

GEOLOGIST'S REPORT

WellSight Systems

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

Well Name: COG #1-35
API: 15-171-21034-00-00
Location: 1630 FSL & 2080 FEL OF SECTION 35 T16S R34W
License Number: KCC #7311
Spud Date: 3/4/2014
Surface Coordinates: 1630' FSL & 2080' FEL OF SECTION 35 T16S R34W
Region: SCOTT COUNTY
Drilling Completed: 3/14/2014

Bottom Hole VERTICAL TEST
Coordinates:
Ground Elevation (ft): 3110
Logged Interval (ft): 3750 To: TD
Formation: MISSISSIPPIAN
Type of Drilling Fluid: GEL
K.B. Elevation (ft): 3122
Total Depth (ft): 4850

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

OPERATOR

Company: SHAKESPEARE OIL COMPANY, INC.
Address: 202 WEST MAIN STREET
SALEM, IL
62881

GEOLOGIST


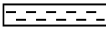

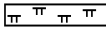
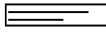
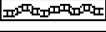




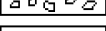


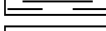




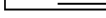
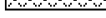
Name: MARK W. HERNDON
Company: TRC
Address: P.O. BOX 5958
NORMAN, OK
73070

Cores

DSTs

Comments

ROCK TYPES

	Anhy		Clyst		Gyp		Mrlst		Shgy
	Bent		Coal		Igne		Salt		Sltst
	Brec		Congl		Lmst		Shale		Ss
	Cht		Dol		Meta		Shcol		Till

ACCESSORIES

MINERAL

- Anhy
- Arggrn
- Arg
- Bent
- Bit
- Breclrag
- Calc
- Carb
- Chtdk
- Chtlt
- Dol
- Feldspar
- Ferrpel
- Ferr
- Glau

- Gyp
- Hvymin
- Kaol
- Marl
- Minxl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt
- Sil
- Sulphur
- Tuff

FOSSIL

- Algae
- Amph
- Belm
- Bioclst
- Brach
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite

- Ostra
- Pelec
- Pellet
- Pisolite
- Plant
- Strom

STRINGER

- Anhy
- Arg
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst

- Sltstrg
- Ssstrg

TEXTURE

- Boundst
- Chalky
- Cryxln
- Earthy
- Finexln
- Grainst
- Lithogr
- Microxln
- Mudst
- Packst
- Wackest

OTHER SYMBOLS

POROSITY

- Earthy
- Fenest
- Fracture
- Inter
- Moldic
- Organic
- Pinpoint

- Vuggy

SORTING

- Well
- Moderate
- Poor

ROUNDING

- Rounded
- Subrnd
- Subang
- Angular

- Spotted
- Ques
- Dead

INTERVAL

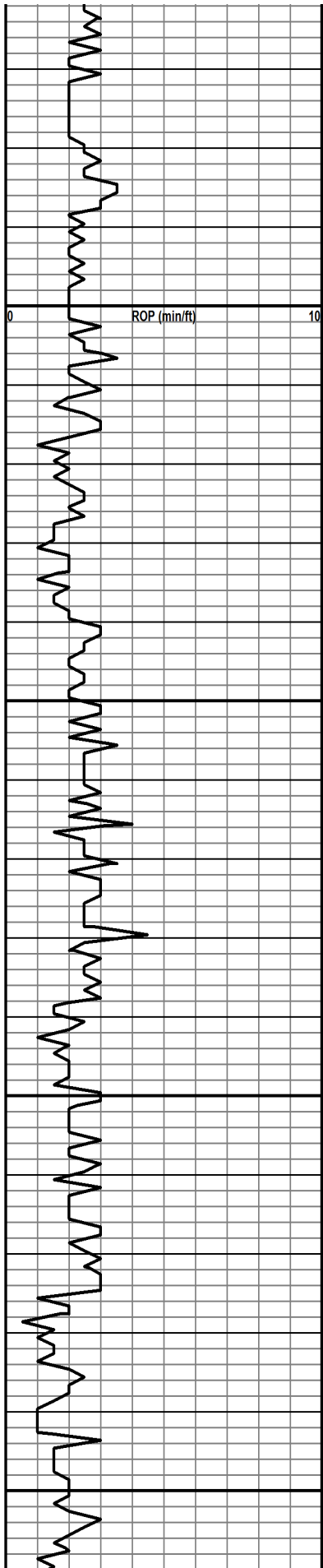
- Core
- Dst

EVENT

- Rft
- Sidewall

- OIL SHOW
- Even

Curve Track 1 ROP (min/ft)		Depth	Lithology	Oil Shows	Geological Descriptions	REMARKS
0	ROP (min/ft)	10	3750			

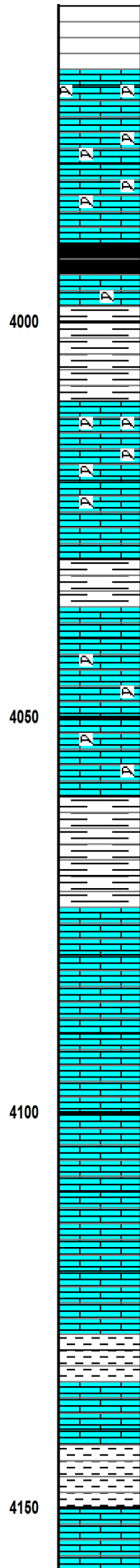
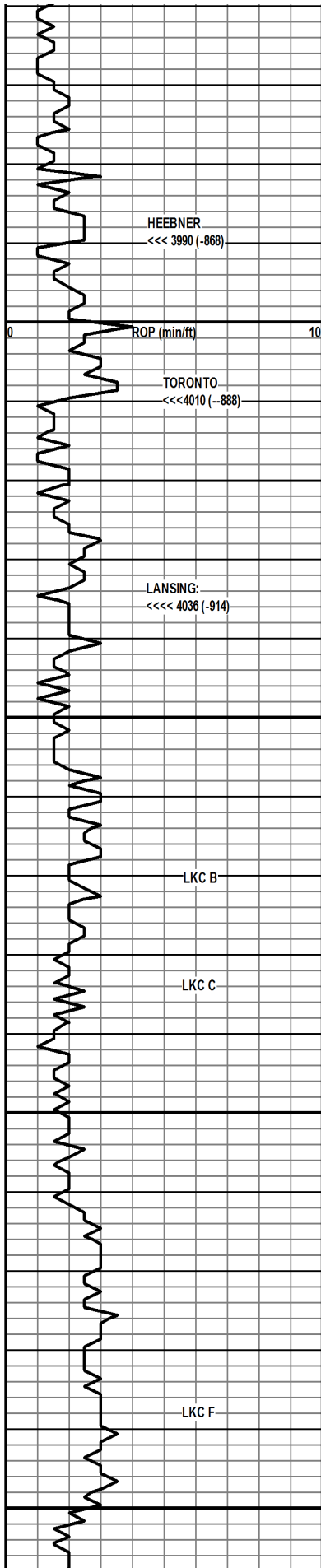


3800

3850

3900

3950



LS: WH TO LT GRY, DNSE, FOS, WL CMNTD, NVP, NS

SHALE: BLACK, CARB

LS: CRMY TO LT TAN, FOS, WL CMNTD, NVP, NS

SHALE: GRY, BLKY

D LS: WH TO LT TAN, CHLKY, DNSE, FOS, OCC PP VGY POR, SS DEAD OIL

LS: WH TO LT TAN, MED XTLN, DNSE, FOS, WL CMNTD, VRY POOR PP POR, NS

SH: GRY TO DRK GRY

LS: CRMY TO LT TAN, FN XTLN, FOS, OCC V PR PP POR

D LS: CRMY TO LT TAN, XTLN, FOS, POOR PP VGY POR, VRY SPTY DEAD O STN, NO FLOUR.

LS: CRMY TO LT TAN, FN XTLN, OCC FOS, NVP, NS

SH: GRY TO DRK GRY

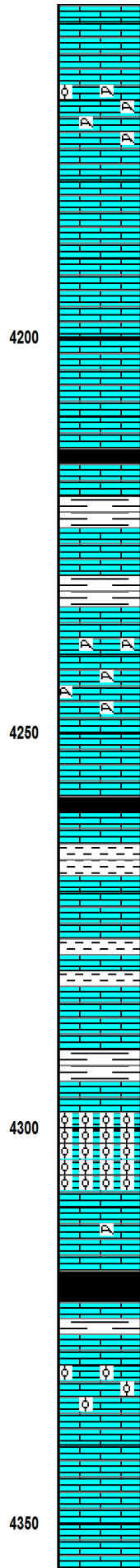
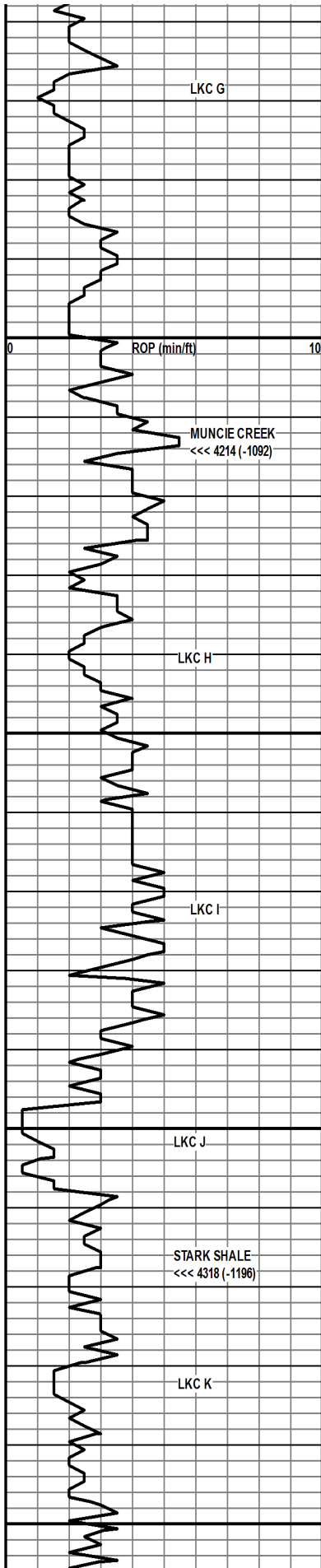
D LS: CRMY TO TAN, MED XTLN, FOS, WL CMNTD MTRX, FR PP POR W SPTY DEAD O STN, NO FLOUR

LS: CRMY TO TAN, MED XTLN, OCC FOS IN WL CMNTD MTRX, OCC OIDS, VRY SPTY PP POR, NS

LS: CRMY TO LT TAN, FN XTLN, DNSE, NVP, NS

LS: LT TAN TO GRY, DNSE, FN XTLN, NVP, NS

D LS: CRMY TO LT TAN, MED XTLN, PR INTR XTLN POR, OCC PP VGY POR, OCC LOS, YLW FLOUR, SLW STRMNG CUT



LS: LT GRAY TO LT TAN, MED XTLN, FOS, OCC OOID, FR INTR XTLN POR, SPTY DOS NO FLOUR.

LS: CRMY TO LT TAN, DNSE, WL CMNTD, NVP, NS

LS: CRMY TO LT GRAY, DNSE, FN XTLN, NVP, NS

SHALE: BLACK

LS: CRMY TO LT GRAY FN XTLN, CHKY, FOS W OCC OIDS IN WL CMNTD MTRX, PR XTLN PP POR, VRY SPTY DOS, NS

LS: CRMY TO LT GRAY, FN XTLN, DNSE, NVP, NS

SH: GRAY

LS: LT TAN TO GRAY, FN XTLN, DNSE, OCC FOS, WL CMNTD, NVP, NS

LS: CRMY TO LT TAN, FN XTLN, DNSE, NVP, NS

LS: WH, FN XTLN, EXC OOMOLDIC POR, NS

LS: CRMY TO LT TAN, FN XTLN, OCC FOS

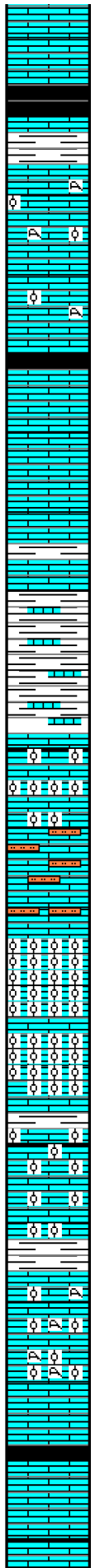
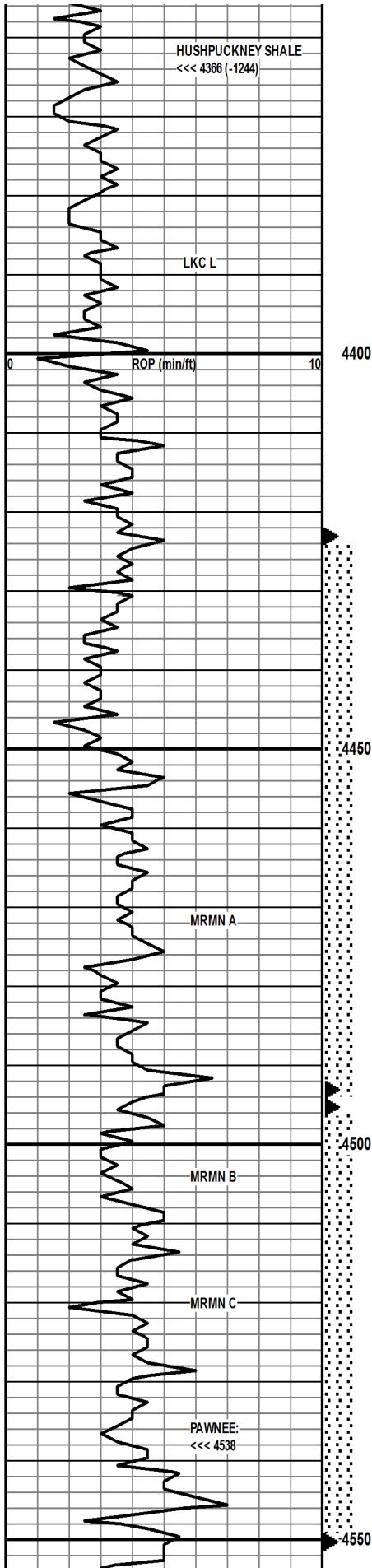
SHALE: BLACK, CARB, BLKY

LS: CRMY TO TAN, MED XTLN, FOS IN WL CMNTD MTRX, NVP, NS

LS: CRMY TO LT TAN, MD XTLN, FR AMNT WH OOMOLDIC POR NS

LS: CRMY TO LT TAN, MED XTLN, OCC PC W OOMOLDIC POR

LS: CRMY TO LT TAN, FN TO MED XTLN, OCC FOS FRAG, WL CMNTD, NVP, NS



LS: LT TAN TO GRY, XTLN, DNSE, NVP, NS

SHALE: BLACK, CARB, BLKY

LS: CRYMY TO LT GRY, FN XTLN, FOS FRAGS & OOIDS IN WL CMNTD MTRX NVP, NS

LS: AAB

SHALE: BLACK, BLKY

LS: CRMY TO LT TAN, CHLKY, DNSE, NVP, NS

LS: CRMY TO LT TAN, DNSE, NVP, NS

SH: DRK GRY W/ LT TAN LS, DNSE, NVP, NS

LS: CRMY TO LT TAN, NUM PCS WL CMNTD OOLITE. TWO PCS W CRS INTXLN VGY POR WLOS, YLW FLOUR, INST STRMNG CUT.

LS: LT TAN TO DRK GRY, DNSE, OCC FOS, OCC OOID. NVP. W ABNDT LT TO DRK GRY SILTSTN NS

LS: LT TAN TO GRY, ABRUPT CHANGE TO OOLITE GRNSTN. SEVERAL PCS W GD OOL AND FOS FRAG POR. DULL YLW FLOUR, INST STRMNG CUT

LS: LT TAN, MED GRN, WL SRTD OOLITE, VRY WL CMNTD, V PR PP POR, 2 PIECES W SPARRY CALCITE & GD INTXLN POR, LT BRN LOS, DULL YLW FLOUR, INSTNT STRMNG CUT

LS: LT TAN, OOLITIC, MST VRY WL CMNTD W NVP. 1 PIECE W VRY PR PP POR, WK YLW FLOUR, WK MLKY CUT

LS: CRMY TO LT TAN, MED GRN OOL IN WL CMNTD MTRX, NVP, NS

LS: FOS & OOL WFR AMNT DRK GRY SH. MOST LS XTLN, DNSE, WL CMNTD, 2 PCS WFR VIS XTLN POR, BRT YLW FLOUR, INST STRMNG CUT.

LS: CHLKY TO LT TAN, MED XTLN, FOS, OOL, 2 PIECES WFR XTLN VGY POR IN CRSE SPARRY CALCITE, LT BRN LOS, YLW FLOUR, INST STRMNG CUT

LS: CHLKY TO LT BRN, DNSE, OCC FOS, NVP, NS

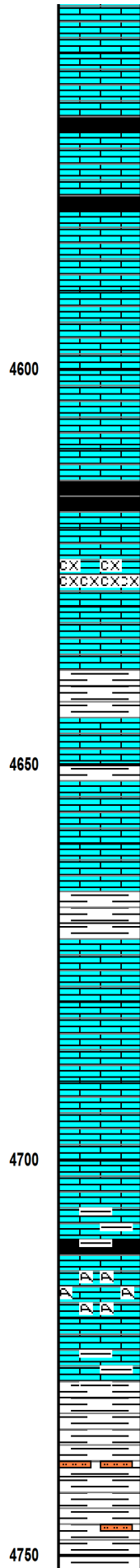
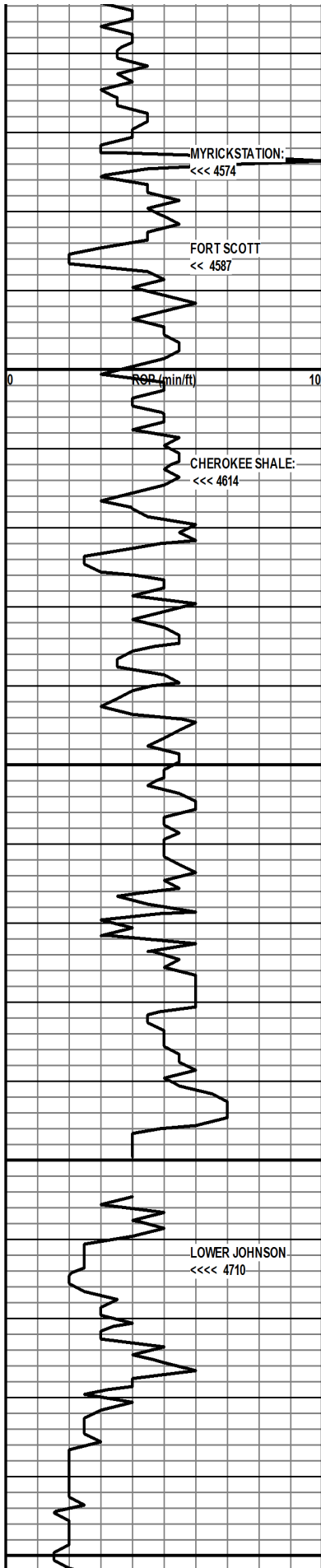
LS & BLACK SH: LS IS LT TAN, DNSE NVP, NS. SH IS DRK GRY TO BLACK

LS: CHLKY TO LT TAN. DNSE. NVP. ABND BRT

DST #1: 4423-4493
MARMATON "A"
20-30-45-90
IF: BOB IN 13 MINUTES. NO RETURN
FF: BOB IN 10 MINS. NO RETURN
REC: 209 FT CGO
53 FT GMCO
HP: 2154-2145
IF: 21-71 FF: 77-138
SIP: 1153-1180

DST #2: 4493-4550
MARMATON "B" & "C"
30-30-30-30
IF: WK BLW DIED
FF: NO BLOW
RECOVERY: 20 FT MUD W OIL SPECKS
HP: 2252-2161
IF: 17-19 FF: 17-19
SIP: 33-31

NOTE: SURVEY 2 DEGREES



MIN FLOUR, NS

LS: CRMY TO GRY, DNSE, NVP, ABND BRT YLW
MIN FLOUR, NS

SHALE: BLACK

LS: LT TAN TO GRY, DNSE, OCC FOS, WL CMNTD,
1 PIECE WV PR VGY POR, LT BRN LOS, SLW
STRMNG CUT

SHALE: BLACK

LS: CRMY TO DK BRN, MD XTLN, SCTRD W
CMNTD OIDS, VRY PR INTXLN POR, NS

LS: AAB. 1 PIECE WVRY PR VGY POR, LT BRN
LOS, YLW FLOUR, INST STRMNG CUT, 99% TITE

LS: CRMY TO LT TAN, MSTLY DNSE, NVP. OCC
PIECES OF MED TO CRSE SPARRY CALCITE W
LOS, FR TO PR VIS POR, BRT YLW FLOUR, SLW
STRMNG CUT

SHALE: BLACK

LS: CHLKY WH, FN XTLN, SM PR INTXLN POR, NS

SHALE: GRY AND BLACK

LS: LT TAN TO DRK GRY, DNSE, OCC WL CMNTD
OIDS, NVP, NS

LS: CHLKY TO LT GRY, VN XTLN, OCC FOS FRAG,
WL CMNTD, NVP, NS

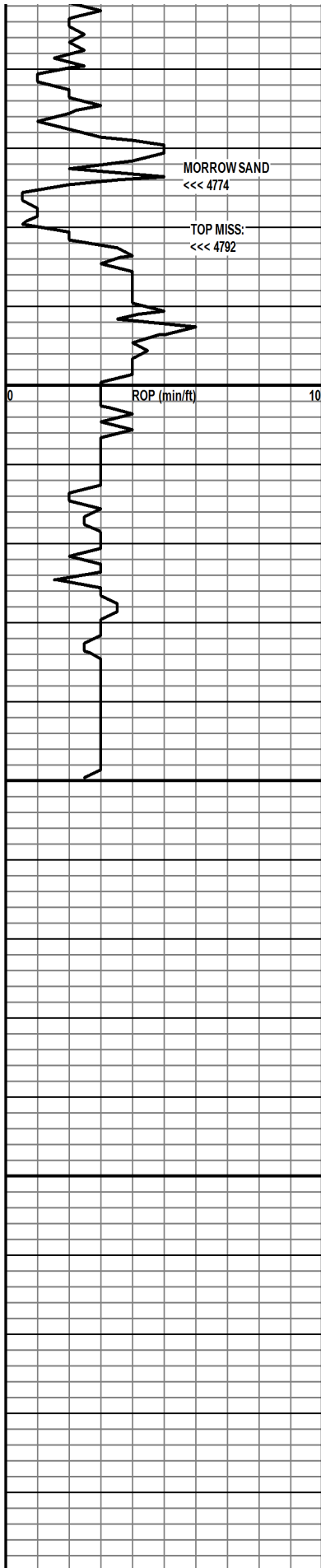
LS: CHLKY TO GRY, DNSE, OCC FOS, NVP, NS

LS: CHLKY TO LT GRY, DNSE, OCC FOS, NVP, NS

SHALE: BLACK

LS: CRMY TO LT TAN, DNSE, FOS, RARE, LRG,
FOS MOLDIC POR WGD SH DK BRN FREE OIL,
DULL YLW FLOUR, GD STRMNG CUT

SHALE: MSTLY GRN AND RED, OCC DK GRY
SILTSTONE

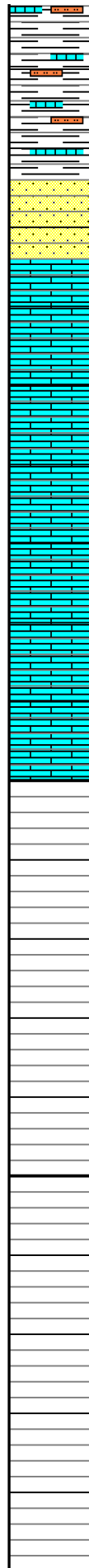


4800

4850

4900

4950



SHALE: AAB

SHALE: MSTLY GRN, OCC DK RED AND BRWN, FISSILE

SS: WH, VRY FN GRN, WL SRTD, RND, WL CMNTD WITH CALCITE CMNT, OCC GLAUC, NVP, LOOKS TITE, NS

LS: LT TAN, DNSE, NVP, NS

LS: LT TAN, DNS, NVP, NS

LS: LT TAN, DNS, NVP, NS

LS: LT TAN, DNS, NVP, NS

4860 RTD
4847 LTD

