



Scale 1:240 Imperial

Well Name: Slattery 1-16
Surface Location: 902' FNL _800' FWL, Sec. 16-T18s-R14w
Bottom Location:
API: 15-009-26273-00-00
License Number:
Spud Date: 9/27/2019 Time: 4:15 AM
Region: Barton
Drilling Completed: 10/3/2019 Time: 6:15 PM
Surface Coordinates:
Bottom Hole Coordinates:
Ground Elevation: 1959.00ft
K.B. Elevation: 1964.00ft
Logged Interval: 2900.00ft To: 3550.00ft
Total Depth: 3550.00ft
Formation: Lansing Kansas-City
Drilling Fluid Type: Chemical/Fresh Water Gel

OPERATOR

Company: Shelby Resources, LLC
Address: 13949 W Colfax Ave., Bldg 1, Ste 120
Lakewood, CO 80401

Contact Geologist: Janine Sturdavant
Contact Phone Nbr: 303-907-2209 / 720-274-4682
Well Name: Slattery 1-16
Location: 902' FNL _800' FWL, Sec. 16-T18s-R14w
API: 15-009-26273-00-00
Pool:
State: Kansas Field: USA
Country: USA

LOGGED BY



Company: Shelby Resources, LLC
Address: 13949 W Colfax Ave., Bldg 1, Ste 120
Lakewood, CO 80401

Phone Nbr: 203-671-6034
Logged By: Geologist Name: Jeremy Schwartz

NOTES

The Shelby Resources, LLC Slattery #1-16 was drilled to a total depth of 3550', bottoming in the Arbuckle. A Pason gas detector was employed in the drilling of said well.

Four DST's were conducted during the drilling of this well throughout the Lansing and Arbuckle zones. The DST reports can be found at the bottom of this log.

Due to neagative DST results, lack of 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.

****NOTE: The Log tops are 4-6' high to the Drill Time/Sample Tops so all DST's need to moved up accordingly****

Respectfully Submitted,
Jeremy Schwartz
Geologist

CONTRACTOR

Contractor: W.W. Drilling
Rig #: 8
Rig Type: mud rotary
Spud Date: 9/27/2019
TD Date: 10/3/2019
Rig Release:

CONTRACTOR

Time: 4:15 AM
Time: 6:15 PM
Time:

ELEVATIONS

K.B. Elevation: 1964.00ft
K.B. to Ground: 5.00ft

Ground Elevation: 1959.00ft

DATE	DEPTH	ACTIVITY
Tuesday, October 01, 2019	3100'	Geologist Jeremy Schwartz on location @ ~0100hrs, drlg ahead through Heebner
		Toronto, Douglas, Brown Lime, LKC, CFS @ 3297', resume drlg into LKC G, CFS @ 3310'
	3310'	Strap out to Conduct DST #1 in the LKC A-G, successful test, resume drlg ahead,
		CFS @ 3378', resume drlg, CFS @ 3395', resume drlg, CFS @ 3415', drop survey,
Wednesday, October 02, 2019	3415'	TOH for DST #2 in the Lansing H-K, successful test, resume drlg, CFS @ 3464',
	3481'	resume drlg, CFS @ 3481', TOH to conduct DST #3 in the Arbuckle
Thursday, October 03, 2019	3487'	successful test, resume drlg, CFS @ 3487', TOH to conduct DST #4 in the Arbuckle
	3550'	successful test, resume drlg ahead to TD, TD of 3550' reached @ 1815hrs
		CTCH 1hr, drop survey, TOH to conduct Logging Operations
Friday, October 04, 2019	3550'	Logging Operations complete @ 0130hrs
		Geologist Jeremy Schwartz off location @ 0145hrs

CLIENT:	SHELBY RESOURCES, LLC
WELL NAME:	SLATTERY #1-16
LEGAL:	902' FNL & 800' FWL 16-185-14W
COUNTY:	BARTON
API:	15-009-26273-00-00
DRLG CONTRACTOR:	W.W. Drilling
RIG #:	8
DOGHOUSE #:	(785) 259-0816
TOOLPUSHER:	Scott Piland
CELL #:	(620) 639-1843

D&A				D&A				D&A				D&A										
SHELBY RESOURCES, LLC				L.D. DRILLING				SHELBY RESOURCES, LLC				STERLING DRLG CO.										
SLATTERY #1-16				FLOREINE 1-16				WS #1-15				KEENER #1										
NW-SE-NW-NW 16-185-14W				NE NE NE SW 16-185-14W				NW SW NE SE 16-185-14W				SW SE NW SW 15-185-14W										
KB		1964		KB		1956		KB		1940		KB		1942		KB		1964				
LOG TOPS		SAMPLE TOPS		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		COMP. CARD		LOG		SMPL.		
FORMATION	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.	DEPTH	DATUM	CORR.	CORR.		
ANHYDRITE TOP	925	1038	923	1041	914	1042	-	4	-	1	890	1050	-	12	-	9	886	1056	-	18	-	15
BASE	950	1014			943	1013	+	1	-		913	1027	-	13	-		912	1030	-	16	-	
TOPEKA	2926	-962	2931	-967	2924	-968	+	6	+	1	2898	-958	-	4	-	9	2900	-958	-	4	-	9
KING HILL	2996	-1032	3000	-1036	2993	-1037	+	5	+	1	2968	-1028	-	4	-	8	2968	-1026	-	6	-	10
QUEEN HILL	3058	-1094	3065	-1101	3057	-1101	+	7	+	0	3032	-1092	-	2	-	9	3032	-1090	-	4	-	11
HEEBNER	3145	-1181	3151	-1187	3138	-1182	+	1	-	5	3116	-1176	-	5	-	11	3114	-1172	-	9	-	15
TORONTO	3152	-1188	3160	-1196	3152	-1196	+	8	+	0	3126	-1186	-	2	-	10	3123	-1181	-	7	-	15
DOUGLAS	3166	-1202	3172	-1208	3167	-1211	+	9	+	3	3141	-1201	-	1	-	7	3136	-1194	-	8	-	14
BROWN LIME	3214	-1250	3220	-1256	3214	-1258	+	8	+	2	3190	-1250	+	0	-	6	3188	-1246	-	4	-	10
LKC	3222	-1258	3229	-1265	3224	-1268	+	10	+	3	3200	-1260	+	2	-	5	3197	-1255	-	3	-	10
LKC G POROSITY	3297	-1333	3302	-1338	3297	-1341	+	8	+	3	3270	-1330	-	3	-	8	3267	-1325	-	8	-	13
MUNCIE CREEK	3355	-1391	3361	-1397	3350	-1394	+	3	-	3	3329	-1389	-	2	-	8	3326	-1384	-	7	-	13
LKC H	3358	-1394	3364	-1400	3353	-1397	+	3	-	3	3332	-1392	-	2	-	8	3330	-1388	-	6	-	12
LKC I	3379	-1415	3383	-1419	3371	-1415	+	0	-	4	3349	-1409	-	6	-	10	3351	-1409	-	6	-	10
LKC J	3392	-1428	3394	-1430	3384	-1428	+	0	-	2	3362	-1422	-	6	-	8	3364	-1422	-	6	-	8
STARK SHALE	3408	-1444	3411	-1447	3400	-1444	+	0	-	3	3378	-1438	-	6	-	9	3381	-1439	-	5	-	8
BKC	3431	-1467	3436	-1472	3428	-1472	+	5	+	0	3402	-1462	-	5	-	10	3404	-1462	-	5	-	10
MARMATON	3438	-1474	3443	-1479	3438	-1482	+	8	+	3	3411	-1471	-	3	-	8	3408	-1466	-	8	-	13
ARBuckle	3466	-1502	3471	-1507	3458	-1502	+	0	-	5	3438	-1498	-	4	-	9	3439	-1497	-	5	-	10
RTD			3550	-1586	3550	-1594			+	8	3550	-1610			+	24	3507	-1565			-	21
LTD	3545	-1581			3545	-1589	+	8			3550	-1610	+	29			3504	-1562	-	19		

ROCK TYPES

	Congl		Lmst fw<7 shale, gry		Carbon Sh
	Dolprim				

ACCESSORIES

FOSSIL

○ Bioclastic or Fragmental

STRINGER

 Limestone
 Sandstone
 Siltstone
 Shale
 green shale
 red shale

TEXTURE

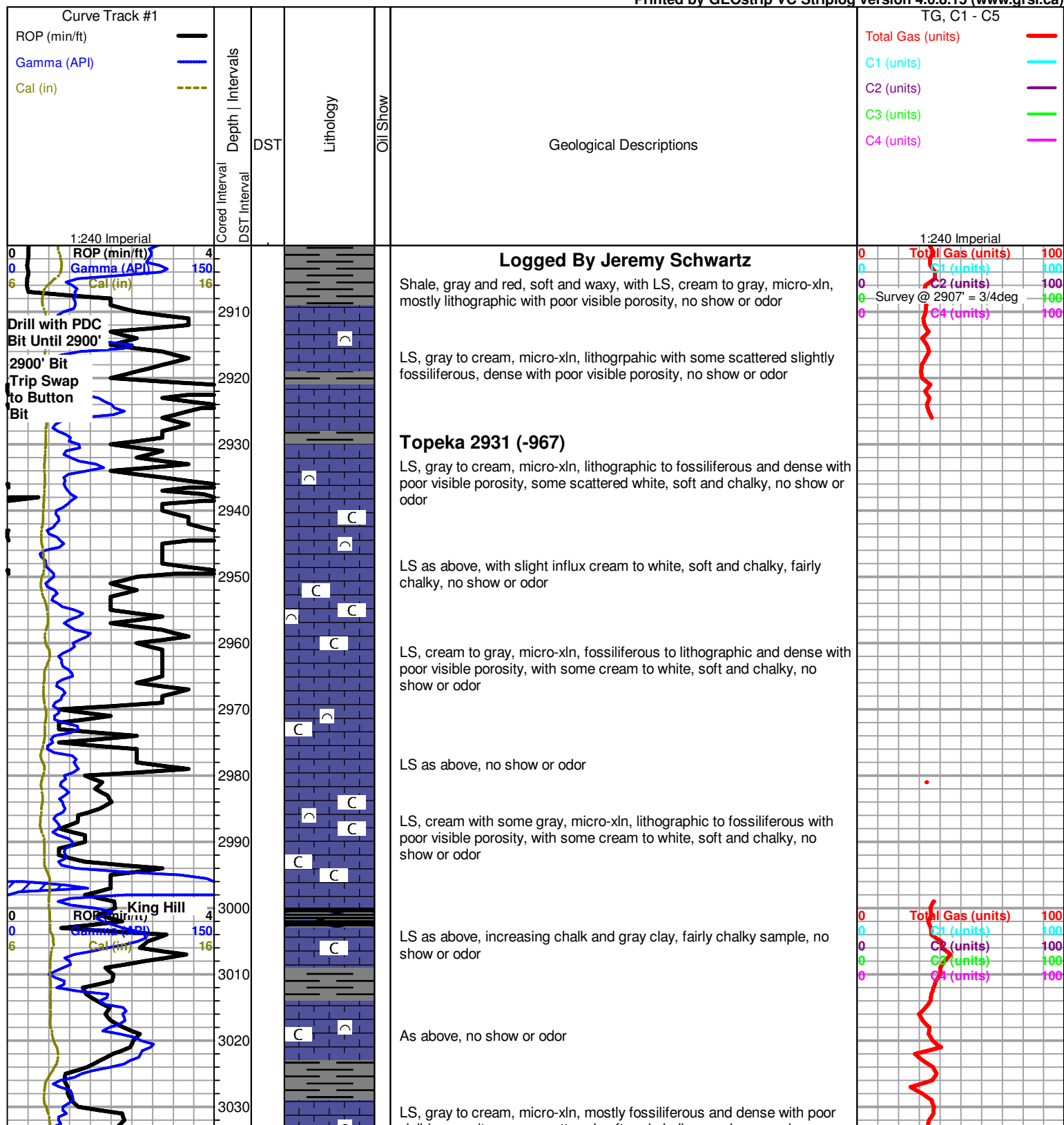
C Chalky

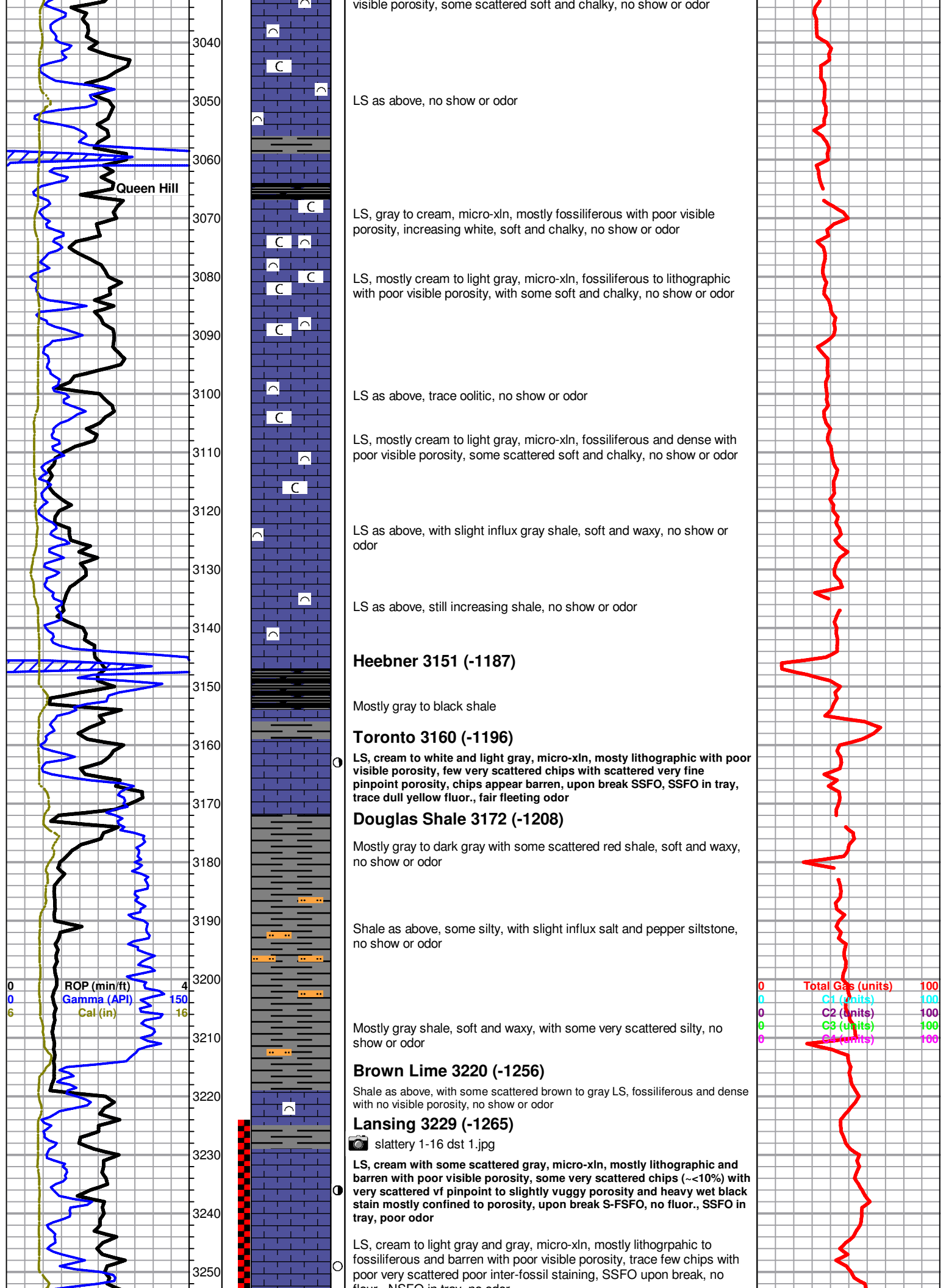
OTHER SYMBOLS

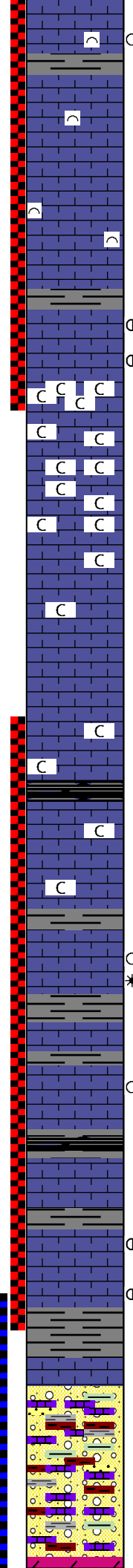
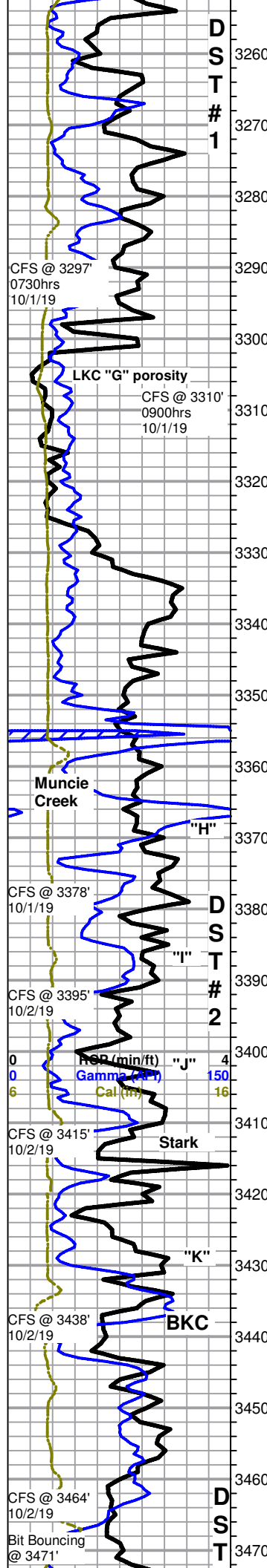
- MISC
- DR Daily Report
 - Digital Photo
 - Document
 - Folder
 - Link
 - Vertical Log File
 - Horizontal Log File
 - Core Log File
 - Drill Cuttings Rpt

- DST
- DST Int
 - DST alt

Printed by GEOstrip VC Striplog version 4.0.8.15 (www.grsi.ca)







flour., NSFO in tray, no odor

LS, gray to cream, micro-xln, mostly lithographic to fossiliferous and dense with poor visible porosity, few very scattered chips with slightly vuggy edges and wet black stain in porosity only, chips too dense to break, some scattered dull yellow fluor., NSFO in tray, poor fleeting odor

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

3297' 30" LS as above, with few very scattered chips with poor scattered pinpoint porosity and poor very scattered stain, NSFO upon break, no fluor., poor fleeting odor

3297' 60" LS, cream to white, micro-xln, lithographic and dense to soft and chalky with poor visible porosity, some scattered chips (~10-15%) with some scattered mostly poor vif pinpoint porosity and slight stain in porosity only, some chips with free oil pooling up on them, upon break most have S-FSFO and show some scattered fair inter-xln porosity and staining, no fluor., FSFO in tray, good odor

3310' 30" LS, cream, micro-xln, mostly lithographic with poor visible porosity, some scattered oolitic, with some very scattered small oomoldic chips with scattered light brown stain in and around porosity, chips very friable, FSFO upon break, FSFO in tray, good odor

3310' 60" Mostly same as above, with slight influx oomoldic with scattered stain, some small oomoldic chips with large voids and free oil inside, chalky, good odor

~3320' LS, cream to white, micro-xln, mostly sub-oomoldic and dense with poor visible porosity, barren, very chalky, no fluor., or odor

LS as above, with influx gray lithographic and very dense with no visible porosity, slightly less chalky, no show, fluor. or odor

LS, gray to brown with some scattered cream, mico-xln, mostly lithographic with some scattered slightly fossiliferous, dense with no visible porosity, no show, fluor., or odor

LS as above, slightly chalky, no show, fluor., or odor

slattery 1-16 dst 2.jpg

3378' 30" LS, cream to gray with some scattered brown, micro-xln, mostly lithographic and dense with poor visible porosity, slightly chalky, no show, fluor., or odor

3378' 60" LS, cream to light gray with some scattered gray and brown, micro-xln, lithographic with poor visible porosity, some scattered soft and chalky, no show, fluor., or odor

3395' 30" LS, cream, micro-xln, lithographic and mostly dense with poor visible porosity, some very scattered chips with scattered poor black stain, some too dense to break, upon break others have NSFO, fair show free gas bubbles in wet tray, no fluor., poor fleeting odor

3395' 60" Mostly same as above, NSFO, slight show gas bubbles in wet tray, trace dull yellow fluor., in few chips, poor fleeting odor

~3400' LS, cream, micro-xln, mostly lithographic with poor visible porosity, trace oolitic with trace poor inter-oolite stain in few chips, NSFO, no fluor., or odor

3415' 30" LS as above, few small oolitic chips with scattered fair inter-oolite stain, friable, SSFO upon break, NSFO in tray, no fluor., or odor

3415' 60" LS, cream to gray, micro-xln, lithographic with poor visible porosity, no show, fluor., or odor

Mostly same as above, few very scattered chips brown, micro-xln, with slightly vuggy edges and light brown to heavy wet black stain in porosity only, chips too dense to break, NSFO in tray, no fluor., or odor

3438' 30" As above, with slight influx dense brown LS with slight to fair vuggy edges and brown to heavy wet black staining inside porosity only, upon break SSFO and few chips show fair vuggy inter-xln porosity with stain, most too dense to break, NSFO in tray, no fluor., poor odor

3438' 60" LS as above, with shows noticeably dropping out, NSFO, no fluor., or odor

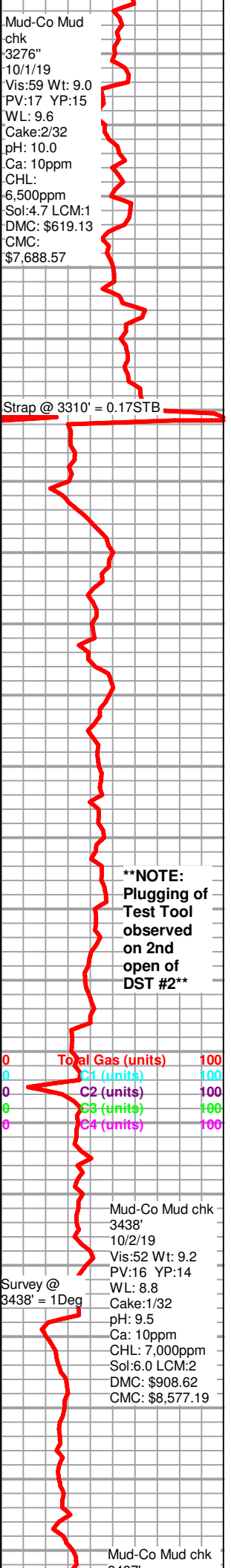
LS, cream, micro-xln, lithographic and barren with poor visible porosity, with abundant gray and red shale, no shows or odor

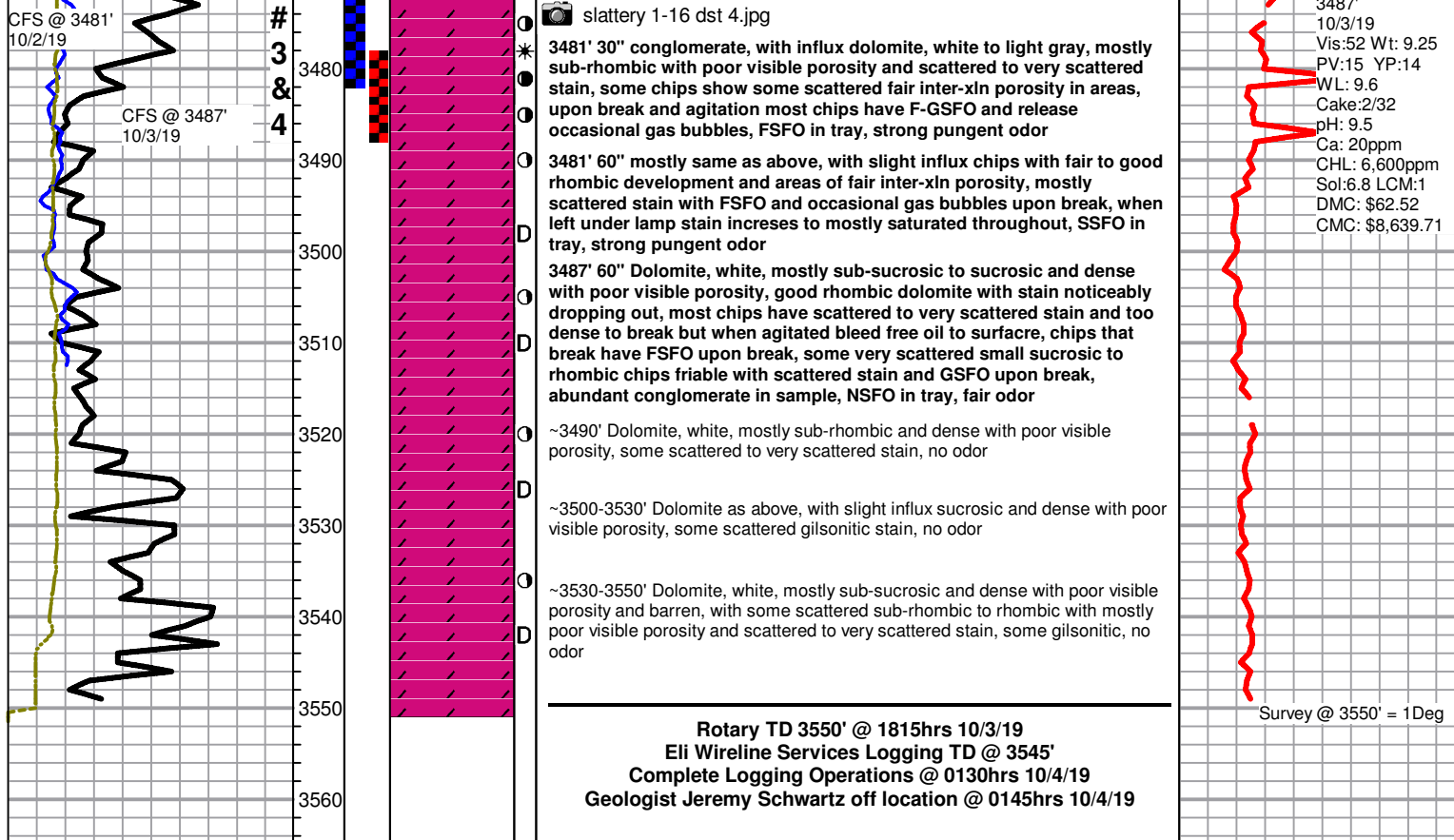
3464' 30" Mixed cream to white and gray LS, micro-xln, mostly lithographic with poor visible porosity, with abundant gray to red and trace green shale, also with some scattered loose fine sub-rounded to rounded quartz SS grains trapped in globs of gray and red clay, heavy red wash, no show or odor

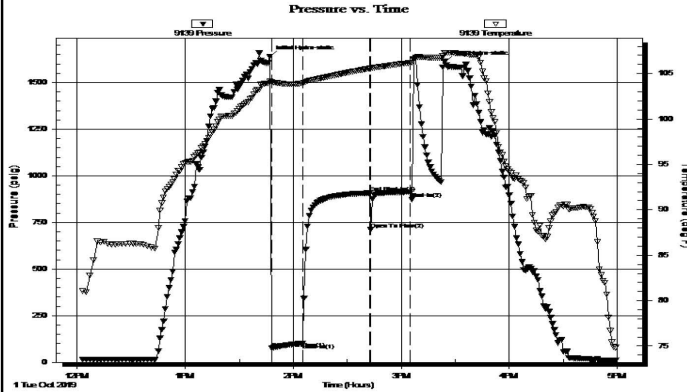
3464' 60" Conglomerate as above, with trace white to tan chert, heavy red wash, no show or odor

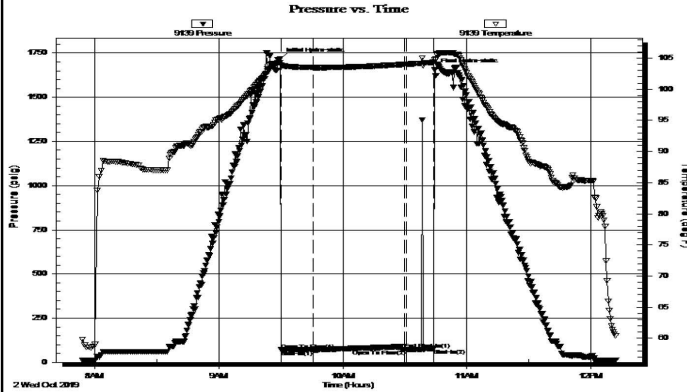
Arbuckle 3471 (-1507)

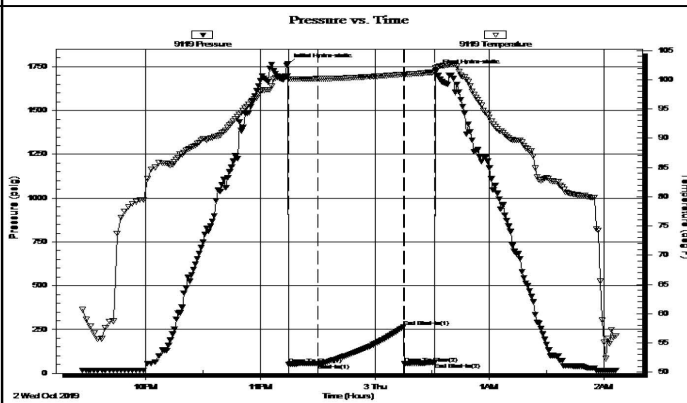
slattery 1-16 dst 3.jpg

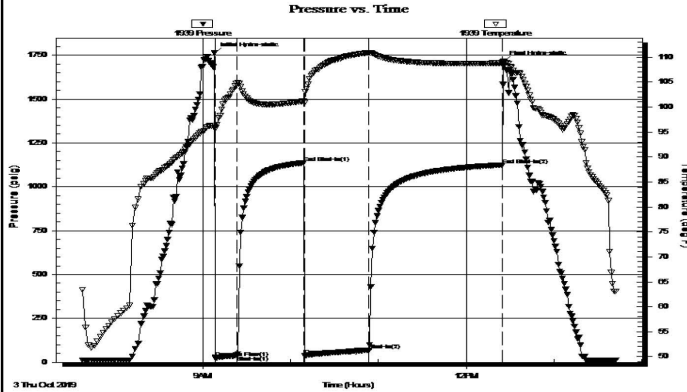




	DRILL STEM TEST REPORT																																																		
Shelby Resources LLC 13949 W Colfax bld.1 Sut 120 Lakewood, Colorado 80401 ATTN: Jeremy Schwartz	16-18s-14w Slattery #1-16 Job Ticket: 01372 DST#: 1 Test Start: 2019.10.01 @ 12:00:00																																																		
GENERAL INFORMATION:																																																			
Formation: Kansas City "A-G" Deviated: No Whipstock: ft (KB) Time Tool Opened: 13:49:00 Time Test Ended: 18:11:00 Interval: 3224.00 ft (KB) To 3310.00 ft (KB) (TVD) Total Depth: 3310.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Test Type: Conventional Bottom Hole (Initial) Tester: Gene Budig Unit No: 1 Reference Elevations: 1964.00 ft (KB) 1959.00 ft (CF) KB to GR/CF: 5.00 ft																																																	
Serial #: 9139																																																			
Press@RunDepth: 907.89 psig @ ft (KB) Start Date: 2019.10.01 End Date: 2019.10.01 Start Time: 12:00:00 End Time: 16:59:00		Capacity: psig Last Calib.: 1899.12.30 Time On Btm: 2019.10.01 @ 13:47:00 Time Off Btm: 2019.10.01 @ 15:24:00																																																	
TEST COMMENT: 1st Opening 15 Minutes weak 1/2 blow to weak surface blow 1st Shut-In 45 Minutes 2nd Opening 36 Minutes no blow flushed tool no help 2nd Shut-In none taken																																																			
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">PRESSURE SUMMARY</th> </tr> <tr> <th style="width: 10%;">Time (Min.)</th> <th style="width: 15%;">Pressure (psig)</th> <th style="width: 10%;">Temp (deg F)</th> <th style="width: 75%;">Annotation</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1638.70</td> <td>104.14</td> <td>Initial Hydro-static</td> </tr> <tr> <td>1</td> <td>75.16</td> <td>104.06</td> <td>Open To Flow (1)</td> </tr> <tr> <td>18</td> <td>102.13</td> <td>103.92</td> <td>Shut-In(1)</td> </tr> <tr> <td>56</td> <td>907.89</td> <td>105.56</td> <td>End Shut-In(1)</td> </tr> <tr> <td>56</td> <td>711.43</td> <td>105.53</td> <td>Open To Flow (2)</td> </tr> <tr> <td>78</td> <td>913.02</td> <td>106.18</td> <td>Shut-In(2)</td> </tr> <tr> <td>97</td> <td>1612.48</td> <td>107.25</td> <td>Final Hydro-static</td> </tr> </tbody> </table>		PRESSURE SUMMARY				Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1638.70	104.14	Initial Hydro-static	1	75.16	104.06	Open To Flow (1)	18	102.13	103.92	Shut-In(1)	56	907.89	105.56	End Shut-In(1)	56	711.43	105.53	Open To Flow (2)	78	913.02	106.18	Shut-In(2)	97	1612.48	107.25	Final Hydro-static												
PRESSURE SUMMARY																																																			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation																																																
0	1638.70	104.14	Initial Hydro-static																																																
1	75.16	104.06	Open To Flow (1)																																																
18	102.13	103.92	Shut-In(1)																																																
56	907.89	105.56	End Shut-In(1)																																																
56	711.43	105.53	Open To Flow (2)																																																
78	913.02	106.18	Shut-In(2)																																																
97	1612.48	107.25	Final Hydro-static																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Recovery</th> </tr> <tr> <th style="width: 15%;">Length (ft)</th> <th style="width: 55%;">Description</th> <th style="width: 30%;">Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>60.00</td> <td>drilling mud</td> <td>0.00</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Recovery			Length (ft)	Description	Volume (bbl)	60.00	drilling mud	0.00																<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Gas Rates</th> </tr> <tr> <th style="width: 30%;"> </th> <th style="width: 15%;">Choke (inches)</th> <th style="width: 20%;">Pressure (psig)</th> <th style="width: 35%;">Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Gas Rates					Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																
Recovery																																																			
Length (ft)	Description	Volume (bbl)																																																	
60.00	drilling mud	0.00																																																	
Gas Rates																																																			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																																																

	DRILL STEM TEST REPORT																																																		
Shelby Resources LLC 13949 W Colfax bld.1 Sut 120 Lakewood, Colorado 80401 ATTN: Jeremy Schwartz	16-18s-14w Slattery #1-16 Job Ticket: 01373 DST#:2 Test Start: 2019.10.02 @ 07:51:00																																																		
GENERAL INFORMATION:																																																			
Formation: kansas City "H-K" Deviated: No Whipstock: ft (KB) Time Tool Opened: 09:38:00 Time Test Ended: 12:15:00		Test Type: Conventional Bottom Hole (Initial) Tester: Gene Budig1 Unit No: 1																																																	
Interval: 3353.00 ft (KB) To 3438.00 ft (KB) (TVD) Total Depth: 3438.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 1964.00 ft (KB) 1959.00 ft (CF) KB to GR/CF: 5.00 ft																																																	
Serial #: 9139																																																			
Press@RunDepth: 72.68 psig @ ft (KB) Start Date: 2019.10.02 End Date: 2019.10.02 Start Time: 07:51:00 End Time: 12:12:00		Capacity: psig Last Calib.: 1899.12.30 Time On Btm: 2019.10.02 @ 09:29:30 Time Off Btm: 2019.10.02 @ 10:44:30																																																	
TEST COMMENT: 1st Opening 15 Minutes weak 1/2 inblow decreased to weak surface blow 1st Shut-In 45 Minutes 2nd Opening 25 Minutes no blow flushed tool no help 2nd Shut-In None taken																																																			
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">PRESSURE SUMMARY</th> </tr> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1716.64</td> <td>104.25</td> <td>Initial Hydro-static</td> </tr> <tr> <td>1</td> <td>69.95</td> <td>103.87</td> <td>Open To Flow (1)</td> </tr> <tr> <td>16</td> <td>70.06</td> <td>103.49</td> <td>Shut-In(1)</td> </tr> <tr> <td>61</td> <td>72.68</td> <td>104.01</td> <td>End Shut-In(1)</td> </tr> <tr> <td>61</td> <td>72.69</td> <td>104.02</td> <td>Open To Flow (2)</td> </tr> <tr> <td>75</td> <td>76.11</td> <td>104.33</td> <td>Shut-In(2)</td> </tr> <tr> <td>75</td> <td>1657.89</td> <td>104.70</td> <td>Final Hydro-static</td> </tr> </tbody> </table>		PRESSURE SUMMARY				Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1716.64	104.25	Initial Hydro-static	1	69.95	103.87	Open To Flow (1)	16	70.06	103.49	Shut-In(1)	61	72.68	104.01	End Shut-In(1)	61	72.69	104.02	Open To Flow (2)	75	76.11	104.33	Shut-In(2)	75	1657.89	104.70	Final Hydro-static												
PRESSURE SUMMARY																																																			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation																																																
0	1716.64	104.25	Initial Hydro-static																																																
1	69.95	103.87	Open To Flow (1)																																																
16	70.06	103.49	Shut-In(1)																																																
61	72.68	104.01	End Shut-In(1)																																																
61	72.69	104.02	Open To Flow (2)																																																
75	76.11	104.33	Shut-In(2)																																																
75	1657.89	104.70	Final Hydro-static																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Recovery</th> </tr> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>20.00</td> <td>Drilling Mud32</td> <td>0.10</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Recovery			Length (ft)	Description	Volume (bbl)	20.00	Drilling Mud32	0.10																<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Gas Rates</th> </tr> <tr> <th> </th> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Gas Rates					Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																
Recovery																																																			
Length (ft)	Description	Volume (bbl)																																																	
20.00	Drilling Mud32	0.10																																																	
Gas Rates																																																			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																																																

	DRILL STEM TEST REPORT																																																		
Shelby Resources LLC 13949 W Colfax bld.1 Sut 120 Lakewood, Colorado 80401 ATTN: Jeremy Schwartz	16-18s-14w Slattery #1-16 Job Ticket: 01374 DST#: 3 Test Start: 2019.10.03 @ 21:24:00																																																		
GENERAL INFORMATION:																																																			
Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 23:15:00 Time Test Ended: 02:01:00 Interval: 3434.00 ft (KB) To 3481.00 ft (KB) (TVD) Total Depth: 3481.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Test Type: Conventional Bottom Hole (Initial) Tester: Gene Budig Unit No: 1 Reference Elevations: 1964.00 ft (KB) 1959.00 ft (CF) KB to GR/CF: 5.00 ft																																																	
Serial #: 9119																																																			
Press@RunDepth: 61.09 psig @ ft (KB) Start Date: 2019.10.02 End Date: 2019.10.03 Start Time: 21:27:00 End Time: 02:06:00		Capacity: psig Last Calib.: 1899.12.30 Time On Btm: 2019.10.02 @ 23:14:30 Time Off Btm: 2019.10.03 @ 00:32:00																																																	
TEST COMMENT: 1st Opening 15 Minutes weak surface blow for 14 minutes and died 1st Shut-In 45 Minutes 2nd Opening 20 Minutes no blow flushed tool no help 2nd AShut-In None Taken																																																			
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">PRESSURE SUMMARY</th> </tr> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>1764.38</td> <td>100.61</td> <td>Initial Hydro-static</td> </tr> <tr> <td>1</td> <td>51.95</td> <td>100.16</td> <td>Open To Flow (1)</td> </tr> <tr> <td>16</td> <td>55.97</td> <td>100.16</td> <td>Shut-In(1)</td> </tr> <tr> <td>61</td> <td>264.78</td> <td>100.94</td> <td>End Shut-In(1)</td> </tr> <tr> <td>61</td> <td>57.38</td> <td>100.91</td> <td>Open To Flow (2)</td> </tr> <tr> <td>77</td> <td>61.09</td> <td>101.28</td> <td>End Shut-In(2)</td> </tr> <tr> <td>78</td> <td>1725.91</td> <td>102.11</td> <td>Final Hydro-static</td> </tr> </tbody> </table>		PRESSURE SUMMARY				Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1764.38	100.61	Initial Hydro-static	1	51.95	100.16	Open To Flow (1)	16	55.97	100.16	Shut-In(1)	61	264.78	100.94	End Shut-In(1)	61	57.38	100.91	Open To Flow (2)	77	61.09	101.28	End Shut-In(2)	78	1725.91	102.11	Final Hydro-static												
PRESSURE SUMMARY																																																			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation																																																
0	1764.38	100.61	Initial Hydro-static																																																
1	51.95	100.16	Open To Flow (1)																																																
16	55.97	100.16	Shut-In(1)																																																
61	264.78	100.94	End Shut-In(1)																																																
61	57.38	100.91	Open To Flow (2)																																																
77	61.09	101.28	End Shut-In(2)																																																
78	1725.91	102.11	Final Hydro-static																																																
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Recovery</th> </tr> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr> <td>20.00</td> <td>very slightly oil cut mud 3% Oil 97% Mud</td> <td>0.10</td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Recovery			Length (ft)	Description	Volume (bbl)	20.00	very slightly oil cut mud 3% Oil 97% Mud	0.10																<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Gas Rates</th> </tr> <tr> <th> </th> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Gas Rates					Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																
Recovery																																																			
Length (ft)	Description	Volume (bbl)																																																	
20.00	very slightly oil cut mud 3% Oil 97% Mud	0.10																																																	
Gas Rates																																																			
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																																																

	DRILL STEM TEST REPORT																																														
Shelby Resources LLC 13949 W Colfax bld.1 Sut 120 Lakewood, Colorado 80401 ATTN: Jeremy Schwartz		16-18s-14w Slattery #1-16 Job Ticket: 01375 DST#: 4 Test Start: 2019.10.03 @ 07:35:00																																													
GENERAL INFORMATION:																																															
Formation: Arbuckle Deviated: No Whipstock: ft (KB) Time Tool Opened: 09:09:00 Time Test Ended: 00:00:00		Test Type: Conventional Bottom Hole (Initial) Tester: Gene Budig Unit No:																																													
Interval: 3478.00 ft (KB) To 3487.00 ft (KB) (TVD) Total Depth: 3487.00 ft (KB) (TVD) Hole Diameter: 7.88 inches Hole Condition: Fair		Reference Elevations: 1964.00 ft (KB) 1959.00 ft (CF) KB to GR/CF: 5.00 ft																																													
Serial #: 1939																																															
Press@RunDepth: 1125.02 psig @ ft (KB) Start Date: 2019.10.03 End Date: 2019.10.03 Start Time: 07:35:00 End Time: 13:42:00		Capacity: psig Last Calib.: 1899.12.30 Time On Btm: 2019.10.03 @ 09:08:00 Time Off Btm: 2019.10.03 @ 12:25:30																																													
TEST COMMENT: 1st opening 15 Minutes weak blow built to 2 inches into the water 1st Shut-In 45 Minutes 2nd Opening 45 Minutes weak blow built to 3 inches into the water 2nd Shut-In 90 Minutes																																															
		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">PRESSURE SUMMARY</th> </tr> <tr> <th>Time (Min.)</th> <th>Pressure (psig)</th> <th>Temp (deg F)</th> <th>Annotation</th> </tr> </thead> <tbody> <tr><td>0</td><td>1761.59</td><td>96.31</td><td>Initial Hydro-static</td></tr> <tr><td>1</td><td>25.92</td><td>95.52</td><td>Open To Flow (1)</td></tr> <tr><td>15</td><td>37.98</td><td>104.67</td><td>Shut-In(1)</td></tr> <tr><td>61</td><td>1136.83</td><td>101.19</td><td>End Shut-In(1)</td></tr> <tr><td>62</td><td>39.73</td><td>100.86</td><td>Open To Flow (2)</td></tr> <tr><td>106</td><td>70.04</td><td>110.87</td><td>Shut-In(2)</td></tr> <tr><td>197</td><td>1125.02</td><td>108.80</td><td>End Shut-In(2)</td></tr> <tr><td>198</td><td>1710.92</td><td>109.15</td><td>Final Hydro-static</td></tr> </tbody> </table>		PRESSURE SUMMARY				Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation	0	1761.59	96.31	Initial Hydro-static	1	25.92	95.52	Open To Flow (1)	15	37.98	104.67	Shut-In(1)	61	1136.83	101.19	End Shut-In(1)	62	39.73	100.86	Open To Flow (2)	106	70.04	110.87	Shut-In(2)	197	1125.02	108.80	End Shut-In(2)	198	1710.92	109.15	Final Hydro-static				
PRESSURE SUMMARY																																															
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation																																												
0	1761.59	96.31	Initial Hydro-static																																												
1	25.92	95.52	Open To Flow (1)																																												
15	37.98	104.67	Shut-In(1)																																												
61	1136.83	101.19	End Shut-In(1)																																												
62	39.73	100.86	Open To Flow (2)																																												
106	70.04	110.87	Shut-In(2)																																												
197	1125.02	108.80	End Shut-In(2)																																												
198	1710.92	109.15	Final Hydro-static																																												
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: center;">Recovery</th> </tr> <tr> <th>Length (ft)</th> <th>Description</th> <th>Volume (bbl)</th> </tr> </thead> <tbody> <tr><td>90.00</td><td>chlorides</td><td>0.44</td></tr> <tr><td>0.00</td><td>not a speck of oil</td><td>0.00</td></tr> <tr><td>0.00</td><td>chlorides 16,000</td><td>0.00</td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>		Recovery			Length (ft)	Description	Volume (bbl)	90.00	chlorides	0.44	0.00	not a speck of oil	0.00	0.00	chlorides 16,000	0.00										<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="4" style="text-align: center;">Gas Rates</th> </tr> <tr> <th> </th> <th>Choke (inches)</th> <th>Pressure (psig)</th> <th>Gas Rate (Mcf/d)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>		Gas Rates					Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)												
Recovery																																															
Length (ft)	Description	Volume (bbl)																																													
90.00	chlorides	0.44																																													
0.00	not a speck of oil	0.00																																													
0.00	chlorides 16,000	0.00																																													
Gas Rates																																															
	Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)																																												