

# ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

## GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY VESS OIL CORPORATION  
 LEASE WILSON 'A' #449  
 FIELD EL DORADO  
 LOCATION 950' FNL & 1265' FWL (NE-SE-NW-NW/4)  
 SECTION 9 TOWNSHIP 25S RANGE 5E  
 COUNTY BUTLER STATE KANSAS

ELEVATIONS  
 KB 1369' GL 1363'  
 Measurements Are All  
 From KB:1369'  
 API 15-015-24001-00-00

CONTRACTOR C&G Drilling, Rig # 1  
 SPUD 10/28/2013 COMP 11/03/2013  
 RTD 2443' (-1074) LTD 2443' (-1074)  
 ELECTRICAL SURVEYS  
Pioneer Energy Services: DIL,  
CNL/CDL, MEL

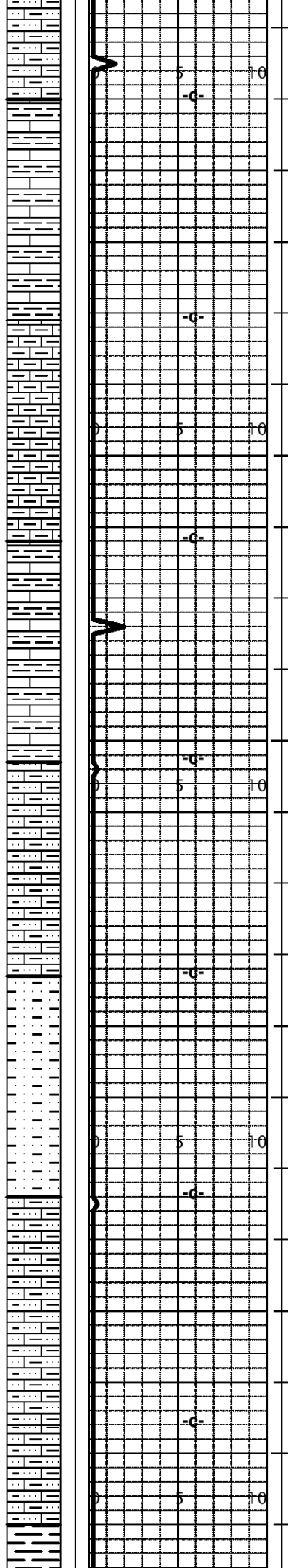
CASING  
 SURFACE 6 jts 8-5/8" 23#/ft  
set @ 261' KB w/150 sx Class A  
 PRODUCTION 56 jts 5-1/2" 15.5#/ft  
set @ 2442' w/125 sx Thickset

FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
Admire 550'	NP	NP	10/28/2013- MIRU C&G Drilling, Rig #1. Drill rathole @ 1 PM. SPUD 12-1/4" hole @ 2:30 PM.
Admire 650'	NP	NP	TD 12-1/4" hole @ 262'. Run 6 jts 8-5/8" 23#/ft
Burlingame	825' (+544)	825' (+544)	csg= 253'; Set @ 261' KB; Consolidated Cement
White Cloud Lm	916' (+453)	900' (+469)	w/150 sx Class A. 3% cc. circ. good cement. Plug
White Cloud Sd	929' (+440)	913' (+456)	down @ 3:00 AM 10/29/2013.
Topeka	1078' (+291)		10/29/2013- WOC, Drill out @ 11:00 AM.
Oread	1384' (-15)	1382' (-13)	Drilling w/PDC bit.
Heebner	1422' (-53)	1420' (-51)	10/30/2013- Drlg @ 1955'. Mudded up @ 1500'.
Douglas	1450' (-81)	1447' (-78)	MW 9.2, Vis 36. LCM 3#. Bit trip @ 2079'.
Douglas Sd	1504' (-135)		10/31/2013- DTD 2079'. Rig repair- mud pump
Lansing	1693' (-324)	1691' (-322)	clutch has bearings out.
B/Lansing	1840' (-471)	1840' (-471)	11/01/2013- Drlg @ 2250'. MW 9.3, VIS 40,
Kansas City	1978' (-609)	1977' (-608)	LCM 3#. Short trip after Ardmore.
Stark	2079' (-710)	2076' (-707)	11/02/2013- Circ @ 2438'. MW 9.3, VIS 49,
B/Kansas City	2134' (-765)	2134' (-765)	LCM 2.5#. Run open hole logs
Checkerboard	2213' (-844)	2213' (-844)	11/03/2013- RTD 2443'. Finish logs.
Hepler Sd	NP	NP	7:30 AM- Start casing job.
Altamont	2258' (-889)	2257' (-888)	
Pawnee	2295' (-926)		Ran 5-1/2" casing to 1' above TD.
Cherokee	2336' (-967)	2337' (-968)	Casing tally matches RTD. CASING JOB: Ran 56
Ardmore	2395' (-1026)	2394' (-1025)	jts of 5-1/2" 15.5#, J-55 LT&C Csg, Tally= 2446.17'
Viola	2441' (-1072)	2441' (-1072)	plus float shoe = 1.00'. Total = 2447.17', tagged TD
RTD/LTD	2443' (-1074)	2443' (-1074)	@ 2443', set @ 2442'. Put on 5 centralizers & 1
			basket. Consolidated Services pump 500 gal mud
			flush. Cemented w/125 sx Thickset cement. Caught
			pressure @ 30 bbl. Good circ of mud. Lift pressure
			to 700#. Rotated casing. Land plug @ 1200# @
			10:30 AM 11/03/2013. Release. It held. Set slips
			& cut off casing.

REMARKS: \*\* E-log tops by P. Ramondetta, Geologist, VOC

LITH      POROSITY      DRILLING TIME      DST      SAMPLE DESCRIPTION      REMARKS  
 MIN/FT

		<p>-400</p> <p>436' Spl} Pred SH: lt-dk-gy, &amp; gn-gy; Rare(Rr) chlky to dn LS; Trc oomldc LS:microXln(mx)-VfnXln, Fr-Gd Poro; NS.</p> <p>467' Spl} SH: AA; sm wh-chlky to dn LS; NS.</p> <p>-450</p> <p>498' Spl} ~50% LS: tn-gy, prt dn-mx-fnX; sm pr-Fr fos-mold Poro w/ NS; sm arigl-shly; ~50% SH.</p> <p>-500</p> <p>529' Spl} LS: tn, lt-dk-gy, dn &amp; mx-VfnX, sm argil, sm fos: AA; pred pr Poro- NVP; NS; &amp; SH: pred gy-bk, sm pyrtc.</p> <p>560' Spl} LS: cm-gy, tn-bn, sm dn &amp; argil; &amp; mx-VfnX, sm dolomc; pred pr Poro-NVP w/ NS; &amp; SH:AA; &amp; SILTS: lt-gy, micac, Sndy:Vfn Gr'd, sm calc.</p>	<p>SHS @ 498' = 1/4 deg</p>
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-550

591' Spl} Pred SH: gy-bk, Rare(Rr) carb; sm calc & Lmy SH & SILTS; & LS: pred dn & argil, sm pyrtc; NVP; NS.

-600

622' Spl} sharp incrs LS: tn-gy-wh, mx-fnX, sm ool & fos Pkst; pred pr Poro- NVP; NS; sm argil-shly & silty LS w/ NS; & SH: AA, & V.gated.

-650

653' Spl} sharp incrs SH: lt-dk-gy, & bk, sm pyrtc, Rr bk carb SH.

-700

683' Spl} Pred LS: dk-lt-gy & tn, sm mot- Pkst, argil- silty & shly, sm Sndy; Vfn Gr'd; pred Vpr-NVP; NS.

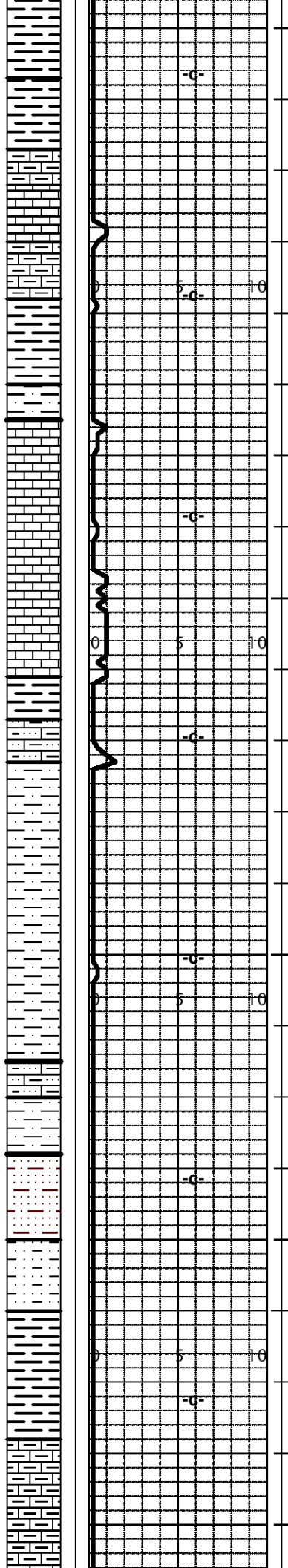
-750

714' Spl} SILTS: lt-dk-gy, Sndy: Vfn-fn Gr'd, micac, shly, sl calc; & Silty SS: Sd Clusters: lt-dk-gy, Vfn-fn Gr'd, silty, shly, micac, sm pyrtc; Vpr-pr Poro w/ NFO; NF; NC; NS; NO.

746' Spl} LS: gy, Sndy, silty, argil, w/ Vpr-NVP; NS; & SILTS: lt-md-gy, Sndy, calc, micac; NS; & SH: gy-bk.

777' Spl} SILTS:AA & LS: gy, argil, sm silty & Sndy, w/ Vpr Poro- NVP; NS; & SH: gy-bk; sm carb. LS: gy, argil, dn; NVP; NS.

808' Spl} Abndt SH: gy-bk. (sm dn & argil LS, & SILTS & SS: AA).



839' Spl}: LS: tn-gy-wh, pred dn- cryptoXln-fnX; prt Lithogr; Trc MdX-CrsX w/ Vpr-NVP; NS;

870' Spl} {Burlingame} {Abndt} LS: tn-gy-wh, sm mot-Pkst- fos, & Wkst, & mx-fnX; sm pr-Fr Poro w/ NS; pred dn- Vpr-NVP; NS; V.rare(Vrr) 2nd ReX; Vrr chlky; NS.

901' Spl} Sharp incrs in SH: dk-lt-gy, & bk; & SILTS: gn-gy, sm Sndy; sm calc & Lmy; sm argil LS.

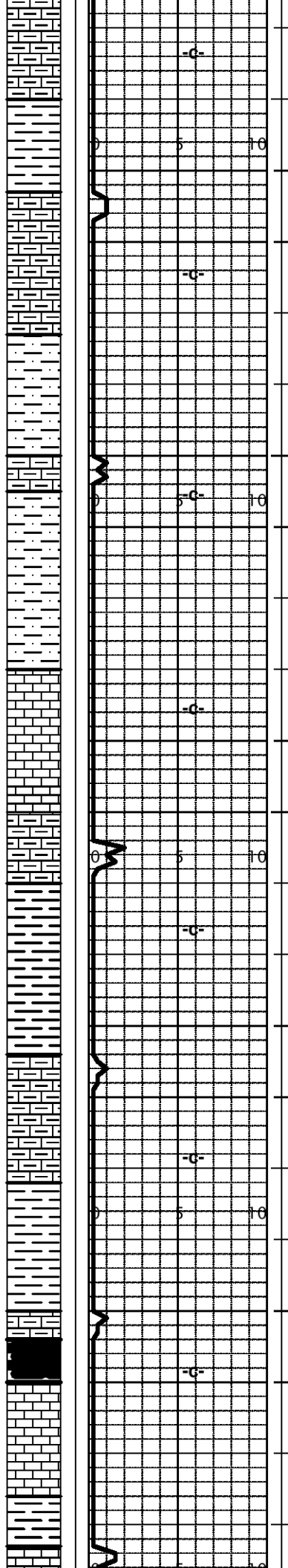
933' Spl} {Wh Cloud LS} LS: gy-tn, sm mot- Pkst, sm Sndy, sm argil- silty; Vpr-NVP; & SILTS- SH: AA.

933' & 963' Spl} {Wh Cloud SS} Very rare(Vrr)(~5%) Sd Clusters: gy w/ tn-O.STN; pred Vfn Gr'd & silty w/ pr-Fr Poro: I.Gr.Poro w/ subsat to sat.STN & brt FLR, & Sl-Fr SFO & Gas Bubles(GB), & Sl-Fr Cut; Trc Vfn-fn Gr'd fribl Sd Clust w/ Gd I.Gr.Poro w/ sat.O.STN & FLR, & Fr SFO&GB, & Fr-Gd Cut, Vsl Odor. Pred SH & SILTS: sm micac, sm pyrct (incrs SH & SILTS; & decrs Sd Clust in 963' Drlg & 15min.circ. Spl).

994' Spl} Abndt SH: pred lt-dk-gy;

& ~30% LS: cm-gy-bf, dn & argil Mdst; Rr chlky; Vpr-NVP; NS.

<b>825' (+544) BURLINGAME</b>	
<b>900' (+469) WHITE CLOUD LM</b>	
<b>913' (+456) WHITE CLOUD SD</b>	



-1000  
-1050  
-1100  
-1150  
-1200

1025' Spl} Abndt SH: gy-bk;  
& sm LS: dk-lt-gy, & wh, sm mot- Pkst, sm argil- dn; Rr prt chlky; pred Vpr-NVP; NS.  
1056' Spl} LS: gy-tn, dn-mx- Lithogr & Mdst, w/ Vpr-NVP; NS; (50% SH: AA)

Rr dn & argil LS.  
1085' Spl} Pred SILTST & SH: dk-lt-gy, micac, sm tite.

1117' Spl} V.Abndt LS:cm-bf, & wh, Wkst- Pkst, sm chlky; sm argil; Vpr-pr visbl Poro w/ NS.

LS: dk-lt gy & tn, dn-mX- fnX, sm argil, VPr- NVP, NS.  
1149' Spl} SH: gy, sm calc & lmy & SILTS: sm blk carb-Vcarb SH.

1179' Spl} LS:gy-bn-tn, dn, mX-fnX, VSI fos, sm argil, VPr- NVP w/NS. & SH: gy-blk.

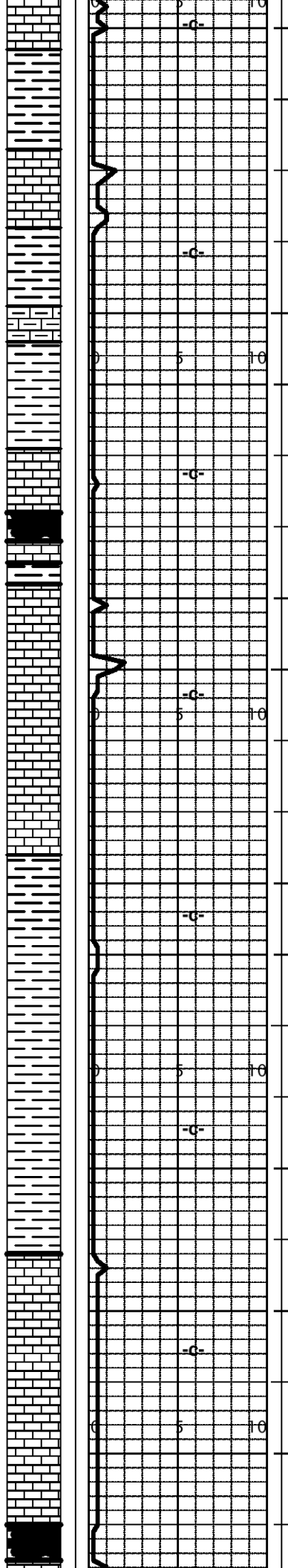
1210' Spl} SH: gy-blk, sm blk carb.

LS: cm-tn, mX-fnXln, VRr MdX's- 2nd ReX, sm SI fos, VPr- Pr visbl Por: IX Por, >99% barren, Trc FLR- Trc SFO.

1242' Spl} SH- SILTS: gy, sm micac.  
LS: gy-tn-wh, Pred dn, sm argil, Rr chlky, Rr fos Pkst, Pr-

SHS @ 1025'= 1/2 deg

{Trc SFO}



NVP, NFO.

1273' Spl} LS: gy-tn-wh, Pred dn, sm argil, Rr chlky, Rr fos Pkst, Pr- NVP, NFO.

SH-SILTS: gy, sm calc & lmy.

-1250

1304' Spl} SH: gy, sm calc & lmy.

LS: wh-bf-gy, dn & chlky, VPr- NVP, NS.

1335' Spl} SH: blk carb.

LS: wh-tn-gy, dn to chlky & mX- fnX, VRr prt MdX, Pr- NVP w/ NFO.

-1300

1365' Spl} sm LS: cm-tn, mX- fnXln w/Pred Pr visbl Por w/NS.

SILTS: lt-md gy, sm calc & sndy & SD CLUST: lt gy, Vfn Gr'd w/Pr visbl Por w/NS.

SH-SILTS: gy, micac.

-1350

1396' Spl} {OREAD} LS: cm-bf-tn, mX-MdX, sm 2nd ReX, sm grnlr Pkst w/Pr-Fr Por, >5%<10% w/subsat FLR & SI SFO, spt'd- subsat lt Tn STN & VSI-SI Cut; VRr Gd Por: I Gr & IX w/sat STN- FLR & SI SFO, SI Odor.

**1382' (-13)  
OREAD  
{SI SFO}**

1427' Spl} LS: bf-tn-wh, mX- MdX, grnlr & Xln w/Pr- Fr visbl IGr & IX Por; <5% w/FLR & SFO, AA & subsat-sat lt STN & SI Odor, Pred barren, sm chlky w/Pr- NVP, VSI Cherty.

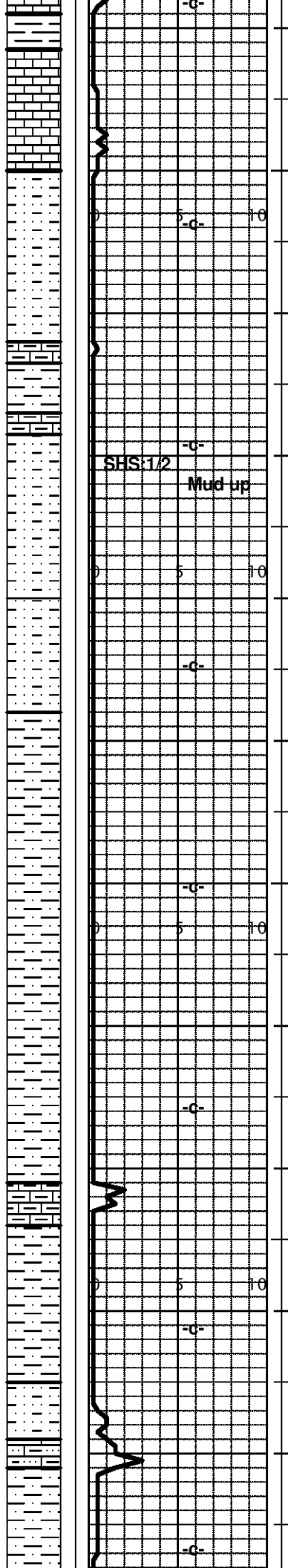
-1400

**{VSI SFO}**

1458' Spl} {HEEBNER} SH: blk subcarb- Vcarb.

**1420' (-51)  
HEEBNER**

LS: gy-sub chlky, dn & chlky & LS: AA



LS: gy-wh, chky- dn & shly, & LS: AA.

1489' Spl} SH- SILTS: AA.  
 LS: tn-gy-wh, sm mot, mX- MdX- 2nd ReX, sm grnlr, prt chky, Sl fos, VPr- Pr Por: lGr Por, lX Por, <5% w/FLR-STN-SFO-CUT, Pred barren.

{VSI SFO}  
 1447' (-78)  
 DOUGLAS

-1450

1520' Spl} SH- SILTS: Incrs dk-lt gy, micac, sm sndy, VRr SD CLUST: gy, Vfn- fn Gr'd, silty, micac, VPr- Pr Por w/NS.

1551' Spl} LS: gy-tn, dn, cryptoX- VfnX, sm argil-shly mdst, VPr- NVP w/NS.

Pred SH & SILTS, VRr SD CLUST: gy-wh, Vfn Gr'd, silty w/VPr- Pr visbl Por, NS.

SHS: 1/2  
 Mud up

-1500

SHS @ 1498' = 1/2 deg

1582' Spl} SILTS: lt-dk gy, sndy, micac & Silty SS: lt-dk gy, Vfn-fn Gr'd, md'd- subanglr, sm fribl, micac, sm Fr- Gd Por w/ NS. Pred well cmt'd w/VPr- Pr Por & NS.

SILTS-SH: gy-blk, sm sndy & micac.

-1550

1613' Spl} sm SD CLUST: AA w/NS; sm SILTS: lt- dk gy, sndy, micac. Abndt SH: gy-blk.

-1600

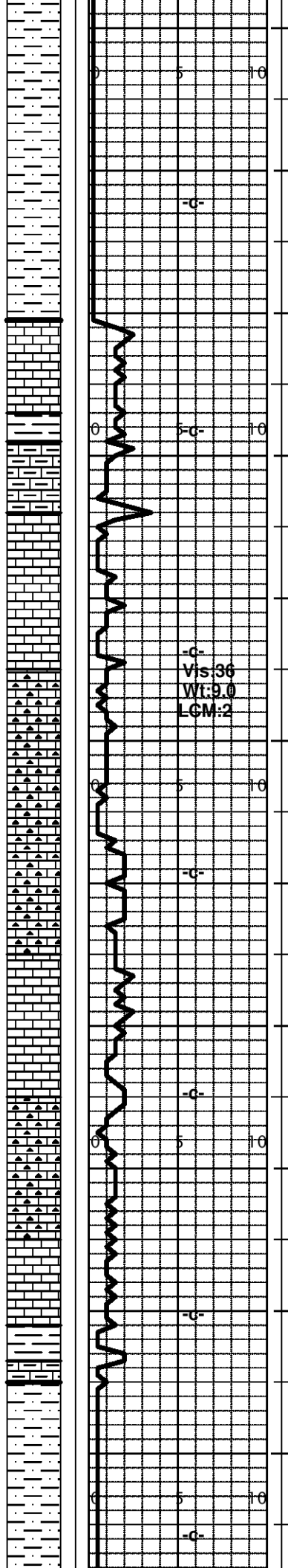
1644' Spl} sm LS: cm-gy-tn, sm mot Pkst, sm mX-fnX, prt argil & shly, VPr- NVP, NS.

SILTS: lt-dk gy, micac, sm sndy, sm pyrct.

1675' Spl} VRr SS- SD CLUST: lt-dk gy, Vfn-fn Gr'd, anglr- rnd'd Gr's, well cmt'd, calc & lmy.

LS: cm-gy, sm sndy, argil, VPr- NVP w/NS.

SILTS- SH: lt-dk gy.



-1650 1707' Spl} Pred SILTS & SH: AA.  
sm LS: tn-gy-wh, Pred dn, mX- fnX, SI fos, VPr- NVP, NS.

{LANSING} LS: wh-tn, pred dn- mX- fnX, VPr- NVP, prt chlky.

-1700 1738' Spl} LS: wh-tn-gy, mX- fnX, Rr prt MdX, sm Pkst, fos & ool, prt chlky, VPr- Pr Por, VRr Fr vug & IX Por; <5% w/lt STN, ~1% w/FLR & Trc SFO & Odor.

1769' Spl} LS: wh-tn-gy, mX- fnXln, Rr prt MdXln- 2nd ReX, Trc crsX's, Rr Fr- Gd IX & vug Por w/lt tn STN; >5% <10% w/subsat FLR & SI SFO & Cut, Frly Strng Odor.

-1750 1800' Spl} LS: wh-bf-tn, sm mot Pkst, mX- Rr prt MdXln- VRr crsX's- 2nd ReX, sm Fr- Gd Por: vug, IX & mldc Por; ~30% w/spt'd- sat FLR & SI- Fr SFO, Frly Strng odor, subsat- sat lt Tn STN & SI- Fr mlky Cut. SI Cherty: opq, fos.

1831' Spl} LS: gy-tn-wh, Pred dn- mX w/VPr- NVP, >99% w/NS. (Trc AA w/FLR- SFO) sm chlky LS.

-1800 1862' Spl} LS: wh-tn-gy, prt chlky, prt dn, mX- fnX, Pred VPr- NVP w/NS. SI Cherty.

1893' Spl} LS: gy-tn, dn- mX- fnX, VPr- NVP & NS. sm argil- shly.

SH: dk gy, sm calc & lmy.

1924' Spl} Pred SH- SILTS: gy, sm calc & lmy. (sm LS: AA)

-1850

**1691' (-322)  
LANSING**

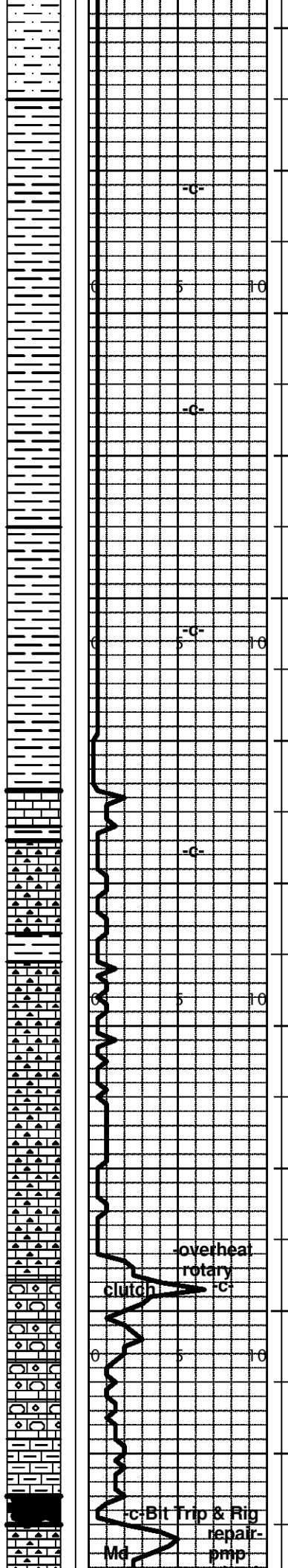
{Trc SFO}

{SI SFO}

{SI-Fr SFO}

**1840' (-471)  
B/LANSING**





1955' Spl} SH: lt-dk gy, sm calc & lmy, sm micac & SI pyrtc.

-1900

1986' & 2017' Spl} {B/LANSING} SH: dk-lt gy, sm calc & lmy & SI micac.

-1950

2017' Spl} {KANSAS CITY} sm LS: wh-gy-tn, mX- fnX, sm ool & fos Pkst, VRr Md- VCrsX's, SI Cherty, Rr Pr- Fr IX Por; ~5% w/spt'd- subsat FLR, VSISFO- Por- mFrc & Edg's, SI Odor.

**1977' (-608)  
KANSAS CITY  
{VSI SFO}**

-2000

2048' Spl} LS: wh-gy-tn, mx- Rr prt MdXln, VRr crs- VcrsX's, Pr- Fr pp & IGr Por; Cherty: wh-gy-tn, opq, shrp, VPr- Pr IX Por; >5% <10% w/spt'd- subsat FLR w/VSI- SI SFO & SI Ocor, Lt STN, VSI- SI Cut. Pred chlky & Pr- NVP & barren, Rr Pr- Fr barren Por, VRr STN, <5% w/FLR & VSI SFO & Cut.

{VSI SFO}

{VSI SFO}

-2050

2079' Spl} LS: gy-tn-wh, Pred dn to chlky, sm fos & ool Pkst, VPr- Pr IGr & IX Por, VRr prt MdXln; <5% w/spt'd- subsat FLR & VSI SFO & Cut, VSI Odor- Por- mFrac & Edgs.

{VSI SFO}

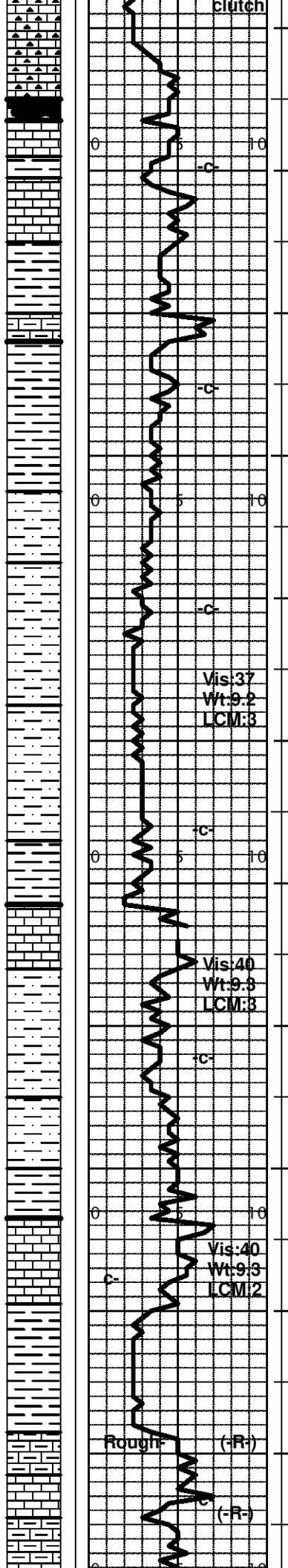
**MUD CHECKS  
by FUD MUD:  
WT 9.25, VIS 36  
PV 4, YP 8  
WL 12.0, pH 8.5  
CI 1400, LCM 2#**

15 min Circ Spl} LS: AA & gy, argil.

{STARK} SH: blk carb- Vcarb.

**2076' (-707)  
STARK  
SHS @ 2079' = 1/2 deg**

2100' Spl} LS: wh-gy-tn, mX- fnXln, VRr ool & fos, Trc oomldc w/STN, Trc Fr- Gd Por, SI Cherty; ~1% w/FLR &



Trc SFO & SI Odor. Prt chlly, Pred dn, SI Cherty.

-2100  
 2120' Spl} {HUSHPUCKNEY} SH: blk subcarb- Vcarb.  
 LS: gy-tn-wh, Pred dn, sm chlky, Trc Pr Por w/STN- SFO, AA.  
 SH: gy-blk.  
 LS: gy-tn-wh, mX- VfnXln, VPr- NVP w/NS.  
 2140' Spl} SH: gy-blk.  
 LS: gy, dn- argil.  
 2160' Spl} {BASE KANSAS CITY} SH: gy-blk, pyrtc, sm carb.

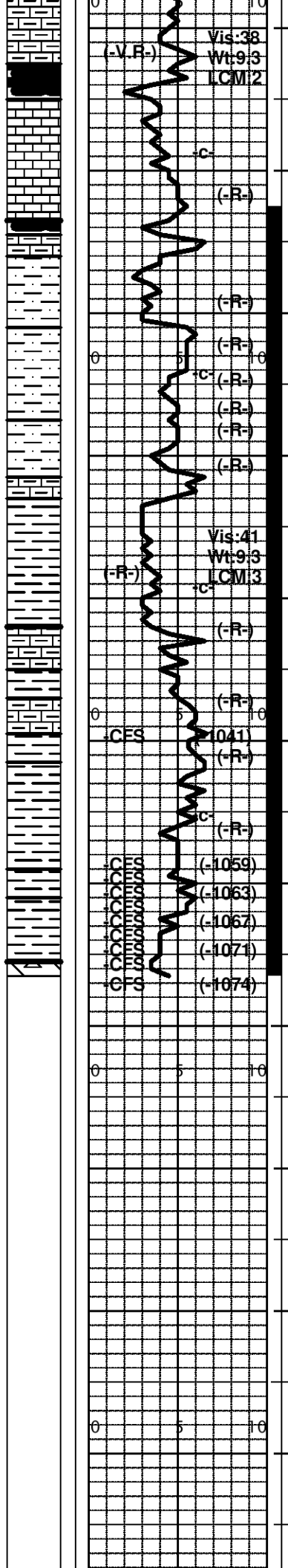
-2150  
 2180' Spl} SH & SILTS: gy, sm calc & lmy & sndy, sm pyrtc.  
 2200' Spl} SILTS- SH: gy, sm calc, micac.  
 2210' Spl} SILTS: AA & SH: gy-blk, sm carb.

-2200  
 2220' Spl} Shrp Incrs SH: gy-blk, sm carb- Vcarb.  
 2230' Spl} {CHECKERBOARD} LS: gy-tn-wh, mot Pkst, mX- MdX, VRr crs- VcrsX's, Pr- NVP w/NS.  
 2240' Spl} (sm LS, AA) Incrs SH & SILTS: gy-blk & gn-gy.  
 2250' Spl} SH- SILTS: lt-dk gy & gn-gy, sm sndy & calc, sm mrn-rd SH.

-2250  
 2260' Spl} SH: AA, gy & gn-gy & mrn.  
 2270' Spl} {ALTAMONT} Abndt LS: tn-gy-wh, Pred dn, Rr Pkst, Rr chlky, VPr- NVP, NS.  
 2280' & 2290' Spl} SH: blk car & gy & blk. & sm dn & argil LS- Mdst.  
 LS: gy, argil- shly- dn.  
 LS: gy-tn-wh, dn- mX- fnXln, sm fos Pkst, VPr- NVP w/NS.  
 LS: tn-gy-wh, Pred dn, sm argil w/VPr- NVP, NS. & SH: gy-blk & gn-gy.

-2300

	{Trc SFO}	
	2134' (-765) B/KANSAS CITY	
	10' SAMPLES	
	2213' (-844) CHECKERBOARD	
	2257' (-888) ALTAMONT	WT 9.3, VIS 39 PV 4, YP 11 WL 11.8, pH 9.5 CI 1200, LCM 2#



LS: tn-gy-wh, Pred dn, Rr chlky, Rr Pkst, VPr- NVP, NS.

SH: blk carb- Vcarb & dk gy, pyrct.

{CHEROKEE} (PJR) SH: blk carb & LS: gy-tn, dn Mdst.

SH- SILTS: lt-dk gy & gn-gy & mrn.

SILTS: gy, micac. & SH: gy-blk, sm carb.

SH- SILTS: dk-lt gy & blk, micac.

LS: gy, dn & argil- shly.

SH: gy-blk, sm pyrct.

{ARDMORE} Rr LS: tn-gy-wh, Pred dn-mX- VfnX, sm argil-shly.

SH: gy & blk carb.

LS: argil & shly.

SH: gn-gy & mrn.

LS: gy-tn, dn & argil & pyrct. & SH: dk-lt gy & gn-gy & mrn, VRr blk carb, pyrct.

SH: gy-blk & gn-gy, sm pyrct.

SH: AA, Incrs pyrct, sm calc, sm mrn & blk.

SH: lt gy, pyrct,

SH: dk gy-bn-blk carb & Phos, sm Odor.

{VIOLA} (2442' 20 min spl) >90% SH: AA, Trc Sd Clust: gy-tn-STN, Vfn- Md Gr'd, anglr- rnd'd, well cmt'd w/VPPr- Pr visbl Por w/subsat- sat STN & SFO & Cut; >5%<10% VIOLA; ~60% VIOLA CHERT: wh-cm-blu-gy, prt shrp, prt wthr'd & doloc- Frac Edg's & mFrac's & wthr'd Edg's & vug Por w/spt'd brt FLR & Tn OSTN w/SFO & Cut; & DOLO: bf- rich Tn STN, cm, mX- fnXln, sm grnlr texture, sm Vfn- fnXln, sucro w/subsat- sat FLR & STN, Fr- Gd SFO&GB, Fr- Gd Cut, Frly Strng Odor, sm pyrct, sm silic & Cherty Dolo & pyrct (AA). (2442' 40 min spl) Trc Sd Clust, AA, ~10% Incrs VIOLA Rx, ~50% DOLO, ~50% Chert; DOLO: bf-tn-STN & cm, mX- fnXln, sucro & grnlr & chrt- silic & pyrct, VRr shly- argil, Fr IX Por w/Pred sat STN & FLR w/Fr- Gd SFO & Cut. CHERT: cm-gy & blu-gy, prt shrp, prt wthr'd Edg's & Frc Edg's & mFrac & vugs w/SFO-GB & Cut; sm pyrct, Frly Strng odor. (2442' 1 hr spl) Incrs VIOLA Rx, >10%<20% VIOLA (1/2 DOLO, 1/2 CHERT) DOLO: AA, sm pyrct, VRr Gd vug Por, Fr IX Por, subsat- sat brt FLR w/ Fr- Gd SFO&GB; Fr- Gd Cut, Frly Strng Odor; CHERT: AA, Pred spt'd- subsat FLR & spt'd STN w/SFO&GN & Cut from Frac Edg's & wthr'd Edg's & mFrac- IX Por on brk. (2443' 20 min spl) Shrp Incrs VIOLA Rx (~60%), Pred DOLO: rich tn-bn STN, mX- fnXln, Pred vfnXln- sucro w/Fr- Gd Por: IX Por, pp- vug Por w/sat brt FLR & STN, Fr- Gd SFO&GB & Fr- Gd Cut; CHERT: AA (~20-30% of Viola Chert & 70-80% DOLO): wthr'd & Frac'd & doloc w/FLR- STN- SFO- Cut, AA. VRr silic & dn- mX Dolo- Strng Odor, SI pyrct Dolo & Chert. (2443' 40 min spl) ~70% VIOLA Rx, Pred DOLO: mX-fnXln, sucro w/Fr- Gd IX Por, sat STN-FLR, Fr- Gd SFO&GB & Cut. ~30% VCherty: cm & lt-dk blu-gy, Pred opq, wthr'd, Frc'd w/FLR- STN- SFO-Cut, Strng Odor.

2337' (-968)  
CHEROKEE

2394' (-1025)  
ARDMORE

2441' (-1072)  
VIOLA  
{Fr-Gd SFOGB}  
2443' (-1074)  
RTD/LTD

DST #1 VIOLA  
2335'-2443'  
30-45-45-60  
1st Op: Strng blo,  
BOB 1 min 12 sec,  
No BB  
2nd Op: Strng blo,  
BOB in 4 min, wkr  
@ end, No BB.  
Rec: 1116' TF:  
279' VSIOCWM  
3%O,10%W,  
87%M)  
558' OCMW  
(15%O,24%W,  
61%M)  
229' SIOCWM  
(10%O,40%W,  
50%M)  
CI 17,000 PPM  
Tool Spl:  
MW, Oil scum  
IHP: 1132  
IFP: 50-462  
ISIP: 523  
FFP: 461-524  
FSIP: 524  
FHP: 1101  
BHT: 106 F

VESS OIL CORP  
WILSON 'A' #449  
950'FNL & 1265'FWL  
Sec 9-25S-05E  
BUTLER CO., KS  
API#15-015-24001



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: wilson449dst1

TIME ON: 12:45 PM  
TIME OFF: 9:43 PM

Company Vess Oil Corporation Lease & Well No. Wilson A #449  
Contractor C&G #3 Charge to Vess Oil Corporation  
Elevation KB 1369 Formation Viola Effective Pay \_\_\_\_\_ Ft. Ticket No. K052  
Date 11-02-13 Sec. 9 Twp. \_\_\_\_\_ 25 S Range 5 East W County Butler State KANSAS  
Test Approved By Roger Martin Diamond Representative Jason McLemore

Formation Test No. 1 Interval Tested from 2335 ft. to 2443 ft. Total Depth 2443 ft.  
Packer Depth 2330 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 2335 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 2316 ft. Recorder Number 5513 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 2440 ft. Recorder Number 13306 Cap. 4925 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 49 Drill Collar Length 177 ft. I.D. 2 1/4 in.  
Weight 9.3 Water Loss 9.4 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 900 P.P.M. Drill Pipe Length 2125 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number 7 Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NO Reversed Out No Anchor Length 108 ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. 62' DP in Anchor Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Strong, OB in 1 Min., No Blowback  
2nd Open: Strong, BOB in 4 Min., Weaker At End, No Blowback

Recovered 279 ft. of VSOCWM 3%Oil, 10%Wtr, 87%M  
Recovered 558 ft. of OCWM 15%Oil, 24%Wtr, 61% Mud  
Recovered 279 ft. of SOCMW 10%Oil, 40%Wtr, 50%M  
Recovered 1116 ft. of Total Fluid

Recovered _____ ft. of <u>Tool Sample: Muddy Wtr W/Oil Scum</u>	Price Job
Recovered _____ ft. of <u>CHLORIDES: 17000</u>	Other Charges
Remarks: <u>PH:7</u>	Insurance
<u>RW: .825 @ 58</u>	
Drill Pipe is 4" Full Hole	Total

Time Set Packer(s) 2:54 PM A.M. P.M. Time Started Off Bottom 5:54 PM A.M. P.M. Maximum Temperature 106  
Initial Hydrostatic Pressure..... (A) 1132 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 50 P.S.I. to (C) 462 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 523 P.S.I.  
Final Flow Period..... Minutes 45 (E) 461 P.S.I. to (F) 524 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 524 P.S.I.  
Final Hydrostatic Pressure..... (H) 1101 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

Vess Oil Corporation  
DST #1 Viola 2335-2443  
Start Test Date: 2013/11/02  
Final Test Date: 2013/11/02

Wilson A #449  
Formation: Viola  
Job Number: K052

# Wilson A #449

