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GEOLOGICAL REPORT

COMPANY VINCENT OIL CORP. (5004)
LEASE TORLINE 1-10
FIELD WILDCAT
LOCATION 365 FNL & 1620 FEL
SECTION 10 TOWNSHIP 29S RANGE 23W
COUNTY FORD STATE KANSAS

API: 15-057-21026

ELEVATIONS
KB 2567 FEET
DF 2565 FEET
GL 2555 FEET
MEASUREMENTS ARE ALL FROM: KB

CASING
8 5/8" AT 687'
PLUG & ABANDON

CONTRACTOR DUKE DRLG RIG 1 (5929)
COMMENCED DRILLING MON. AUG.12, 2019
COMPLETED DRILLING THUR. AUG. 22, 2019
RTD 5510 FEET LTD 5500 FEET
MUD UP AT 3828 FEET MUD TYPE CHEMICAL

ELOG SUITES
CNCD/PE
DUAL INDUCTION
MICROLOG
SONIC

SAMPLES SAVED FROM 4250 FEET TO 5510 FEET
DRILLING TIME KEPT FROM 4250 FEET TO 5510 FEET
SAMPLES EXAMINED FROM 4250 FEET TO 5510 FEET
GEOLOGICAL SUPERVISION FROM 4280 FEET TO 5510 FEET

NOTES: MUD SYSTEM - MUDCO, SURF. CSG CMT - QUALITY CMTG, GAS DETECTOR - MBC LOGGING & LEASING, WATER-WELL, FUEL - BEST HORN O&G, DSTS - TRILOBITE TSTG, LOGGING - ELI WL SVC., PLUGGING CMT - QUALITY CMTG
CORES - NONE

Remarks:

THE VINCENT OIL CORP TORLINE 1-10 WAS DRILLED AS A STEPOUT ON THE MALONE 3D PROSPECT. A 3D ANOMALY WAS IDENTIFIED BEING PROJECTED NEAR THE TOP OF THE MISS UNC. THE VOC TORLINE 1-10 RAN STRUCTURALLY LOW TO ALL LOCAL CONTROL AS ANTICIPATED. THE ANOMALY DID NOT CONSIST OF HYDROCARBON. STRATA, ONE (1) NEGATIVE DST WAS TAKEN IN THE MARM PAWNEE WITH 420' WATER AND NO SHOWS OF OIL OR GAS. THE VOC. TORLINE WAS PLUGGED AND ABANDONED Ken LeBlanc

Daily Penetration

7AM

Date	Depth
8-12-19	MIRT - RIG UP
	SPUD 730 pm
8-13-19	690 - RUN & SET
	8 5/8" AT 690'
8-14-19	DRLG 1491'
8-15-19	DRLG 2760'
8-16-19	DRLG 3465'
8-17-19	DRLG 4130'
8-18-19	DRLG 4750'
8-19-19	5140 CFS, DST
	DWN F/REPAIRS TO
	CLUTCH 4 HRS +
8-20-19	5140 - TIH A/DST
8-21-19	5375 CFS, RTD
	5510 AT 4pm
	8-21-19, CFS 60"
	SHORT TRIP 20 STDS
	CTCH 90", DRP SURVEY
	TOOH F/LOGS,
	ELI WL SVC. ON
	LOC. AT 845p,
	logging OFF BTM
	AT 1045p, FINISHED
	AT 330AM 8-22-19
8-22-19	5510 - PREPARING
	to PLUG AND
	ABANDON

Bit Record

Number	Size	Make	Type	Depth Out	Feet	Hours
1	12 1/4	PDC	RR	690	690	5 1/4
2	7 7/8	BD	526	5140	4450	112
3	7 7/8	VAREL	HE23	5510	370	24
	TOTAL BIT HOURS			→	5510	141 1/4

AVG PENETRATION RATE: 0-RTD
39.00 FPH

GENERAL INFORMATION

RAN 16 JTS NEW 8 5/8" SURF CSG, SET AT 687', CMTD W/125 SXS MDC (3% CC + 1/4#/SX FLO-SEAL) + 150 SXS COMMON (2% GEL 3% CC + 1/4# FLOSEAL/SX) PD AT 900AM 8-13-19
CMT DID CIRC. BY QUALITY CMTG
RIG MAKE: IDECO H35, DBL STEEL PITS
RIG DRAWWORKS PWR: CAT 3406
DP: 4 1/2" XH, 16.6#/FT, OD: 6 1/8", ID: 2 1/8"
DC: 1# LENGTH 472.53', OD: 6 1/8", ID: 2 1/8"
PUMP 1: IDECO MM550, LINERS 6", STROKE 15"
POWER: CAT 285-9075
RIG POWER: DETROIT DIESEL SERIES 60

TOOL PUSHER: MIKE GODFREY

Formation Tops

	Sampl Tops
BASE SURFACE CASING	687
HEEBNER SHALE	4405
BRN LS	4553
LANSING	4563
STARK SHALE	4903
HUSH SHALE	4941
B/KC	5021
MARMATON	5040
MARM PAWNEE LS	5113
CHEROKEE SHALE	5161
BSL PENN LS	5264
MISS. UNC.	5294
RTD / LTD	5510

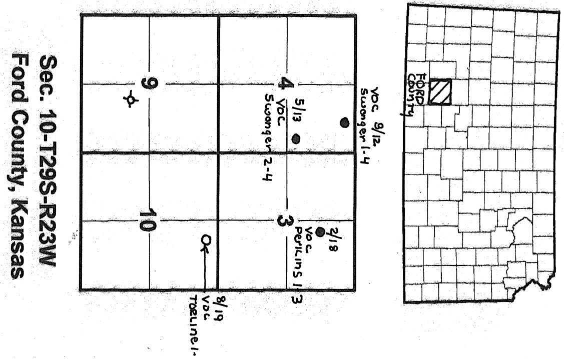
* PIPE STRAP AT 5140 FT WAS 11.11 FT SHORT TO BOARD - NO CORRECTION WAS MADE MOVING FORWARD

ELOG TOPS AVERAGE 10 FT SHALLOW TO EQUIVALENT DRILL TIME MARKERS

Reference Well: BERGMAN OIL PER

Corrected Sample Tops	Electric Log Tops	Subsea Datums
	690	
	4398	-1831
	4544	-1977
	4555	-1988
	4891	-2324
	4932	-2365
	5009	-2442
	5024	-2457
	5104	-2537
	5150	-2583
	5254	-2687
	5284	-2717
	5500	-2933

KINS 1-9 CNWSE 9-29S-23W

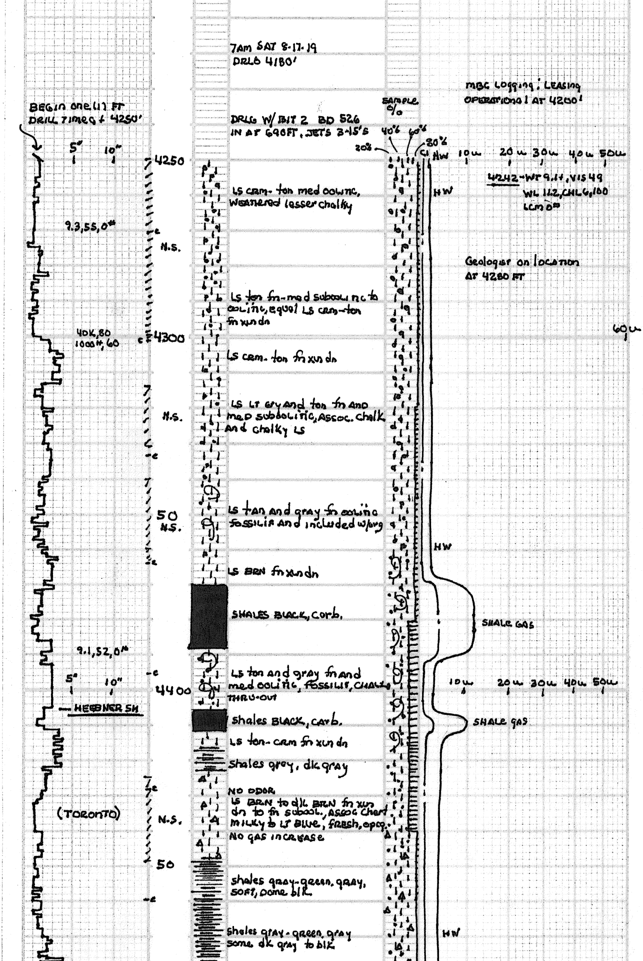


Sec. 10-T29S-R23W
Ford County, Kansas

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	LITHOLOGY	Sample Descriptions	SAMPLE %	Hot Wire ━━ Chromatograph ── 10u 20u 30u 40u 50u
			⊙ - CIRCULATE FOR SAMPLES		
			C - DRILL PIPE CONNECTIONS		MUD-CO AT 690' WT 9.9+, VIS 36 WL NC, CHL 8300 LCM 3#
			SHT AT 690' - 1/4° 1110' - 3/4° 1618' - 3/4° 2124' - 1° 2627' - 1° 3132' - 3/4° 3638' - 1°		2766 WT 9.7, VIS 35 WL NC, CHL 94,500 LCM 2½# 3478 WT 9.9, VIS 29 WL NC, CHL 75,600 LCM TRACE
			DISPLACE MUD SYSTEM AT 3600 FT - 3828 FT		



7Am SAT 8-17-19
DRLG 4180'

MBC Logging; LEASING OPERATIONS 1 AT 4200'

BEGIN ONE (1) FT DRILL TIME @ 4250'

DRLG W/ BIT 2 BD 526
IN AT 690FT, JETS 3-15'S

4242 - WT 9.1+, VIS 49
WL 11.2, CHL 6,100
LCM 0#

9.3, 55, 0#

LS crm-tan med oolitic, weathered lesser chalky

Geologist on location AT 4280 FT

LS tan fn-med suboolitic to oolitic, equal LS crm-tan fn xln dn

40K, 80
1000#, 60

LS crm-tan fn xln dn

LS LT gry and tan fn and med suboolitic, Assoc. chalk and chalky LS

LS tan and gray fn oolitic fossilif and included w/org

LS BRN fn xln dn

SHALES BLACK, carb.

SHALE GAS

9.1, 52, 0#

LS tan and gray fn and med oolitic, fossilif, chalky thru-out

HEEBNER SH

shales BLACK, carb.

SHALE GAS

LS tan-crm fn xln dn

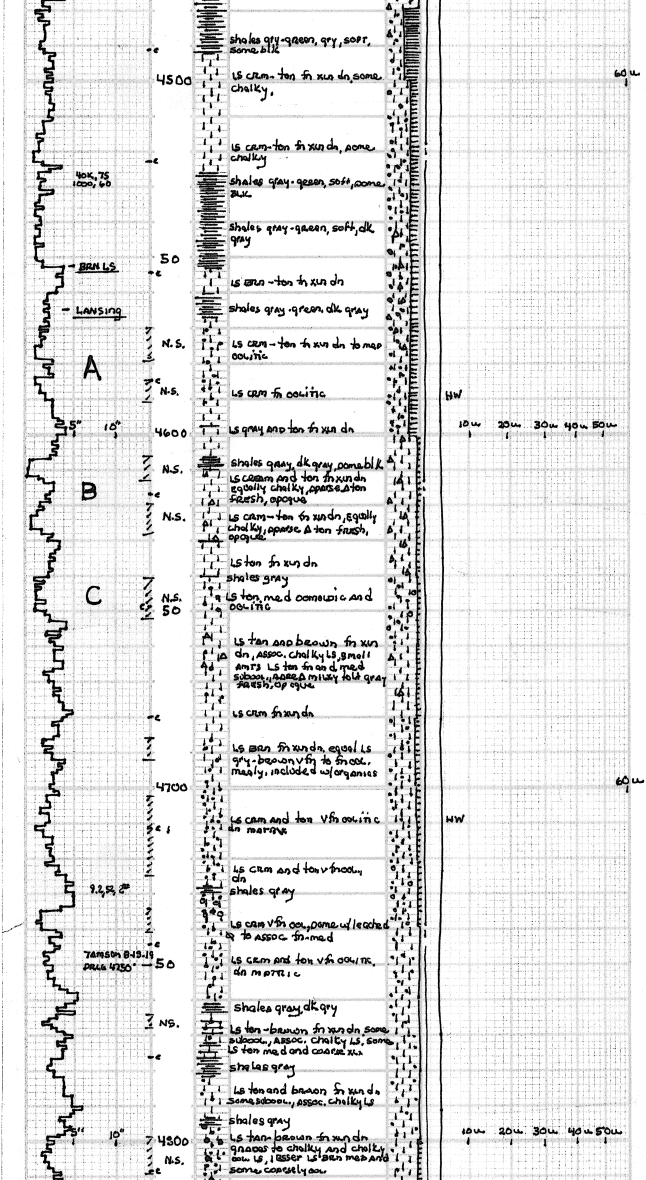
shales gray, dk gray

NO ODOR
LS BRN to dk BRN fn xln dn to fn subool., Assoc chert milky to LT Blue, fresh, opq.
NO GAS INCREASE

(TORONTO)

shales gray-green, gray, soft, some blk.

shales gray-green, gray some dk gray to blk.



shales gry-green, gry, soft, some blk

LS crm-tan fn xln dn, some chalky.

LS crm-tan fn xln dn, some chalky

shales gray-green, soft, some blk

shales gray-green, soft, dk gray

LS brn-tan fn xln dn

shales gray-green, dk gray

LS crm-tan fn xln dn to med oolitic

LS crm fn oolitic

LS gray and tan fn xln dn

shales gray, dk gray, some blk

LS cream and tan fn xln dn equally chalky, sparse Δ tan fresh, opaque

LS crm-tan fn xln dn, equally chalky, sparse Δ tan fresh, opaque

LS tan fn xln dn

shales gray

LS tan med oomoldic and oolitic

LS tan and brown fn xln dn, assoc. chalky LS, small amts LS tan fn and med subool., sparse Δ milky to lt gray fresh, opaque

LS crm fn xln dn

LS brn fn xln dn, equal LS gry-brown vfn to fn ool., mealy, included w/organics

LS crm and tan vfn oolitic dn matrix

LS crm and tan vfn ool., dn

shales gray

LS crm vfn ool, some w/leached to assoc. fn-med

LS crm and tan vfn oolitic, dn matric

shales gray, dk gry

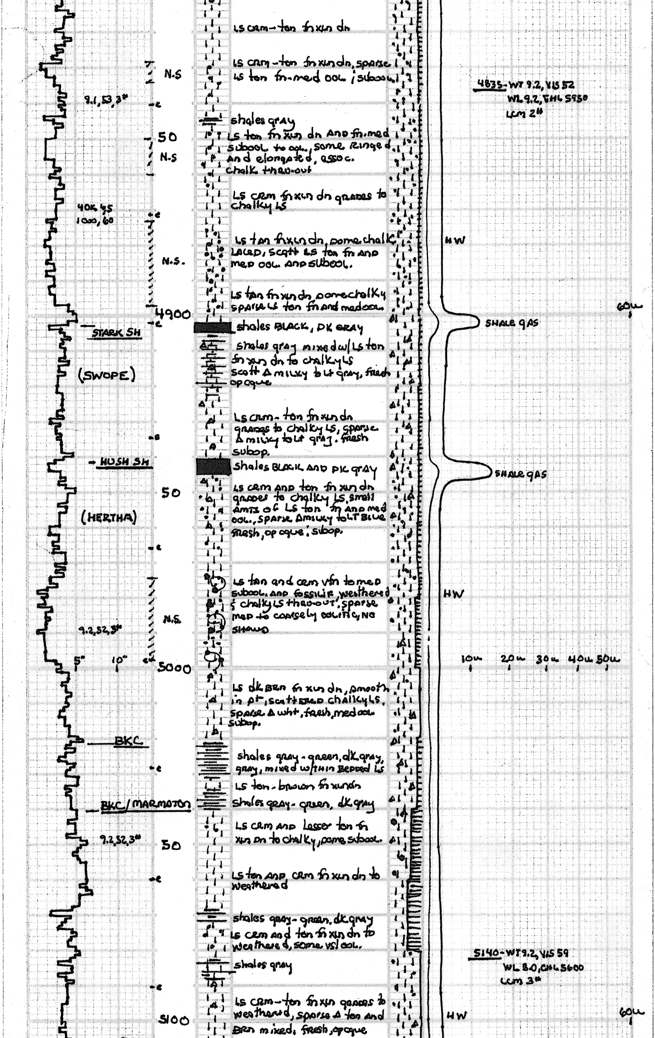
LS tan-brown fn xln dn, some subool., assoc. chalky LS, some LS tan med and coarse xln

shales gray

LS tan and brown fn xln dn some subool., assoc. chalky LS

shales gray

LS tan-brown fn xln dn grades to chalky and chalky ool. LS, lesser LS brn med and some coarsely ool.



LS crm-tan fn xln dn

LS crm-tan fn xln dn, sparse LS tan fn-med ool ; subool.

shales gray

LS tan fn xln dn and fn-med subool. to ool., some ringed and elongated, assoc. chalk thru-out

LS crm fn xln dn grades to chalky LS

LS tan fn xln dn, some chalk laced, scatt LS tan fn and med ool. and subool.

LS tan fn xln dn, some chalky sparse LS tan fn and med ool.

shales BLACK, DK GRAY

shales gray mixed w/ LS tan fn xln dn to chalky LS scatt Δ milky to lt gray, fresh opaque

LS crm-tan fn xln dn grades to chalky LS, sparse Δ milky to lt gray, fresh subop.

shales BLACK AND DK gray

LS crm and tan fn xln dn grades to chalky LS, small amts of LS tan fn and med ool., sparse Δ milky to lt blue fresh, opaque ; subop.

LS tan and crm vfn to med subool. and fossilif, weathered & chalky LS thru-out, sparse med to coarsely oolitic, no shows

LS dk brn fn xln dn, smooth in pt, scattered chalky LS, sparse Δ wht, fresh, med ool. subop.

shales gray-green, dk gray, gray, mixed w/ thin bedded LS

LS tan-brown fn xln dn

shales gray-green, dk gray

LS crm and lesser tan fn xln dn to chalky, some subool.

LS tan and crm fn xln dn to weathered

shales gray-green, dk gray

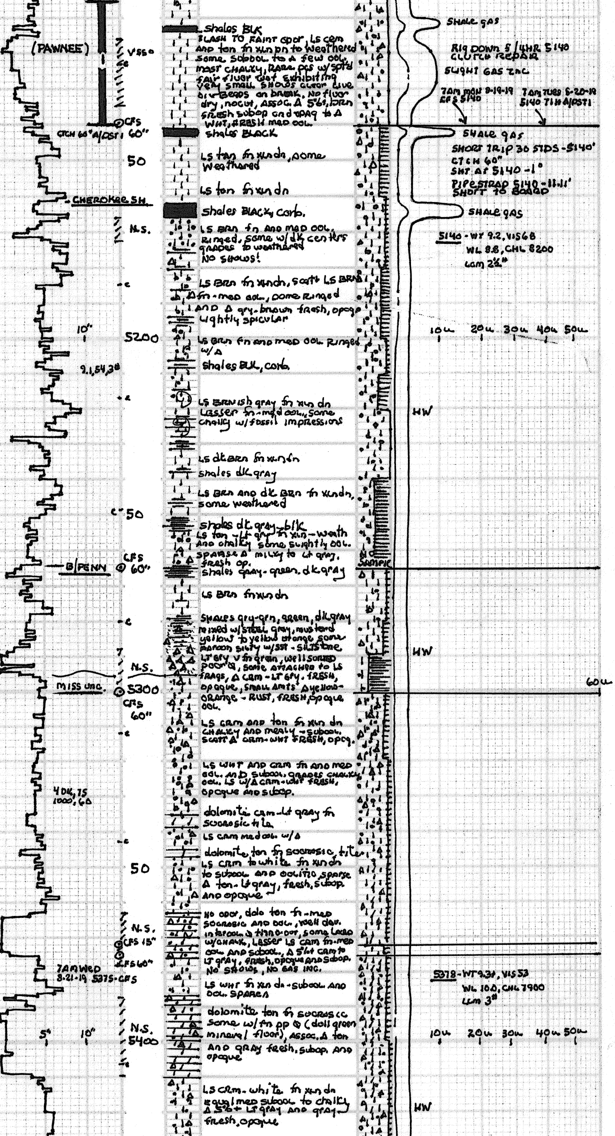
LS crm and tan fn xln dn to weathered, some vsl ool.

shales gray

LS crm-tan fn xln grades to weathered, sparse Δ tan and brn mixed, fresh, opaque

4835- WT 9.2, VIS 52
WL 9.2, CHL 5950
LCM 2#

5140- WT 9.2, VIS 59
WL 8.0, CHL 5600
LCM 3#



shales BLK
FLASH TO FAINT ODOR, LS CRM AND tan fn xln pp to weathered some subool to A few ool, most CHALKY, RARE pts w/ spts fair fluor that exhibiting very small shows clear live oil beads on break, No fluor dry, no cut, ASSOC. Δ 5%, brn fresh subop and opaq to Δ WHT, fresh med ool.

shales BLACK

LS tan fn xln dn, some weathered

LS tan fn xln dn

shales BLACK, carb.

LS BRN fn AND MED OOL. Ringed, some w/dk centers grades to weathered
NO SHOWS!

LS BRN fn xln dn, scatt LS BRN fn-med ool., some Ringed AND Δ gry-brown fresh, opaq
slightly spicular

LS BRN fn and med ool. Ringed w/Δ

shales BLK, carb.

LS BRNish gray fn xln dn
Lesser fn-med ool., some chalky w/fossil impressions

LS dk BRN fn xln fn

shales dk gray

LS BRN AND dk BRN fn xln dn, some weathered

shales dk gray-blk
LS tan-Lt gry fn xln-weath AND chalky some slightly OOL.
sparse Δ milky to Lt gray, fresh op.
shales gray-green, dk gray

LS BRN fn xln dn

SHALES gry-grn, green, dk gray mixed w/ STEEL gray, mustard yellow to yellow orange some maroon silty w/SST - SILTSTONE LT GRY v fn grain, well sorted poor Φ, some attached to LS frags, Δ CRM - LT GRY. FRESH, opaque, small amts Δ yellow-orange - RUST, FRESH, opaque ool.

LS CRM AND tan fn xln dn CHALKY AND mealy - subool. SCATT Δ CRM - WHT FRESH, opaq.

LS WHT AND CRM fn AND MED ool. AND subool. grades chalky ool. LS w/Δ CRM - WHT FRESH, opaque and subop.

dolomite crm - Lt gray fn sucrosic tite

LS crm med ool. w/Δ

dolomite, tan fn sucrosic, tite
LS crm to white fn xln dn to subool. AND oolitic, sparse Δ tan - Lt gray, fresh, subop. AND opaque

No odor, dolo tan fn-med sucrosic AND ool., well dev. interool. Φ third-out, some LAYED w/CHALK, LESSER LS CRM fn-med ool. AND subool., Δ 5% crm to LT gray, fresh, opaque AND subop.
No shows, NO GAS INC.

LS WHT fn xln dn - subool. AND ool. SPARSE Δ

dolomite tan fn sucrosic some w/fn pp Φ (dull green mineral fluor), Assoc. Δ tan AND gray fresh, subop. AND opaque

LS crm - white fn xln dn equal med subool. to chalky Δ 5%+ LT gray AND gray fresh, opaque

Rig Down 5 1/4 HR 5140 CLUTCH REPAIR

SLIGHT GAS INC.

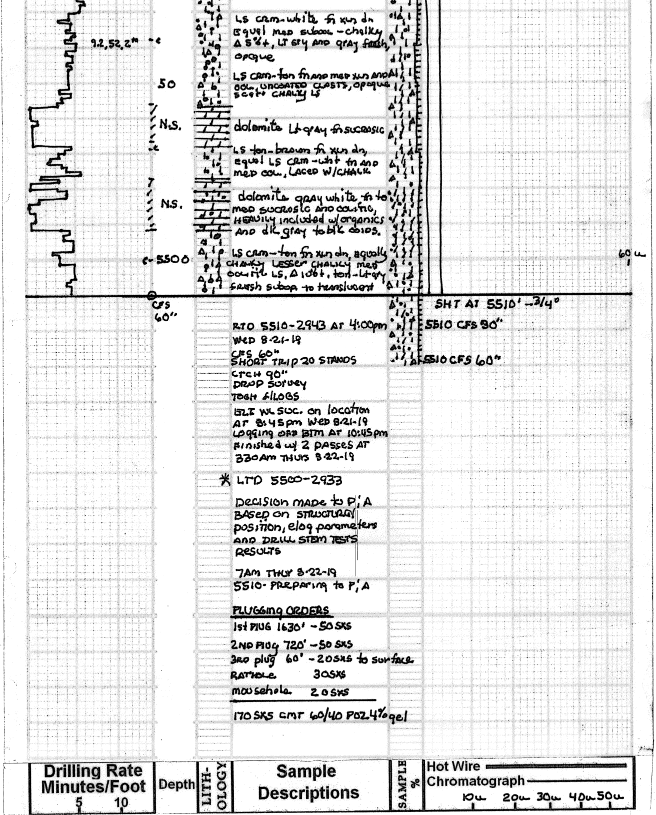
7AM MON 8-19-19 CFS 5140

7AM TUES 8-20-19 5140 TIH A/DST 1

SHORT TRIP 30 STDS - 5140'
CTCH 60"
SRT AT 5140 - 1°
PIPESTRAP 5140 - 11.11' SHORT TO BOARD

5140 - WT 9.2, VIS 68
WL 8.8, CHL 8200
LCM 2½#

5378 - WT 9.3, VIS 53
WL 10.0, CHL 7900
LCM 3#



LS crm-white fn xln dn equal med subool -chalky Δ 5%+, LT gry and gray fresh, opaque

LS crm-tan fn and med xln and ool, uncoated clasts, opaque scatt chalky LS

dolomite Lt gray fn sucrosic

LS tan-brown fn xln dn, equal LS crm-wht fn and med ool, laced w/chalk

dolomite gray white fn to med sucrosic and oolitic, heavily included w/organics and dk gray to blk ooids.

LS crm-tan fn xln dn, equally chalky lesser chalky med oolitic LS, Δ 10%+, tan-Lt gry fresh subop to translucent

SHT AT 5510' - 3/4°

RTD 5510-2943 AT 4:00pm Wed 8-21-19

5510 CFS 30"

CFS 60"
SHORT TRIP 20 STANDS

5510 CFS 60"

CTCH 90"
DROP survey
TOOH f/LOGS

ELI WL SVC. on location AT 8:45pm Wed 8-21-19
Logging off BTM AT 10:45pm
Finished w/ 2 passes AT 330Am THURS 8-22-19

* LTD 5500-2933

Decision made to P; A based on structural position, elog parameters and drill stem tests results

7AM THUR 8-22-19
5510- Preparing to P; A

PLUGGING ORDERS
1st PLUG 1630' - 50 SKS
2ND PLUG 720' - 50 SKS
3RD plug 60' - 20SKS to surface
RATHOLE 30SKS
mousehole 20SKS

170 SKS CMT 60/40 POZ 4% gel

DST 1) 5105-5140

(Marmaton Pawnee)

TIMES: 30-60-60-90

1st open: Blow OBOB in 34 minutes - NO Gas to Surface
(NO BLOWBACK)

2nd open: Blow built to OBOB in 50 minutes - NO Gas to Surface
(NO BLOWBACK)

REC: NO GAS in Pipe

120' Muddy Water
(90% water, 10% mud)

300' Water
(100% water)

420' Total Fluid - ALL in Drill Pipe

chlorides of mud system: 5,600 ppm
chlorides of formation water: 50,000 ppm
resistivity of formation water: 0.136 @ 78.1 Deg F

electronic recorders

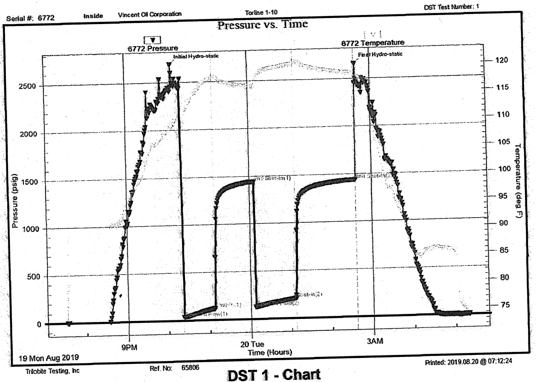
IHYD: 2684 psi
IFP: 32-123 psi
IBHP: 1445 psi
FFP: 125-210 psi
FBHP: 1441 psi
FHYD: 2654 psi

TEMP: 117 degrees F

Tester: Benny Mulligan: Trilobite Testing LLC, Great Bend District

Note: conventional DST (dual packers, safety joint, circulating sub, electronic recorders, IPro)

NO jars
NO bottom sampler



DST 1 - Chart