LeBlanc
Petroleum Geologist

GEOLOGICAL REPORT

2349 North Stoneybrook Court
Wichita, Kansas 67226-3604
(316)-630-0195

COMPANY VINCENT OIL CORP (5004)
LEASE FORD CO. L&C 1-16 (OWWO)
FIELD WILDCAT
LOCATION 455FNL & 2055 FWL
SECTION 16 TOWNSHIP 29S RANGE 24W
COUNTY FORD STATE KANSAS

API: 15-057-20883-0001

ELEVATIONS
KB 2549 FEET
DF 2547 FEET
GL 2537 FEET
MEASUREMENTS ARE ALL FROM: KB

CASING
8⅝ at 646'
4½" AT 5385'

CONTRACTOR DUKE DRLG RIG 1 (5929)
COMMENCED DRILLING MONDAY, NOV. 4, 2013
COMPLETED DRILLING FRIDAY, NOV 8, 2013
RTD 6150 FEET LTD 6153 FEET
MUD UP AT 5650 FEET MUD TYPE CHEMICAL

ELOG SUITES
SONIC
(4900- 6150)

SAMPLES SAVED FROM 5360 FEET TO 6150 FEET
DRILLING TIME KEPT FROM 5360 FEET TO 6150 FEET
SAMPLES EXAMINED FROM 5360 FEET TO 6150 FEET
GEOLOGICAL SUPERVISION FROM 5500 FEET TO 6150 FEET

NOTES: MUD SYSTEM - MUD-CO, SURFACE CSG CMT - None, WATER- HAULED, FUEL WESTHORN O;6 DSTS - None, LOGGING - NABORS WLSVC.

CORES-None

Remarks: THE VINCENT OIL CORP. FLCC 1-16 (WO) WAS RE-ENTERED AND DRILLED to a New RTD of 6150 FT. to evaluate the VIOLA φ. NO DSTS were taken And the miss to VIOLA interval thickened Against Local control. Four And one hols (4½") PROD. CASING was SET AT 5385' to FURTHER evaluate A MSTL φ 5212-5216.

Ken LeBlanc

Daily Penetration
7AM

Date	Depth
11-4-13	MIRT, RIGUP
	SPUD AT 11PM
11-5-13	WO AT 1903'
11-6-13	WO AT 5360'
	DISPLACE MUD
	SYSTEM, DRILL
	AHEAD W/PDC
11-7-13	DRLG 5650'
11-8-13	DRLG 6035'
	RTD 6150,
	CFS 60"
	SHORT TRIP
	30 STANDS,
	CTCH F/90"
	NABORS logging
	AT 1230AM
	11-9-13
	Finished at
	230AM
11-9-13	6150 - PREPARING
	to RUN 4½"
	PROD CSG

Bit Record

Number	Size	Make	Type	Depth Out	Feet	Hours
1	7⅞	PDC	(OWWO)		5360	
1A	7⅞	PDC	RR	5650	290	10¾
2	7⅞	VAREL	HE29	6150	500	28½
	TOTAL BIT		HOURS →		6150	39½

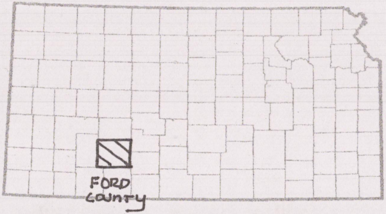
GENERAL INFORMATION

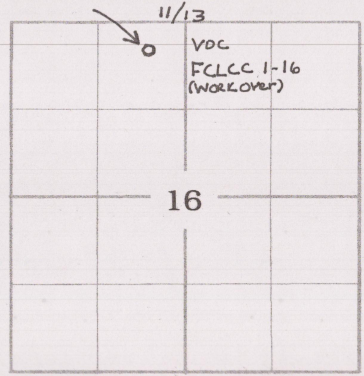
RIG MAKE: IDECO H35, DBL, STEEL PITS
RIG POWER: CAT 3406
DP: 4½" XH, WT 16.6#/FT, OD: 6¼", ID: 2¼
DC: 16½ LENGTH 474.93' OD: 6¼", ID: 2¼
PUMP: IDECO MM 700, Liner: 6", STROKE: 16"
POWER: CAT 285-9075
RIG POWER: DETROIT DIESEL SERIES 60
TOOL PUSHER: MIKE GODFREY

Formation Tops	Sample Tops	Corrected Sample Tops	Electric Log Tops	Subsea Datums
BASE SURFACE CASING	646		646	
HEEBNER SHALE	——			
BRN LS	——			
LANSING	——			
STARK SHALE	——			
HUSH SHALE	——			
BKC	——			
MARMATON	——			
PAWNEE	——			
CHEROKEE SHALE	——			
MISS UNC.	——			
MISS. WARSAW	5650		5645	-3096
MISS. OSAGE	5800		5801	-3252
KINDERHOOK	6009		6008	-3459
VIOA Ø	6124		6126	-3577
RTD, LTD	6150		6153	-3604

Reference Well: HERTLEIN CLARK 1, CSESE 5-29S-24W

Kansas





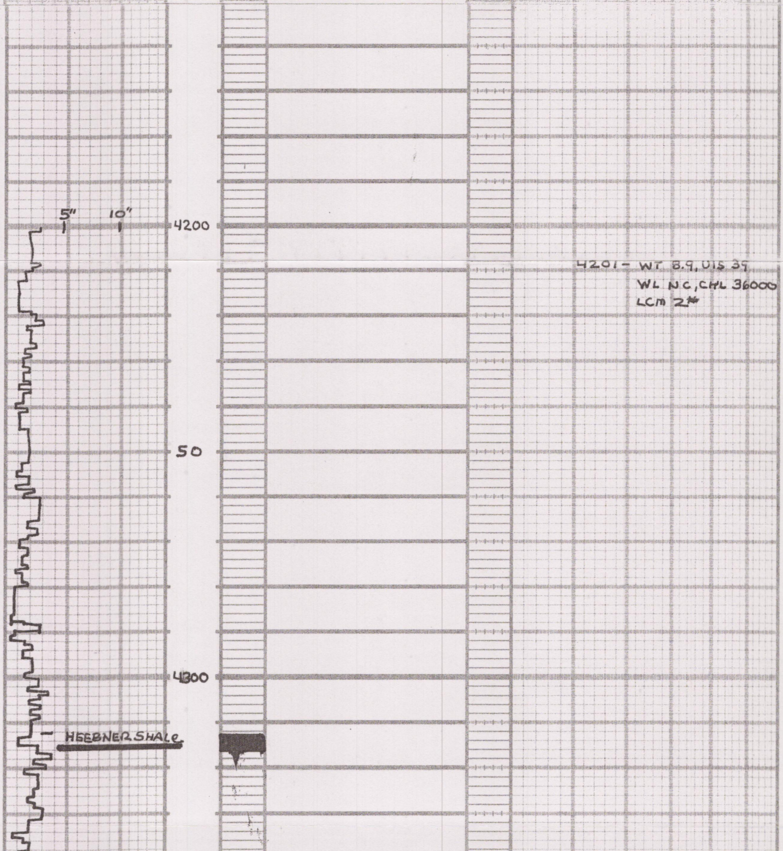
SEC. 16–T29S–R24W

FORD COUNTY, KANSAS

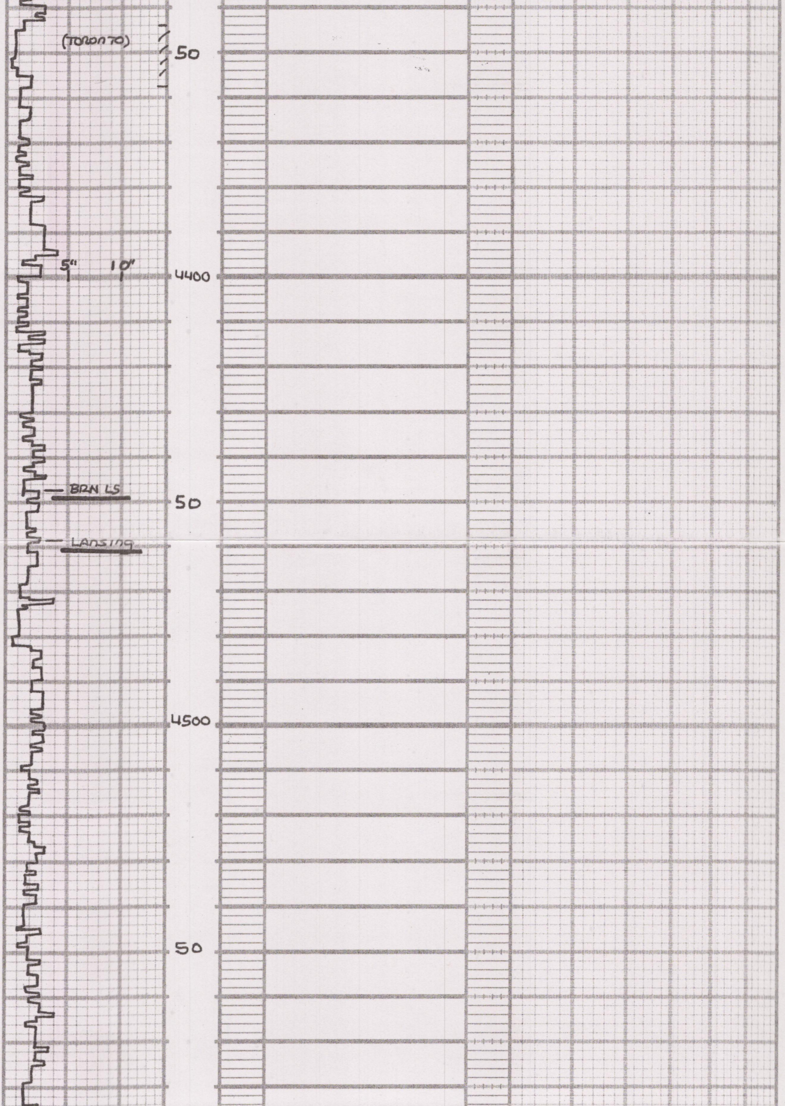
Legend

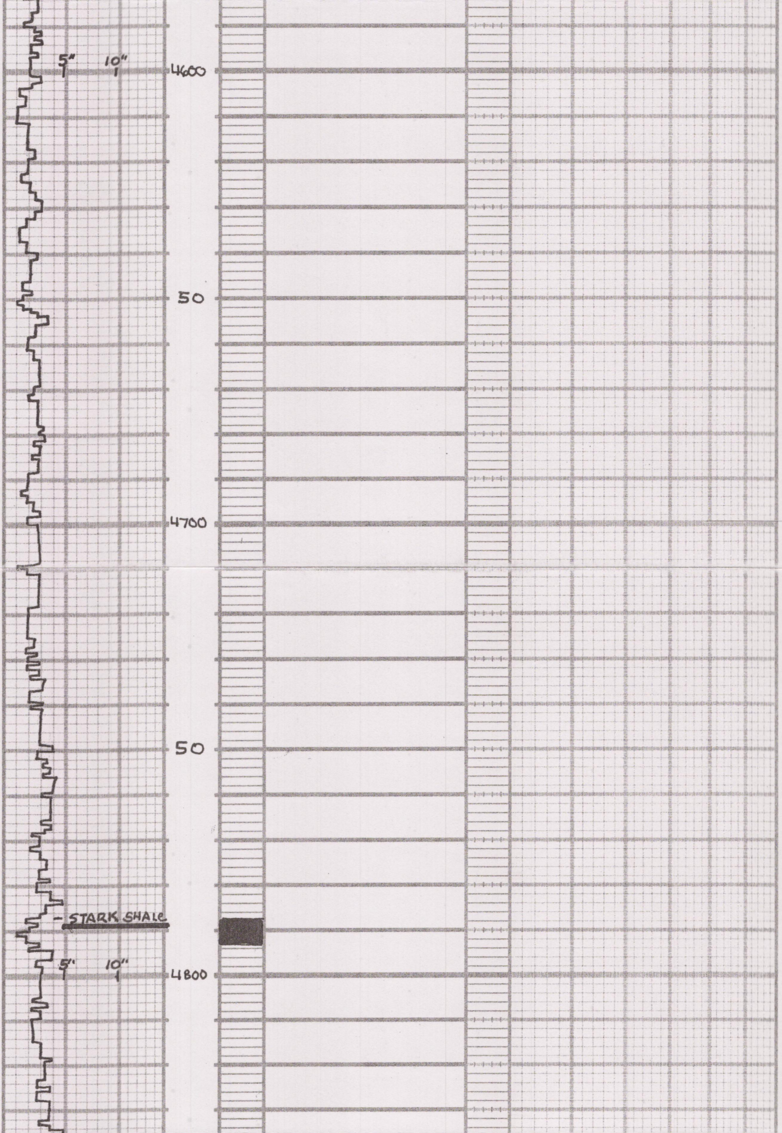
▦ Sandstone	▦ Limestone	▦ Chert	■ Coal/ Carb. Shale
▤ Siltstone	▦ Dolomite	▦ Granite Wash	▦ Conglomerate
▤ Shale	▨ Anhydrite/ Gypsum	▦ Granite	▦ oolitic/ oomoldic

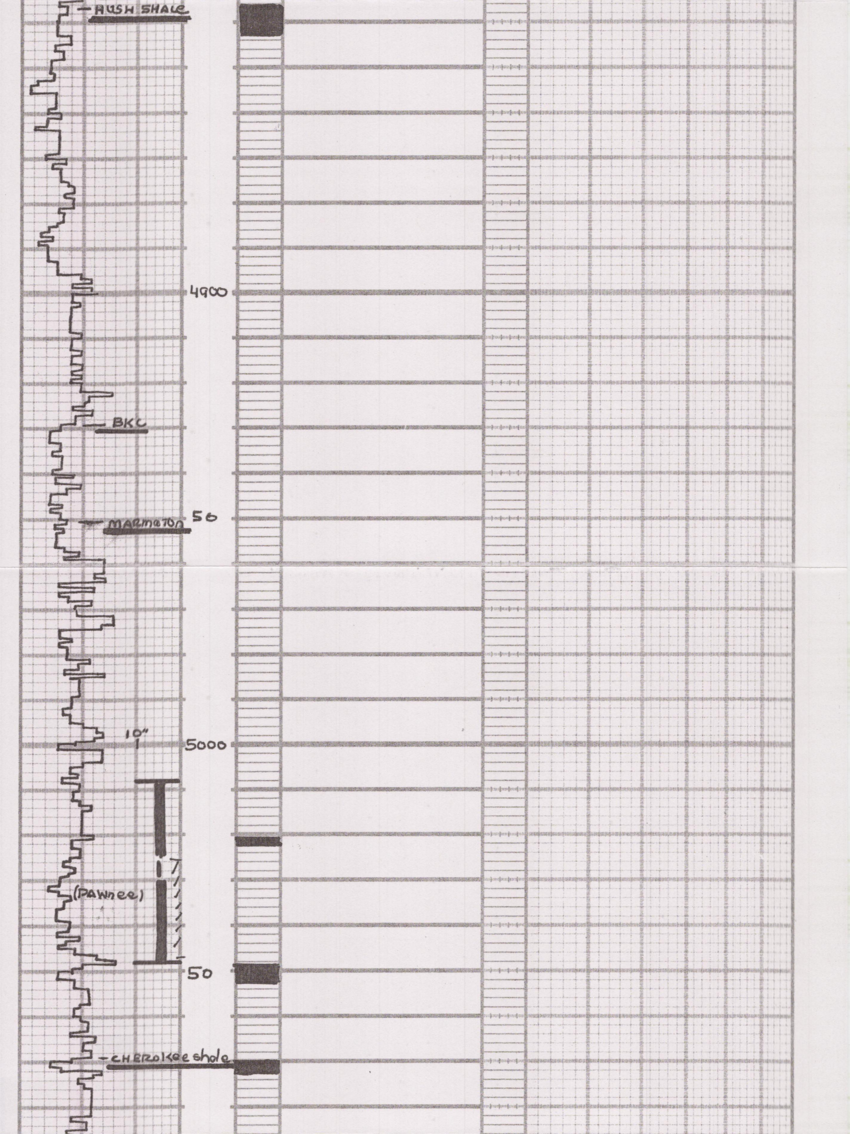
Drilling Rate Minutes/Foot 5 10	Depth	LITH- OLOGY	Sample Descriptions	SAMPLE %	Hot Wire Chromatograph 10u 20u 30u 40u 50u

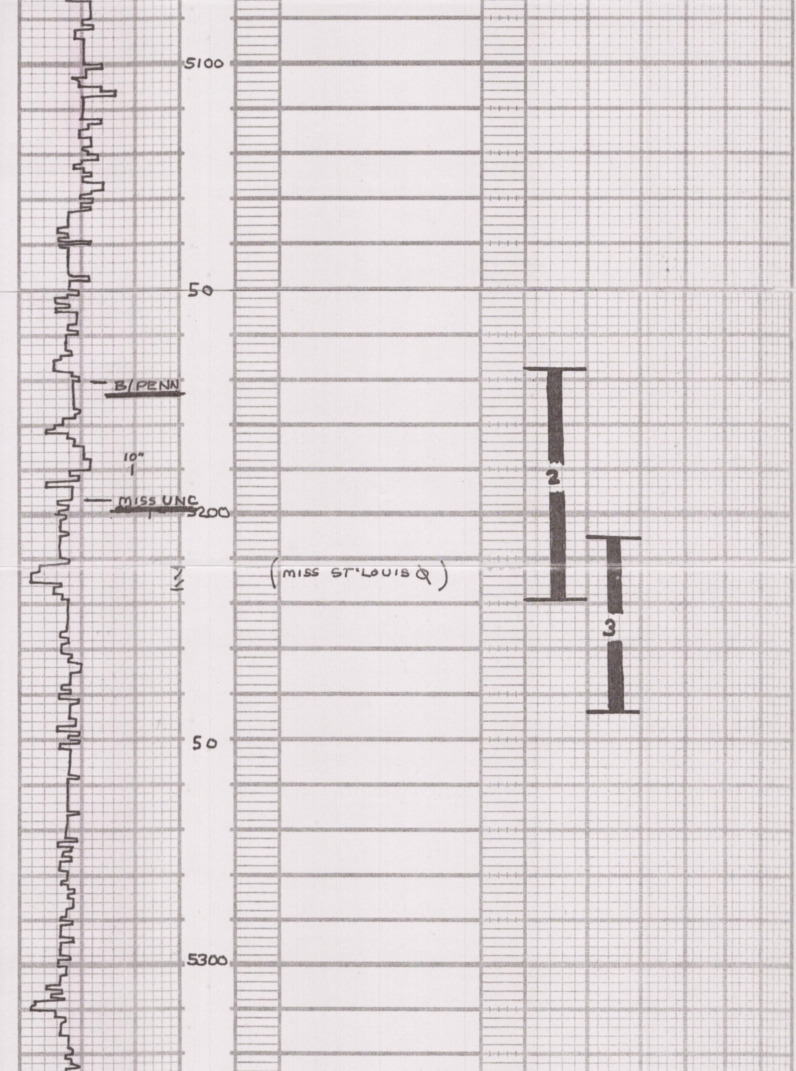


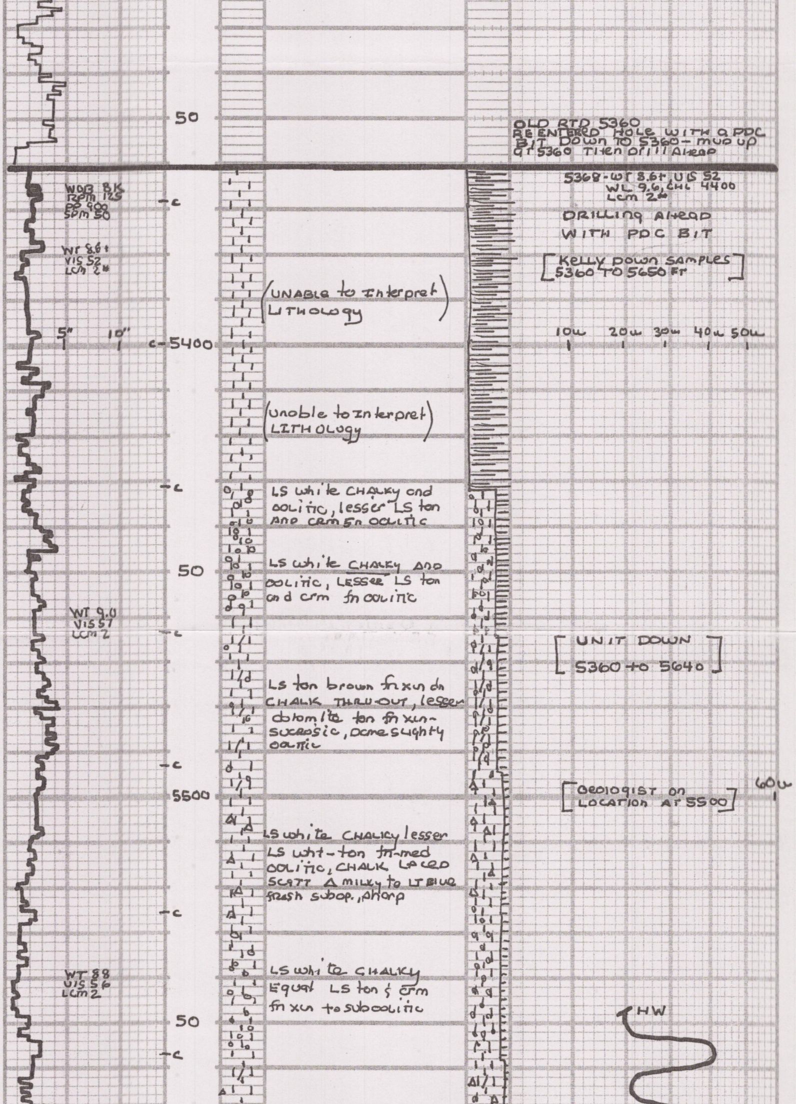
4201 - WT 8.9, VIS 39
WL N.C, CHL 36000
LCM 2#











OLD RTD 5360
REENTERED HOLE WITH a PDC BIT DOWN TO 5360 - mud up at 5360 Then Drill Ahead

WOB 8K
RPM 125
PP 900
SPM 50

5368 - WT 8.6+ VIS 52
WL 9.6, CHL 4400
LCM 2#

DRILLING AHEAD WITH PDC BIT

[KELLY DOWN SAMPLES 5360 TO 5650 FT]

WT 8.6+
VIS 52
LCM 2#

(UNABLE to Interpret LITHOLOGY)

(unable to Interpret LITHOLOGY)

LS white CHALKY and OOLITIC, lesser LS tan AND crm fn OOLITIC

LS white CHALKY AND OOLITIC, LESSER LS tan and crm fn OOLITIC

WT 9.0
VIS 57
LCM 2

[UNIT DOWN 5360 to 5640]

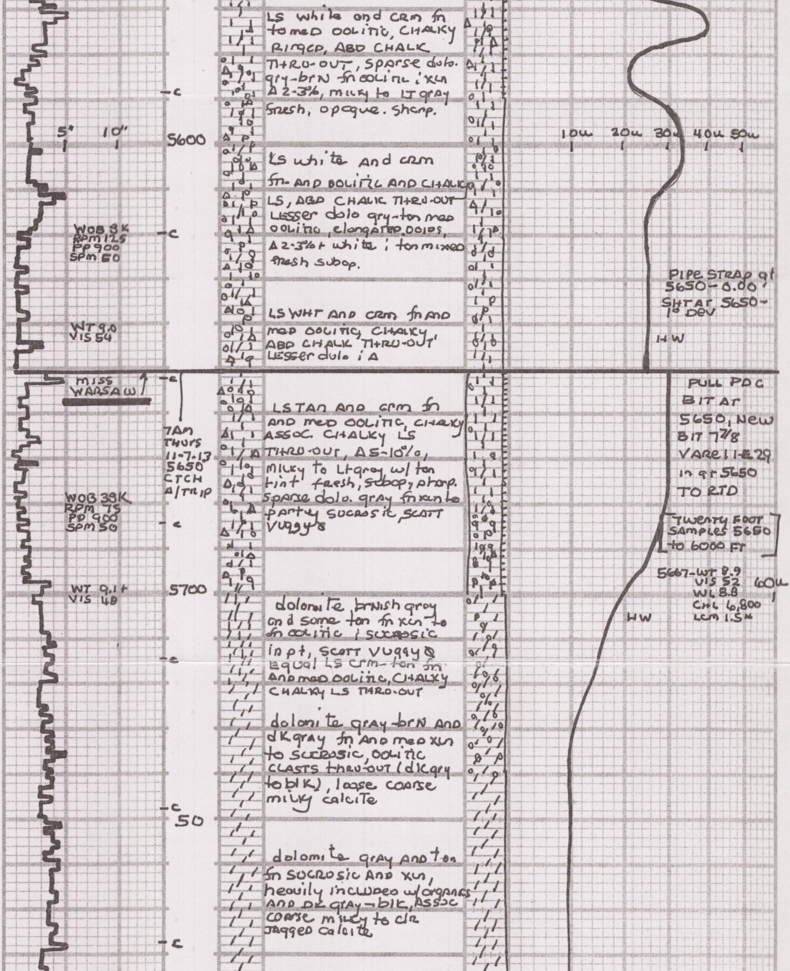
LS tan brown fn xln dn CHALK THRU-OUT, lesser dolomite tan fn xln-sucrosic, some slightly oolitic

[GEOLOGIST ON LOCATION AT 5500]

LS white CHALKY lesser LS wht-tan fn-med OOLITIC, CHALK LACED SCATT Δ MILKY to LT BLUE fresh subop., sharp

WT 8.8
VIS 56
LCM 2

LS white CHALKY Equal LS tan & crm fn xln to suboolitic



LS white and crm fn to med oolitic, chalky ringed, ABD chalk thru-out, sparse dolo. gry-brn fn oolitic ; xln Δ 2-3%, milky to LT gray fresh, opaque. sharp.

LS white and crm fn- and oolitic and chalky LS, ABD chalk thru-out lesser dolo gry-tan med oolitic, elongated oolds, Δ 2-3%+ white ; tan mixed fresh subop.

WOB 3K
RPM 125
PP 900
SPM 50

LS WHT and crm fn and med oolitic, chalky, ABD chalk thru-out lesser dolo ; Δ

WT 9.0
VIS 54

Pipe strap at 5650 - 0.00'
SHT at 5650 - 1° DEV

7AM
Thurs
11-7-13
5650
CTCH
A/TRIP

LS tan and crm fn and med oolitic, chalky assoc. chalky LS thru-out, Δ 5-10%, milky to Lt gray w/ tan tint fresh, subop, sharp. sparse dolo. gray fn xln to partly sucrosic, scatt vuggy Φ

Pull PDC bit at 5650, New bit 7 7/8 VARE11-E29 in at 5650 to RTD

WOB 33K
RPM 75
PP 900
SPM 50

Twenty foot samples 5650 to 6000 FT

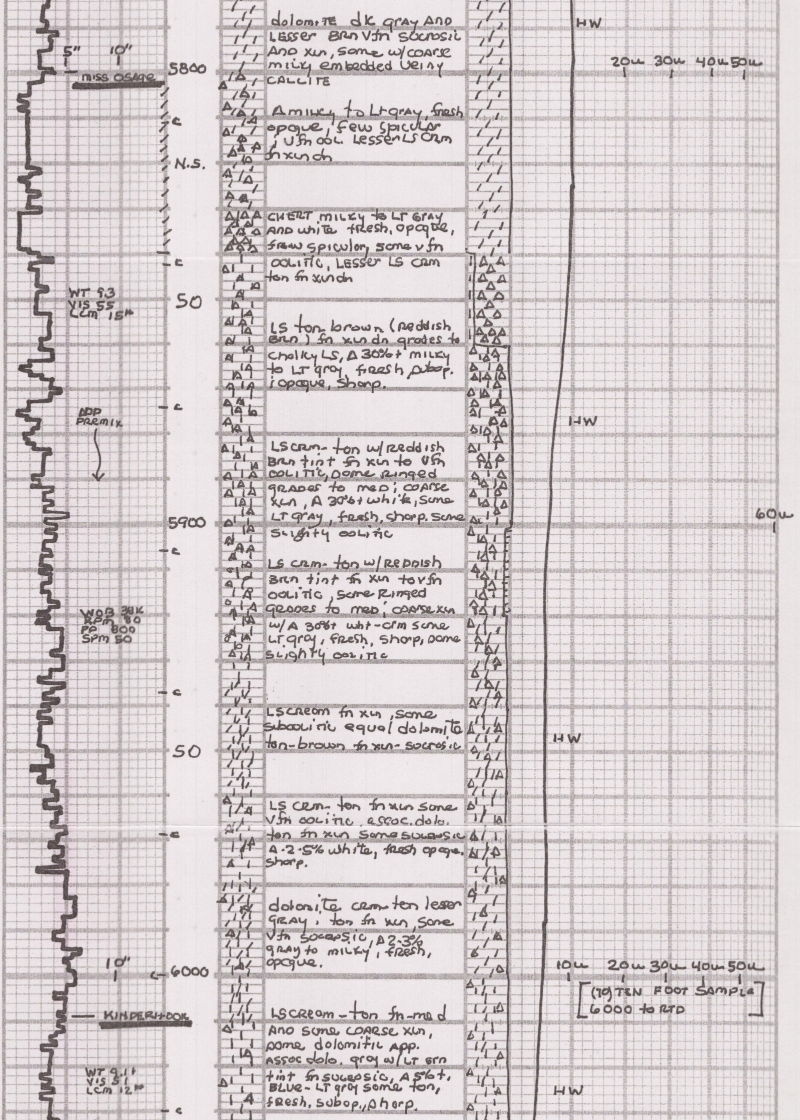
5667 - WT 8.9
VIS 52
WL 8.8
CHL 6,800
LCM 1.5#

WT 9.1+
VIS 48

dolomite brnish gray and some tan fn xln to fn oolitic ; sucrosic in pt, scatt vuggy Φ equal LS crm-tan fn and med oolitic, chalky chalky LS thru-out

dolomite gray-brn and dk gray fn and med xln to sucrosic, oolitic clasts thru-out (dk gray to blk), loose coarse milky calcite

dolomite gray and tan fn sucrosic and xln, heavily included w/ organics and dk gray-blk, assoc coarse milky to clr jagged calcite



dolomite dk gray AND LESSER BRN Vfn sucrosic AND xln, some w/coarse milky embedded veiny CALLITE

Δ milky to Lt gray, fresh opaque, few spicular, vfn ool. Lesser LS crm fn xln dn

CHERT milky to LT GRAY AND white fresh, opaque, few spicular, some v fn oolitic, LESSER LS crm tan fn xln dn

LS tan brown (reddish Brn) fn xln dn grades to chalky LS, Δ 30%+ milky to LT gray, fresh, subop. ; opaque, sharp.

LS crm- tan w/reddish Brn tint fn xln to Vfn oolitic, some ringed grades to med; coarse xln, A 30%+ white, some LT gray, fresh, sharp. some slighty oolitic

LS crm- tan w/reddish Brn tint fn xln to vfn oolitic, some ringed grades to med; coarse xln w/A 30%+ wht-crm some LT gray, fresh, sharp, some slighty oolitic

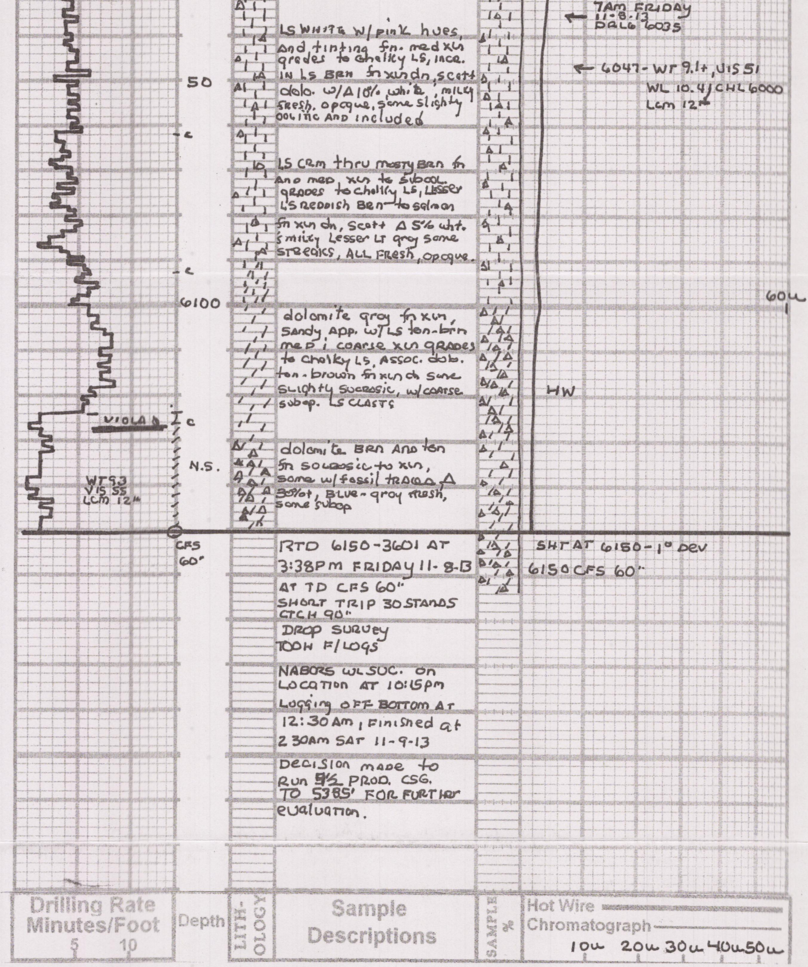
LS cream fn xln, some suboolitic equal dolomite tan-brown fn xln- sucrosic

LS crm- tan fn xln some Vfn oolitic. assoc. dolo. tan fn xln some sucrosic A 2-5% white, fresh opaque. sharp.

dolomite crm- tan lesser GRAY; tan fn xln, some Vfn sucrosic, Δ 2-3% gray to milky, fresh, opaque.

[(10) TEN FOOT SAMPLE
6000 to RTD]

LS cream - tan fn-med AND some COARSE xln, some dolomitic app. assoc dolo. gray w/LT brn tint fn sucrosic, A 5%+, BLUE- LT gray some tan, fresh, subop., sharp.



7AM FRIDAY
11-8-13
DRLG 6035

← 6047- WT 9.1+, VIS 51
WL 10.4/CHL 6000
LCM 12"

LS WHITE W/pink hues, And tinting fn. med xln grades to chalky LS, incr. IN LS BRN fn xln dn, scatt dolo. w/Δ 10% white, milky fresh. opaque, some slighty oolitic AND included

LS CRM thru mosty BRN fn And med. xln to sbool. grades to chalky LS, Lesser LS reddish BRN to salmon fn xln dn, Scatt Δ 5% wht. & milky Lesser LT gray some streaks, ALL Fresh, opaque.

dolomite gray fn xln, Sandy App. w/LS tan-brn med & coarse xln grades to chalky LS, Assoc. dolo. tan-brown fn xln dn some slighty sucrosic, w/coarse subop. LS CLASTS

dolomite BRN And tan fn sucrosic to xln, some w/fossil traces Δ 30% ot, Blue-gray fresh, some subop

WT 9.3
VIS 55
LCM 12"

RTD 6150-3601 AT 3:38PM FRIDAY 11-8-13

AT TD CFS 60"
SHORT TRIP 30 STANDS
CTCH 90"

DROP SURVEY
TOOH F/LOGS

NABORS WLSVC. on LOCATION AT 10:15pm

Logging OFF BOTTOM AT 12:30 AM, Finished at 2 30AM SAT 11-9-13

Decision made to Run 5½ PROD. CSG. TO 5385' FOR FURTHer evaluation.

SHT AT 6150 - 1° DEV
6150 CFS 60"