KIM B. SHOEMAKER

CONSULTING GEOLOGIST

316-684-9709 * WICHITA,KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L.D. DRILLING, INC.

LEASE # 1-31 LIMITED OWWO

FIELD LUNDGREN

LOCATION 2167' FNL & 2310' FEL

SEC 31 TWSP 14s RGE 29W

COUNTY GOVE STATE KANSAS

CONTRACTOR L.D. DRILLING, INC.

SPUD 4-7-15 COMP 4-11-15

RTD 4399 LTD 4400

MUD UP 4290 TYPE MUD CHEMICAL

ELEVATIONS

KB 2624

DF

GL 2619

Measurements Are All From 2624 KB

CASING

SURFACE 8 5/8" @ 212'

PRODUCTION 5 1/2" @

ELECTRICAL SURVEYS

DUAL IND., DENS-N., MICRO

SAMPLES SAVED FROM 4300 TO 4399

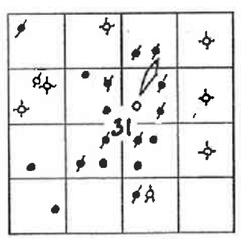
DRILLING TIME KEPT FROM 4290 TO 4399

SAMPLES EXAMINED FROM 4300 TO 4399

GEOLOGICAL SUPERVISION FROM 4290 TO 4399

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES



API: 15-063-21329-00-01

This hole was an owwo of Viking Resources # 1 Lundgren drilled 5-1-90 to a RTD 4290. Hole was intended to be a swdw but after DST in the Miss. it was decided to set 5 1/2" Casing to test for production.

REMARKS

4-7-15 @ SPUD
4-8 @ 917'
4-9 @ 4250'
4-10 @ 4300'
4-11 @ 4399'

SHOE01-06

LEGEND

Dolomite
Chert
Ool.Lime
Limestone
Carb sh
Shale
Sandstone
Salt
Anhydrite

DRILLING TIME IN MINUTES PER FOOT
Rate of Penetration Increases
5" 10" 15" 20" 25"

DEPTH

LITHOLOGY

SAMPLE DESCRIPTIONS

REMARKS

31-14-29W
SW SW NE

#1 LUNDGREN
cty: GOVE
field: LUNDGREN
API 15-063-21329
card issued 06/06/90
last revised 06/06/90

drlg comp 05/08/90
spd date 05/01/90
comp date 04/20/90

IP status:
D&A, MISS, 05/08/90
CSG: 8-5/8" 212 / 140 SX
NO CORES
DST (1) 3719-3745 (LKC), / 30-45-30-60, REC 350' MW, W / SO ISIP 826# FSIP 836# IFP 67# -96# FFP 125# -163# IHP 1998# FHP 1969#
DST (2) 3823-3900 (LKC), / 30-45-30-60, REC 1' FREE OIL 182' MW, W / SO ISIP 961# FSIP 951# IFP 86# -96# FFP 125# -144# IHP 2113# FHP 2075#
DST (3) 4092-4190 (MARM), / 30-45-30-60, REC 1' OIL, 49' MW, W / SPKS OIL ISIP 1076# FSIP 1066# IFP 96# -96# FFP 96# -96# IHP 2279# FHP 2209#

ELV: 2629 KB SMP

tops	depth/datum
ANH	2023 +606
HEEB	3631 -1002
TOR	3654 -1025
LANS	3670 -1041
LANS J	3890 -1261
FT SC	4160 -1531
MISS	4277 -1648
RTD	4290 -1661

NO LOG PR TD 4290

VIKING RESOURCES
WICHITA KS 67202

site: 11 S & 4-1/2 W OF GOVE KS
contr: MALLARD DRILLING
geol: ROB PATTON

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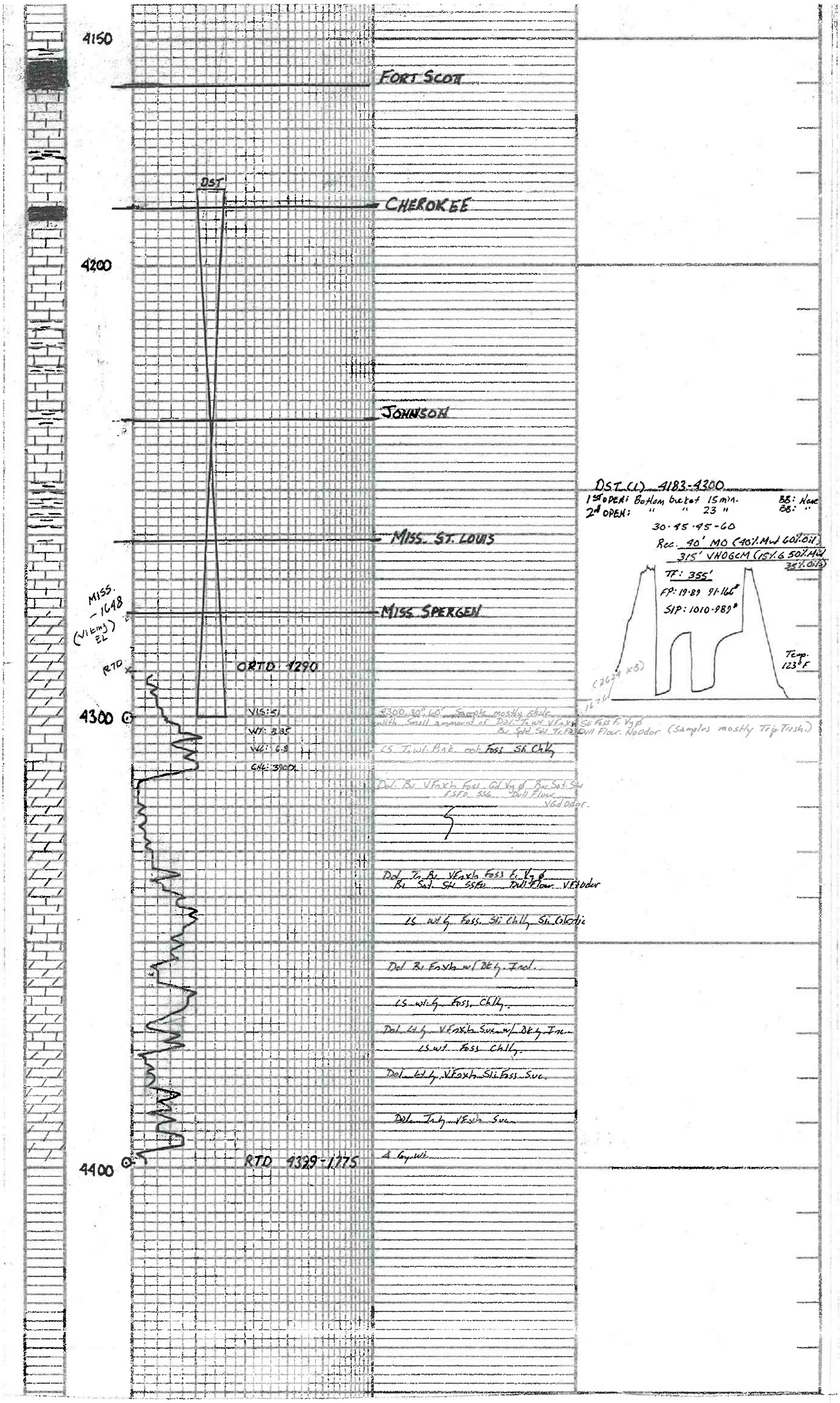
WICHITA, KANSAS


4150
FORT SCOTT
DST
CHEROKEE
4200
JOHNSON
MISS. ST. LOUIS
MISS. -1648 (Viking EL)
MISS SPERGEN
RTD
ORTD 4290
4300
VIS: 51
WT: 8.35
WL: 6.8
CHL: 3900
4400
RTD 4329-1775
DST (1) 4183-4300
1st OPEN: Bottom bucket 15 min.
2nd OPEN: " " 23 "
BB: None
BB: "
30-45-45-60
Rec. 40' MO (40% Mud 60% Oil)
315' VHOGCM (15% G 50% Mud 35% Oil)
TF: 355'
FP: 19-89 91-166#
SIP: 1010-989#
Temp. 123° F
(2624 KB)
4300, 30", 60' Sample mostly shale with small amount of Dol. Tr wt VFnxln Sli Foss Fi Vy ø Bi Sat Sti Tr FD Dull Floor. No Odor (Samples mostly Trip Trash.)
LS Tr wt Pink. col. Foss Sli Chly
Dol. Bi VFnxln Foss Gd Vy ø Bi Sat Sti FSFD SSG Dull Floor VGd Odor.
Dol Tr Bi VFnxln Foss Fi Vy ø Bi Sat Sti SSFD Dull Floor VFt odor
LS wt Gy Foss. Sli Chly Sli Calcitic
Dol Bi Fnxln w/ Dk Gy Incl.
LS wt Gy Foss. Chly.
Dol Lt Gy VFnxln Suc w/ Dk Gy Inc.
LS wt Foss Chly.
Dol Lt Gy VFnxln Sli Foss Suc.
Dol Tr Gy VFnxln Suc.
4 Gy wt