766	-1745	+	2	+	6	3743	-1727	j.	16	6	12	3711	-1712	-	31	-	27
BKC	3819	-1800	3818	-1799	3825	-1804	+	4	+	5	3801	-1785	4	15	Ŷ.	14	3763	-1764	t.	36	-	35
MARMATON	3829	- 1810	3826	-1807	3834	-1813	+	3	+	6	3813	-1797	1	13	1	10	3782	-1783	-	27	-	24
PENN SAND or CHERT	3883	-1864	3884	-1865	3887	-1866	+	2	+	1	3862	-1846	-	18	16	19	38 29	-1830	14	34	-	3
SIMPSONSHALE	3905	- 188 6	3897	-1878	3919	- 1898	+	12	+	20	38 74	-1858		28	X	20	38 39	-1840		46	-	3
SIMPSON SAND											·							4/ 				
ARBUCKLE	3936	-1917	3936	-1917	3984	-1963	+	46	+	46	3891	-1875	100	42	1	42	38 79	-1880	-	37	- <u>-</u>	37
RTD			4025	-2006	4050	-2029			+	23	40 25	-2009	C I		+	3	39 70	-1971				3
LTD	4024	- 200 5			4050	- 20 29	+	24			40 26	-2010	+	5			39 66	-1967		38		









LS as above, slightly chalky, no show or odor

LS, cream with some scattered light gray, micro-xln, mostly lithographic and dense with poor visible porosity, some scattered soft and chalky in part, no show or odor

Shale, black carbonaceous

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LS, cream with some scattered light gray, micro-xln, lithographic with poor visiblle porosity, no show or odor

LS, cream, micro-xln, lithographic and dense with poor visible porosity, some soft and chalky in part, no show or odor

LS as above, no show or odor

LS, cream, micro-xln, lithographic with poor visible porosity, some scattered soft and chalky in part, no show or odor

LS as above, no show or odor

Heebner 3454 (-1435)

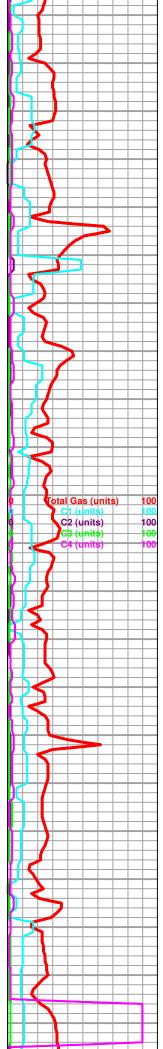
Shale, black carbonaceous

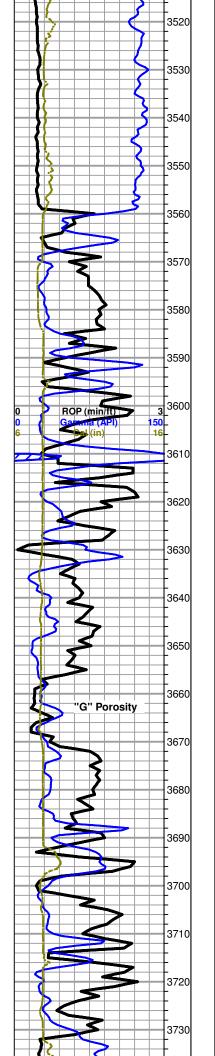
Toronto 3479 (-1460)

LS, mostly cream with some scattered light gray and white, micro-xln, lithographic with poor visible porosity, some scattered soft and chalky in part, no show or odor

Douglas Shale 3492 (-1473)

Shale, mostly gray with some red, soft and waxy





Shale as above

Brown Lime 3560 (-1541)

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

Lansing 3568 (-1549)

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

LS, cream to white with some very scattered gray, micro-xln, lithographic and dense with poor visible porosity, some very scattered with very scattered poor pinpoint porosity, no show or odor

LS as above, with trace with some scattered mostly poor visible inter-xln poinpoint porosity and slight brown stain in and around porosity only, VSSFO upon break, also slightly chalky in part, no odor

LS, cream to white with some scattered gray, micro-xln, lithographic and dense with poor visible porosity, no show or odor

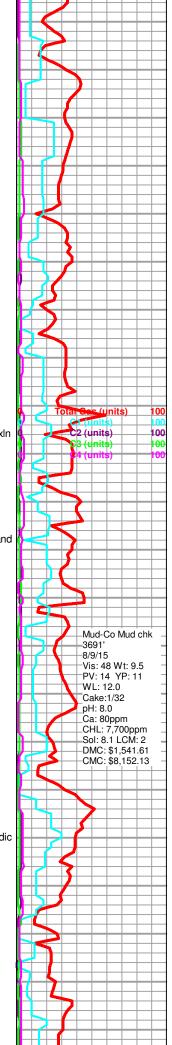
LS, cream to gray with some scattered white, lithographic and dense with poor visible porosity, no show or odor

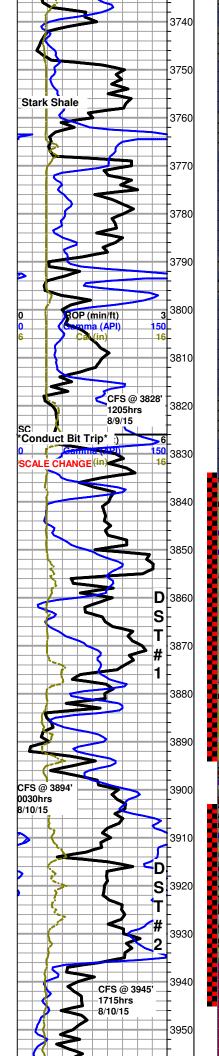
LS, cream to gray with some scattered white, micro-xln, mostly lithographic and dense with poor visible porosity, also with some very scattered sub-oomoldic to oomoldic with poor visible oomold porosity, barren, no odor

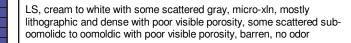
LS, cream to white with some gray, micro-xln, lithographic and dense with poor visible porosity, some very scattered sub-oomoldic to oomoldic with poor visible oomold porosity, no show or odor

LS as above, with some very scattered oomoldic as above, barren, no odor

LS, cream to white with some gray, micro-xln, lithographic and dense with poor visible porosity, no show or odor







LS as above, oomoldic appears to be dropping out, no show or odor

LS, cream to white with some scattered gray, micro-xln, lithographic and dense with poor visible porosity, trace sub-oomolidc to oomoldic with poor visible porosity, no show or odor

BKC 3818 (-1799)

Shale, gray with some very scattered pale green, also with some LS as above, no show or odor

Marmaton 3826 (-1807)

LS, cream to gray with some scattered white, micro-xln, lithographic and dense with poor visible porosity, no show or odor

LS as above, with some scattered gray and green shale, with trace orange chert, no show or odor $% \left({{\rm{D}}_{\rm{A}}} \right)$

Mixed cream to gray LS with some scattered white, lithographic and dense with poor visible porosity, trace sub-oomoldic, also with some scattered gray and green shale with trace red, with some scattered orange to tan cherts, slightly chalky, no show or odor

3894' 30" Mkixed cream to light gray LS, with some scattered shales and tan to orange chert with some white, some chert tripolitic with few scattered chips slightly vuggy, with sligh to fair show gas bubbles in porosity, some with scattered black stain, with abundant F-Med loose quartz SS grains in bottom of tray, clear, sub-rounded, few with scattered black stain, VSSFO in tray, some scattered fluor., no odor

Shelby Jessie 1-8 dst 1.jpg

D

Penn Sand/Chert 3884 (-1865)

3894' 60" Mostly same as above, with some chert, tripolitic to slightly vuggy edges, some with mostly saturated black stain and good show gas bubbles, most chert gassy, found few small SS clusters, clear to green, fine grained, sub-rounded and very friable, some slightly chalky, NSFO upon break, with abundant F-Med loose quartz SS grains in bottom of tray, clear, sub-rounded, few with scattered black stain, NSFO, some scattered fluor., no odor

~3900' Shale, gray to green with some scattered red, with some scattered LS and trace SS clusters, clear to black, f-vf, sub-rounded, some very fraible, some fairly well cememted, some fairly chalk filled, NSFO upon break, no shows or odor

 ${\sim}3910^{\rm \prime}$ Mostly same as above, slightly influx in black SS clusters, no shows or odor

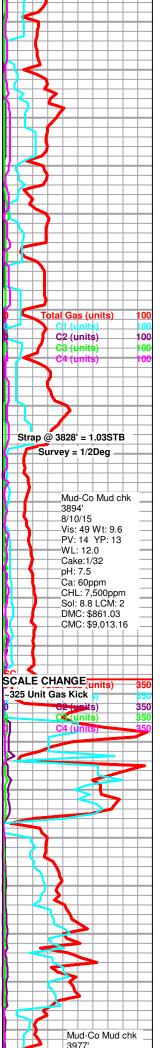
Shale, green to gray with some scattered red, also with some scattered SS clusters, black, vf-f, sub-rounded, fairly well cemented to well cemented, upon break NSFO, found one small cluster clear, sub-rounded, friable, NSFO upon break, no shows or odor

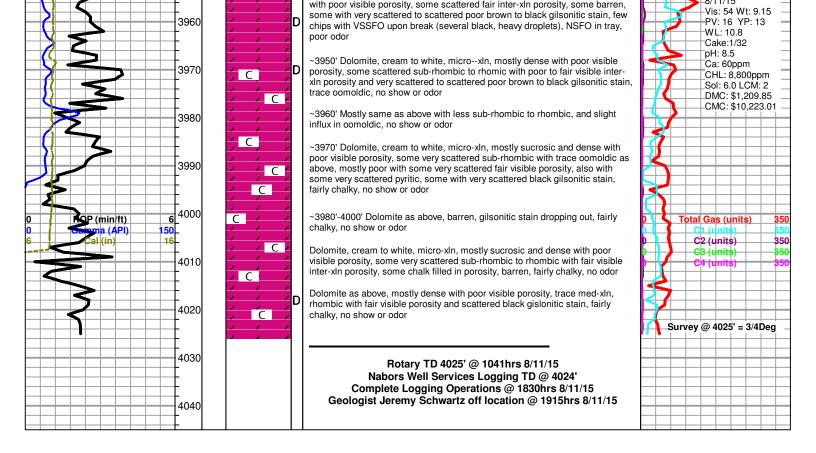
Arbuckle 3936 (-1917)

Shelby Jessie 1-8 dst 2.jpg

3945' 30" Some scattered LS, shales, and cherts, also with some very scattered dolomite, cream to white, micro-xln, sucrosic and dense with poor visible porosity, barren, trace with some scattered sub-rhombic development and very scattered slight poor brown stain, NSFO, poor odor

3945' 60" Dolomite as above, also with influx sub-rhombic to rhombic, most





DRILL STEM TEST REPORT Subplicit of the part			Shelby Jess	ie 1-	8 dst 1.jp	og						
Test Information Second Status Test Information Conglomerate Deviated No White Deviated No White Conglomerate Conglomerate Deviated No White Deviated No White Conglomerate Conglomerate Deviated No White Deviated No White Time Tool Concert Condition: ft(KB) Time Tool Concert Condition: Sast.00 ft(KB) To 384.00 ft(KB) (TVD) Total Depth: 2384.00 ft(KB) (TVD) Reference Elevations: 2019.00 ft(KB) Start Date: 2015.08.10 Bit Date: 2015.08.10 Bit Date: 2015.08.10 Bit Date: Start Date: 2015.08.10 Bit Date: 2015.08.10 Bit Date: 2015.08.10 Bit Date: Start Date: 2015.08.10 Bit Date: 2015.08.10 Bit Date: 2015.08.10 Bit Date: Time: 0331:00 Bit Date: Date: 2015.08.10 Bit Date: 2015.08.10 Bit Date: Time: Distributes-Strong blow back Time: PRESSURE SUMMARY Time: Distributes-Strong blow back bit bottom of bucket in 45 sec Strong Bit Strong Bit Date: Strong Bit Strong Bit Date: Distributes-Very weak blow back Time: PRESSURE Strong	10h		DRILL STEM TE	ST	REP	ORT						
Job No. Bit All die Problem in die entre die entr			Shelby Resources L.L.C			8-22-16w Pawnee						
ATTN: Jeremy Schwartz Test Start: 2015.08.10 gr 03:30:00 GEINERAL INFORMATION: Formation: Congiomerate Deviated:: No Whipstock: ft (KB) Time Tool Coperate 0:4:::::::::::::::::::::::::::::::::::		ESTING, INC.	621 17th St Ste 1155 Denver									
Formation: Conglomerate Deviated: No Whipstock: ft (KB) Time Tool Opened: 05:14:30 Test: Type: Conventional Bottom Hole (Initial) Time Tool Opened: 05:14:30 Test:: Jared Scheck Interval: 3834.00 ft (KB) To 3894.00 ft (KB) (TVD) Reference Elevations: 2019.00 ft (KB) Total Depth: 3284.00 ft (KB) (TVD) Reference Elevations: 2019.00 ft (KB) 2008.00 ft (KB) Serial #: 6666 Inside ResegeNuDepth: 152.37 psig 203660.00 ft (KB) Capacity: 8000.00 psig Start Time: 03:31:00 End Time: 10:10:30 Time Off Btm 2015.08.10 @ 06:17:30 TEST COMMENT: IFP-10 Mnutes-Strong blow built bottom of bucket in 45 sec ISIP-45 Mnutes-Nob blow back FFP-46 Mnutes-Nob Biow back FFPH 40 Mnutes-Very weak blow back Time Pressure Terp Annotation 000 Time Off Btm 2015.08.10 110:73 Shut-ht(1) 110:78 Shut-ht(1) 11 156.96 1337.41 111.114 Bd Shut-ht(2) 110:71 Shut-ht(1) 11 156.96 1337.41 111.73 Shut-ht(2) <td< td=""><td></td><td></td><td>ATTN: Jeremy Schwartz</td><td></td><td></td><td colspan="7">a fan de la seconda de la s</td></td<>			ATTN: Jeremy Schwartz			a fan de la seconda de la s						
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Total Depth: 3894.00 ft (KB) (TVD) 2008.00 ft (CF) Hole Dameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 11.00 ft Serial #: 6666 Inside 600.00 psig 800.00 psig 800.00 psig Start Die: 2015.08.10 End Date: 2015.08.10 2015.08.10 2015.08.10 8000.00 psig Start Time: 03.31:00 End Time: 10:10:30 Time On Btm: 2015.08.10 @ 06:127:30 TEST COMMENT: IFP-10 Mnutes-Strong blow balk FFP-45 Mnutes-No blow back FFP-45 Mnutes-No blow back FFP-45 Mnutes-No blow back Image: Image: Image: Image: Image: Time Off Btm: 2015.08.10 @ 06:127:30 TEST COMMENT: IFP-10 Mnutes-Strong blow balk FFP-45 Mnutes-Strong blow back Fressure Termp Annotation Image:	Deviated: Time Tool Open	No Whipstock: ed: 05:14:30	ft (KB)			Tes	ster:	Jared \$	Scheck	lole (Initial)		
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RILOBITE -	Shelby Resources L.L.C		8-22-16w Pawnee						
ESTING , INC.	621 17th St Ste 1155 Denver CO	80293	Jessie #1-8						
		00200	Job Ticke	DST#:2					
	ATTN: Jeremy Schwartz		Test Star	rt: 2015.08.10 @	ള 20:20:00				
GENERAL INFORMATION:									
Formation:ArbuckleDeviated:NoWhipstock:Time Tool Opened:22:03:30Time Test Ended:03:48:00	ft (KB)		Test Typ Tester: Unit No:	e: Convention Jared Sche 55-Great B					
Interval:3903.00 ft (KB) To394Total Depth:3945.00 ft (KB) (TVHole Diameter:7.88 inchesHole	D)		Reference	ce Elevations: KB to GR/CF:	2019.00 ft (KB) 2008.00 ft (CF) 11.00 ft				
Serial #: 6666OutsidePress@RunDepth:540.59 psig (Start Date:2015.08.10Start Time:20:21:00TEST COMMENT:IFP-10 Minutes-Fa ISIP-45 Minutes-NFFP-60 Minutes-S FSIP-90 Minutes-N	End Date: End Time: air blow built 6 inches into bucket to o blow back trong blow built bottom of bucket i		Capacity: Last Calib.: Time On Btm: Time Off Btm: feet		8000.00 psig 2015.08.11 @ 22:03:00 @ 01:20:00				
Pressure vs. Th	пе		PRES	SURE SUMM	ARY				
BMARA 22E	Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpendar Timpen	Time (Min.) 0 1 42 43 100 196 197	Pressure (psig) Te (de 1969.61 1969.61 11 246.10 11 540.59 11 1298.96 11 521.23 11 844.36 11 1252.05 11	Annotati g F) 0.91 Initial Hydi 0.46 Open To I 1.73 Shut-In(1) 3.59 End Shut- 4.18 Open To I 9.99 End Shut- 7.89 End Shut- 7.94 Final Hydi	ion ro-static Flow (1) In (1) Flow (2) In (2) In (3)				
Recovery				Gas Rates					
Length (ft) Description	Volume (bbl)		C	hoke (inches) Press	ure (psig) Gas Rate (Mcf/d)				
1620.00 w ater 0.00 chlorides 30,000 resistivit	20.81 y.15@70degre:0.00								