

# GEOLOGIST'S REPORT

## WellSight Systems

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

Well Name: JANZEN #6-36  
API: 15-171-21043-00-00  
Location: 950' FNL & 450' FWL OF SECTION 36 T16S R34W  
License Number: KCC #7311  
Spud Date:   
Surface Coordinates: 950 FNL & 450 FWL OF SECTION  
Region: SCOTT COUNTY  
Drilling Completed: 4/8/2014

Bottom Hole VERTICAL TEST  
Coordinates:  
Ground Elevation (ft): 3104  
Logged Interval (ft): 3700 To: TD  
Formation: MISSISSIPPIAN  
Type of Drilling Fluid: GEL  
K.B. Elevation (ft): 3116  
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

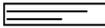
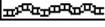
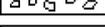
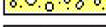
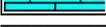
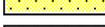
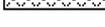
Name: MARK W. HERNDON  
Company: TRC  
Address: P.O. BOX 5958  
NORMAN, OK  
73070

### 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
- Breclfrag
- 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**

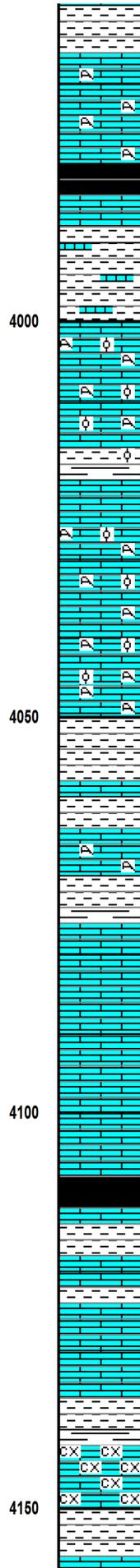
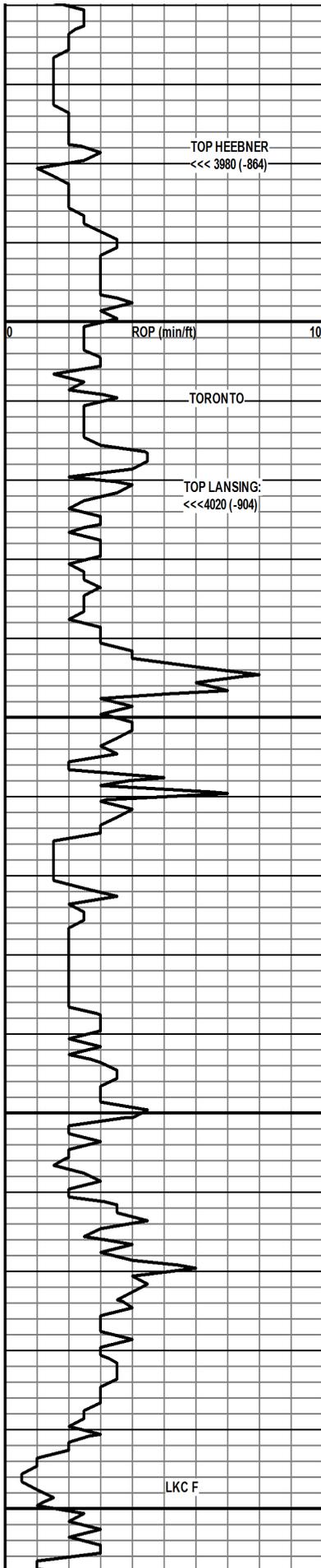
- Rft
- Sidewall

**OIL SHOW**

- Even

Curve Track 1 ROP (min/ft)		Depth	Lithology	Oil Shows	Geological Descriptions	REMARKS
<div style="text-align: right; margin-bottom: 5px;">ROP (min/ft)</div> <div style="text-align: right; margin-bottom: 5px;">0</div> <div style="text-align: right; margin-bottom: 5px;">10</div>	<div style="text-align: right; margin-bottom: 5px;">3750</div>	<div style="text-align: center; margin-bottom: 5px;">3750</div>				





LS: CHLKY TO LT GRY, FOS, WL CMNTD, NS

SHALE: BLACK, CARB

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

SHALE: GRY TO DK GRY, FISSILE

LS: WH TO LT TAN, MED XTLN, FOS (CORAL), OCC OIDS, PR VIS POR, NS

LS: WH TO LT TAN, MD XTLN, FOS (CORAL) OCC OIDS, WL CMNTD, PR VIS POR, NS

LS: CRMY TO LT TAN, NUM FOS (CORAL), OCC DK GRY OIDS, WL CMNTD, NVP, NS

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

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

SHALE: GRY TO DRK GRY, FISSILE

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

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

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

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

SHALE: BLACK, CARB

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

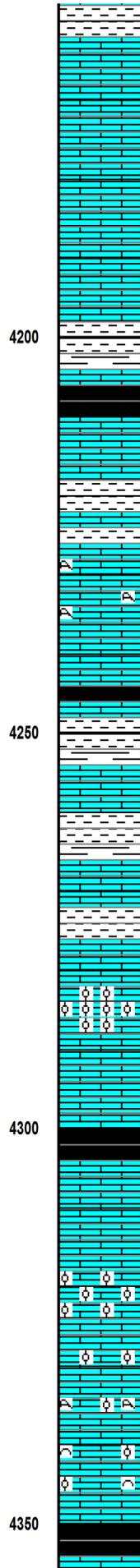
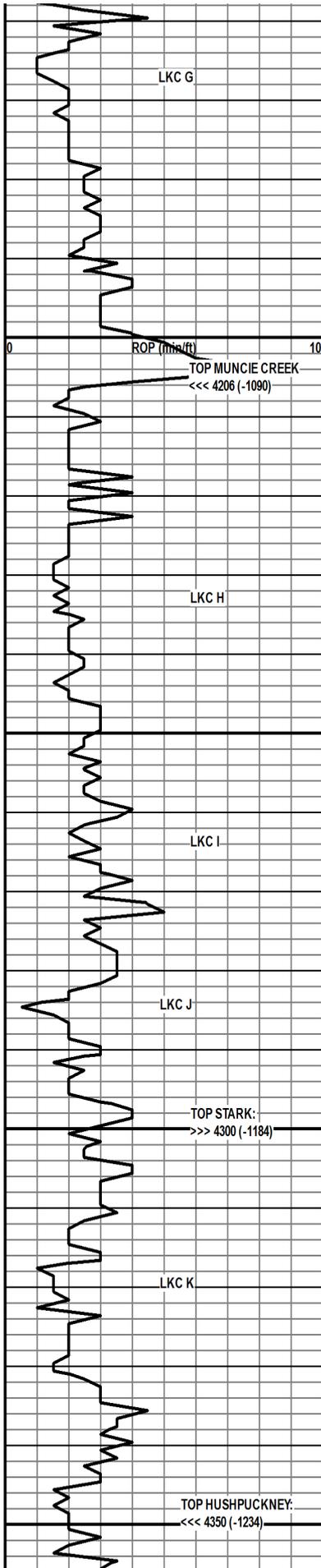
SHALE: DRK GRY, FISSILE

LS: CRMY TO LT TAN, V FN XTLN, FR VRY FN XTLN POR, NS

SHALE: DRK GRY, FISSILE

NOTE: HIGH ROP DUE TO AUTOMATIC DRILLER OUT

AUTOMATIC DRILLER OUT



LS: CRMY TO LT TAN, V FN XTLN POR, NS

LS: CRMY TO LT TAN, NVP, NS

LS: CRMY TO LT TAN, NVP, NS

SHALE: BLACK, CARB

LS: WH TO LT TAN, PR FN XTLN PP POR, NS

LS: CRMY TO LT GRY, OCC FOS, PR XTLN POR, NS

LS: CRMY TO GRY, DNSE, NVP, NS

SHALE: DRK GRY, FISSILE

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

SHALE: DRK GRY, FISSILE

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

SHALE: DRK GRY, FISSILE

LS: WH TO LT TAN, FN XTLN, EXC WH, BARREN, OOLICASTIC POR W VUGS LINED W V FN SPARRY CALCITE. ONE TITE PIECE W SPTD DK BRN STN, REST NS

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

SHALE: BLACK, CARB

LS: LT TAN, DNSE, NVP, NS

LS: LT TAN, DNSE, NVP, NS

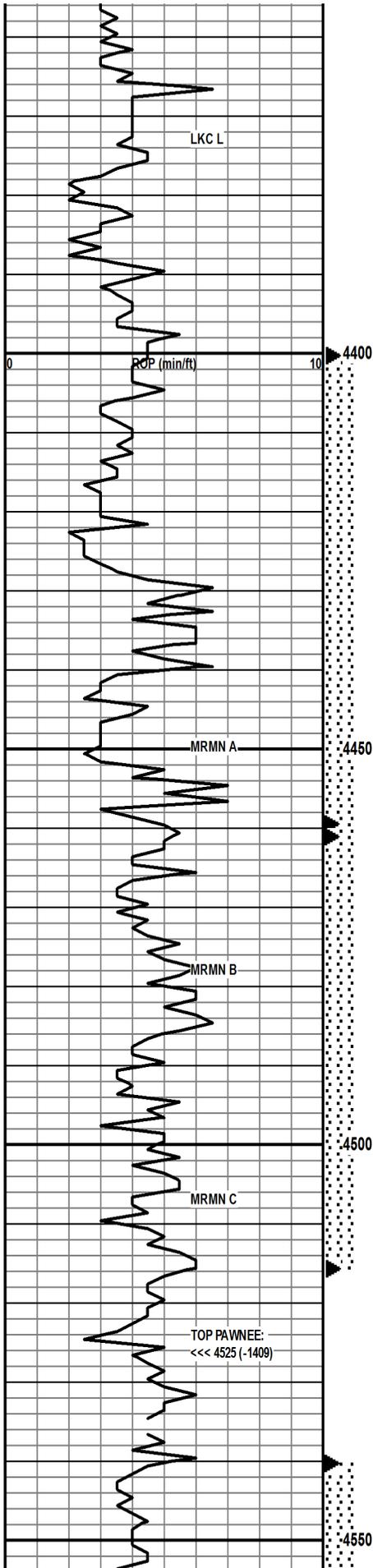
LS: WH TO LT TAN, FOS, EXC WH, BARREN, OOLICASTIC POR, W VRY FN SUGARY CALCITE LINING VUGS, NS

LS: WH TO LT TAN, OCC OOID IN WL CMNTD LS MTRX, NVP, NS

LS: LT TAN TO GRY, DNSE, OCC FOS & DK GRY OOID IN WL CMNTD LS MTRX, NVP, NS

SHALE: BLACK, CARB

VIS: 49 WT: 9.3



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

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

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

LS: CRMY TO LT TAN, MSTLY DNSE, NVP, NS W  
ABNDT EXC WH CRSE OOLICASTIC POR, NS

SHALE: BLACK, CARB

LS: LT TAN, DNSE, NVP, NS

SH: DRK GRY, OCC GREEN, FRAMNT OF LT TAN  
DNSE LS, NVP, NS

LS: LT TAN, DNSE, NVP, NO OOIDS OR FOS  
FRAGS

LS: LT TAN, DNSE, NVP, NS. NO OOIDS OR FOS  
FRAGS

LS LT TAN, DNSE, NVP, NS, WDRK GRY FISSILE  
SHALE

LS: LT TAN TO GRY, MSTLY DNSE W NO VIS POR.  
SOME OOL AND FOS FRAG GRNSTN IN WL  
CMNTD MTRX, SM PCS W FN TO MED XTLN VGY  
POR, BRT YLW FLOUR, INST STRMNG CUT. POOR  
VIS POR

LS: LT TAN TO GRY, OCC OOID, OCC FOS, WL  
CMNTD, NVP, NS

LS: TAN, MED TO CRSE SPARRY XTLN, SOME  
SCATTERD SM VGY & XTLN POR, NICE LT BRN  
SAT LOS, BRT YLW FLOUR, INST STRMNG CUT.

LS: LT TAN, MSTLY DNSE, NVP. FEW PCS W  
SCTRD OOIDS AND FOS FRAGS IN WL CMNTD  
MTRX. FEW PCS W FN TO CRSE SPARRY  
CALCITE, OCC SM VUG, FEW OOIDS & NICE LT  
BRN LOS. YLW FLOUR, SLW STRMNG CUT.

LS: LT TAN TO GRY, DNSE, ABNDT OOIDS AND  
DRK GRY FOS FRAGS IN WL CMNTD LS MTRX.  
MOTTLED APPEARANCE, NVP, NS. ABND BRT  
YLW MIN FLOUR. NO CUT. ONE PC W SPTY LOS

SHALE: BLACK, CARB

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

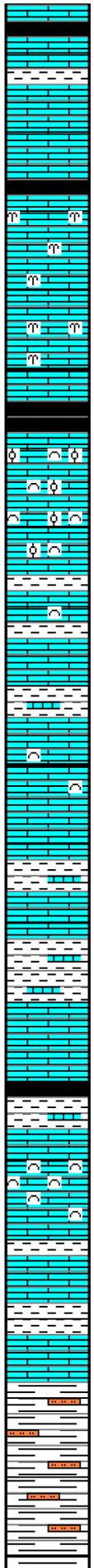
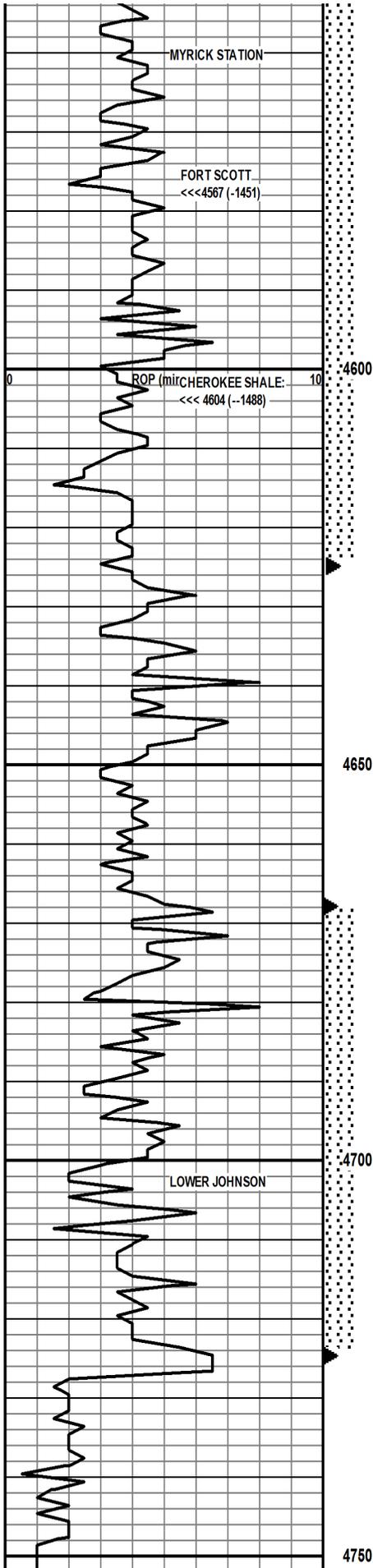
LS: LT TAN TO GRY, DNSE NVP, NS

VIS: 57 WT: 9.3

DST #1  
4400-4460  
MARMATON "A"  
30-30-60-90  
IF: 9" BLOW  
NO RETURN BLOW  
FF: 11" BLOW  
RETURN BLOW: 1/4" IN 9 MIN,  
DIED  
RECOVERY:  
280' GIP  
20' CGO  
60' GMCO  
60' GO&WCM  
IFP: 21-47; FFP: 49-83  
ISIP: 1231-1234  
HP: 2186-2080  
BHT: 116

STRAP: 1.8' SHORT TO  
BOARD  
SURVEY 1 DEGREE

DST #2  
4460-4515  
MARMATON "B" & "C"  
30-30-30-60  
IF: 1.5", NO RETURN BLOW  
FF: 1", NO RETURN BLOW  
RECOVERY: 3' OIL, 37' OCM  
IFP: 18-18, FFP: 16-20  
SIP: 529-666  
HP: 2192-2116  
BHT: 108



SHALE: BLACK, CARB

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

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

SHALE: BLACK, CARB

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

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

SHALE: BLACK, CARB

LS: CRMY TO GRY, MSTLY DNSE, OOL, FOS, IN WL CMNTD LS MTRX, SM PCS OOL W FR VIS POR, NICE LT BRN LOS, BRT YLW FLOUR, INST STRMNG CUT

LS: AAB, FEW PCS W WL SRTD MED OOL, FR VIS POR, BRT YLW FLOUR, INST STRM CUT

SHALE: DK GRY, FISSILE

LS: TAN TO DRK GRY, OCC FOS, WL CMNTD, NVP, NS

SHALE: DRK GRY, FISSILE

LS: TAN TO GRY, DNSE, NVP, NS

SHALE: DRK GRY, FISSILE

LS: WH TO GRY, DNSE, NVP, NS

SHALE: BLACK

LS: WH TO GRY, FN XTLN, FOS, SCTRD SMALL VGY POR, VUGS BLDNG OIL, GSFO, SPTY DRK BRN LOS, SCTRD YLW FLOUR, STRMNG CUT

LS: WH TO GRY, DNSE, NVP, NS

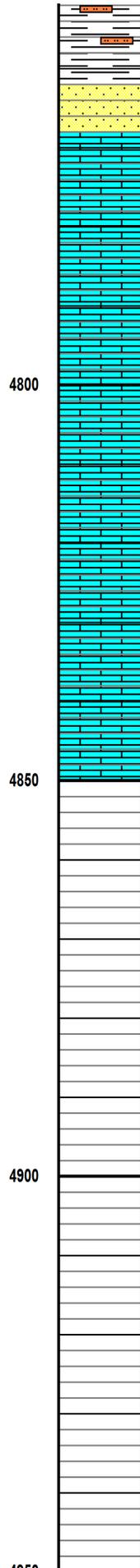
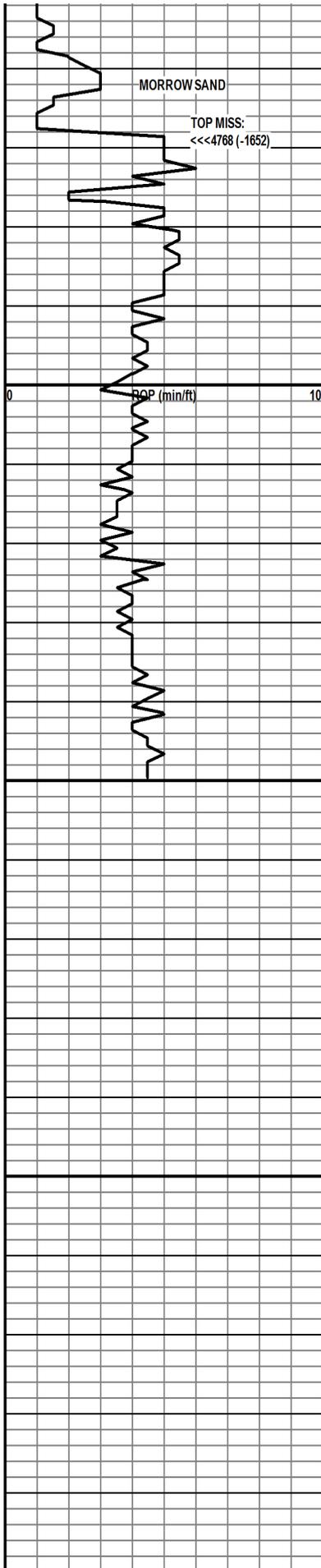
LS: WH TO GRY, DNSE, NVP, NS

SHALE: GREEN, MAROON, YELLOW, W OCC DRK BRN TITE SILTSTONE

SHALE: VARI COLORED AAB

**DST #3**  
**4540-4626**  
**MS, FT SCOTT, CHEROKEE**  
**30-30-30-60**  
**IF: 1 1/2" BLOW, NO RETURN**  
**FF: 1 1/2" BLOW, NO RETURN**  
**RECOVERY:**  
**45' GIP**  
**15' MUD W OIL SPTS**  
**IFP: 16-16 FFP: 14-18**  
**SIP: 129-358**  
**HP: 2246-2181**  
**BHT: 112**

**DST #4**  
**4668-4725**  
**JOHNSON ZONE**  
**30-30-45-90**  
**IF: BOB IN 24 MIN**  
**RETURN: WK SURF IN 7 MIN**  
**FF: BOB IN 20 MIN**  
**RETURN: WK SURF BLOW IN**  
**6 MIN, DIED IN 27 MIN**  
**RECOVERY:**  
**390' GIP**  
**90' GOCM**  
**IFP: 24-36 FF: 38-55**  
**SIP: 373-616**  
**HP: 2307-2295**  
**BHT: 118**



SANDSTONE: WH, MSTLY FN GRN, WL SRTD, ROUNDED, W CALCITE CMNT. OCC PYR, OCC GLAUC, GD VIS POR, NS

LS: TAN, DNSE, NVP, NS

LS: TAN, DNSE, NVP, NS

LS: TAN, DNSE, NVP, NS

LS: TAN, DNSE, NVP, NS

LS: TAN, DNSE, NVP, NS

LS: TAN, DNSE, NVP, NS

RTD 4850

LTD:4849

