LeBlanc
Petroleum Geologist

GEOLOGICAL REPORT

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

COMPANY VINCENT OIL CORP (5004)
LEASE SANDYLAND 2·27
FIELD
LOCATION 395 FSL & 90 FWL
SECTION 27 TOWNSHIP 28 S RANGE 23 W
COUNTY FORD STATE KANSAS

API: 15-057-20941

ELEVATIONS
KB 2517 FEET
DF 2515 FEET
GL 2507 FEET
MEASUREMENTS ARE ALL FROM: KB

CASING
8⅝" AT 650
4½" AT 5358'

CONTRACTOR DUKE DRLG RIG 1 (5929)
COMMENCED DRILLING WED. 9-17-2014
COMPLETED DRILLING SUN. 9-28-2014
RTD 5360 FEET LTD 5360 FEET
MUD UP AT FEET MUD TYPE

ELOG SUITES
CNCD/PE
DUAL INDUCTION
Sonic
MICROLOG

SAMPLES SAVED FROM 4200 FEET TO 5360 FEET
DRILLING TIME KEPT FROM 4150 FEET TO 5360 FEET
SAMPLES EXAMINED FROM 4200 FEET TO 5360 FEET
GEOLOGICAL SUPERVISION FROM 4830 FEET TO 5360 FEET

NOTES: MUD SYSTEM - MUD-CO, SURF. CSG CMT - QUALITY CMTG, WATER - Well, FUEL - BEST HORN OG, DSTS - TRILOBITE TSTG, LOGGING - NABORS WL SVC

CORES - None

Remarks:

THE VINCENT OIL CORP, SANDYLAND 2·27 WAS DRILLED to AN·RTD OF 5360 FT Some 100 FT WITHIN THE MISS. UNC.. FIVE (5) DST WERE taken COVERING ALL SIGNIFICANT SHOW OF OIL and GAS AND OR GAS INCREASES. TWO (2) OF THE DSTS MAY Be evaluated for commercial POTENTIAL.

Ken LeBlanc

Daily Penetration

7AM

Date	Depth
9-17-14	MIRT, RIG UP
	SPUD 930PM
9-18-14	650' - Set 8⅝
	AT 650'
9·19·14	DRLG 1243'
9·20·14	DRLG 2569'
9·21·14	DRLG 3387'
9·22·14	DRLG 4160'
9·23·14	DRLG 4730'
9·24·14	5020 - TIH/DST 1
9·25·14	5160 CFS - DST 2
9·26·14	5195 TIH DST 3
9·27·14	5220 - TOOH DST 4
9·28·14	5235 - CTCH #5
	A/DST 5
	RTD 5360 AT
	841 PM 9·28·14
	DROP SURVEY
	TOOH F/LOGS
	NABORS WL SVC
	Logging 115Am
	to 630Am
9·29·14	5360 - Prepare
	to Run 4½"
	Casing

Bit Record

Number	Size	Make	Type	Depth Out	Feet	Hours
1	12¼	VAREL	RR	650	650	4¾
2	7⅞	VAREL	He21	5020	4370	98¾
3	7⅞	VAREL	He29	5360	340	17¾
	TOTAL	BIT HOURS		→	5360	121¼

AVG Penetration RATE: 0-RTD 44.20 FPH

GENERAL INFORMATION

SET 15 JTS 8⅝" - 23# SURF. CSG, SET 648', CMTD W/ 125 SXS MDC + 125 SX common (2% gel, 3% CC + ¼ # CF/SX) PD at 12:30 PM 9-18-14 CMTD DID CIRC, BY QUALITY CMTG

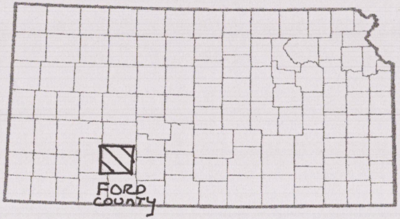
RIG MAKE: IDECO H35, DBL, STEEL PITS
POWER: CAT 3406
DP: 4½" XH, 16.6#/FT, OD: 6¼", ID 2¼"
DC: 16 - LENGTH 475.79', OD: 6¼", ID 2¼"
PUMP: EMSCO D300, Liners: 6", STROKE 14
POWER: CAT 285-9075
RIG POWER, DETROIT DIESEL SERIES 60"

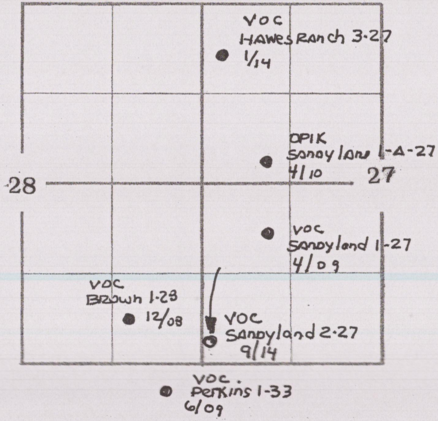
TOOL PUSHER: MIKE GODFREY

Formation Tops	Sample Tops	Corrected Sample Tops	Electric Log Tops	Subsea Datums
BASE SURFACE CASING	650		NA	
HEEBNER SHALE	4308		4312	-1795
BRN LS	4446		4450	-1933
LANSING	4457		4461	-1944
STARK SHALE	4780		4789	-2272
HUSH SHALE	4827		4828	-2311
BKC	4910		4913	-2396
MARMATON LS	4937		4940	-2423
PAWNEE LS	5004		5009	-2492
CHEROKEE SHALE	5050		5054	-2537
BPENN	5152		5151	-2634
MISS. UNC.	5171		5178	-2661
RTD, LTD	5360		5360	-2843

Reference Well: VOC BROWN 1-28, 560FSL ; 1050FEL 28-28S-23W

Kansas





SEC. 27-T28S-R23W
FORD COUNTY, KANSAS

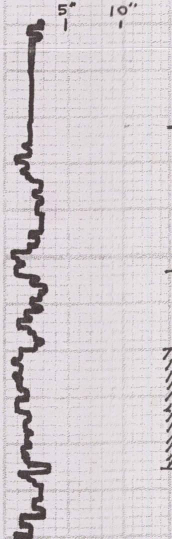
Legend

▦ 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 ── 25u 50u 75u 100u 125u
			⊙ - CIRCULATE FOR SAmples		

C - DRILL PIPE
. CONNECTIONS

SHT AT 650' — 1°
2256' → 1°
648 - WT 9.7+, VIS 35
WLNC, CHL 400
LCM 4#
1300 - WT 9.6, VIS 29
WL NC, CHL 98000
LCM 2
2921 - WT 9.9, VIS 30
WL NC, CHL 100,000
LCM 2#



4150

25u 50u 75u 100u 125u

DRLG W/BIT 2 7 7/8
VAREL HE21 JETS 3-14'S
in AT 650'

DISPLACE MUD SYSTEM
AT 3800 FEET +-

C

4200

3432 - WT 9.8, VIS 29
WL NC, CHL 76000
LCM 1#

150u

C

LS cream-tan fn xln an
to fn-med oolitic

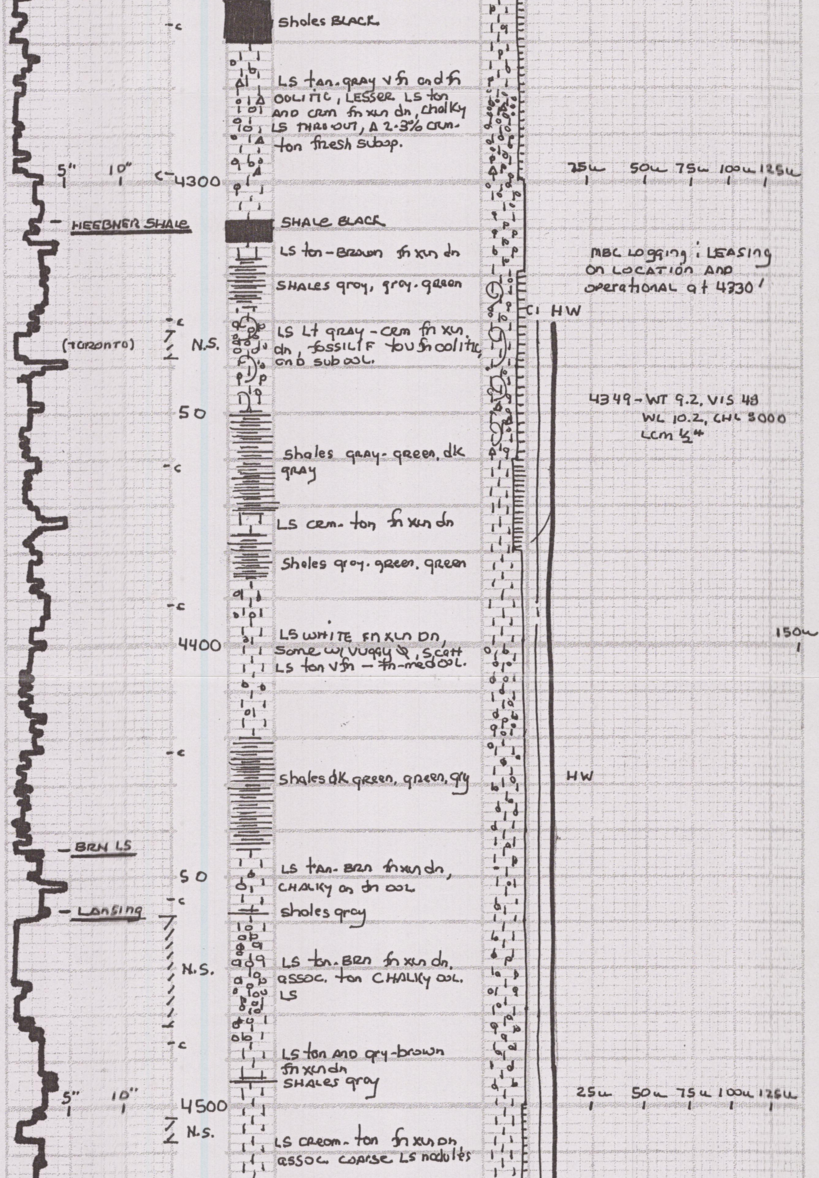
N.S
C

LS Reddish Brn to even
fn xln. chalky, Lesser
vfn- fn oolitic, included
w/ organics

50

LS crm fn xln dn

SHALES DK gray. BLACK



Sholes BLACK

LS tan. gRAY v fn and fn
OOLITIC, LESSER LS ton
AND crm fn xln dn, chalky
LS THRU-OUT, A 2-3% crm-
ton fresh subop.

SHALe BLACK

LS ton-Brown fn xln dn

SHALES groy, groy. green

LS Lt gRAY-crm fn xln.
dn, fossilif tou fn oolitic,
and sub ool.

shales gRAY-green, dk
gray

LS crm. ton fn xln dn

Sholes groy. green. green

LS WHITE Fn xln Dn,
Some w/ vuggy ⌀, scatt
LS ton vfn - fn-med ool.

shales dk green, green, gry

LS tan. brn fn xln dn,
CHALKY on fn ool.

sholes gray

LS ton. BRN fn xln dn.
assoc. ton CHALKY ool.
LS

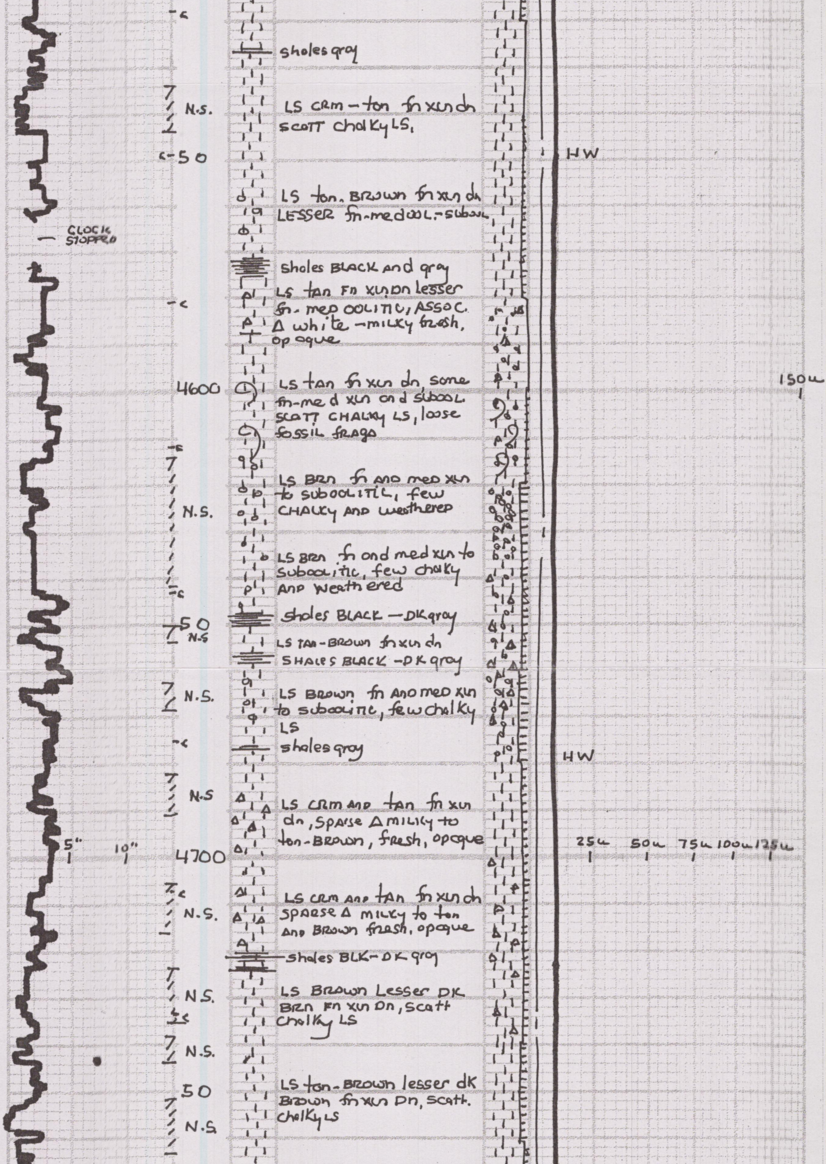
LS ton AND gry-brown
fn xln dn

SHALES gray

LS cream. ton fn xln dn
assoc. coarse LS nodules

MBC Logging & LEASING
ON LOCATION AND
operational at 4330'

4349 - WT 9.2, VIS 48
WL 10.2, CHL 3000
LCM ½#



sholes gray

LS CRM – ton fn xln dn
SCOTT chalky LS.

LS ton. BROWN fn xln dn
LESSER fn-med OOL.-subOOL.

sholes BLACK and gray

LS tan FN xln Dn lesser
fn-med OOLITIC, ASSOC.
Δ white – milky fresh,
opaque

LS tan fn xln dn, some
fn-med xln and subOOL.
SCATT CHALKY LS, loose
fossil frags

LS BRN fn AND med xln
to SUBOOLITIC, few
CHALKY AND weathered

LS BRN fn and med xln to
subOOLITIC, few chalky
AND weathered

sholes BLACK – DK gray

LS TAN-BROWN fn xln dn

SHALES BLACK – DK gray

LS BROWN fn AND MED xln
to subOOLITIC, few chalky
LS

sholes gray

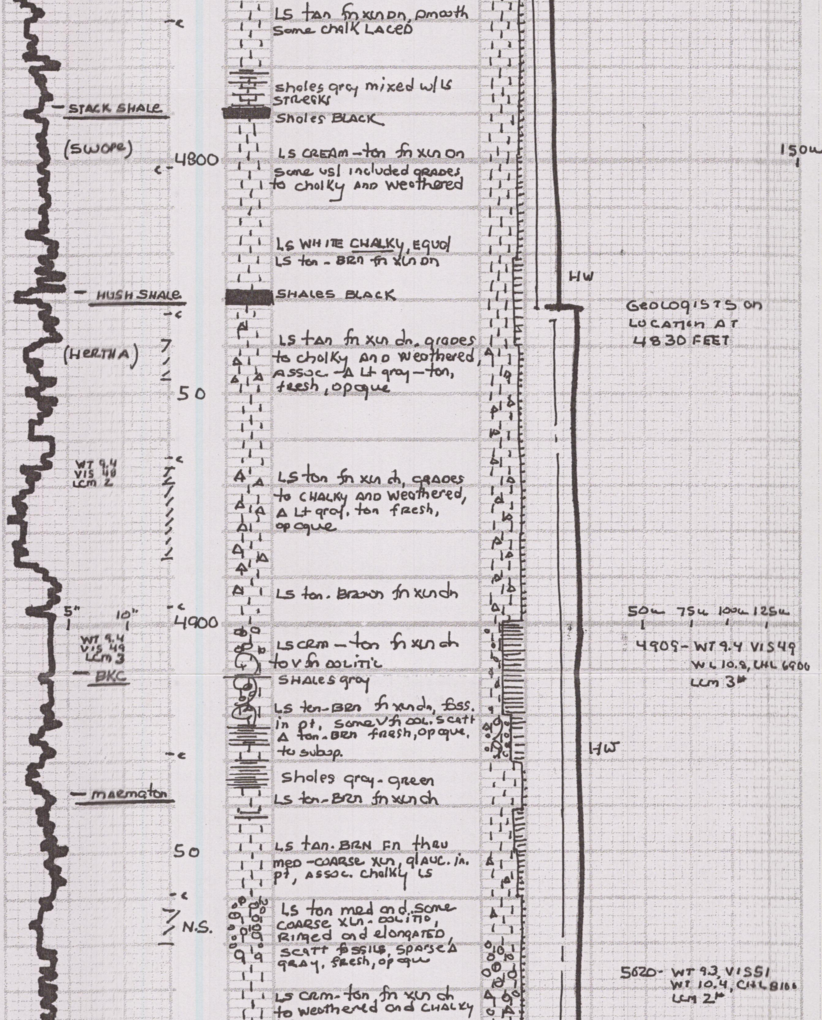
LS CRM AND tan fn xln
dn, sparse Δ milky to
ton-BROWN, fresh, opaque

LS CRM AND TAN fn xln dn
SPARSE Δ milky to ton
AND BROWN fresh, opaque

sholes BLK – DK gray

LS BROWN Lesser DK
BRN FN xln Dn, scatt
chalky LS

LS ton-BROWN lesser dK
Brown fn xln Dn, scatt.
chalky LS



LS tan fn xln dn, smooth
Some chalk LACED

shales gray mixed w/ LS
STREAKS

Shales BLACK

LS CREAM - tan fn xln dn
Some usl included grades
to chalky AND weathered

LS WHITE CHALKY, equal
LS tan - BRN fn xln dn

SHALES BLACK

Geologists on
LOCATION AT
4830 FEET

LS tan fn xln dn. grades
to chalky AND weathered,
ASSOC. Δ Lt gray - tan,
fresh, opaque

WT 9.4
VIS 48
LCM 2

LS tan fn xln dh, GRADES
to CHALKY AND weathered,
Δ Lt gray, tan fresh,
opaque

LS tan. Brown fn xln dh

WT 9.4
VIS 49
LCM 3

LS crm - tan fn xln dh
to v fn oolitic

4909- WT 9.4 VIS 49
WL 10.8, CHL 6900
LCM 3#

SHALES gray

LS tan-BRN fn xln dh, foss.
in pt, some v fn ool. scatt
Δ tan-BRN fresh, opaque,
to subop.

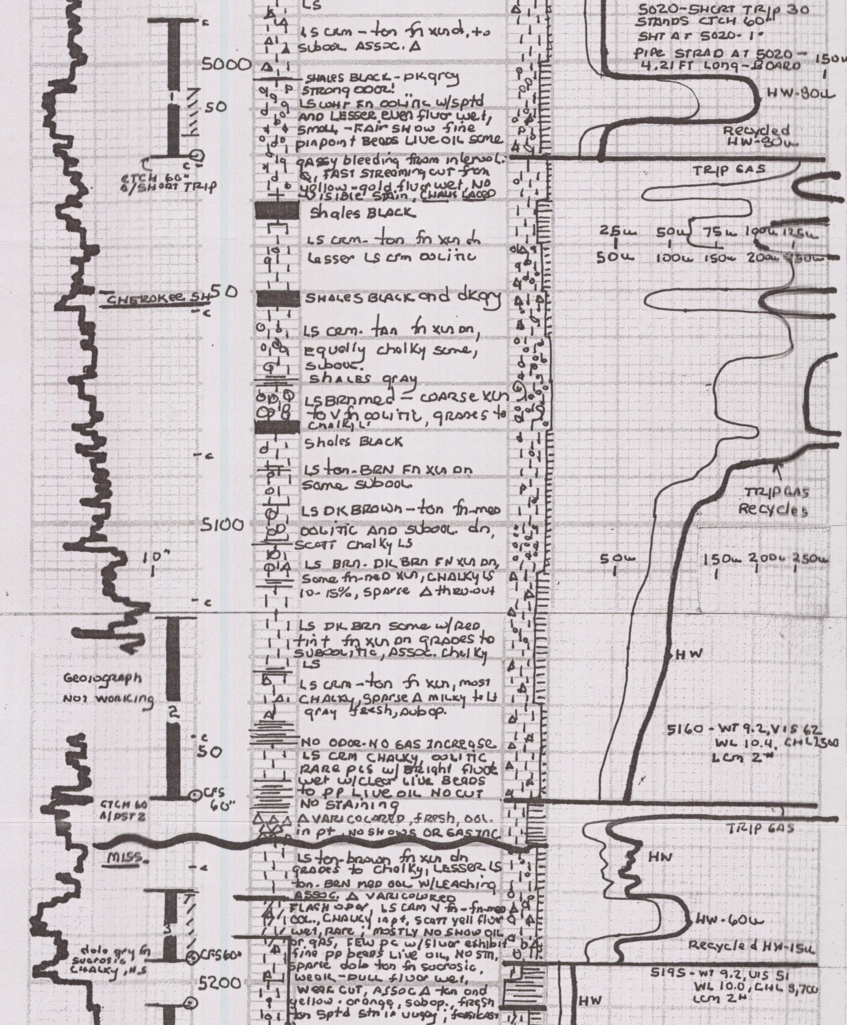
Shales gray - green
LS tan-BRN fn xln dh

LS tan. BRN fn thru
med - COARSE xln, glauc. in
pt, ASSOC. chalky LS

LS tan med and. some
COARSE xln. oolitic,
Rimed and elongated,
scatt fossils, sparse Δ
gray, fresh, opaque

5020- WT 9.3, VIS 51
WL 10.4, CHL 8100
LCM 2#

LS crm - tan, fn xln dh
to weathered and CHALKY



LS

LS crm - tan fn xln dn, to subool. Assoc. Δ

SHALES BLACK - DK gray STRONG ODOR!

LS WHT FN OOLITIC w/sptd AND LESSER even fluor wet, small - fair show fine pinpoint beads live oil some gassy bleeding from interool. ϕ, FAST STREAMING CUT from yellow - gold fluor wet, NO VISIBLE STAIN, CHANS LACED

Shales BLACK

LS crm - tan fn xln dn

Lesser LS crm oolitic

SHALES BLACK and dk gry

LS crm. tan fn xln dn, equally chalky some, subool.

Shales gray

LS BRN med - coarse xln to v fn oolitic, grades to chalky

Shales BLACK

LS tan - BRN FN xln dn some subool.

LS DK BROWN - tan fn - med oolitic and subool. dn, scatt chalky LS

LS BRN - DK BRN FN xln dn, some fn - med xln, CHALKY LS 10 - 15%, sparse Δ thru-out

LS DK BRN some w/red tint fn xln dn grades to subool itic, ASSOC. chalky LS

LS crm - tan fn xln, most CHALKY, sparse Δ milky to lt gray fresh, subop.

NO ODOR - NO GAS INCREASE

LS CRM CHALKY, OOLITIC RARE pcs w/ bright fluor wet w/clear live beads to pp live oil NO CUT NO STAINING

Δ VARICOLORED, fresh, ool. in pt, NO SHOWS OR GAS INC.

LS tan - brown fn xln dn grades to chalky, LESSER LS tan - BRN MED OOL w/LEACHING ASSOC. Δ VARICOLORED

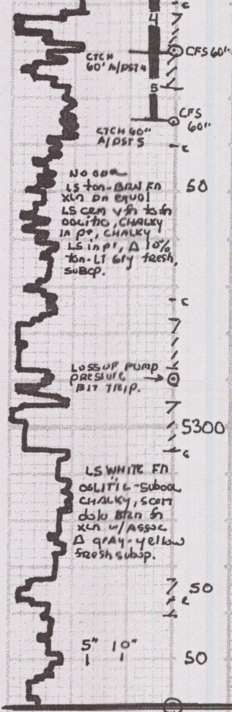
FLASH ODOR, LS CRM v fn - fn - med OOL., CHALKY in pt, scatt yell fluor wet, rare; MOSTLY NO SHOW OIL or gas, few pc w/fluor exhibit fine pp beads live oil, NO STN, sparse dolo tan fn sucrosic, weak - dull fluor wet, weak cut, ASSOC Δ tan and yellow - orange, subop., fresh tan sptd stn in vuggy; fossicast

5020 - SHORT TRIP 30 STANDS CTCH 60" SHT AT 5020 - 1°

PIPE STRAP AT 5020 - 4.21 FT LONG - BOARD

5160 - WT 9.2, VIS 62 WL 10.4, CHL 2300 LCM 2#

5195 - WT 9.2, VIS 51 WL 10.0, CHL 3,700 LCM 2#



NO ODOR LS tan-BRN FN XLN an EQUAL LS CRM vfn to fn oolitic, CHALKY in pt, CHALKY LS in pt, Δ 10% tan-LT Gry fresh, SUBOP.

LS WHITE FN OOLITIC-SUBOOL CHALKY, scatt dolo BRN fn XLN w/ASSOC Δ gray-yellow fresh subop.

5213-5219

~~STRONG ODOR~~, dolo; dolo LS tan fn-MED OOL., 40% w/BRIGHT sptd yellow gold fluor wet, FAIR; GOOD SHOWS CLEAR LIVE OIL (RARE tan OIL), Some GASSY AND BLEEDING from well dev. interxln, vuggy; interool. & (OIL DOES fluor), sptd-HVY Sptd BRN STN in BOTH dolo OOL. LS and dolo, FAIR yellow gold fluor thru-out dry, STRONG FAST CUT w/BLUE gold halo in tray, ASSOC. Δ

5220-5226

FLASH ODOR
LS CRM AND tan MED and coarsely oolitic (tan AND CRM COATED OOIDS), BECMING dolo. dull-FAIR even yellow fluor WET, SMALL SHOWS CLEAR LIVE OIL, Some OIL is DK BROWN, NO STN in OOL LS, tan-BROWN Stain; SATURATION in dolo ls w/ vuggy Φ

5276-5288

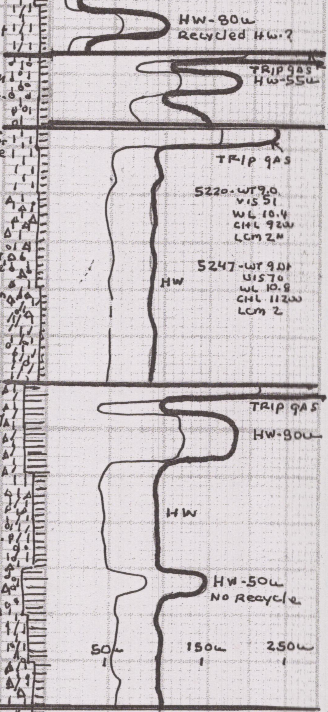
FAINT ODOR dolo LS tan fn and MED OOL., Some SUCROSIC texture, 10% w/dull sptd fluor wet exhibiting GOOD SHOWS CLEAR; Some tan LIVE OIL (OIL DOES fluor), MAJORITY OF PCS — NO STAIN, NO fluor dry, NO CUT, RARE dolo LS w/tan STAIN in vugs

5294-5305

NO ODOR. LS CRM-tan fn xln, CHALKY, equal dolo CRM fn xln. SUCROSIC to vfn OOL., LESSER LS tan-BRN MED OOL. dull fluor thru-out

LS CRM-white fn oolitic CHALKY, scatted dolo. tan BRN fn SUCROSIC w/vuggy dull fluor wet, small shows clear live oil some pcs w/STRONG ODOR when BROKEN assoc Δ

LS CRM-white fn-med; occ. coarsely oolitic, Δ 25% + gray fresh, SUBOP. OOL.; fossil.



5220 - WT 9.0
VIS 51
WL 10.4
CHL 92W
LCM 2#

5247 - WT 9.0+
VIS 70
WL 10.8
CHL 112W
LCM 2

RTD 5360 - 2843 AT
8:41 PM, SUNDAY
9-28-14
CFS 90"
DROP SURVEY
TOOH f/LOGS
NABORS WL SVC. on
Location at 12:30 AM
9-29-14, Logging OFF
BOTTOM AT 1:15 AM
FINISHED at 6:30 AM
mon 9-29-14

SHT AT 5360' - 1° DEV
5360 CFS 45"
5360 CFS 90"

7AM MONDAY 9-29-14
5360 - PREPARING to
TIH AFTER OPEN HOLE
LOGS

PREPARE to RUN 4½"
PRODUCTION CASING

Drilling Rate Minutes/Foot 5 10	Depth	LITH-OLOGY	Sample Descriptions	SAMPLE %	Hot Wire Chromatograph 50u 100u 150u 200u 250u

DST 1) 4990 - 5020

(Marmaton Pawnee)

Times: 30-60-60-120

1st open: strong blow OBOB in 90 seconds - NO GAS TO SURFACE
(weak surface blowback)

2nd open: strong blow OBOB immediately, GTS/15"

time	orfice	PSIG	volume
** 15"			Gas to Surface
++ 20"	1/4 inch	5.0	30.77 MCFG
30"	1/4 inch	5.0	30.77 MCFG
40"	1/4 inch	8.0	35.53 MCFG
50"	1/4 inch	29.0	35.53 MCFG
++ 60"	1/4 inch	29.0	35.53 MCFG
(NO Blowback)			

++ - took gas sample - sent to Caraway Labs in Liberal, Kansas for analysis

** - DID Flare gas - gas burned bright orange at hose in bucket

Rec: 154' Slightly Gas and Oil Cut Mud
(10% gas, 10% oil, 80% mud)

30' Gassy Oil Mud Cut Water
(30% gas, 6% oil, 52% water, 12% mud)
216' Total Fluid - ALL IN DRILL PIPE

chlorides of mud system: 6,900 ppm
chlorides of formation water: 75,000 ppm
resistivity of formation water: 0.085 at 85 deg F

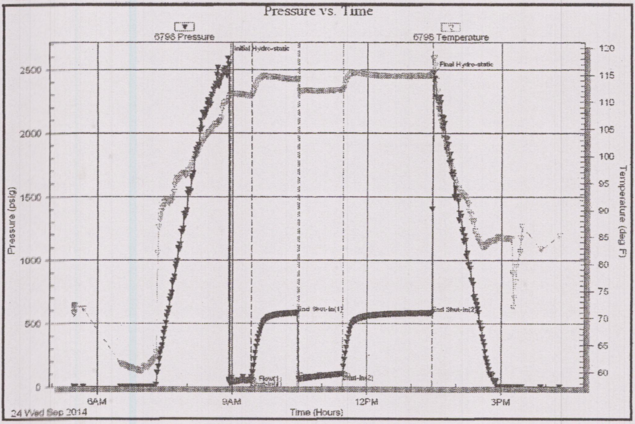
(Alpine Recorders)

IHYD: 2587 psig
IFP: 35-55 psig
IBHP: 580 psig
FFP: 62-102 psig
FBHP: 580 psig
FHYD: 2466 psig

TEMP: 118 degrees

Tester: Leal Cason: Trilobite Testing, Inc. Pratt Kansas District
NOTE: Conventional DST (dual packers, safety joint, electronic recorders)
NO bottom sampler or jars

Serial #: 6798 Inside Vincent Oil Corporation 2-27 Sandy Land DST Test Number: 1



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DST 1 - Chart

DST 2) 5124 - 5160

(BPenn-Inola ls)

Times: 30-60-60-90

1st open: strong blow OBOB in 2 minutes - NO GAS TO SURFACE
(NO blowback)

2nd open: strong blow OBOB immediately, GTS/90 seconds

time	orfice	PSIG	volume
1.5"			Gas to Surface
** 10"	1/8 inch	0.0	TSTM (To Small to Measure)
++ 20"	1/4 inch	0.0	TSTM
30"	1/4 inch	0.0	TSTM
40"	1/4 inch	0.0	TSTM
50"	1/4 inch	0.0	TSTM
60"	1/4 inch	0.0	TSTM

(weak surface blowback)

++ - took gas sample - sent to Caraway Labs in Liberal, Kansas for analysis

** - DID Flare gas - gas burned bright orange at hose in bucket

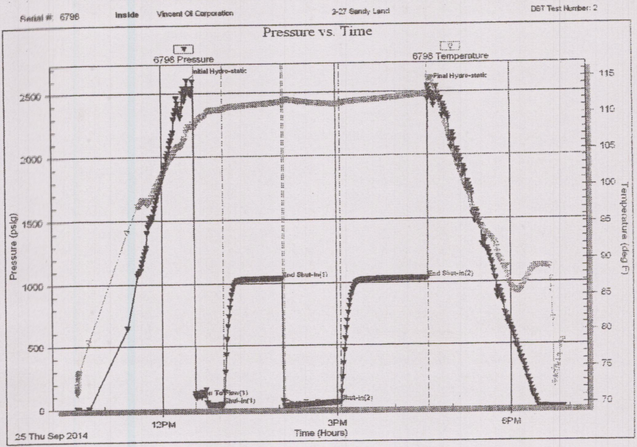
Rec: 20' Slightly Gas Cut Mud
(2% gas, 98% mud)
20' Total Fluid - ALL IN DRILL PIPE

(Alpine Recorders)

IHYD: 2601 psig
IFP: 99-35 psig
IBHP: 1035 psig
FFP: 19-49 psig
FBHP: 1033 psig
FHYD: 2540 psig

TEMP: 115 degrees

Tester: Leal Cason: Trilobite Testing, Inc. Pratt Kansas District
NOTE: Conventional DST (dual packers, safety joint, electronic recorders)
NO bottom sampler or jars



Trilobite Testing, Inc   Ref. No: 57766   **DST 2 - Chart**   Printed: 2014.09.25 @ 19:01:35

DST 3) 5180 - 5195

(Mississippian)

Times: 30-60-45-120

1st open: strong blow OBOB in 10 seconds, GTS/7" - TSTM

time	orfice	PSIG	volume
++ 7"			Gas to Surface
10"	1/4 inch	175.0	300.465 MCFGPD
20"	1/4 inch	315.0	522.561 MCFGPD
30"	1/4 inch	428.0	701.825 MCFGPD

(bled off - 10 min. - 1/4 inch blowback)

2nd open: gauging gas

time	orfice	PSIG	volume
** 10"	1/2 inch	110.0	839.184 MCFGPD
20"	1/2 inch	150.0	1.108.992 MCFGPD
30"	1/2 inch	155.0	1.142.720 MCFGPD
40"	1/2 inch	155.0	1.142.720 MCFGPD
45"	1/2 inch	155.0	1.142.720 MCFGPD

(bled off - 10 min. - weak surface blowback)

++ - gas sample taken, delivered to Caraway Analytical Lab in Liberal, Kansas for analysis

**- flared gas at flowline - burned orange thru-out

Rec: 5154' Gas in Pipe

10' Mud

(100% mud)

10' Total Fluid - ALL IN DRILL PIPE

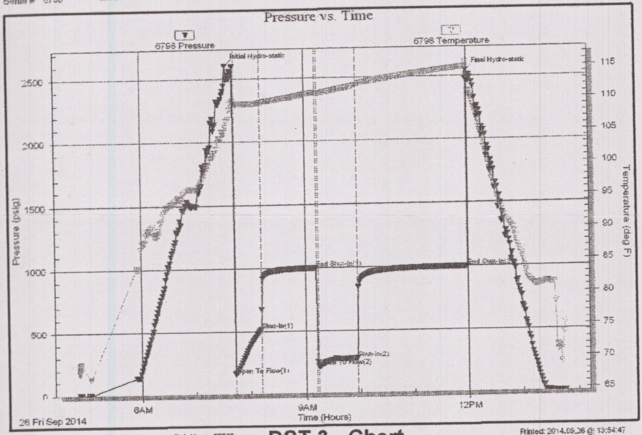
(Alpine Recorders)

IHYD:	2601	psig
IFP:	160-517	psig
IBHP:	996	psig
FFP:	216-280	psig
FBHP:	994	psig
FHYD:	2541	psig

TEMP: 115 degrees F

Tester: Leal Cason: Trilobite Testing, LLC, Pratt Kansas District
NOTE: Conventional DST (dual packers, safety joint, electronic recorders)
NO jars
NO bottom sampler

Serial # 6798 Inside Vincent Oil Corporation 2-27 Sandy Land DST Test Number: 3



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DST 3 - Chart

DST 4) 5205 - 5220

(Mississippian)

Times: 30-60-60-120

1st open: strong blow OBOB in 90 seconds - NO GAS TO SURFACE
(weak surface blowback)

2nd open: strong blow OBOB immediately - GTS/27"

	time	orfice	PSIG	volume
**	27"			Gas to Surface
++	30"	1/4 inch	6.0	32.363 MCFGPD
	40"	1/4 inch	7.0	33.948 MCFGPD
	50"	1/4 inch	8.0	35.535 MCFGPD
	60"	1/4 inch	10.0	38.708 MCFGPD

(bled off - 10 min. - weak surface blowback)

++ - gas sample taken, delivered to Caraway Analytical Lab in Liberal, Kansas for analysis

** - flared gas at flowline - burned orange thru-out

Rec: 5075' Gas in Pipe

122' Gassy Watery Mud Cut Oil
(10% gas, 70% oil, 10% water, 10% mud)

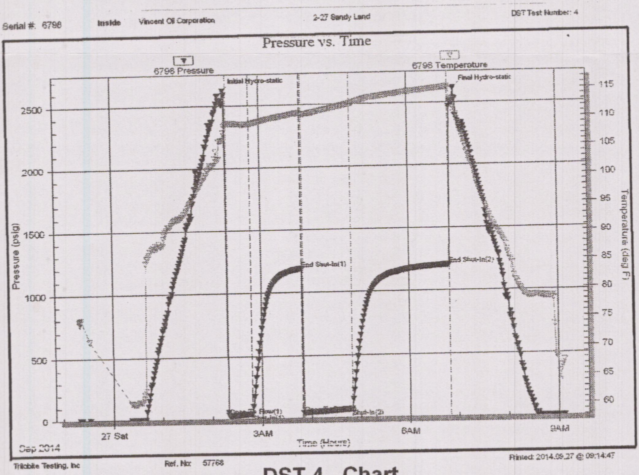
122' Total Fluid - ALL IN DRILL PIPE

(Alpine Recorders)

IHYD:	2618	psig
IFP:	31-38	psig
IBHP:	1186	psig
FFP:	38-69	psig
FBHP:	1201	psig
FHYD:	2610	psig

TEMP: 115 degrees F

Tester: Leal Cason: Trilobite Testing, LLC, Pratt Kansas District
NOTE: Conventional DST (dual packers, safety joint, electronic recorders)
NO jars
NO bottom sampler


Serial #: 6798 Inside Vincent Oil Corporation 2-27 Sandy Land DST Test Number: 4

Trilobite Testing, Inc Ref. No: 57768 Printed: 2014.09.27 @ 09:14:47

DST 4 - Chart

DST 5) 5220 - 5235

(Mississippian)

Times: 30-60-60-120

1st open: strong blow OBOB in 10 minutes - NO GAS TO SURFACE
(weak surface blowback)

2nd open: strong blow OBOB in 20 seconds - NO GAS TO SURFACE
(NO blowback)

Rec: 2600' Gas in Pipe

60' Muddy Oil Cut Water
(20% oil, 50% water, 30% mud)
60' Total Fluid - ALL IN DRILL PIPE

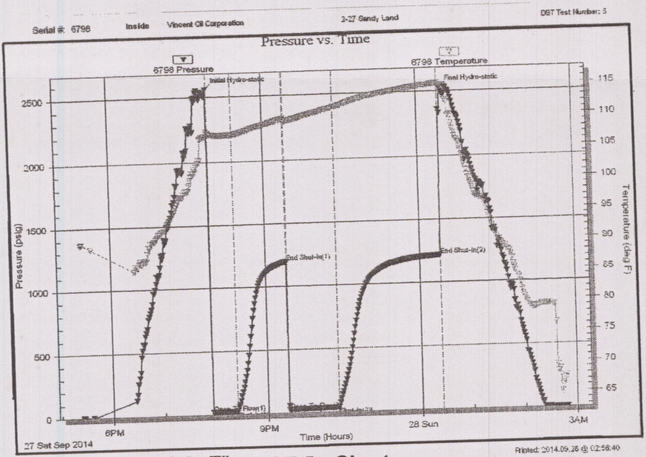
chlorides of mud system: 9,200 ppm
chlorides of formation water: 58,000 ppm
resistivity of formation water: 0.13 at 72 deg F

(Alpine Recorders)

IHYD: 2560 psig
IFP: 20-25 psig
IBHP: 1195 psig
FFP: 25-38 psig
FBHP: 1214 psig
FHYD: 2524 psig

TEMP: 115 degrees F

Tester: Leal Cason: Trilobite Testing, LLC, Pratt Kansas District
NOTE: Conventional DST (dual packers, safety joint, electronic recorders)
NO jars
NO bottom sampler



Trilobite Testing, Inc Ref. No: 57769

DST 5 - Chart