

COMPANY & WELL Culbreath O&G Hagen-Jantz #1-2

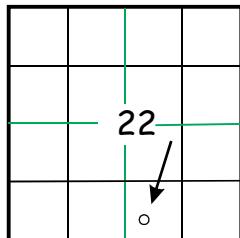
LOCATION 660' FSL 2240' FEL NE SW SW SE

SEC 22 TWP 16S RGE 36W

COUNTY Wichita STATE KS

GEOLOGICAL REPORT**Larry A. Nicholson****FINAL**NAD 83
38.64357099
-101.17299602

COMPANY Culbreath O&G Company, Inc.
 API # 15-203-20346 FIELD Wildcat
 LEASE Hagen-Jantz WELL # #1-22
 LOCATION NE SW SW SE
 SURVEY 660' FSL 2240' FEL
 SECTION 22 TWP 16S RGE 36W
 COUNTY Wichita STATE Kansas



CONTRACTOR STP Drlg TP L Lang Rig # 1
 SPUD 06-17-19 7:45 pm COMP _____
 RTD 4883 11:55am 06-27-19 LTD 4881
 MUD UP AT 3388 650 bbls
 MUD TYPE Chemical, Andy's A. Blew

ELEVATIONSK.B. 3202

D.F. _____

G.L. 3195All measurements from K.B. 3202

SAMPLES SAVED FROM 3600 TO RTD
 DRILLING TIME FROM 3500 TO RTD
 SAMPLES EXAMINED FROM 3600 TO RTD
 GEOLOGICAL SUPERVISION FROM 3600 TO RTD
 WELLSITE GEOLOGIST LARRY A. NICHOLSON

CASING RECORDConductor _____ of _____ w/ _____ sx
 Surface 291 of 8 5/8 w/ 200 sx

Production _____ of _____ w/ _____ sx

ELECTRICAL SURVEYS Haliburton: Neu, Den, Micro, Dual, Sonic**FORMATION TOPS & STRUCTURAL POSITION**

FORMATION	SAMPLE TOPS	SUBSEA DATUM	ELEC LOG TOPS	SUBSEA DATUM	REFERENCE WELL	
					A	B
Anhydrite			2338	+728 .		
Heebner			2358	-774		
Lansing			3845	-822		
Stark			3890	-1090		
BKC			4150	-1184		
Marm			4227	-1238		
Altamont			4267	-1248		
Cherokee Sh			4284	-1390		
Johnson			4444	-1444		
Morrow Sh			4530	-1526		
Mississippian			4594	-1573		
RTD			4670	-1681		
LTD			4671	-1679		

REFERENCE WELLS A: _____
B: _____

LAN 7/92, Modified 5/05, 11/11, 4/12, 4/18 1inch =25.4mm 8.5 x 97.5 216 mm x 2460 mm

DRILLSTEM TEST SUMMARY :**REMARKS & RECOMMENDATIONS:**

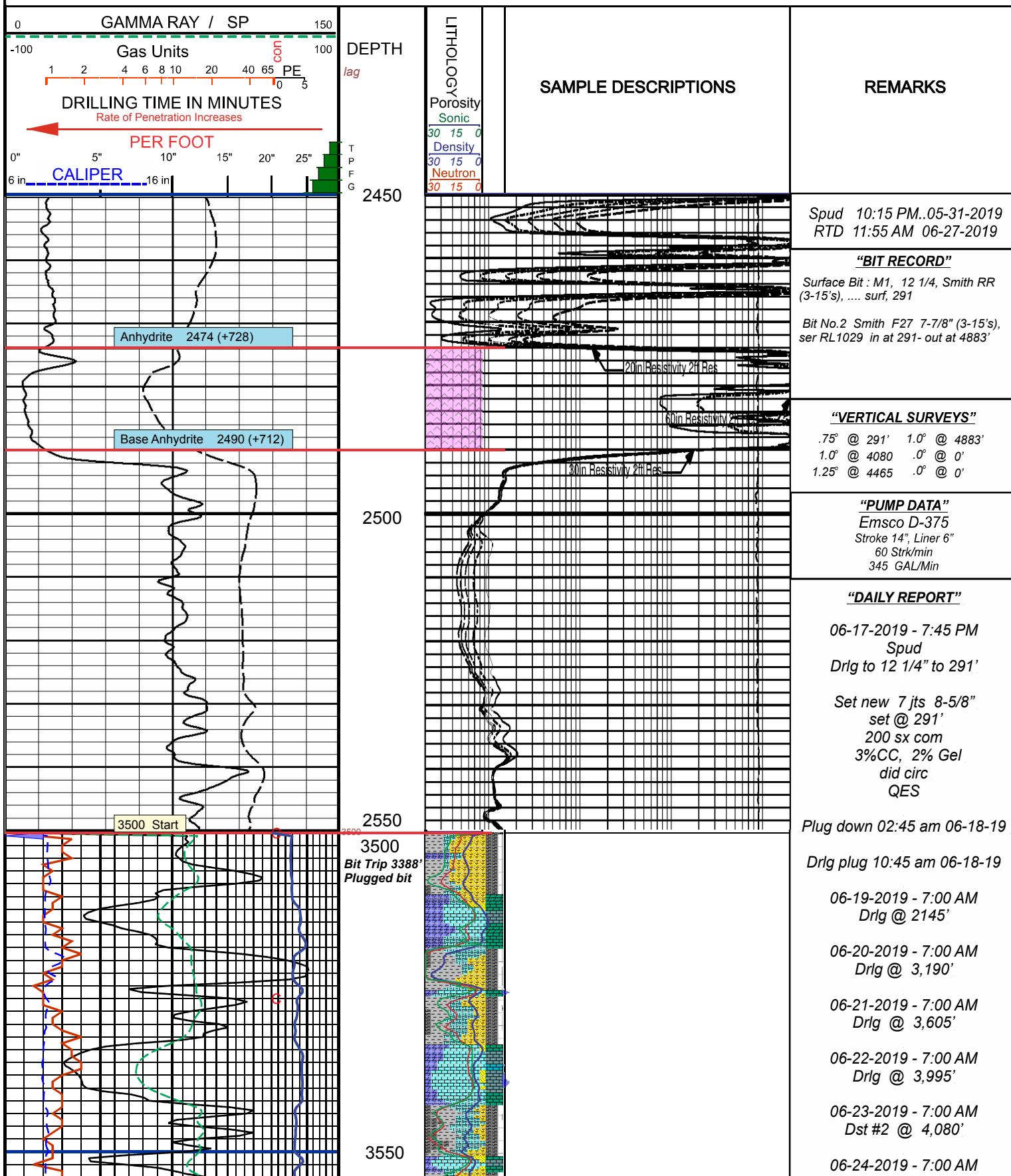
Dst #1 4024-4038 (LCK A) 45 60 45 90 IF:38-76 FF:81-95 SI:1129-1131 Rec 130' MCW O spts 4" O (85W 15M) IF 4 1/2", nr FF 3 1/2", nr BHT 111, RW .167@64, 56K CL
Dst #2 4060-4080 (LCK C) 60 60 30 60 IF:142-537 FF:566-817 SI:2060-2021 Rec 1720' MCW O spts throughout (95W 5M) IF BOB 1.5" -135" blow, nr FF BOB 3: - 99" blow, nr BHT 111, RW .129@72, 58K CL
Dst #3 4239-4318 (LCK I-K) 15 45 15 60 IF:454-745 FF:810-1016 SI:2123-2083 Rec 1200' MCW (97W 3M) Oil spts IF 183" blow, nr FF 135" blow, nr RW .155 @ 74, 51,000ppm BHT 111
Dst #4 4433-4465 (Marmaton) 30 60 30 60 IF:25-36 FF:31-35 SI:1291-1242 Rec 15' O (100O) 5' OCM (200 80M) IF 1/2 blow, nr FF n blow, nr BHT 110, Grav 31 API

The structural position of the well is high.

Based on dst results, samples and log review

the well was P&A

LEGEND



Drlg @ 4,285'

06-25-2019 - 7:00 AM
Drlg @ 4,415'

06-26-2019 - 7:00 AM
Drlg @ 4,524'

06-27-2019 - 7:00 AM
RTD @ 4,825'

06-27-2019 - 11:55 AM
RTD @ 4,883'

06-27-2018 - 4:30 PM
Rig up Haliburton
LTD @ 4,881

Plugged Hole

50sx 2520

80sx 1560

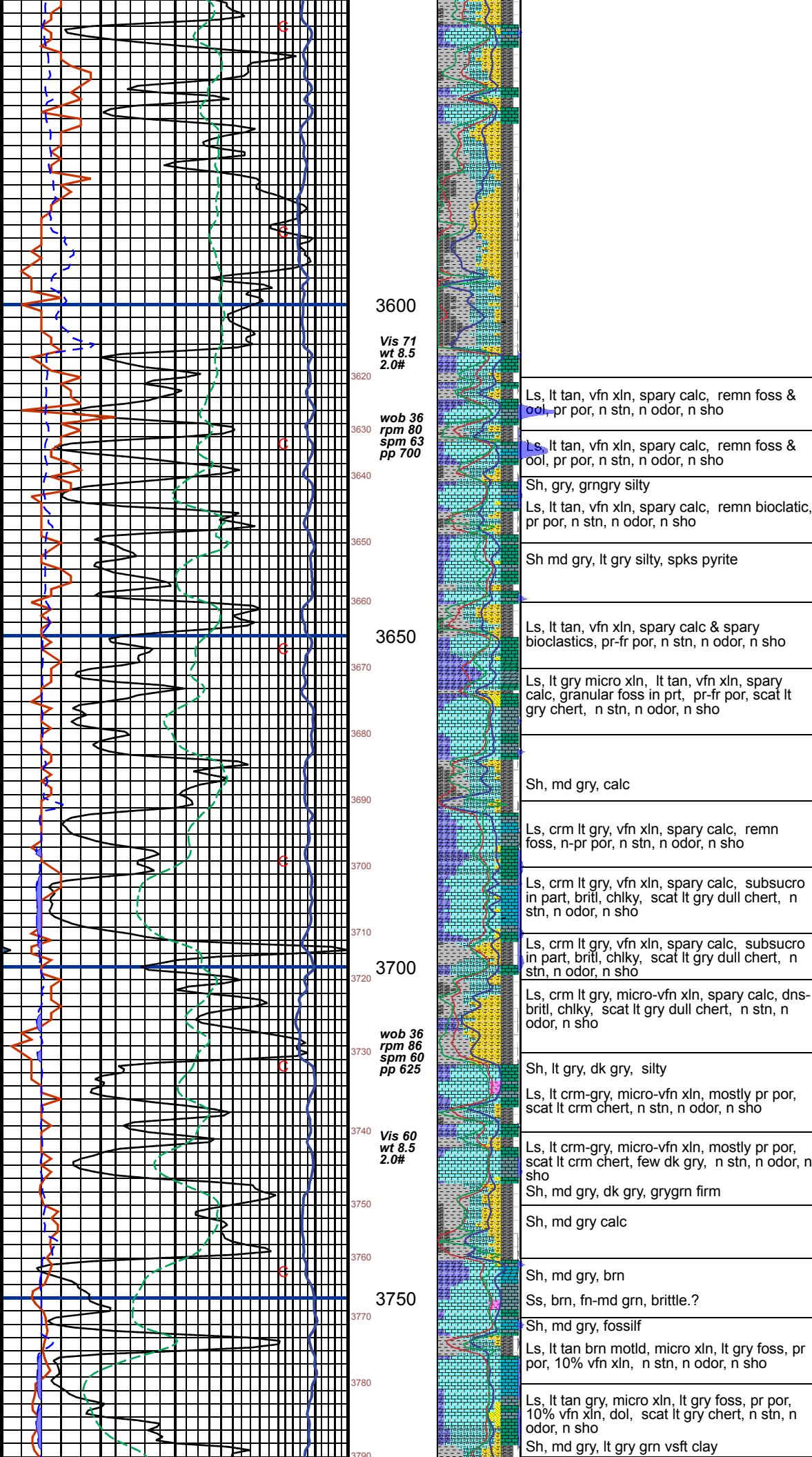
50sx 780

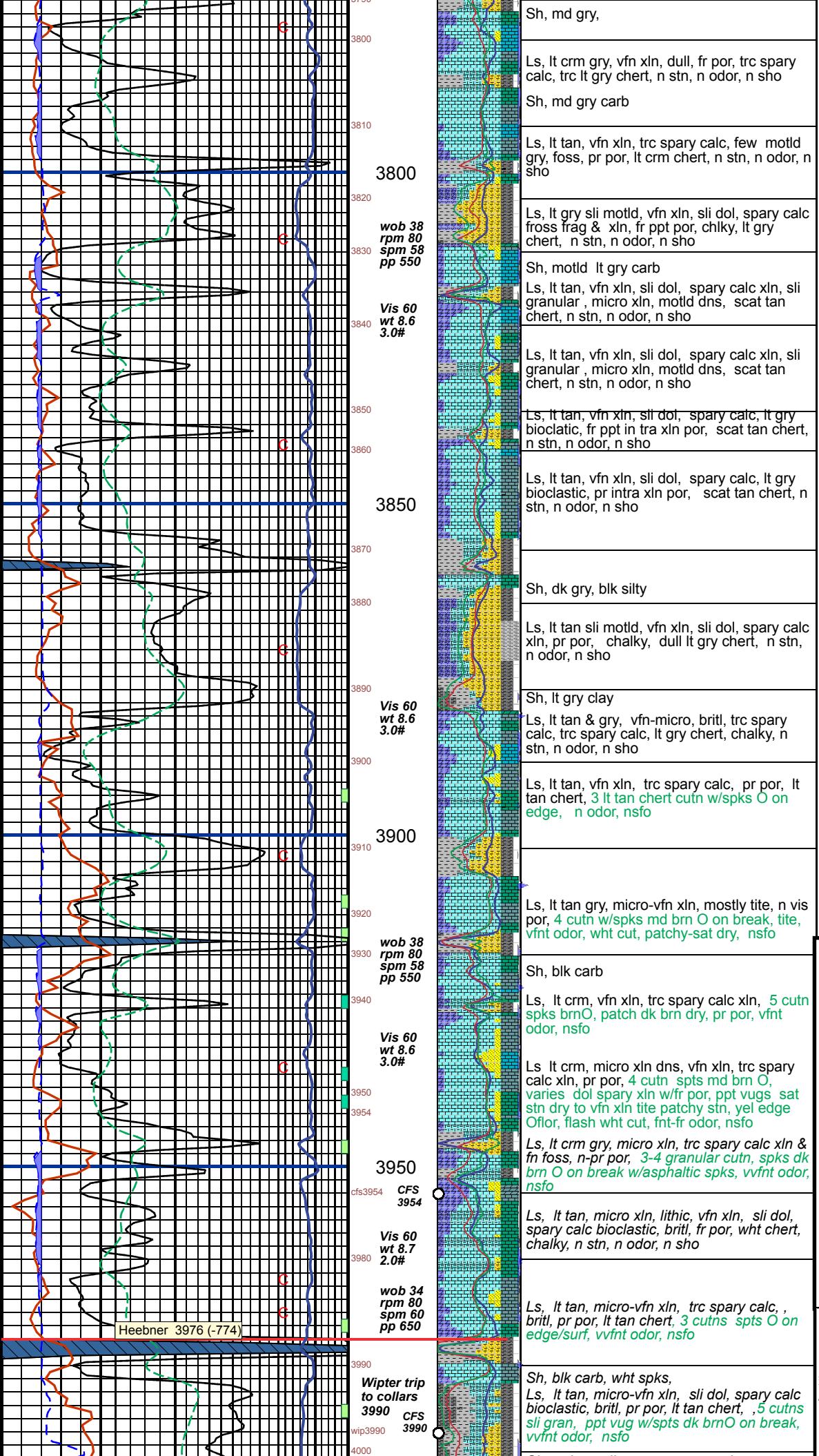
50sx 330

20sx 60

30sx rathole

Plug down @ 9:00 am
6-28-19





DST (1) 4024-4038

LKC A

30-60-45-90

IF: 4 1/2" blow

IS: nr

FF: 3 1/2" blow

FS: nr

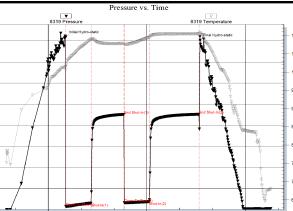
Total Rec: 130' MCW, 4" O
(85W 15M)

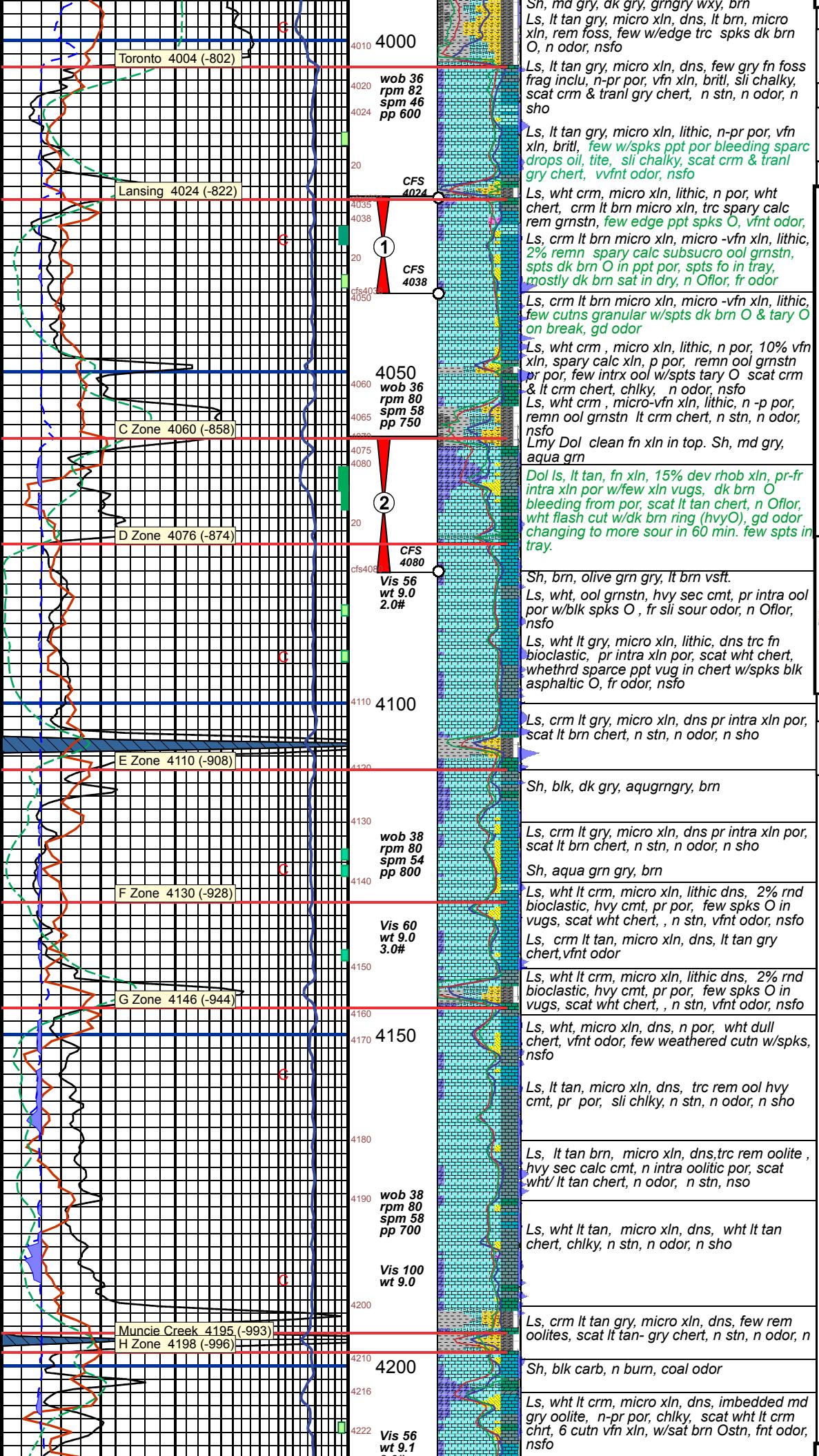
FP: 38-76 FFP: 81-95

SIP: 1129 FSIP: 1131

HP: 2042 FHP: 2008

BHT 111°F RW .167 @ 64°F
Chloride 56,000 ppm





DST (3) 4239-4318

LKC J-K

15 45 15 60

IF: 183" blow

IS: nr

FF: 135" blow

FS: nr

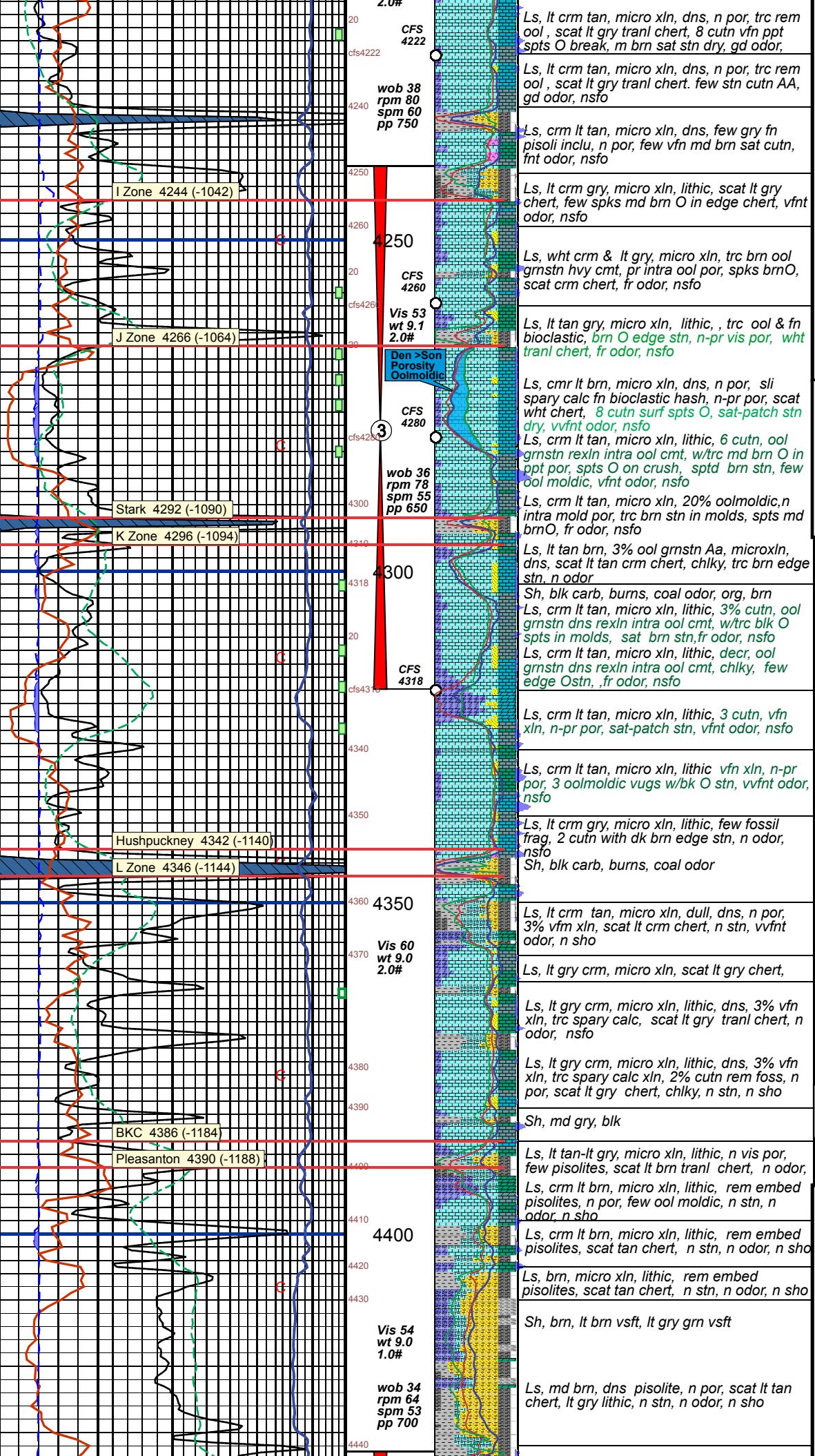
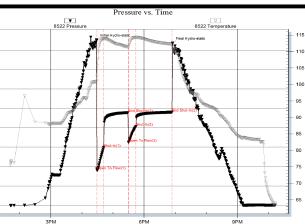
Total Rec: 1200' MCW,
(97W 3M),
Oil spts on top

FP: 454-745 FFP: 810-1016

SIP: 1196 FSIP: 1200

HP: 2123 FHP: 2083

BHT 112°F RW .155 @ 74°F
Chloride 51,000 ppm



Mud Check 7 at 4,318'
vis: 49 wt: 9.0 Chlor: 15,000
LCM: 2# Ph: 9.5 WL:10.0

DST (4) 4433-4465

Marmaton

30 60 30 60

IF: 1/2" blow

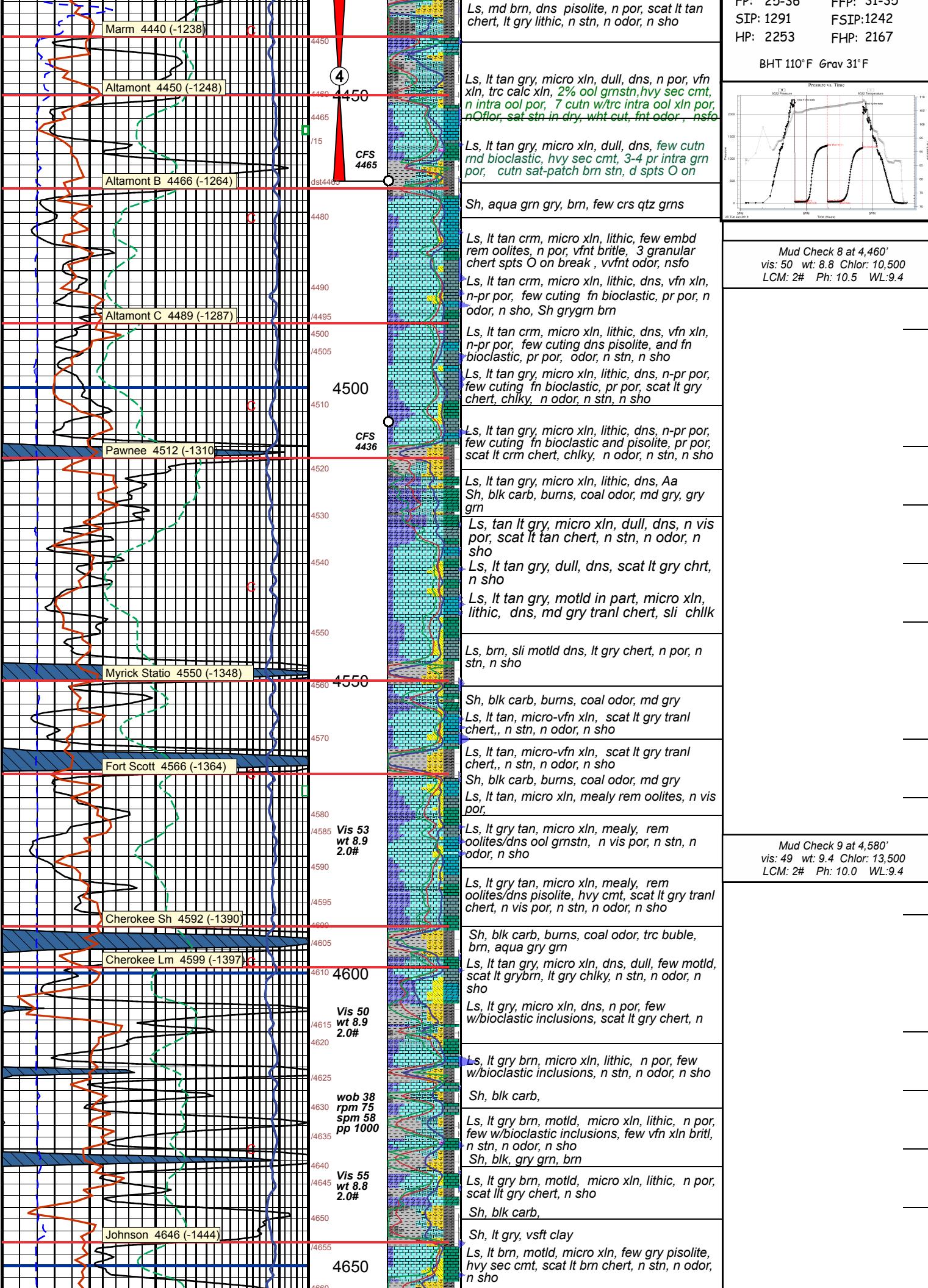
IS: nr

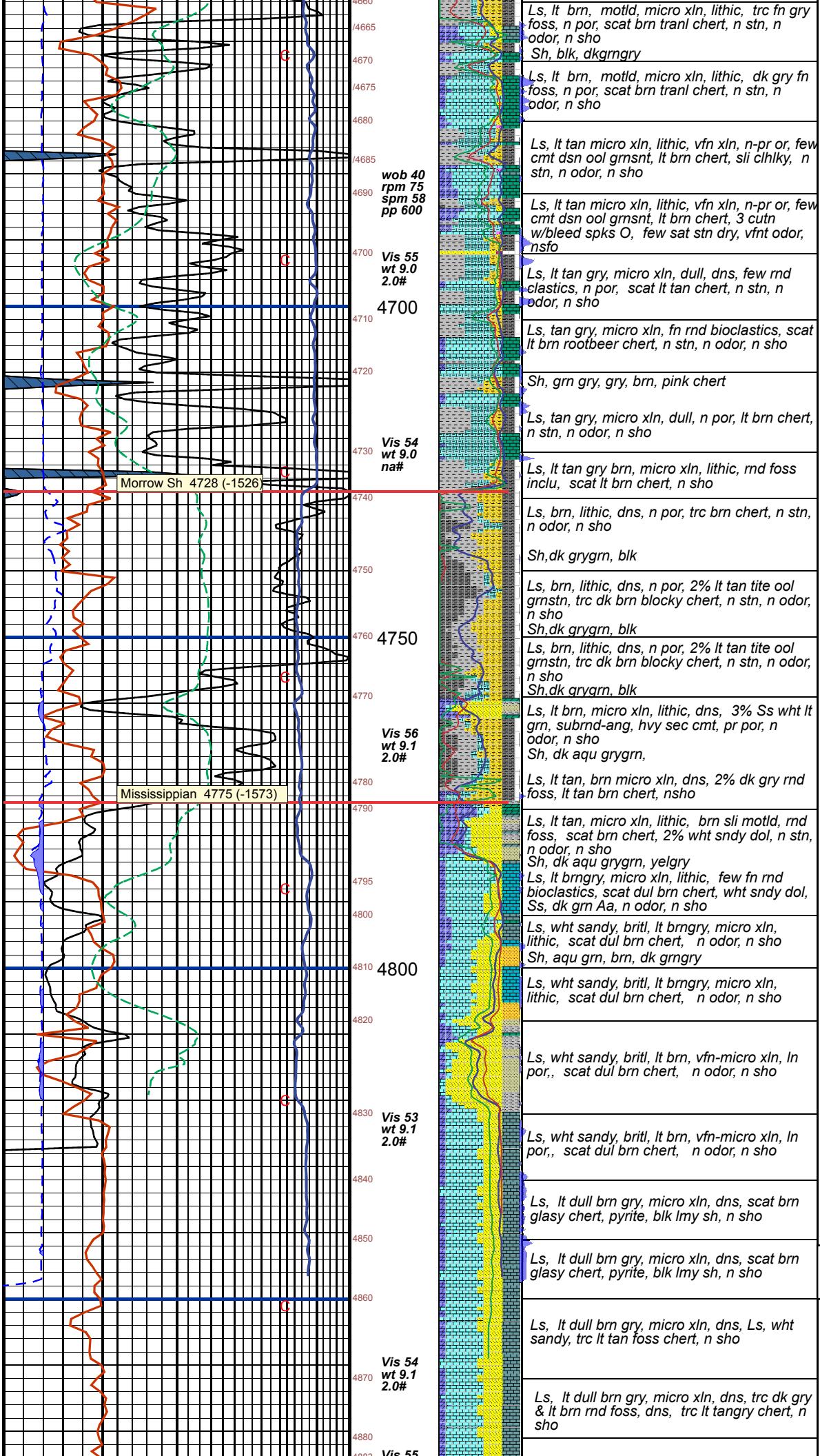
FF: n blow

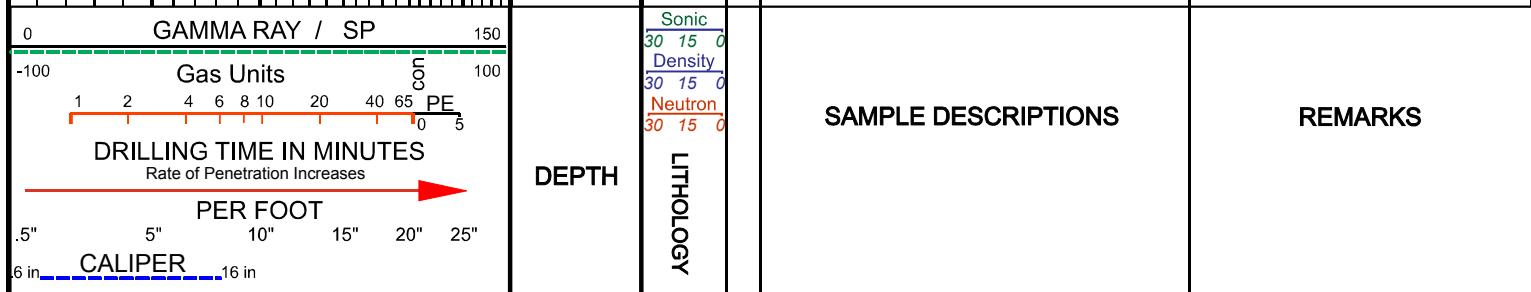
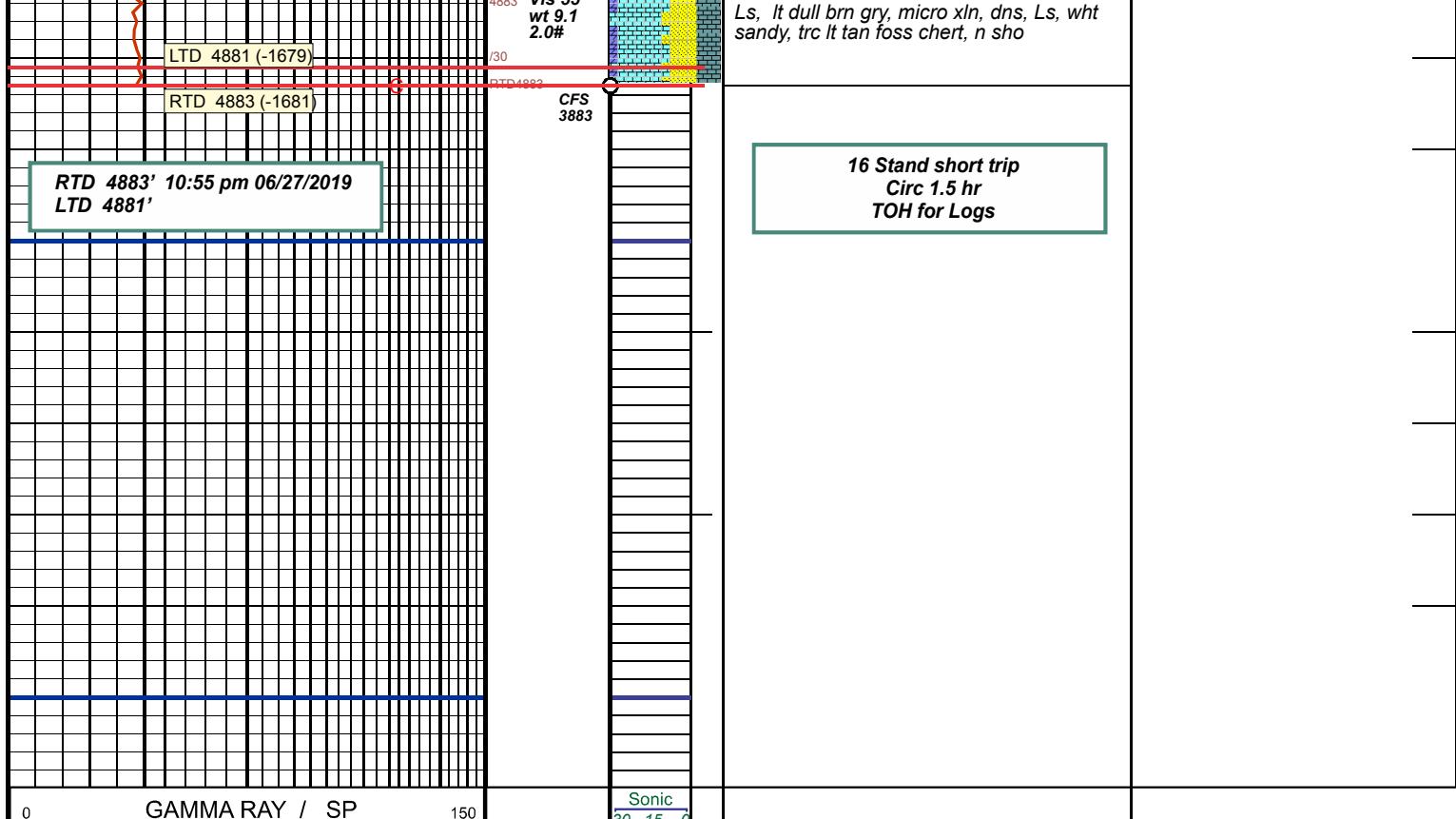
FS: nr

Total Rec: 20'
15' O, (1000)
5' OCM (200 80M)

FP: 25 26 FFP: 21 25







COMPANY Culbreath O&G Company, Inc.

ELEVATIONS

LEASE Hagen-Jantz #1-22 NE SW SW SE

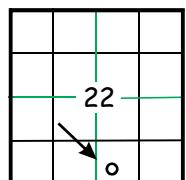
K.B. 3202

LOCATION 660' FSL 2240' FEL SEC. 22 TWP 16S RGE 36W

D.F.

COUNTY Wichita STATE Ks

G.L. 3195



All measurements from K.B. 3202