

Scale 1:240 (5"=100") Imperial Measured Depth Log

Well Name: Olive #1-21 - Murfin Drilling Company, Inc.

API: 15-023-21522-00-00

Location: SW-NE-NE-NW, Section 21-02S-37W

License Number: KCC #30606 Region: Cheyenne Co., Kansas

Spud Date: September 23, 2019 Drilling Completed: October 04, 2019

Surface Coordinates: 550' FNL & 225' FEL, Results: D & A

of Section

Bottom Hole Vertical Wellbore Field: Wildcat

Coordinates:

Ground Elevation (ft): 3340 Ft. K.B. Elevation (ft): 3345 Ft.

Logged Interval (ft): 3900 Ft. To: 5050 Ft. Total Depth (ft): RTD 5050 Ft. LTD 5052 Ft.

Formation: Mississippian at Total Depth

Type of Drilling Fluid: Chemical

Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

Operator

Company: Murfin Drilling Company, Inc. Address: 250 North Water. Suite 300

Wichita, Kansas 67202-1216

Geologist

Name: M. Bradford Rine

Company: Consulting Geologist, Kansas Lic. #204, Wyo #189, AAPG Cert. #2647

Address: 100 South Main, Suite #320A

Wichita, Kansas 67202

Remarks

Based on sample observations, drill stem test results, and electric log evaluation, it was the decision of the Operator, to plug and abandon the "Olive #1-21", on October 04, 2019.

Respectfully submitted, M. Bradford Rine, geologist

Drilling Information

Rig: Murfin Drlg. Co. Rig #3 Pump: Emsco D-375 6 x 14 Drawworks: Ideco H35 Collars: 534' 2-1/4" x 6-1/4" Drillpipe: 4-1/2" 16.6# XH Toolpusher: Jay Ruzicka

Mud: Morgan (Dave Lines)

Gas Detector: None

Drill Stem Tests: Trilobite (Shawn Wheelbarger)

Logs: Pioneer (lan Mabb)

Water: Frisbie Fresh Water Pit (HSI Tank)

Company Representatives: Office: Michel Runnion

Field: None

Daily Drilling Status

Date:	Operations/Depth/Comments
09-23-19	MIRT, RU, Spud @ 0'
09-24-19	Drilling @ 455'
09-25-19	Drilling @ 2395'
09-26-19	Drilling @ 3650'
09-27-19	Drilling @ 4125'
09-28-19	Drilling @ 4255'
09-29-19	Trip Out of Hole for DST #3 @ 4370'
09-30-19	Trip Out of Hole with DST #4 @ 4420
10-01-19	Trip in Hole after DST #5 @ 4500'
10-02-19	Circulating for Samples @ 4783'
10-03-19	Drilling @ 4900'
10-04-19	Plugging @ 5050'

	Results:	D&A		(Well A)	Oil	
	Murfin Dri	lling Co., In	c.	Murfin Drillin	ng Co., Inc.	
	Olive #1-2:	1		Smith "A" #2	-21	
	550' FNL &	2205' FEL		2310' FSL & 3	30' FEL	
	Sec. 21-02	S-37W		Sec. 21-02S-3	7W	
	КВ	3345		КВ	3416	Well A
Formations	Sample	E-Log	Datum	E-Log	Datum	Comp
Anhydrite	3242	3244	101	3301	115	-14
B/Anhydrite	3272	3272	73	3332	84	-11
Topeka	4056	4060	-715	4118	-702	-13
Oread	4195	4197	-852	4263	-847	-5
Lansing	4270	4272	-927	4340	-924	-3
Stark Sh.	4502	4503	-1158	4563	-1147	-11
Mound City	4555	4557	-1212	4614	-1198	-14
Ft. Scott	4680	4683	-1338	4742	-1326	-12
Oakley	4756	4759	-1414	4816	-1400	-14
Mississippian	4969	4971	-1626	5040	-1624	-2
Total Depth	5050	5052	-1707	5103	-1687	-20

Casing, Bits, Surveys, Pipe Straps, Mudup

CASING:

Conductor: None

Surface: Ran 7 jts, 8-5/8" 23# casing, set @ 302'. (HSI) Cement with 275 sx Class A, 3%CC, 2% gel. Plug down at 8:45 PM, September 23, 2019. Cement did circulate.

Production: Plugged as follows: (HSI) Cement with 225sx 60/40 POZ, 4% gel, 1/4# floseal: 50sx @ 3250', 100sx @ 2500', 50sx @ 350', 10sx @ 40', 30sx in RH, 15sx in MH.

BITS:

No.	Size	Make	Model	Depth In	Depth Out	Hours
1	12-1/4	HTC	B37DX	0	302	03.25
2	7-7/8	Smith	MADi516	302	3900	49.50
3	7-7/8	Smith	F124	3900	5050	67.75

DEVIATION SURVEYS:

Deviation:	Depth:	Deviation:	Depth:	Deviation:	Depth:
0.75*	302'	0.75*	2864'	1.00*	4783'
0.25*	1212'	1.00*	4235'	1.50*	5050'
0.75*	2241'	0.75*	4500'		

PIPE STRAPS:

Difference: Depth: 4.22 ft Short 4235' 3.22 ft long 4300' 2.73 ft long 4370'

Displace and Mudup: Displace @ 3600' Complete @ 3613'

DST #1: 4146-4235 (Oread)

Times: 30-60-30-60

Initial Open: Wk Blow, Built to 1/4" i.b.,

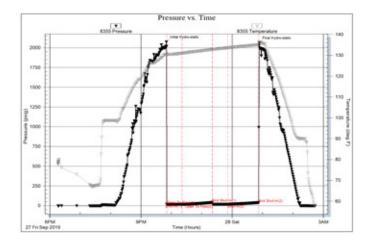
weakened and died in 18 min.

Final Open: No Blow

Rec: 5' mud

IHP: 2071 FHP: 2060 IFP: 18-18 FFP: 17-18 ISIP: 42 FSIP: 38

BHT: 136*F



DST #2: 4219-4300 (Lans A)

Times: 30-60-30-60

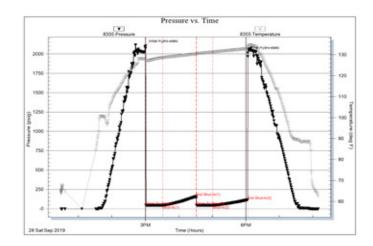
Initial Open: Wk Blow built to 2-3/4" i.b.,

died back to 2-1/2" i.b. Final Open: No Blow

Rec: 59' mud

IHP: 2101 FHP: 2014 IFP: 45-46 FFP: 45-46 ISIP: 159 FSIP: 114

BHT: 134*F (Slid tool 4 ft!)



DST #3: 4291-4370 (Lans D)

Times: 30-60-30-60

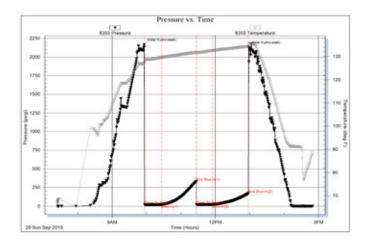
Initial Open: Wk Blow, built to 1-1/4"

Final Open: No Blow

Rec: 5' mud

IHP: 2163 FHP: 2127 IFP: 19-20 FFP: 21-22 ISIP: 332 FSIP: 169

BHT: 135*F



DST #4: 4352-4420 (Lans G)

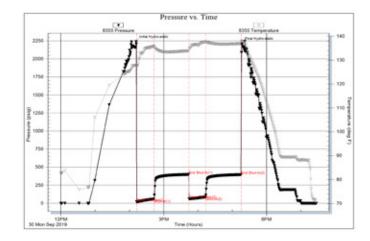
Times: 30-60-30-60

Initial Open: Wk Blow, built to 2-3/4" i.b. Final Open: Wk Blow, built to 1-1/4" i.b.

Rec: 128' SGCM with oil spots,

08% gas, 92% mud IHP: 2237 FHP: 2211 IFP: 18-57 FFP: 59-87 ISIP: 398 FSIP: 395

BHT: 138*F



DST #5: 4407-4500 (LKC H,J)

Times: 30-60-60-90

Initial Open: Wk Blow, built to 3" i.b. Final Open: Fr Blow, built to 4-1/2" i.b.

Rec: 190' Total Fluid

13' SGMCO: 10%g 85%o 05%m

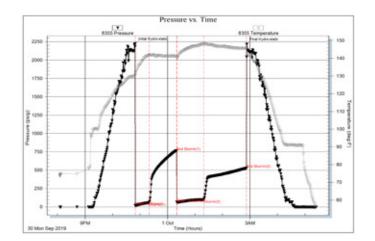
177' GOWCM: 09%g 18%o 21%w 52%

(Oil Gravity 21.3 API)

(Chl/Wtr 14000 ppm Chl/Mud 1100 ppm)

IHP: 2219 FHP: 2214 IFP: 17-60 FFP: 61-100 ISIP: 763 FSIP: 527

BHT: 146*F



DST #6: 4657-4783 (Ft Scott, Lower Ft. Scott, Breezy Hill, Celia)

Times: 30-60-30-60

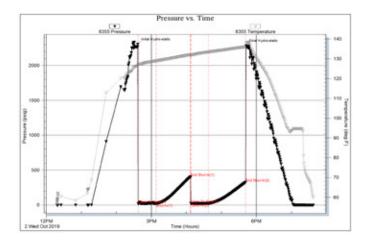
Initial Open: Wk Blow, built to 1-1/4" i.b.

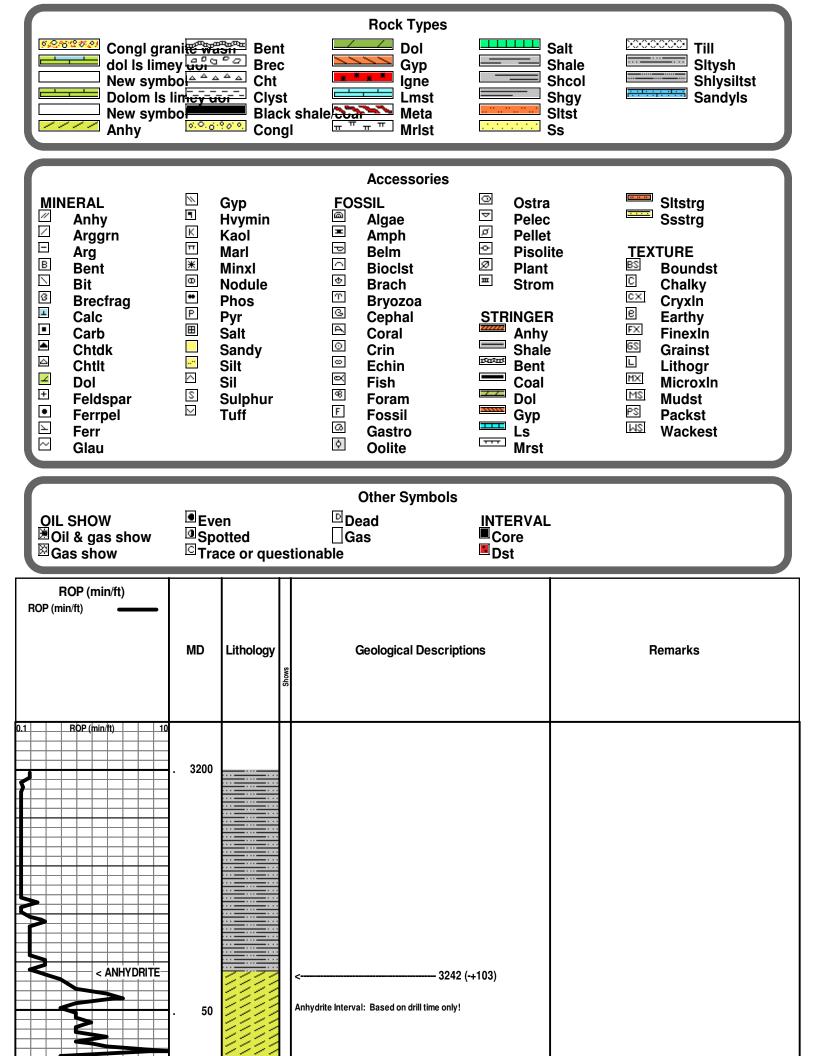
Final Open: No Blow

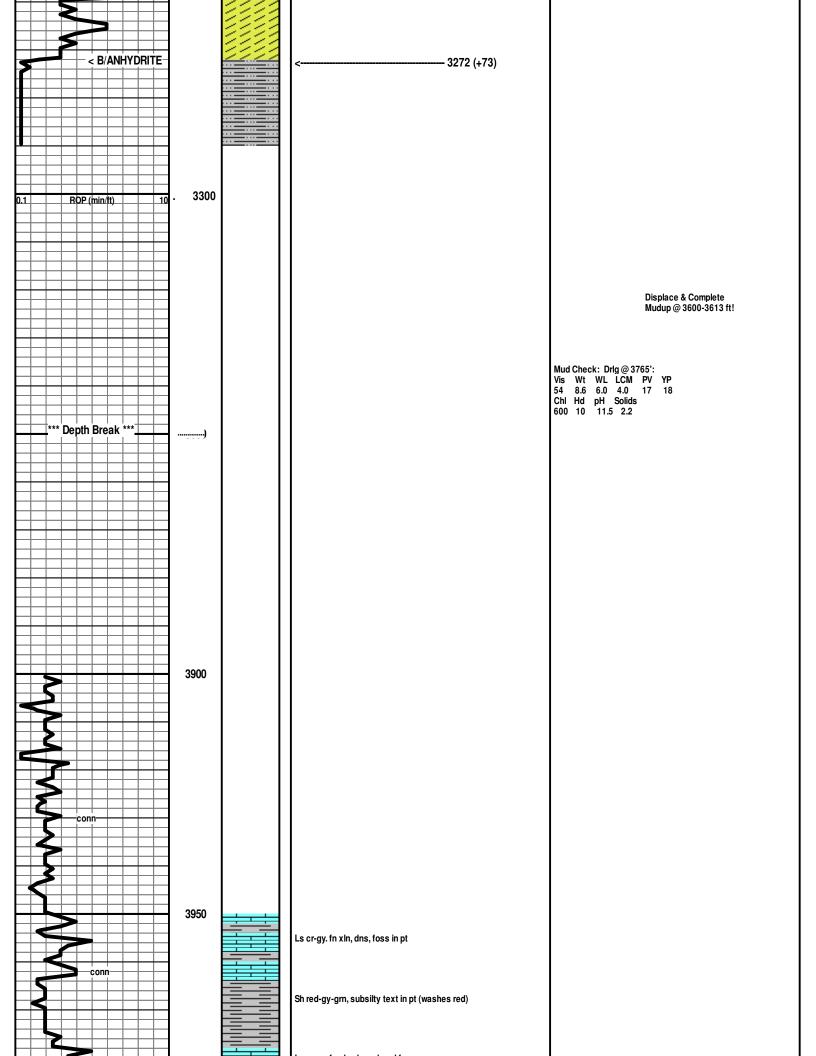
Rec: 10'mud

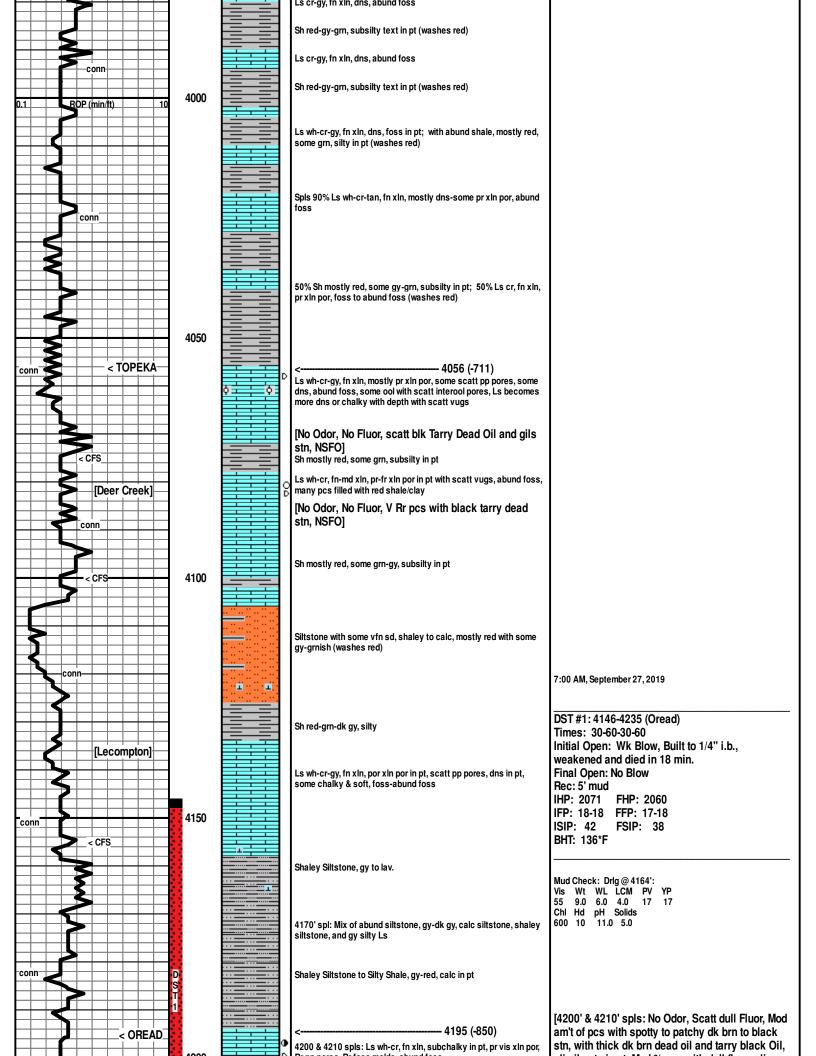
IHP: 2304 FHP: 2283 IFP: 20-21 FFP: 23-23 ISIP: 404 FSIP: 325

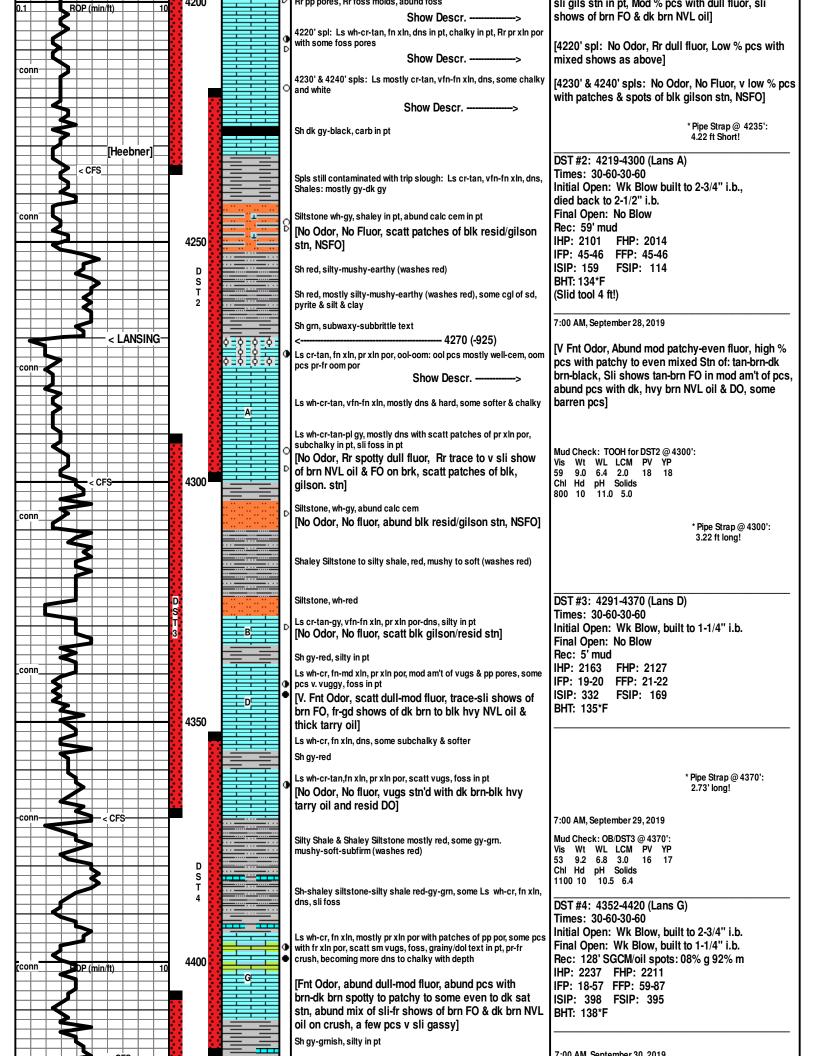
BHT: 138*F

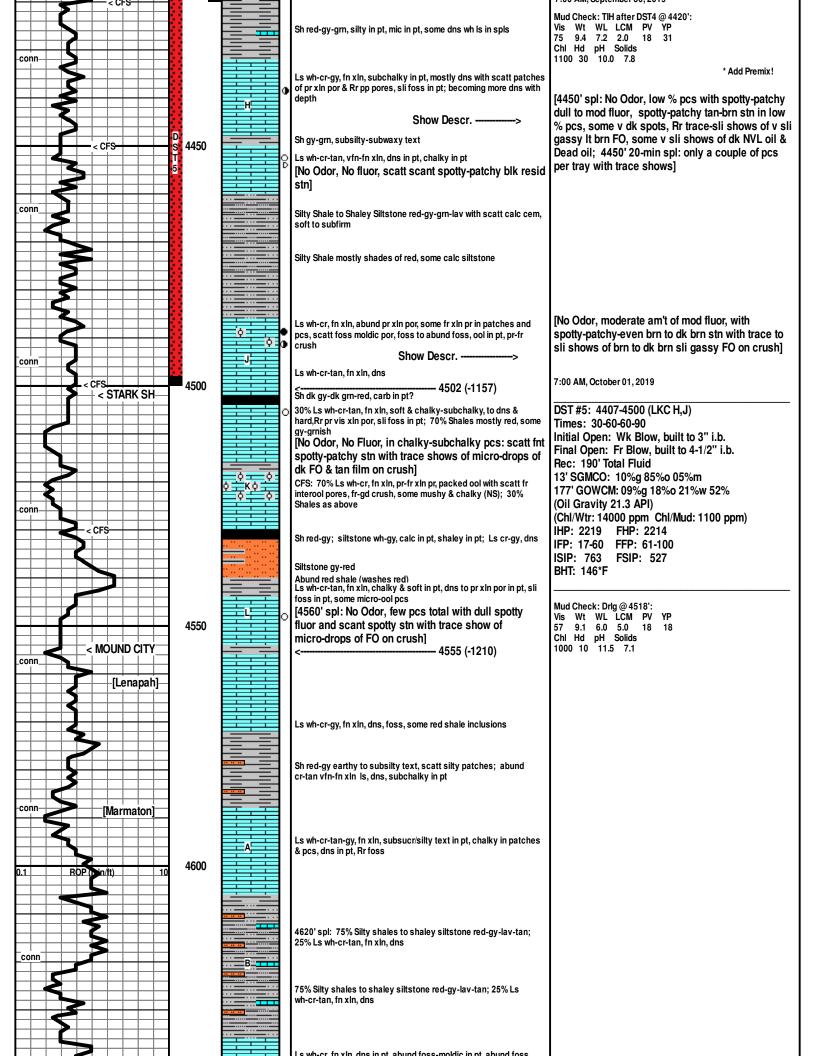


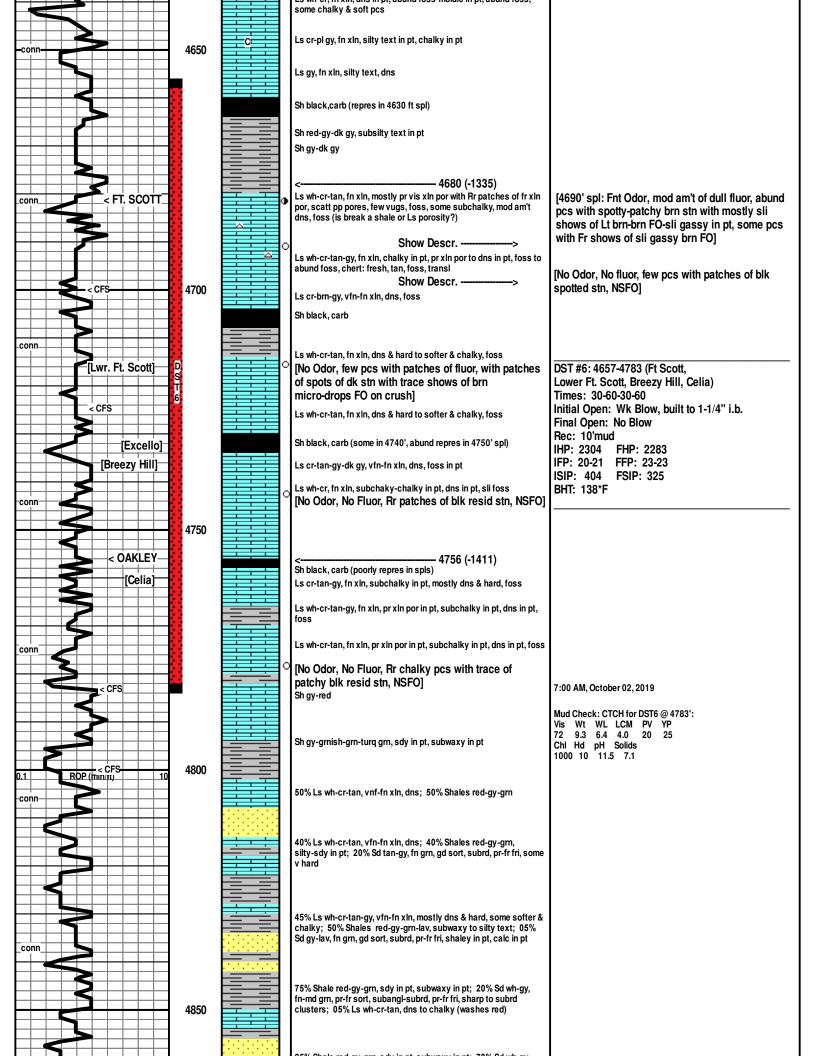


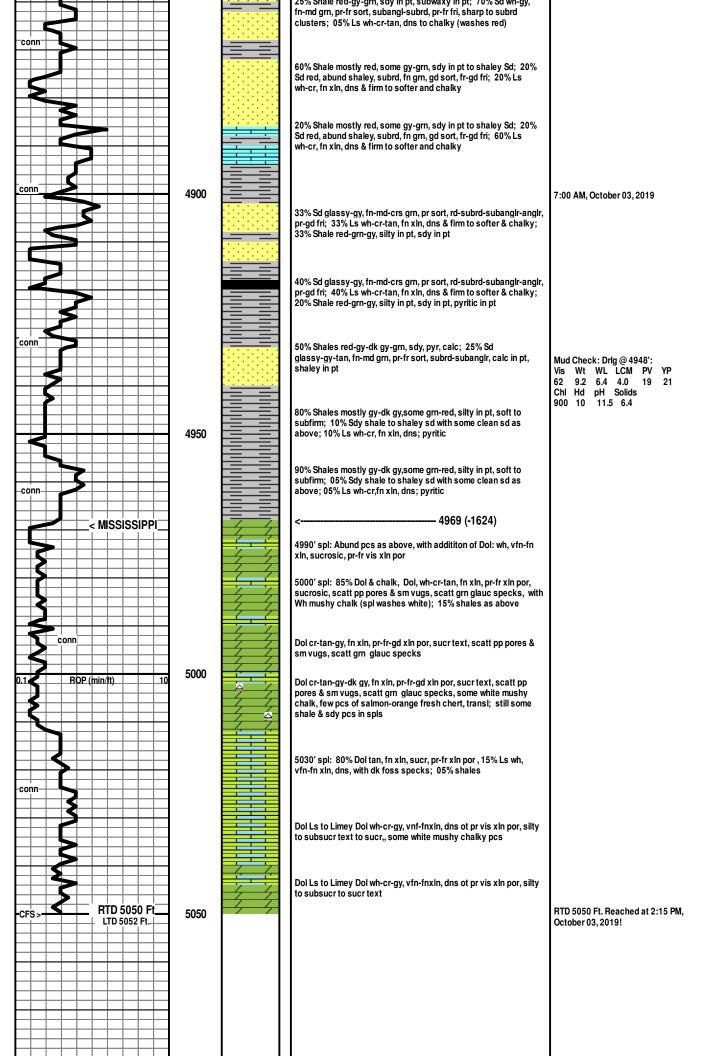












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