LeBlanc
Petroleum Geologist

GEOLOGICAL REPORT

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

API: 15-057-20924

COMPANY VINCENT OIL CORP. (5004)
LEASE HORNBACK 1-15
FIELD WILDCAT
LOCATION 900 FNL ; 1735 FWL
SECTION 15 TOWNSHIP 29S RANGE 24W
COUNTY FORD STATE KANSAS

ELEVATIONS

KB 2591 FEET
DF 2589 FEET
GL 2581 FEET
MEASUREMENTS ARE ALL FROM: KB

CASING

8 5/8" at 641'
4 1/2" AT 5358'

CONTRACTOR VAL DRLG RIG 2 (5822)
COMMENCED DRILLING SAT. APRIL 5, 2014
COMPLETED DRILLING TUES. APRIL 15, 2014
RTD 5360 FEET LTD 5359 FEET
MUD UP AT 3800± FEET MUD TYPE CHEMICAL

ELOG SUITES

CNCD/PE
Dual Induction
Microlog
Sonic

SAMPLES SAVED FROM 4250 FEET TO 5360 FEET
DRILLING TIME KEPT FROM 4200 FEET TO 5360 FEET
SAMPLES EXAMINED FROM 4250 FEET TO 5360 FEET
GEOLOGICAL SUPERVISION FROM 4695 FEET TO 5360 FEET

NOTES: MUD SYSTEM - MUD-CO, SURF CSG. CMT - QUALITY CMTG, GAS DETECTOR - MBC Logging; Leasing FUEL - Moeder oil, WATER - HAULED, Logging NABORS WL SVC, DSTS - TRILOBITE TSG

CORES - NONE

Formation Tops	Sample Tops	Corrected Sample Tops	Electric Log Tops	Subsea Datums
BASE SURFACE CASING	641		641	
HEEBNER SHALE	4370		4371	-1780
BRN LS	4501		4503	-1912
LANSING	4515		4513	-1922
STARK SHALE	4831		4839	-2248
HUSH SHALE	4895		4900	-2309
B/KC	4977		4983	-2392
PAWNEE	5078		5081	-2490
CHEROKEE SHALE	5130		5128	-2537
B/PENN	5234		5232	-2641
MISSISSIPPIAN UNC.	5255		5257	-2666
RTD, LTD	5360		5359	-2768

Reference Well: VOC FCLCC 1-16, 455 FNL ; 2055 FWL 16-29S-24W

Remarks: THE VINCENT OIL CORP HORNBACK 1-15 WAS DRILLED to an RTD OF 5360 FT in the mississippian. on the FAGER 3D PROSPECT. TWO DSTS were taken to evaluate significant shows and intervals. The VOC HORNBACK 1-15 RAN low to 3D interpretations. DST 2 WAS intended as a condenmation DST covering the MISS ST LOUIS. No sample shows or GAS increases were observed over the DST interval. A commercial GAS TEST ensued enabling 4½" PROP. CSG to be set for further evaluation Ken LeBlanc

Daily Penetration

7AM

Date	Depth
4-5-14	MIRT, RIGUP
	SPUD 5:45 PM
4-6-14	646' - set 8 5/8"
	at 641'
4-7-14	DRLG 1611'
4-8-14	DRLG 2612'
4-9-14	DRLG 3329'
4-10-14	DRLG 3990
4-11-14	DRLG 4555'
4-12-14	DRLG 4995'
4-13-14	DRLG 5223' DST 1
4-14-14	DRLG 5278' DST 2
"	RTD 6:49AM
	4-15-14
4-15-14	5360 CFS at
	RTD NABORS
	WL Svc Logging
	off Bottom at
	1048 And on
	location logging
	1:10pm, Finished
	Near 6pm.
	Decision made
	to Run 4½" prod
	csg

Bit Record

Number	Size	Make	Type	Depth Out	Feet	Hours
1	12¼	JZ	RR	646	646	5
2	7⅞	JZ	HA200	5240	4594	128
3	7⅞	JZ	HA259	5360	120	9½
	TOTAL	BIT HOURS	→		5360	142½

AVG PENETRATION RATE: 0-RTD 37.61 FPH

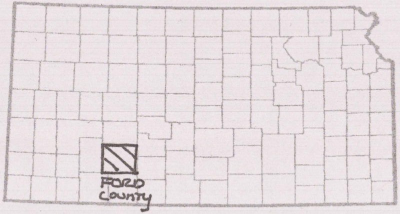
GENERAL INFORMATION

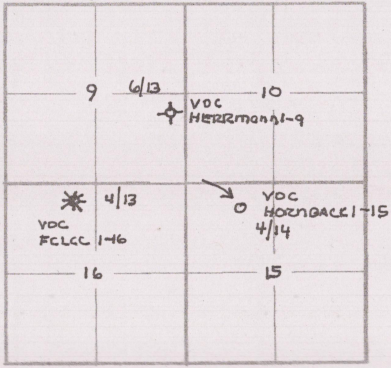
RAN 15 JTS 8⅝" - 23# surface casing, set at 641', CMTD w/125sx MDC +125sks Common (2% gel + 3% cc), PD at 9:15AM 4/6/14 BY QUALITY, CMT DID CIRC.

RIG TYPE: U-15, DOUBLE, STEEL PITS
Power: CAT C15 (2)
PUMP: NATL K500, Liners 6", STROKE 15"
Power: CAT 3408
DP: 4½" X14, WT 16.6#/FT, OD: 6⅛", ID: 2¼"
DC: 18-Length 555.25', OD: 6⅛", ID: 2¼"
RIG POWER: CAT (2) 3408

TOOL PUSHER: RICK SMITH

Kansas





SEC. 15-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

⊙ - CIRCULATE FOR SAMPLES
C - DRILL pipe connections

1654 - WT 10.0, VIS 28
WL NC, CHL 105K
LCM 0

2671 - WT 10.0, VIS 28
WL NC, CHL 105K
LCM 0

3344 - WT 9.3, VIS 29
WL NC, CHL 102K
LCM 0

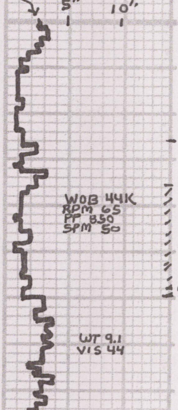
4031 - WT 8.9+, VIS 43
WL 8.8, CHL 6,200
LCM 0

DISPLACE mud system near 3800 FT

SHT AT 646' — 3/4°

MBC Logging i Leasing on LOCATION PRIOR to 4200 FT

BEGIN one (1) FOOT DRILL TIME AT 4200 FT



WOB 44K
RPM 65
PP 850
SPM 50

WT 9.1
VIS 44

4200

DRLG W/BIT 2 JZ
HAZOQ in at 646' SETS 3-14's

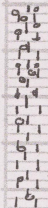
10u 20u 30u 40u 50u

—c

N.S.

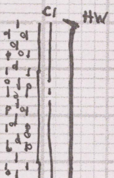
50

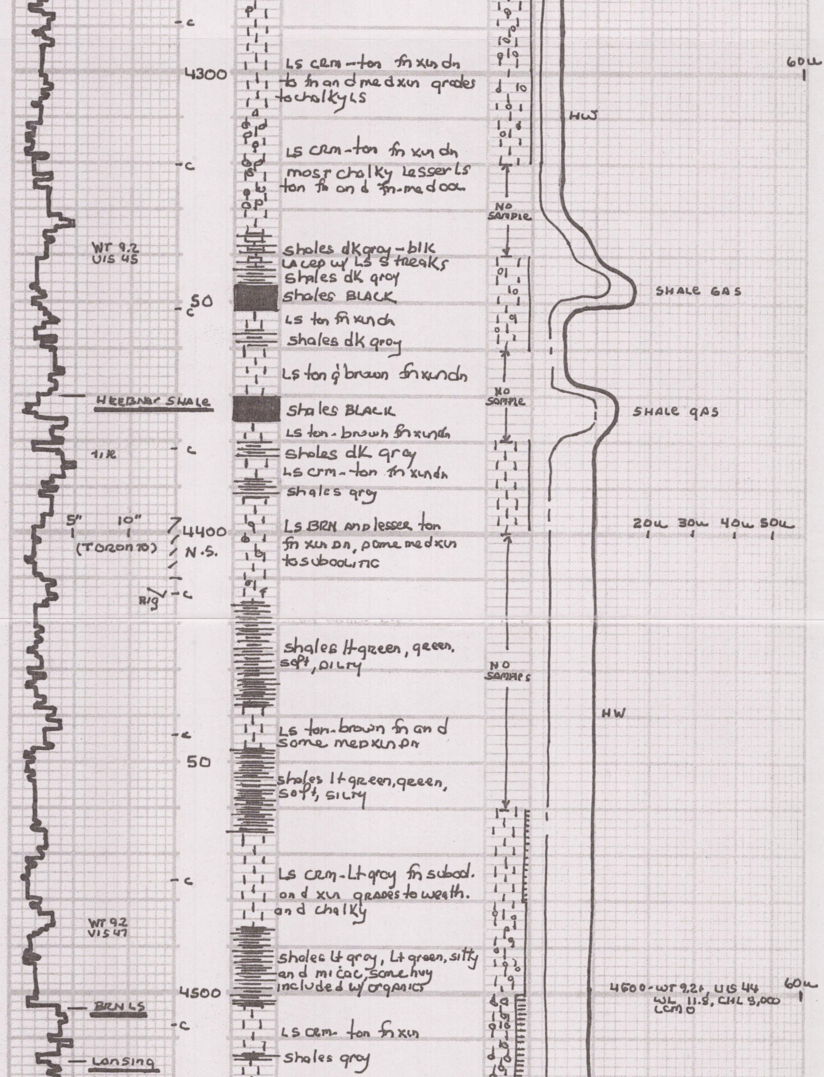
c

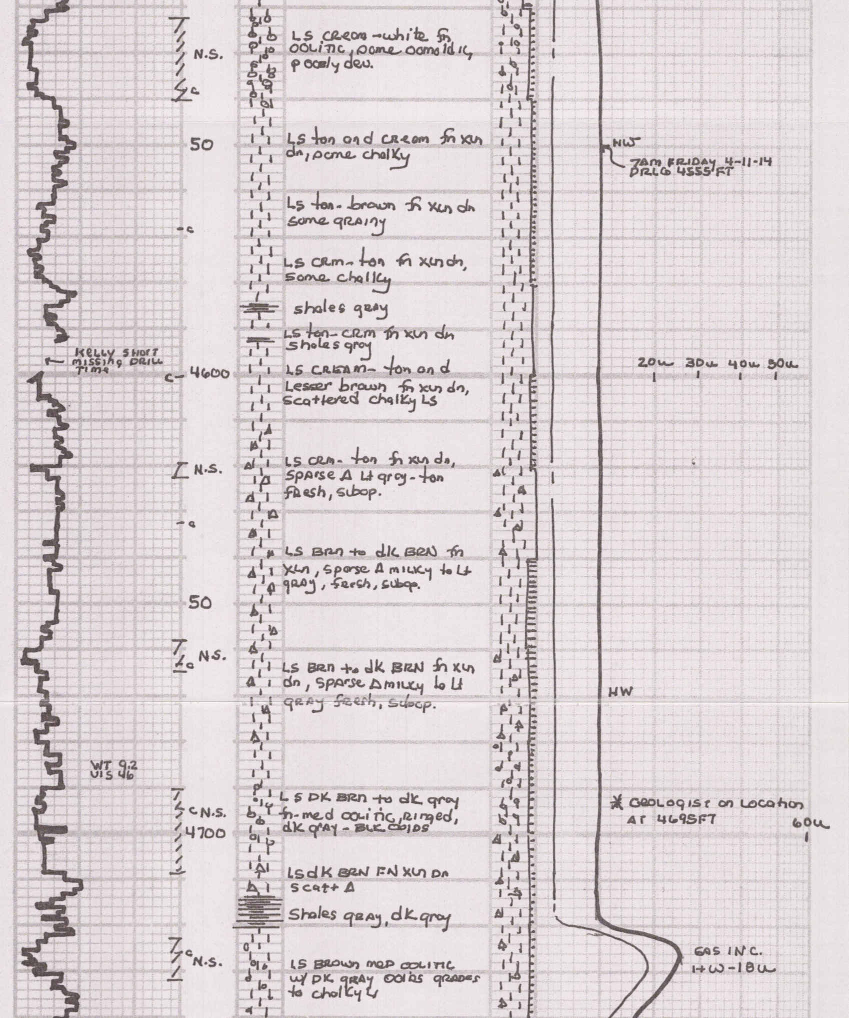


LS cream v fn - some fn-med OOLITIC, chalky, assoc. DK gray OOIDS, some chalk LACED

LS crm-tan fn-med subcolitic AND lesser OOLITIC chalk and chalky LS







LS cream-white fn oolitic, some oomoldic, poorly dev.

LS tan and cream fn xln dn, some chalky

7AM FRIDAY 4-11-14
DRLG 4555 FT

LS tan-brown fn xln dn some grainy

LS crm-tan fn xln dn, some chalky

shales gray

LS tan-crm fn xln dn
shales gray

Kelly short missing drill time

LS cream-tan and lesser brown fn xln dn, scattered chalky LS

LS crm-tan fn xln dn, sparse Δ lt gray-tan fresh, subop.

LS brn to dk brn fn xln, sparse Δ milky to lt gray, fresh, subop.

LS brn to dk brn fn xln dn, sparse Δ milky to lt gray fresh, subop.

WT 9.2
VIS 46

LS dk brn to dk gray fn-med oolitic, ringed, dk gray-blk ooids

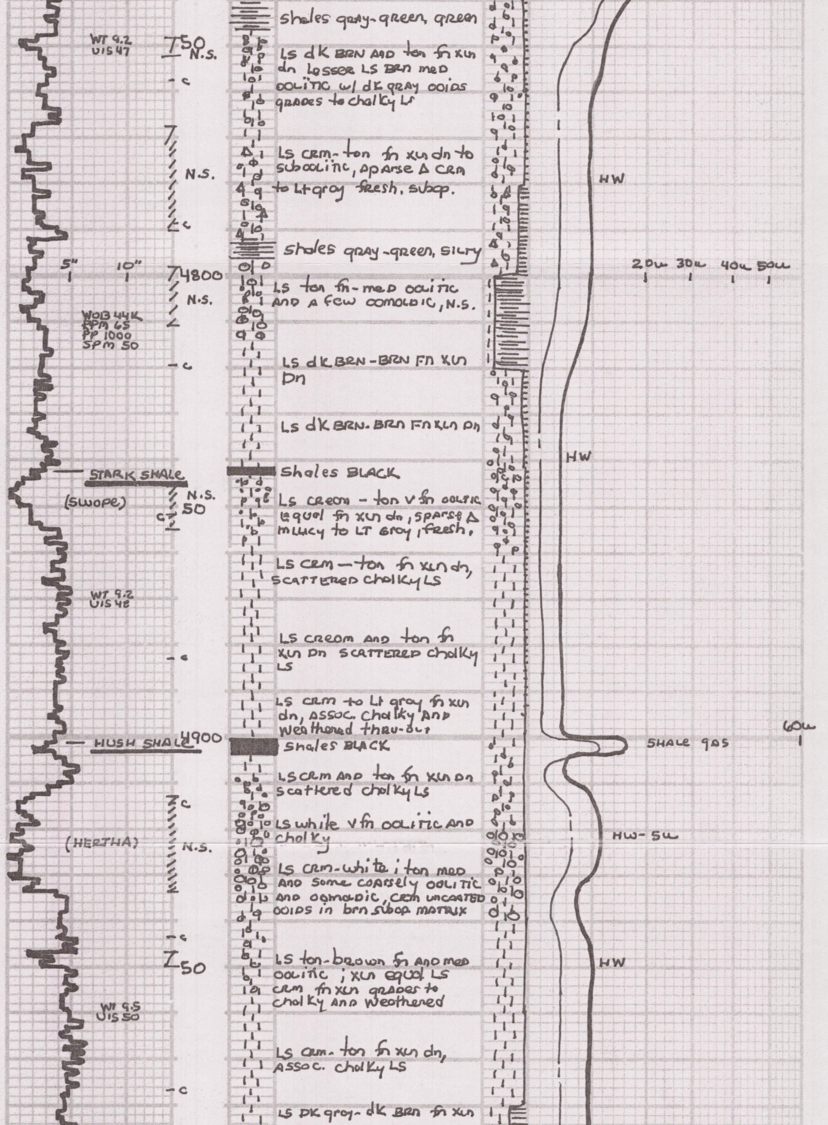
* Geologist on location at 4695FT

LS dk brn fn xln dn scatt Δ

Shales gray, dk gray

LS brown med oolitic w/ dk gray ooids grades to chalky LS

GAS INC.
1+u-18u



shales gray-green, green

LS dK BRN AND tan fn xln dn lesser LS BRN med oolitic w/ dK gray ooids grades to chalky LS

LS crm-tan fn xln dn to suboolitic, sparse Δ crm to Lt gray fresh, subop.

shales gray-green, silty

LS tan fn-med oolitic AND A few oomoldic, N.S.

LS dK BRN-BRN fn xln Dn

LS dK BRN-BRN fn xln Dn

Shales BLACK

LS cream - tan v fn oolitic & equal fn xln dn, sparse Δ milky to LT gray, fresh,

LS crm — tan fn xln dn, scattered chalky LS

LS cream AND tan fn xln Dn scattered chalky LS

LS crm to Lt gray fn xln dn, ASSOC. chalky AND weathered thru-out

Shales BLACK

LS crm AND tan fn xln dn scattered chalky LS

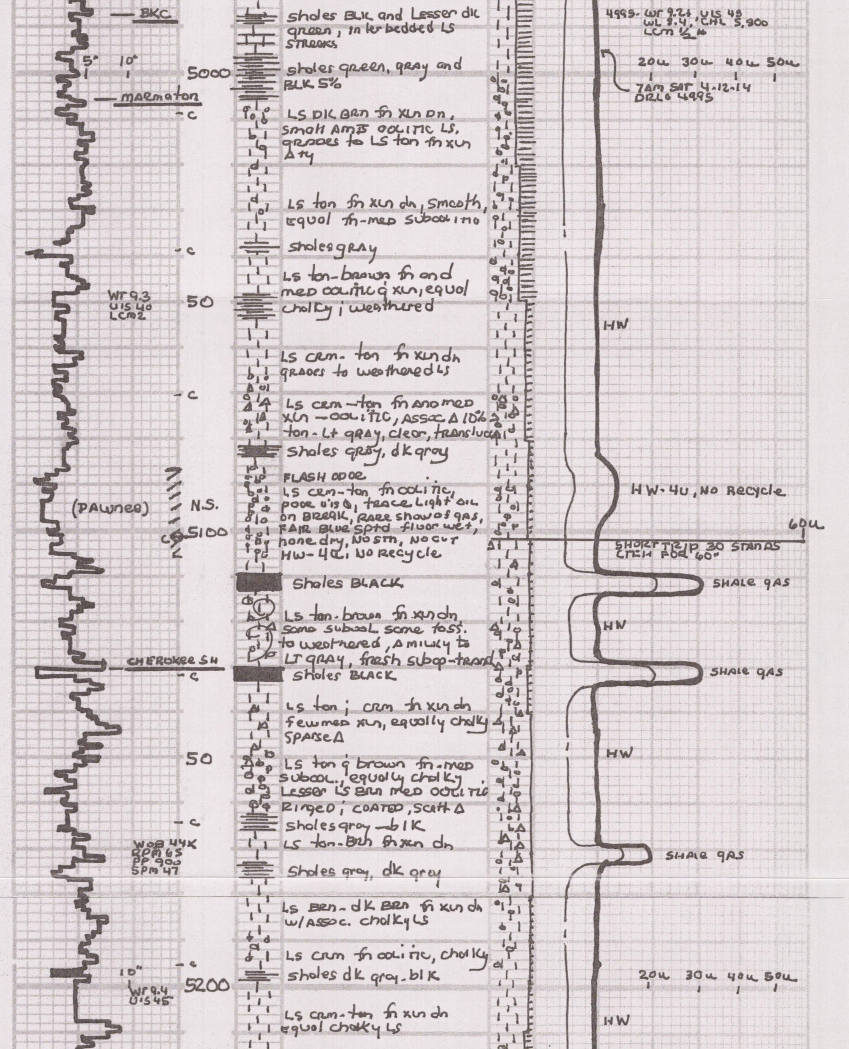
LS white v fn oolitic AND chalky

LS crm-white; tan med AND some coarsely oolitic AND oomoldic, crm uncoated ooids in brn subop matrix

LS tan-brown fn AND med oolitic; xln equal LS crm fn xln grades to chalky AND weathered

LS crm-tan fn xln dn, ASSOC. chalky LS

LS DK gray-dK BRN fn xln



shales BLK and Lesser dk green, interbedded LS STREAKS

shales green, gray and BLK 5%

LS DK BRN fn xln dn, small AMTS OOLITIC LS, grades to LS tan fn xln Δ ty

LS tan fn xln dn, smooth, equal fn-med subcolitic

shales gray

LS tan-brown fn and med oolitic ĝ xln, equal chalky ; weathered

LS crm- tan fn xln dn grades to weathered LS

LS crm-tan fn and med xln - OOLITIC, ASSOC. Δ 10% tan-Lt gray, clear, transluc.

Shales gray, dk gray

FLASH ODOR

LS crm-tan fn oolitic, poor vis Φ, trace Light oil on BREAK, RARE show of gas, FAIR Blue sptd fluor wet, none dry, NO STN, NO CUT

HW- 4u; NO Recycle

Shales BLACK

LS tan-brown fn xln dn some subool. some foss. to weathered, Δ milky to LT gray, fresh subop-trans Δ

Shales BLACK

LS tan ; crm fn xln dn few med xln, equally chalky SPARSE Δ

LS tan ĝ brown fn-med subool., equally chalky Lesser LS BRN MED OOLITIC Ringed ; COATED, Scatt Δ

shales gray -blK

LS tan-BRN fn xln dn

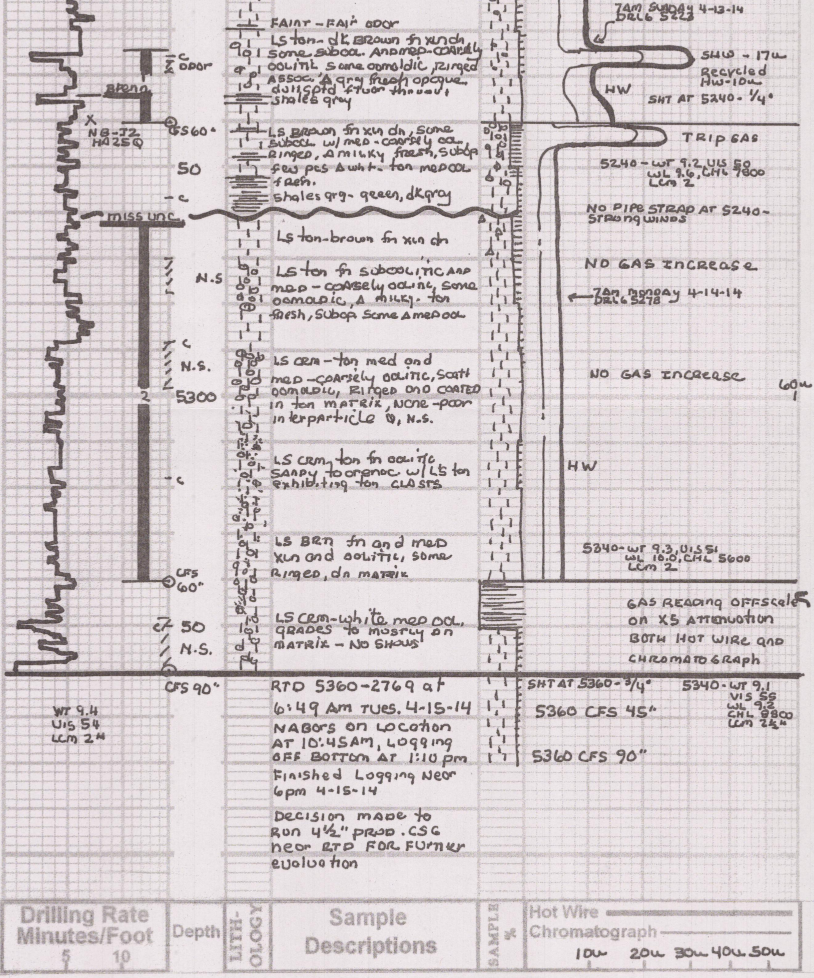
Shales gray, dk grey

LS BRN- dK BRN fn xln dn w/ASSOC. chalky LS

LS crm fn oolitic, chalky

shales dk gray- blK

LS crm- tan fn xln dn equal chalky LS



FAINT - FAIR ODOR

LS tan - dk. brown fn xln dn some subool. and med - coarsely oolitic some oomoldic, ringed assoc. Δ gray fresh opaque. dull spotd fluor thruout shales gray

LS brown fn xln dn, some subool. w/ med - coarsely ool. ringed, Δ milky fresh, subop few pcs Δ wht - tan med ool fresh.
shales grg - green, dk gray

LS tan - brown fn xln dn

LS tan fn subOOLITIC and med - coarsely oolitic, some oomoldic, Δ milky. tan fresh, subop. some Δ med ool

LS crm - tan med and med - coarsely oolitic, scatt oomoldic, ringed and coated in tan matrix, none - poor interparticle Φ, N.S.

LS crm, tan fn oolitic sandy to arenac. w/ LS tan exhibiting tan clasts

LS BRN fn and med xln and oolitic, some ringed, dn matrix

LS crm - white med ool. grades to mostly dn matrix - No shows

RTD 5360 - 2769 at 6:49 AM Tues. 4-15-14

NABORS on location at 10:45AM, logging off bottom at 1:10 pm

Finished logging near 6pm 4-15-14

Decision made to run 4½" prod. CSG near RTD for further evaluation

WT 9.4
VIS 54
LCM 2#

7AM SUNDAY 4-13-14
DRLG 5223

SHW - 17u
Recycled HW - 10u

SHT AT 5240 - ¼°

TRIP GAS

5240 - WT 9.2 VIS 50
WL 9.6, CHL 7800
LCM 2

NO PIPE STRAP AT 5240 - STRONG WINDS

NO GAS INCREASE

7AM MONDAY 4-14-14
DRLG 5278

NO GAS INCREASE

5340 - WT 9.3, VIS 51
WL 10.0, CHL 5600
LCM 2

GAS READING OFFSCALE on X5 ATTENUATION BOTH HOT WIRE and CHROMATOGRAPH

SHT AT 5360 - ¾°

5360 CFS 45"

5360 CFS 90"

5340 - WT 9.1
VIS 55
WL 9.2
CHL 8800
LCM 2½#

DST 1) 5224 - 5240

(B/Penn - Inola)

Times: 30-30-30-30

1st open: weak surface blow - NO GAS TO SURFACE
(NO blowback)

2nd open: weak surface blow - NO GAS TO SURFACE
(NO blowback)

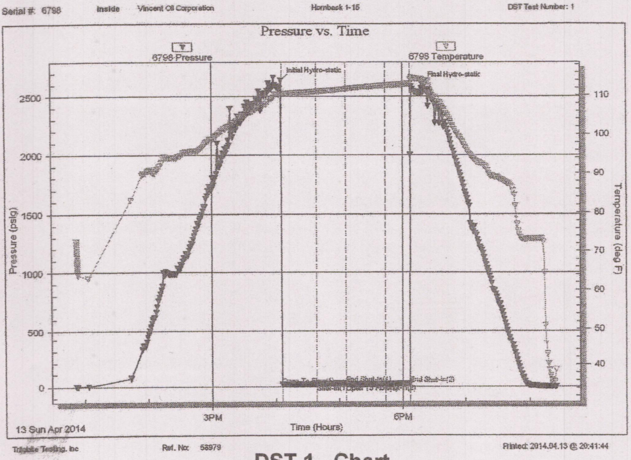
Rec: NO Gas In Pipe
2' Mud (100% Mud)
2' - Total Fluid - ALL in Drill Pipe

(electronic recorders)

IHYD:	2634	psig
IFP:	17-18	psig
IBHP:	28	psig
FFP:	18-19	psig
FBHP:	231	psig
FHYD:	2605	psig

TEMP: 114 degrees F

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



DST 1 - Chart

DST 2) 5260 - 5340

(Mississippian)

Times: 45-90-60-120

1st open: strong blow OBOB in 30 seconds, GTS/17"

time orfice PSIG volume

17"	3/8 inch		Gas to Surface
20"	3/8 inch	20.0	126.015 MCFG
30"	3/8 inch	22.0	133.342 MCFG
40"	3/8 inch	22.0	133.342 MCFG
45"	3/8 inch	22.0	133.342 MCFG

2nd open: gauging gas

time	orfice	PSIG	volume
10"	3/8 inch	20.0	126.015 MCFG
20"	3/8 inch	28.0	155.321 MCFG
30"	3/8 inch	31.0	166.311 MCFG
40"	3/8 inch	31.0	166.311 MCFG
50"	3/8 inch	31.0	166.311 MCFG
60"	3/8 inch	32.0	169.974 MCFG

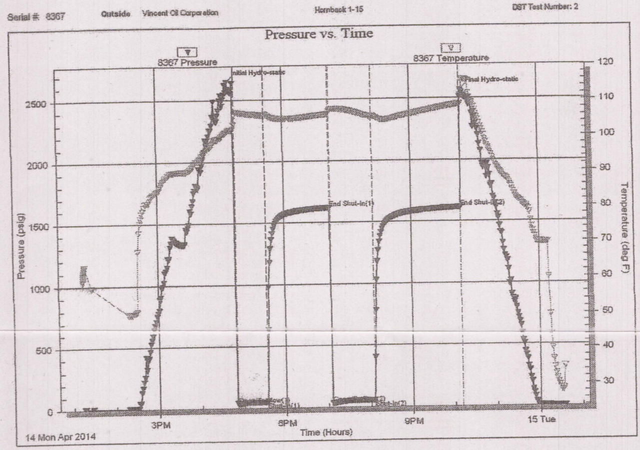
Rec: 5230' Gas in Pipe
20' Gas Cut Mud (5% gas, 95% mud)
20' Total Fluid - ALL in DRILL PIPE

(Alpine Recorders)

IHYD: 2467 psig
IFP: 37-50 psig
IBHP: 1618 psig
FFP: 36-56 psig
FBHP: 1612 psig
FHYD: 2563 psig

TEMP: 108 degrees

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



DST 2 - Chart