	Scale 1:240 Impe	rial	
Well Name: Surface Location: Bottom Location: API:	Frick Family Farms #1-18 1003' FSL, 2001' FEL, Sec. 15-145-21822-00-00	18-22S-16W	
License Number: Spud Date:	9/29/2016	Time:	7:15 AM
Region: Drilling Completed:	Pawnee County 10/6/2016	Time:	7:55 PM
Surface Coordinates: Bottom Hole Coordinates: Ground Elevation: K.B. Elevation: Logged Interval: Total Depth: Formation: Drilling Fluid Type:	2015.00ft 2026.00ft 3100.00ft 4190.00ft Penn Conglomerate Chemical/Fresh Water Gel	To:	4190.00ft
	OPERATOR		
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 / 720-274-468 Frick Family Farms #1-18 1003' FSL, 2001' FEL, Sec. 15-145-21822-00-00	2 18-22S-16W	
Pool: State:	Kansas	Field: Country:	Wildcat USA
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 Frick Family Farms #1-18 was drilled to a total depth of 4190', bottoming in the Arbuckle. A TookeDaq Gas Detector was employed in the drilling of said well.

4 DST's were conducted throughout the Penn Conglomerate and Simpson Sand. The DST reports can be found at the bottom of this log.

Due to positive DST results, sample shows, and log analysis it was determined by all parties to furthur test the well through production casing. 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

Spud Date:	mud rotary 9/29/2016	Time:	7:15 AM
TD Date: Rig Release:	10/6/2016 10/7/2016	Time: Time:	7:55 PM 12:00 PM

ELEVATIONS

K.B. Elevation: 2026.00ft K.B. to Ground: 11.00ft Ground Elevation:

2015.00ft

DATE	DEPTH	ACTIVITY
Sunday, October 02, 2016	3440'	Geologist Jeremy Schwartz on location @ 1230hrs, ~3440', Drlg ahead through
		Heebner, Toronto, Douglas Shale, Brown Lime, CFS @ 3598', CTCH 1hr, drop survey,
	3598'	strap out, conduct bit trip, swap PDC for button bit, Successful bit trip, resume drlg
		ahead through Lansing
Monday, October 03, 2016	3622'	Continue to drill ahead through Lansing, BKC, Marmaton, Penn Chert, CFS @ 3970'
	3970'	Conduct short trip, CTCH 1hr
Tuesday, October 04, 2016	3970'	Come out of hole to conduct DST #1 in the Penn Chert, successful test, resume drlg,
	3985'	CFS @ 3985', conduct DST #2 in the Penn Chert
Wednesday, October 05, 2016	3985'	Successful test, continue drlg ahead through Simpson Shale, Simpson Sand,
	4034'	CFS @ 4034', conduct DST #3 in the Simspon Sand, successful test, resume drlg,
	4049'	CFS @ 4049', conduct DST #4 in Lower Simpson Sand,
Thursday, October 06, 2016	4049'	Successful test, continue drlg ahead, CFS @ 4095', resume drlg, TD of 4190 reached
	4190'	CTCH 90 minutes, conduct logging operations, logging operations complete @ 0405hrs
		Geologist Jeremy Schwartz off location @ 0500hrs

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						K-N VOYA	GER PE	T ETA	Ê.) () ()	VICTORY OF	ERAT	ING, IN	IC			SHELBY RES	OURC	ES, LLC	8	1
						EWI	NG #1					ILS LAI	ND #1	20				EAK	N 5-7	2		
	FR	ICK FAMILY	FAR MS #1	- 18		NE-NE-NE 1	9-T229	S-R161	N		SIA	FNE-NW-SV	V 20-T	22S-R	16W			SE-NW-SE-SI	E 7-23	2S-16W	F	1
	KB		20 26		KB		20	45			KB	2	2	041			KB		2	J21		
	LOG	TOPS	SAMP	LE TOPS	COM	P. CARD	10)G	SM	IPL.	COMP	. CARD	L.	OG	SM	PL.	COMP	. CARD	Ð	DG	SM	IPL.
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CO	RR.	CO	RR.	DEPTH	DATUM	CO	RR.	CO	RR.	DEPTH	DATUM	CC	RR.	CO	RR.
ANHYDRITE TOP	1046	980	1048	978	1058	987	1	7		9	10 60	981	1	1	10	3	10 30	991		11		13
BASE	1069	957	1075	951	1087	958	1	1	1	7	1082	959	120	2	14	8	1053	968	12	11		17
TOPEKA	3224	-1198	3219	-1193	3260	-1215	+	17	+	22	3259	-1218	+	20	+	25	3190	-1169	-	29		24
HEEBNER SHALE	3496	-1470	3494	-1468	3534	-1489	+	19	+	21	3535	-1494	+	24	+	26	3458	-1437	112	33	1	31
TORONTO	3515	-1489	3514	-1488	3552	-1507	+	18	+	19	3554	-1513	+	24	+	25	3478	-1457	-	32		31
DOUGLAS SHALE	3532	-1506	3530	-1504	3572	-1527	+	21	+	23	3573	-1532	+	26	+	28	3495	-1474	10	32		30
BROWN LIME	3600	-1574	3594	-1568	3640	-1595	+	21	+	27	3642	-1601	+	27	+	33	3561	-1540	1	34	+	28
IKC	3608	-1582	3609	-1583	3648	- 160 3	+	21	+	20	3651	-1610	+	28	+	27	3570	-1549	12	33		34
LKC "G" POROSITY	3700	-1674	3696	-1670	3746	-1701	+	27	+	31	3740	-1699	+	25	+	29	3659	-1638	108	36	-	32
STARK S HALE	3804	-1778	3807	-1781	3848	- 180 3	+	25	+	22	3847	-1806	+	28	+	25	3766	-1745	-	33		36
ВКС	3860	-1834	3860	-18 34	3904	-1859	÷	25	+	25	3906	-1865	+	31	+	31	38 25	-1804	-	30		30
MARMATON	3871	-1845	3869	-1843	3916	-1871	+	26	+	28	39 18	-1877	+	32	+	34	38 34	-1813	-	32		30
PENN SAND/CHERT	3947	-1921	3948	-1922	4020	-1975	+	54	+	53	40 26	-1985	+	64	+	63	3887	-1866		55		56
SIMPSONSHALE	3988	-1962	3984	-1958	4073	- 20 28	+	66	+	70	40 57	-2016	+	54	+	58	39 19	-1898	-	64		60
SIMPSONSAND	4014	-1988	4014	-1988	4082	- 2037	+	49	+	49	4090	-2049	+	61	+	61						
ARBUCKLE	4086	- 2060	4085	-20 59							4154	-2113	+	53	+	54	3984	-1963	0.00	97		96
RTD			4190	-2164	4105	-2060			말	104	4260	-2219			+	55	40 50	-2029			- 2,	135
LTD	4192	-2166			4099	-2054		112			4260	-2219	+	53			40 50	-2029	*	137		















Ls as above, no show or odor

Heebner 3494 (-1468)

shale, black carbonaceous

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Toronto 3514 (-1488)

LS, cream to white, micro-xln, Imostly ithographic, some dense, some scattered soft and chalky in part, no show or odor

Douglas Shale 3530 (-1504)

Shale, mostly gray with some very scattered red, soft and waxy

Shale as above, some sandy

Brown Lime 3594 (-1568)

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

Lansing 3609 (-1583)

LS, white to cream, micro-crypto xln, mostly lithographic, some scattered slightly fossiliferous, some dense, some soft and chalky in part, fairly chalky, no show, odor, or fluor

LS, cream to white with some scattered gray, micro-xln, mostly lithographic and dense with poor visible porosity, found few chips (<5%) with some very scattered poor pinpoint porosity with trace to poor stain in porosity only, upon break chips show slight to VSSFO and poor inter-xln porosity, slightly chalky, poor fleeting odor in wet cup, no fluor.

LS, cream to gray with some very scattered white, micro-crytpo xln, lithographic and dense with poor visible porosity, found few chips (<5%) with some very scattered poor pinpoint porosity and trace to poor stain in porosity only, upon break chips show SSFO, one chip with several small vugs, too dense to break, slightly chalky, very poor fleeting odor in wet cup, no fluor.,

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

LS, cream to gray, micro-xln, some lithographic, some fossiliferous, dense with poor visible porosity, no show, odor, or fluor.

LS as above, with slight influx white, soft and chalky in part, slightly chalky, no show, odor, or fluor.

LS, cream with some gray, micro-cryto xln, mostly lithographic and dense with poor visible porosity, no show, odor, or fluor

LS, cream, micro-xln, oomoldic and barren with poor oomold porosity, fairly









LS as above, with abundant gray shale with some scattered red and trace green, sample washes red, fairly chalky, no show, odor, or fluor

LS and shale as above, with some scattered reddish orange to brown and opaque cherts, no show, odor, or fluor

Penn Chert 3948 (-1922)

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🙆 FRICK FAMILY FARMS 1-18. DST1.jpg

FRICK FAMILY FARMS 1-18. DST2.jpg

Chert, white to tan and opaque with some yellow to orange, fresh and sharp, some scattered (~15%) with scattered tripolitic edges and stain in tripolitic areas only, some scattered dull yellow fluor., slight to fair show free oil in tray, fair odor

3970' 30" Chert, mostly white to tan with some scattered orange/yellow, fresh and sharp, some scattered with tripolitic edges and mostly poor stain in areas of porosity only, samples gassy, SSFO in tray, trace pyrite, scattered bright to dull yellow fluor., fair fleeting odor in cup

3970' 60" Chert, mostly same as above, gassy, NSFO in tray, scattered fluor., poor fleeting odor in cup

3985' 30" Mixed LS and shale, with chert, mostly white to tan, fresh and sharp, mostly barren, few very scattered chips with slightly tripolitic edges and very scattered poor stain, trace pyrite, NSFO, some very scattered dull fluor., poor fleeting odor

3985' 60" Mostly same as above, with trace pyrite, found 1 small chip tripolitic with fair to good visible pinpoint porosity and saturated balack stain, NSFO, very scattered dull yellow fluor., no odor

c....., gray to grown and pare green/yellow with some scattered red, also with some scattered chert, white to tan, some fossilifeorus, some with scattered tripolitic edges to slightly vuggy with scattered poor tarry, wet black stain, NSFO, no odor, some very scattered dull vellow fluor. Shale, gray to green and pale green/yellow with some scattered red, also with some

Simpson Sand 4014 (-1988)

FRICK FAMILY FARMS 1-18. DST3.jpg

FRICK FAMILY FARMS 1-18. DST4.jpg

4034' 30" SS, mostly clear to gray and fine grained, some gray/green, subrounded to sub-angular and poorly sorted, fairly well cemented, with some scattered white chert inclusions, also with some clear to light brown, subrounded to rounded and well sorted, most fairly friable, some clusters appear barren, some scattered with trace to very scattered stain, upon break some clusters show some scattered staining on grains and slight increase in odor, NSFO or fluor., poor odor

4034' 60" SS. mostly same as above, with influx clear to light brown, fine grained, some clusters appear barren, some with very scattered to scattered stain as above, upon break most clusters have fair to good show free oil, some gassy, with abundant loose sub-rounded to rounded grains in bottom of tray, some with trace stain, poor to fair fleeting odor

4049' 30" Shale, mostly gray with some scattered red and green to pale green/yellow, also with some scattered SS clusters, clear to light brown, fine grained, sub-rounded to sub-angular and well sorted, most fairly well cemented, upon break most clusters have fair to good show free oil and fair show gas bubbles as well as increased odor, some very scattered glauconitic also with shale and chert inclusions, trace pyrite, with abundant vf-f loose grains in bottom of tray. NSFO in tray, no fluor., fair fleeting odor

4049' 45" Shale with SS as above, few clusters slowly bleed oil and gas bubbles under lamp, also with some scattered gray globs of clay with associated SS grains trapped, abundand vf-f loose grains in bottom of tray, SSFO in trav. verv scattered dull vellow fluor.. fair odor

~4050-4085' Shale. mostly gray with some scattered red and green, waxy, some soft, some very dense, with some very scattered SS clusters as above, poor fleeting odor

Arbuckle 4085 (-2059)

~4085' Shale and very scattered SS clusters as above, with trace dolomite, few small chips cream, micro-xln, sub-sucrosic and fairly friable with poor visible porosity, with some very scattered slight sub-rhombic development on edges, barren, SSFO in tray, fair pungent odor in wet cup

Dolomite, cream, micro-xln, some sub-sucrosic to sucrosic and dense, some sub-rhombic and fairly friable, poor visible porosity, barren, upon break few chips with VSSFO, slightly chalky, NSFO in tray, strong pungent odor

Dolomite as above, no shows, slightly chalky, NSFO, strong pungent odor

Dolomite, cream, micro-xln, mostly sub-sucrosic to sucrosic and dense with poor visible porosity, some sub-rhombic, slightly chalky, no show, poor odor

Dolomite as above, no show or odor

Dolomite, cream, micro-xln, mostly sub-scurosic to sucrosic and dense with poor visible porosity, some scattered sub-rhombic, with some very scattered





	FRICK FAMILY FARM	IS 1-18. DS	ST1.jpg			
	DRILL STEM TES	T REP	ORT			
	SHELBY RESOURCES LLC		18-2	22S-16W PA	WNEE	
<u>- Alesters</u>	2717 CANAL BLVD SUITE C		FRI	CK FAMILY	FARMS 1	
Great Bend, Kanene	HAYS , KnaA 67601		Job ⁻	Ticket: 01131	DST	#:1
grow or or or or other	ATTN: JEREMY SCHWARTZ		Test	Start: 2016.1	0.04 @ 02:55:0	0
GENERAL INFORMATION:						
Formation:PENN CHERTDeviated:NoWhipstock:Time Tool Opened:05:05:00Time Test Ended:10:58:00	ft (KB)		Test Test Unit	Type: Conve er: GENE No: 1-54	entional Bottom BUDIG	Hole (Initial)
Interval:3917.00 ft (KB) To39Total Depth:3970.00 ft (KB) (ThHole Diameter:7.88 inches Hole	9 70.00 ft (KB) (TVD) /D) e Condition: Fair		Refe	erence Elevatio KB to GR	ns: 2026. 2016. /CF: 10.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 9139OutsidePress@RunDepth:1348.43 psiaStart Date:2016.10.04Start Time:02:55:00TEST COMMENT:1ST OPENING1ST SHUT-IN2ND OPENING2ND SUT-IN	 @ 3965.34 ft (KB) End Date: End Time: 15 MINUTES STRONG BLOW GAS T 60 MINUTES GOOD BLOW BACK 60 MINUTES STRONG BLOW SEE G 90 MINUTES- GOOD BLOW BACK 	2016.10.04 10:58:00 TO SURFACE AS FLOW R	Capacity: Last Calib Time On E Time Off I IN 5 MINUTE EPORT	o.: 3tm: 2016. Btm: 2016. S	5000. 2016.10. 10.04 @ 05:05: 10.04 @ 08:54:	00 psia 04 30 30
Pressure vs. 7	ime		PR		UMMARY	
1 Le Oct 290	DIST Properties	Time (Min.) 0 1 17 75 77 137 228 229	Pressure (psia) 2027.19 335.60 173.82 1372.39 228.66 151.60 1348.43 2028.23	Temp (deg F) Ar 109.14 Initia 108.74 Ope 108.55 Shu 109.27 Ope 108.23 Shu 108.66 End 109.11 Final	al Hydro-static n To Flow (1) t-In(1) Shut-In(1) en To Flow (2) t-In(2) Shut-In(2) il Hydro-static	
Recovery				Gas Ra	ites	
Length (ft) Description	Volume (bbl)	First Ca	Pata	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
	2.09	Last Gas	s Rate	1.00	6.47	186.00
		Max. Ga	s Rate	1.00	8.11	233.15
Eagle Testers	Ref. No: 01131			Printed: 2016	.10.04 @ 11:17	<i>.</i> :01

	FRICK FAMILY FARM	IS 1-18. DS	ST2.jpg			
	DRILL STEM TES	T REP	ORT			
	SHELBY RESOURCES LLC		18-2	22S-16W P	AWNEE	
- <u>1esters</u>	2717 CANAL BLVD SUITE C		FRI	CK FAMIL	Y FARMS 1	
Const Bend Banes	HAYS , KnaA 67601		Job ⁻	Ticket: 01132	DST	#:2
	ATTN: JEREMY SCHWARTZ		Test	Start: 2016.	10.04 @ 06:45:0	0
GENERAL INFORMATION:						
Formation:PEN CHERTDeviated:NoWhipstock:Time Tool Opened:08:22:00Time Test Ended:00:00:00	ft (KB)		Test Test Unit	Type: Conv er: GEN No: 1-54	ventional Bottom E BUDIG	Hole (Initial)
Interval:3970.00 ft (KB) To39Total Depth:3985.00 ft (KB) (The second secon	9 85.00 ft (KB) (TVD) ∕D) e Condition: Fair		Refe	erence Elevati KB to Gl	ons: 2026. 2016. R/CF: 10.	00 ft (KB) 00 ft (CF) 00 ft
Serial #: 9139InsidePress@RunDepth:1339.72 psiaStart Date:2016.10.04Start Time:18:55:00TEST COMMENT:1ST OPENING 11ST SHUIT-IN22ND OPENING 62ND SHUT-IN9	 3980.00 ft (KB) End Date: 2 End Time: 5 MINUTES GOOD BLOW BUILT TO 60 MINUTES NO BLOW BACK 60 MINUTES-STRONG BLOW GAS T 60 MINUTES NO BLOW BACK 	2016.10.05 01:48:30 THE BOTTO O SURFACE	Capacity: Last Calib Time On E Time Off I M OF THE BL	o.: 3tm: 2016 Btm: 2016 JCKET IN 2 MI S	5000. 2016.10. 5.10.04 @ 20:32 5.10.05 @ 00:16 NUTES	00 psia 05 30 00
Pressure vs. T	ĩme		PR	RESSURE	SUMMARY	
953 Prosure 953 Prosure 954 Prosure 955 Prosure 956 P	9137 Temperature 9137 T	Time (Min.) 0 16 75 76 135 223 224	Pressure (psia) 2018.33 82.60 59.55 1374.12 79.06 49.49 1339.72 1826.50	Temp A (deg F) 103.30 Init 102.91 Op 106.62 Sh 107.84 Env 107.49 Op 107.19 Sh 109.33 Fin 109.33 Fin 109.33 Fin	ial Hydro-static en To Flow (1) ut-ln(1) d Shut-ln(1) en To Flow (2) ut-ln(2) d Shut-ln(2) al Hydro-static	
Recovery				Gas R	ates	
10.00 GASSY MUD	0.05	First Gas	s Rate	Споке (Inches 0.25	2.10	Gas Rate (Mict/d) 3.33
		Last Gas	s Rate	0.25	2.80	4.44
		Max. Ga	s Rate	0.25	2.80	4.44
Eagle Testers	Ref. No: 01132			Printed: 201	6.10.05 @ 02:01	:02

	FRICK FAMILY FARM	IS 1-18. DS	ST3.jpg			
	DRILL STEM TES	T REPO	ORT			
	SHELBY RESOURCES LLC		18-2	2S-16W PA	WNEE	
	2717 CANAL BLVD SUITE C HAYS , KnaA 67601		FRI Job 1	CK FAMILY	FARMS 1	#:3
grand Sand Alandes	ATTN: JEREMY SCHWARTZ		Test	Start: 2016.10	.05 @ 10:44:00)
GENERAL INFORMATION:						
Formation:SIM PSON SANDDeviated:NoWhipstock:Time Tool Opened:12:20:00Time Test Ended:	ft (KB)		Test Teste Unit I	Type: Conve er: GENE No: 1	ntional Bottom BUDIG	Hole (Initial)
Interval: 3982.00 ft (KB) To 40	034.00 ft (KB) (TVD)		Refe	rence Elevatior	is: 2026.0	00 ft (KB)
Hole Diameter: 7.88 inchesHole	e Condition: Fair			KB to GR/	CF: 10.0	00 ft
Serial #: 9139InsidePress@RunDepth:1377.22 psiaStart Date:2016.10.05Start Time:10:44:00TEST COMMENT:1ST OPENING1ST SHUT-IN2ND OPENING2ND SHUT-IN	 4029.34 ft (KB) End Date: End Time: 15 MINUTES STRONG BLOW GAS 60 MINUTES 40 MINUTES STRONG BLOW 120 MINUTES	2016.10.05 18:05:00 TO SURFACE	Capacity: Last Calib Time On B Time Off E IN 2 MINUTE	.: 8tm: 2016.1 8tm: 2016.1 3S	5000. 1899.12. 0.05 @ 12:19: 0.05 @ 16:16:	00 psia 30 00 30
Pressure vs. 7	Cime		PR	ESSURE SU	JMMARY	
952 Presave 952 Presave 1000 100	9159 Temporalize 1159 Temporalize 1150 Tempora	Time (Min.) 2 16 76 77 115 236 238	Pressure (psia) 2026.93 872.80 838.92 1382.08 898.65 859.18 1377.22 1903.84	Temp Ann (deg F) 107.12 Initial 108.61 Oper 108.57 Shut 109.50 End 3 109.24 Oper 110.23 Shut 113.27 End 3 114.17 Final	Hydro-static In To Flow (1) -In(1) Shut-In(1) In To Flow (2) -In(2) Shut-In(2) Hydro-static	
Recovery				Gas Rat	es	
Length (ft) Description	Volume (bbl)			Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
MUD	1.28	First Gas	Rate	1.00	98.00 113.75	2817.38
		Max. Gas	s Rate	1.00	123.50	3550.48
						·1
Eagle Testers	Ref. No: 01133			Printed: 2016.	10.05 @ 18:22	:52

DRILL STEM TEST REPORT SHELBY RESOURCES LLC 18-22S-16W PAWNEE FRICK FAMILY FARMS 1 Job Toket: 01134 DST#:4 ATTN: JEREMY SCHWARTZ Test Start: 2016.10.06 @ 01:25:00 GENERAL INFORMATION: Formation: CONVENTION: Total Coping: 00:00:00 Test Type: Conventional Bottom Hole (Initia) Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initia) Time Test Ended: 00:00:00 Test Type: Conventional Bottom Hole (Initia) Test Type: Conventional Bottom Hole (Initia) Time Test Ended: 00:00:00 Test Type: Conventional Bottom Hole (Initia) Test Type: Conventional Bottom Hole (Initia) Time Test Ended: 00:00:00 Test Type: Conventional Bottom Hole (Initia) Test:: 2016:00 ft (KB) 2016:00 ft (KB) Total Depting: 4044.00 ft (KB) (TVD) Reference Elevations: 2006:00 paia 2016:10:06 2016:10:06 Start Date: 01:20:00 End Date: 2016:10:06 2016:10:06 Time Off Bim: 2016:10:06 @ 02:59:30 Time: 01:20:00 End Time: 0
SHELEY RESOURCES LLC 18-22S-16W PAWNEE SHELEY RESOURCES LLC 18-22S-16W PAWNEE PRICK FAMILY FARMS 1 Job Ticket: 01134 DST#:4 TATE: JEREMY SCHWARTZ Test Start: 2016:10.06 @ 01:25:00 GENERAL INFORMATION: Formation: LOWER SIMPSON SAND Deviate: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial) Time Test Ended: 00:00:00 Unit No: 1 Interval: 4041.00 ft (KB) TO 4049.00 ft (KB) (TVD) Total Depth:: 4041.00 ft (KB) (TVD) Test::::::::::::::::::::::::::::::::::::
2717 CANAL BLVD SUTTE C HAYS, KnaA 67601 FRICK FAMILY FARMS 1 Job Ticket: 01134 DST#:4. ATTN: JEREMY SCHWARTZ Test Start: 2016.10.06 @ 01:25:00 GENERAL INFORMATION: Formation: LOWER SIMPSON SAND Deviated: Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 00:00:00 Time Tool Opened: 00:00:00 Total Depth: Mol Whipstock: 4041.00 ft (KB) (TVD) Test Type: Conventional Bottom Hole (Initial) Interval: 4041.00 ft (KB) (TVD) Tester:: 2026.00 ft (KB) 2016.00 ft (KB) Press@RunDepth: 1352.11 psia @ 4044.00 ft (KB) Capacity: 00:00:00 2016.10.06 Time Const Ecolito: 2016.10.06 2025:30 Start Date: 2016.10.06 End Date: Capacity: 00:00:00 2016.10.06 Time On Btm: 2016.10.06 200:20:30 TEST COMMENT: 1ST OPENING 15 MINUTES FAIR BLOW BULT TO THE BOTTOM OF A 5 GALLON BUCKET IN 6 MINUTES STOND BLOW BACK Time Of Btm: 2016.10.06 @ 02:80:01 ZND OPENING 60 MINUTES NO BLOW BACK Time Of Btm: 2016.10.06 @ 02:18:00 2041.40.10 ft (H) Total Deptin: 1205.00 MINUTES STOND BLOW BACK Time On Btm: 2016.10.06 @ 02:59:01 Start Date: 2016.10.06 End Capacity: 2016.10.06 @ 02:18:00 Time Of Btm: 2016.10.06 @ 02:18:00 TEST COMMENT:
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CLALING INFORMATION. Formation: LOWER SIMPSON SAND Deviated: No Whipstock: ft (KB) Time Tool Opened: 00:00:00 Test Type: Conventional Bottom Hole (Initial) Time Tool Opened: 00:00:00 Unit No: Interval: 4041.00 ft (KB) To 4049.00 ft (KB) (TVD) Total Depth: 4041.00 ft (KB) (TVD) Reference Bevations: 2026.00 ft (KB) Hole Dameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 10.00 ft Serial #: 9139 Inside Press@RunDepth: 1352.11 psia @ 4044.00 ft (KB) Capacity: 5000.00 psia Start Date: 2016.10.06 End Date: 2016.10.06 Last Calib: 2016.10.06 @ 02.59:30 Start Time: 01:25:00 End Time: 09:00:00 Time On Btm: 2016.10.06 @ 02.59:30 Time Off Btm: 2016.10.06 @ 00.1000 Start Date: 2016.10.06 @ 02.59:30 Time Off Btm: 2016.10.06 @ 02.59:30 Time Off Btm: 2016.10.06 @ 00.10000 Start Date: 2016.10.06 @ 00.10000 2016.10.06 @ 00.10000 2ND OPENING 60 MINUTES STRONG BLOW DECREASED TO A WEAK STEADY 2 INCH BLOW 2016.10.06 @ 00.10000
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Initial Depth: 4041.00 ft (KB) (IVD) 2016.00 ft (GF) Hole Diameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 10.00 ft Serial #: 9139 Inside KB to GR/CF: 10.00 ft Press@RunDepth: 1352.11 psia @ 4044.00 ft (KB) Capacity: 5000.00 psia Start Date: 2016.10.06 End Date: 2016.10.06 Last Calib.: 2016.10.06 @ 02:59:30 Start Date: 01:25:00 End Time: 09:00:00 Time On Btm: 2016.10.06 @ 07:18:00 TEST COMMENT: 1ST SHUT-IN 60 MINUTES STRONG BLOW BACK 2ND OPENING 60 MINUTES NOP BLOW BACK 2ND OPENING 60 MINUTES NOP BLOW BACK 2ND OPENING 60 MINUTES NOP BLOW BACK 100.01 ft 10.05.17 Initial Hydro-static 0 91.91 104.87 0pen To Flow (1) 105.17 Initial Hydro-static 0 91.91 104.87 105.21 Shut-In(1) Open To Flow (2) 0 136 152.37 107.55 End Shut-In(1) Open To Flow (2) 0 136 152.37 109.21 Shut-In(2) Final Hydro-static
Serial #: 9139 Inside Press@RunDepth: 1352.11 psia @ 4044.00 ft (KB) Capacity: 5000.00 psia Start Date: 2016.10.06 End Date: 2016.10.06 Last Calib.: 2016.10.06 @ 02:59:30 Start Time: 01:25:00 End Time: 09:00:00 Time On Btm: 2016.10.06 @ 02:59:30 TEST COMMENT: 1ST OPENING 15 MINUTES FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 6 MINUTES VID OPENING 60 MINUTES STONG BLOW DECREASED TO A WEAK STEADY 2 INCH BLOW 2016.10.06 @ 07:18:00 Time Off Btm: 2016.10.06 @ 07:18:00 VID OPENING 60 MINUTES STONG BLOW DECREASED TO A WEAK STEADY 2 INCH BLOW Time Pressure vs. Time Time Pressure vs. Time OPENING 10 Stommary to the stome vs. Time OPENING 10 Stommary to the stome vs. Time OPENING 10 Stommary to the stome vs. Time
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220
Recovery Gas Rates
Length (ft) Description Volume (bbl) Choke (inches) Pressure (psia) Gas Rate (Mcf/d)
0.00 2150 GAS IN THE PIPE 0.00