# ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

**COMPANY** VESS OIL CORPORATION

**LEASE** PIERPOINT 'A' #131

**FIELD** EL DORADO

**LOCATION** 1980' FSL & 990' FWL

**SECTION** 33 **TOWNSHIP** 25S **RANGE** 05E

**COUNTY** BUTLER **STATE** KANSAS

### ELEVATIONS

**KB** 1350' **GL** 1344'

**Measurements Are All From** KB

**API** 15-015-24022-0000

**CONTRACTOR** C&G DRILLING, Rig #1

**SPUD** 04/17/2014 **COMP** 04/21/2014

**RTD** 2520' (-1170) **LTD** 2518' (-1168)

### ELECTRICAL SURVEYS

No Open Hole E-logs

### CASING

**SURFACE** 6 jts 8-5/8" set @ 262' KB w/150 sx Class A, 3% CC

**PRODUCTION** 61 jts 5-1/2" set @ 2519' KB w/125 sx Thickset, 5% Kol-Seal

| FORMATION TOPS | LOG | SAMPLES |
|---|---|---|
| ADMIRE 550 | 506' (+844) | |
| ADMIRE 650 | 622' (+728) | |
| WHITE CLOUD LM | 871' (+479) | |
| WHITE CLOUD SD | 879' (+471) | |
| OREAD | 1372' (-22) | |
| HEEBNER | 1410' (-60) | |
| DOUGLAS SH | 1444' (-94) | |
| LANSING | 1695' (-345) | 1691' (-341) |
| KANSAS CITY | 1979' (-629) | 1980' (-630) |
| STARK | 2079' (-729) | 2086' (-736) |
| B/KANSAS CITY | 2137' (-787) | 2139' (-789) |
| CHECKERBOARD | 2211' (-861) | 2213' (-863) |
| HEPLER SD | NONE | NONE |
| ALTAMONT | 2265' (-915) | 2269' (-919) |
| CHEROKEE | 2347' (-997) | 2350' (-1000) |
| ARDMORE | 2419' (-1069) | 2423' (-1073) |
| VIOLA | 2495' (-1145) | 2497' (-1147) |
| RTD/LTD | 2518' (-1168) | 2520' (-1170) |

### CHRONOLOGY

4/16/2014- MIRU C&G Drilling, Rig #1. Buckeye deliver 6 jts 8-5/8" 23#/ft LS Casing= 254'. Start drilling rathole @ 9:00 AM.

04/17/2014- SPUD 12-1/4" hole @ 8 AM. TD @ 263' @ 1 PM. Run 8-/8" 23#/ft casing= 254', Set @ 262' KB Consoldidated Cememnt w/150 sx Class A, 3% CC. Circ Cement. Plug down @ 2:20 PM 04/17/2014. Drill out under surface @ 11 PM using PDC bit.

04/18/2014- Drlg @ 700', VSI SFO in Admire Sand.

04/19/2014- Drlg @ 2260' (10:45 AM).

04/20/2014- Ran DST #1 from 2426'-2510' across top 13' of Viola.

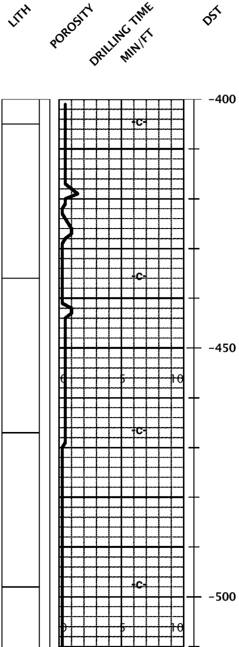
04/21/2014- Ran DST #2 from 2510-2520' in the Viola, No open hole E-logs.

## REMARKS:

CASING JOB: 2520' TD, Ran 61 jts of 5-1/2" 15.5#/ft casing, Tally= 2520.43'. Set @ 2519' KB, 1' off bottom, Circulate 20 min, Rig up rotating head, circulate & rotate for 20 minutes. Consolidated pump 500 gal mud flush, mix @ pump 125 sx Thickset cement w/5% Kol-Seal. Good Circ of mud, Displace plug @ 6 bpm. Caught pressure @ 26.5 bbls, lift to 650#. Land plug @ 1300# @ 5:18 PM. Held insert @ 2490'.
(C.Coats, VOC)

*Cased hole E-log tops by P.Ramondetta, Geologist, VOC

Respectfully submitted,
Roger L. Martin, Geologist (Wellsite)



**SAMPLE DESCRIPTION**

**REMARKS**

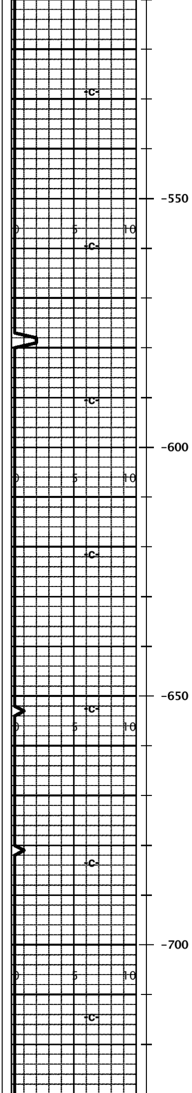
405' spl} SH: gy-blk, sm calc & lmy.

436' spl} LS: tn-gy-cm, sm mot, dn-mx- fnx, PRed argil-shly, VPr- NVP w/NS. & SH: gy-blk, sm lmy-calc.

467' spl} SH: AA & LS: AA, sm wh-chlky & argil-shly w/VPr- NVP, NS.

498' spl} LS: tn-gy, dn-mx-fnx, sm argil, VPr- NVP w/NS. & SH: gy-blk.

529' spl} LS: AA, Incrs argil- dn, VPr- NVP, NS. & SH: AA.



**SHS@ 530'=1/4 deg**

560' spl} Pred LS: lt-dk gy-bf, dn-mx & Mdst, sm argil, NVP w/NS.

591' spl} LS: AA, Incrs in argil- dn, sm pyrtc. Incrs SH: gy-blk, Trc Sndy SILTS.

622' spl} LS: dk-lt gy-tn-cm-wh, Pred dn- mx & argil- Mdst, VPr- NVP. & SH: lt-dk gy- blk.

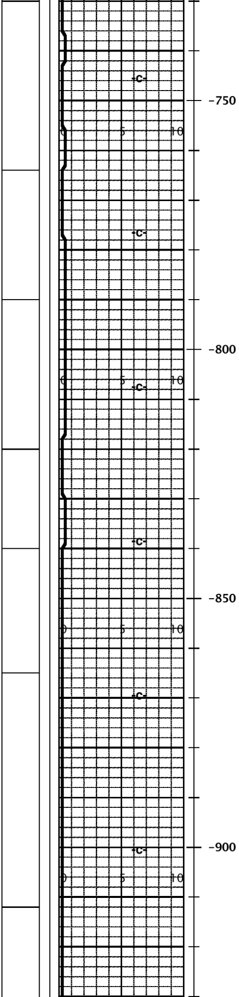
653' spl} LS: dk gy & tn, & lt gy-wh, Pred dn-mx, VRr fnx & argil Mdst w/VPr- NVP & NS. & SH: AA, & sm blk carb & lt gn; Trc SILTS.

**{VSI SFO)**

684' spl} Pred gy SH & SILTS: lt-dk gy, sm sndy, prt micac, VRr sndy- Trc SILTS w/FLR- SFO, <5% SS-SILTY SD CLUST: Vfn Gr'd, Trc Vfn- fn Gr'd, rnd-subanglr, micac; <5% Sd Clust w/brt subsat FLR & Sl-Fr SGB & Sl Sho Conds & VSl SFO, subsat- sat Tn STN & Sl- Fr mlky Cut.

715' spl} LS: dk gy & tn & gy-wh, sm mot, pred dn Mdst, sm argil- shly, VPr- NVP & NS. SH: blk carb & gy calc & lmy.

746' spl} LS: AA, pred dk gy-bn, dn Mdst- argil, VPr- NVP. & SH: AA, sm SILTS: gy, calc, sndy, Vfn- fn Gr'd, Pred barren, Trc Sd Clust, AA w/STN-FLR-SFO-COND-GB.



777' spl} LS: lt-dk gy- argil Mdst, Pred SH: lt-dk gy, sm calc & lmy, VRr LS: cm-tn, Wkst- Pkst, mx- fnx w/VPr- NVP.

808' spl} sm LS: AA, Pred dn & argil- Mdst, Incrs SH: AA & sm blk carb. VRr LS: cm-tn-wh, Pred dn & sm chlky w/VPr- NVP.

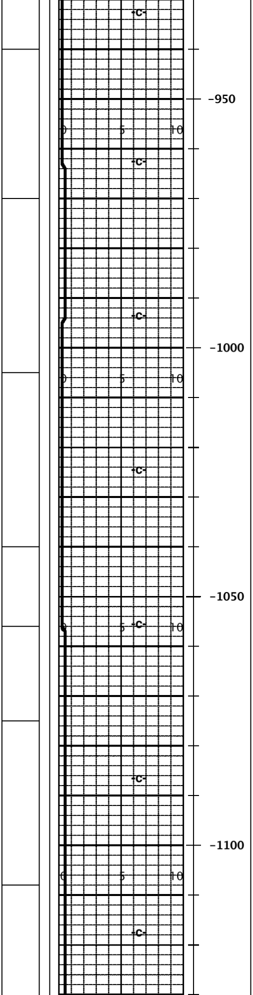
839' spl} VAbndt LS: tn-gy-wh, Pred dn-mx, VRr fn-MdX's- 2nd ReX, sm dn Mdst- Wkst,Rr Pkst, VPr- NVP, Trc Crs- VCrs X's.

870' spl} Pred SH: gy-blk, sm LS: AA, VPr- NVP.

901' spl} Rr LS: cm-tn-gy, sm Wkst- Pkst, Pred dn- VPr-NVP, NS. VAbndt SH: gy-blk.

932' spl} Pred SH: gy-blk, AA. sm LS: AA, dn- argil, sm Silty, Vpr- NVP, NS. & SILTS: lt-dk gy, micac, sm sndy, Vfn Gr'd, sm clac, VRr SD CLUST: gy, vfn Gr'd, silty, micac, sm calc, VPr- Pr Por w/NS.

963' spl} VRr SILTY SD CLUST: AA, gy, Vfn Gr'd, silty, micac, Pr visbl Por w/NS & SILTS: gy, micac, sm sndy; Rr LS: gy, dn Mdst, Pred SH: dk gy- blk.



994' spl} LS: dk-lt gy & tn, argil- shlky Mdst- Wkst- Pkst w/VPr- NVP w/NS. Abndt SH: dk-lt gy.

1025' spl} LS: AA & gy, silty- argil & LS: gy-tn-wh, sm mot, mx- fnx, prt argil w/VPr- NVP w/NS.

1056' spl} sm LS: AA, sm gy-blk, Vargil-shly LS. Pred SH-SILTS: dk gy-blk.

1087' spl} SH: gy-blk, sm calc & lmy SH & SILTS. sm LS: gy-blk-bn, dn & Vargil, VPr- NVP.

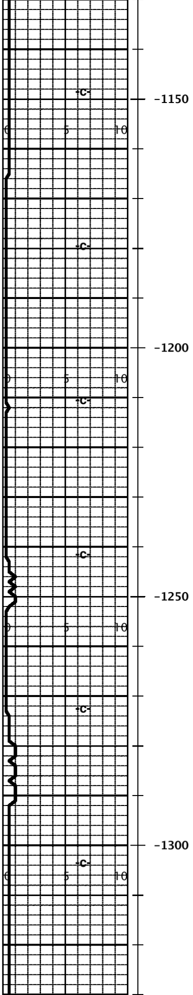
1087' spl cont} LS: tn-cm, dn- mx- fnx, Rr Pkst w/Pr visbl Por w/NS.

1118' spl} Abndt LS: Pred dn- sm wh chlky & sm LS: cm-tn-gy, mx- Rr fnxln, vRr prt MdX & Rr Pkst, CrxX- 2nd ReX, < 5% LS: mx- Mdxln w/IX Por & mFrc & Edg w/brt FLR & Sl Sho Conds & VSl SFO, Trc Vlt STN.

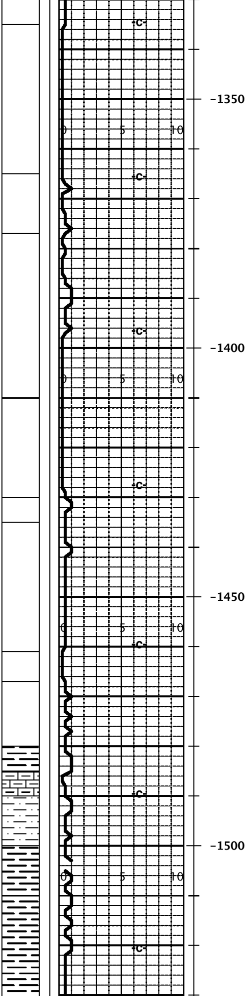
**{VSI SFO)**

1149' spl} sm SH: AA, sm argil- dn LS & LS: cm-tn & gy-wh, sm dn, sm Pkst & mx- fnx. <5% LS: AA w/brt FLR-mFrac & Edg & Pr- VPr visbl IX & IGr Por w/Sl Sho Conds, VSl SFO, Sl Odor.

**{VSI SFO)**



| | |
|---|---|
| 1180' spl} sm SH: dk gy & dn-argil gy LS. & LS: tn-wh, mx- fnx, sm chlky, VPr- Pr mIX Por & mFrac Por, <5% LS w/brt spt'd-sat FLR- STN & VSl SFO & Cut. | **{VSl SFO)** |
| 1211' spl} SH: gy & blk, sm pyrtc & LS: pred dn & argil, sm chlky. VRr LS: tn-STN, mx- fnxln, sm sucr, Trc MdX-CrsX- 2nd Rex w/STN, VRr spt's-sat STN <2% w/FLR-Trc SFO, Sl Cut. | **{Trc SFO)** |
| 1242' spl} VAbndt LS: Pred cm-gy & tn, Pred dn- mx-Vfnx- 2nd ReX. VRr LS (<5%): tn, mx- fnxln, IX & IGr Por & mFrac & Edg w/spt'd- sat brt FLR, VSl SFO- Cut, VSl Odor | **{VSl SFO)** |
| 1273' spl} VAbndt LS: Pred cm-bf-gy, dn & mx- fnx, sm argil, sm chlky. <5% LS: mx- fnxln w/ IX & IGr Por, mFrac & Edgs, Trc vug & mldc Por w/spt'd-sat brt FLR-STN, VSl SFO VSl Odor, Sl Cut. | **{VSl SFO)** |
| 1304' spl} Abndt SH- SILTS: gy, sm sndy. sm LS: wh-gy-tn, mx- fnxln & grnlr Pkst, Pr- Fr Por AA & vug & mldc Por w/STN, VRr Mdx- 2ndReX, <5% LS w/IX & IGr Por, mFrac & Edgs w/subsat brt FLR-STN, VSl SFO, Sl- Fr Cut, VSl Odor. sm silty- argil. | **{VSl SFO)** |
| 1335' spl} LS: AA, sm fos & ool, Rr Mdx- Crsx- 2nd ReX, Sl Cherty, <3% LS w/spt's-sat brt FLR-STN, VSl SFO, Sl-Fr Cut- IX Por, IGr Por, mFrac & Edgs. Trc calc-silty Sd Clust w/FLR-STN-SFO. | **{VSl SFO)** |



1366' spl} Pred SH: gy-blk, micac. >80% SH: sm silty-micac. (Trc LS, AA)

*No sample @ 1397'*

1428' spl}SH: >30% AA.

Abndt LS: cm-tn-gy-wh, mx- fnxln, sm part chlky, sm dn, VRr Pr- Fr Por: IX Por, IGr Por, Trc STN, VRr <3% w/spt'd- sat FLR, VSl SFO, Trc STN. Abndt chlky & subchlky & barren.

**{VSl SFO)**

1491' spl} LS: wh-chlky & cm-gy-bf, mx- fnxln, Rr Mdxln-CrsX's, Pr- Fr Por, ~99% barren, Rr SH: sm blk carb & gy-VC SH.

Abndt LS, Trc FLR- AA.

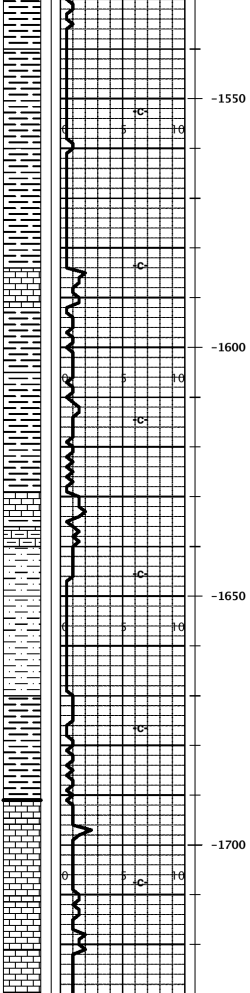
LS: wh-gy-tn, prt chlky, sm mx- Vfnx, Wkst- Pkst w/VPr-Pr Por w/NS.

Abndt blk carb SH in 1490' spl. Pred LS & Vcarb SH.

1521' spl} Abndt SH- SILTS: gy, sm calc & sndy.

SILTS-SD: Vfn Gr'd, micac & SILTS: AA, micac. SH: AA & LS: AA.

1553' spl} sm LS: tn-gy-wh, sm mot Pkst- Wkst, fos, sm argil, Sl pyrtc, VPr- NVP, NS. Abndt gy-blk SH & SILTS: gy, micac.



1584' spl} SH: gn-gy & gy-blk, Rr carb SH. LS: AA & SILTS: AA.

1615' spl} SH: VC-gy-bk & gn-gy & mrn-rd. & SILTS: lt-dk gy, micac, VRr Sndy, Trc SD CLUST: NA. & LS: sm AA.

LS: tn-cm-wh, mx- fnxln, VRr prt Mdxln- 2nd ReX & CrsX's, sm chlky VPr- Pr Por, NS.

1646' spl} SH: VC, AA, Incrs mrn-rd, SILTS: AA, LS: AA & ool & fos Pkst, sm Profus ool & mx- fnxln VPr- Pr visbl Por w/NS.

1677' spl} LS: Incrs ool & fos Pkst: gy-tn-cm, sm mot, sm silty-sndy.

LS:argil, VPr- Pr visbl IGr Por w/NS.

SILTS: lt-dk gy, sm sndy, micac & SH: AA.

1708' spl} ~50% SH: gy-blk.

{LANSING} ~50% 1708' spl LS: wh-gy-tn, sm chlky & dn-mx- fnx, VRr Mdx.

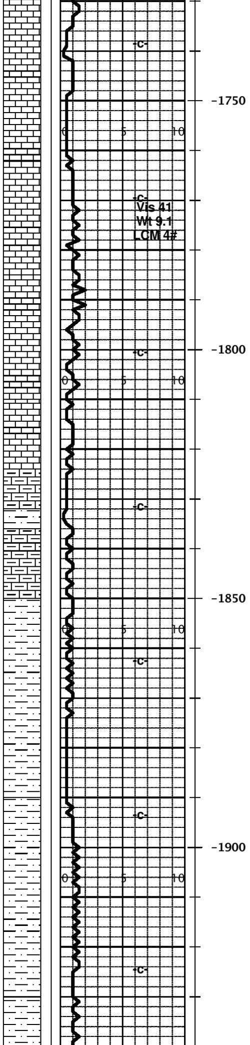
1739' spl} LS: wh-cm-tn, chlky & mx- fnxln, VRr prt Mdx-2nd ReX- CrsX's, sm Wkst- Pkst w/VPr- Pr visbl Por, NS.

1770' spl} LS: wh-bf-tn, mx- Rr Mdxln, VRr CrsX's- 2nd ReX, prt chlky & sm grnlr Pkst, sm Fr- Gd IX Por, IGr Por w/ NS.

***Losing Volume***

***LOST CIRC- MIX MUD***

**1691' (-341)**
**LANSING**



**MUD CHECKS**
**by FUD MUD:**
**WT 9.1,VIS 38**
**PV 26,YP 20**
**WL 9.4, pH 9.0**
**Cl 800, LCM 3.5#**

1801' spl} LS: tn-gy-wh, Pred dn- mx- fnx, sm 2nd ReX, sm chlky, Pr- NVP, NS.

1832' spl} LS: wh-tn, sm chlky, Pred dn- mx- fnx, VRr Mdx- 2nd ReX, sm Wkst- Pkst, Pred Pr- NVP, NS.

1863' spl} LS: tn-gy-wh, sm mot, Pred dn- mx- fnx, sm argil Pkst- Wkst & Mdst, sm silty- Vargil.

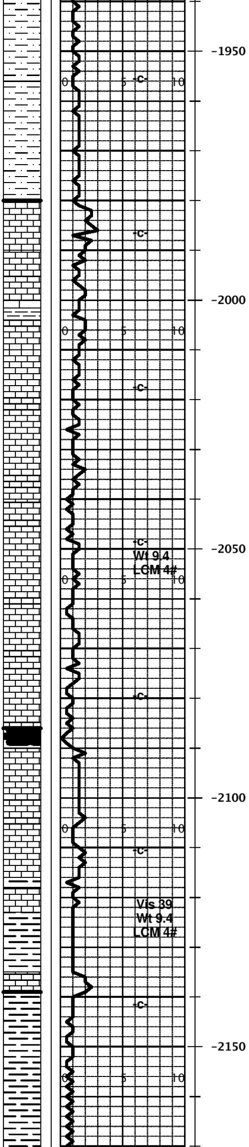
**SHS @ 1832'=1/2 deg**

SILTS: gy, calc, lmy.

1894' spl} SH- SILTS: gy, sm calc & micac.

1925' spl} SH- SILTS: gy, sm micac & calc & sm pyrtc.

1956' spl} SILTS- SH: md-dk gy,sm micac, sm calc.



1987' spl} SH: dk gy & md gy, sm silty- calc & micac. VRr (<3%) LS: gy-wh-tn, dn-chlky & mx, VPr- NVP, NS.

{KANSAS CITY} LS: AA & SH: md-dk gy.

2018' spl} Pred LS: wh-gy-tn, sm mot Pkst- Wkst, sm fos & ool, mx- fnx, sm chlky, vPr- Pr IGr por, <5% w/STN, spt'd- sat brt FLR & Sl SFO, VSl Odor, VSl Cut.

2049' spl} LS: gy-tn-wh, Pred dn- chlky, sm grnlr Pkst-Wkst & mx- fnx w/Pr IX & IGr Por, VRr STN, <5% w/spt'd-sat FLR, AA, Sl SFO, VSl Odor, VSl mlky Cut.

2080' spl} wh-bf, Pred chlky- dn, Rr mx- fnxln w/Pr- Fr Por w/NS. sm SH: AA, gy- blk.

2111' spl} Pred LS: wh-gy-tn, dn & chlky, sm fos Wkst-Pkst, mx- fnx, Pred Pr- NVP, NS. sm gy SH- VRr blk carb SH.

2142' spl} {STARK} SH: VRr blk carb SH.
LS: wh-gy-tn, sm chlky & sm grnlr Pkst w/Pr- Fr IGr Por w/NS; sm mx- fnx, Pred dn- VPr- NVP.

2173' spl} Abndt SH: gy-blk & blk subcarb- Vcarb & Abndt LS: lt-dk gy & tn & wh, mot ool & fos Pkst, sm argil- shly, Pr- NVP w/NS.

SH: gy- calc.

LS: gy dn & argil Mdst.

2204' spl} {BASE KANSAS CITY} Pred SH: dk gy-blk, sm pyrtc, Rr blk carb. (~10% LS, AA, NS)

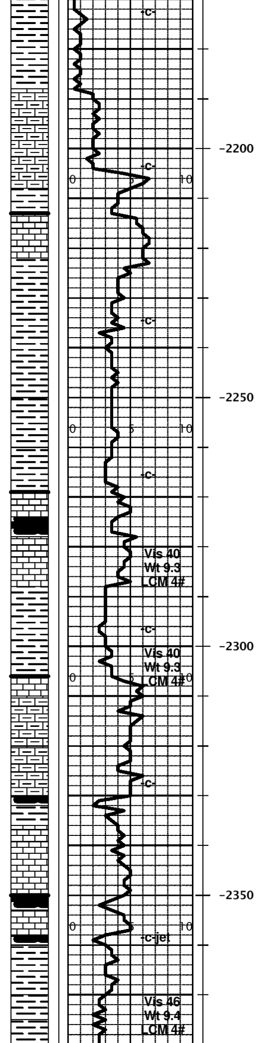
**1980' (-630)**
**KANSAS CITY**

**{VSl SFO)**

**{Sl SFO)**

**2086' (-736)**
**STARK**

**2139' (-789)**
**B/KANSAS CITY**



sm LS: gy-tn-wh, mot Pkst- Wkst, ool & fos & argil. & SILTS: calc.

**BIT TRIP @ 2204'**

Pred SH: gy-blk, pyrtc. (&LS: AA w/Trc FLR- STN)

**2213' (-863)**
**CHECKERBOARD**

{CHECKERBOARD} LS: wh-tn, mot, mx- fnxln, VRr Mdxln, sm grnlr, ool & fos Pkst, Pr- NVP, NS.

Pred SH: lt-dk gy & gn-gy & gy-blk, Rr rd-mrn.

**WT 9.4,VIS 43**
**PV 28,YP 22**
**WL 8.8,pH 9.0**
**Cl 800,LCM 2.5#**

SH: AA, Incrs gy-blk.

SH: VC, sm pyrtc & blk carb.

**2269' (-919)**
**ALTAMONT**

{ALTAMONT} SL: bf-tn, dn Mdst- Wkst.

SH: gy-blk & blk carb.

LS: gy-tn-wh, Pred dn, sm argil, Rr Pkst, Pr- NVP, NS.

Rr LS: AA & argil-shly LS. Pred SH: dk-lt gy, sm calc & lmy & sm blk carb.

{PAWNEE} LS: wh-gy-tn, mot Pkst & Wkst, sm chlky, sm argil Mdst, VPr- NVP.

LS: gy-tn, dn Mdst- Wkst, sm wh-chlky, sm argil & shly.

SH: AA & LS: AA

SH: blk carb.

LS: tn-gy-wh, Pred dn Mdst- Wkst, sm chlky, sm argil, VPr- NVP.

**2350' (-1000)**
**CHEROKEE**

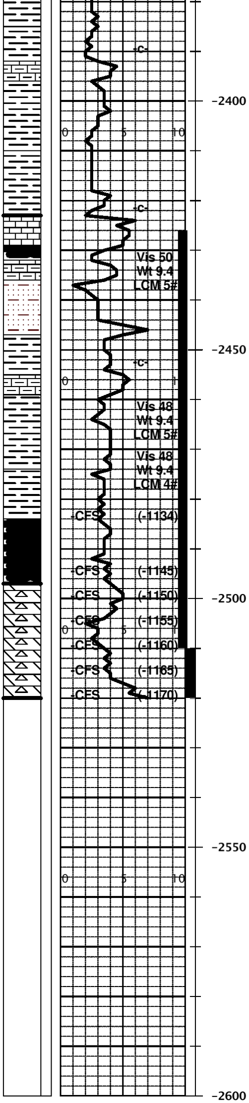
{CHEROKEE} SH: blk carb & vgt'd.

LS: dn & argil, sm chlky.

SH: Rr blk carb & vgt'd gn-gy & rd. sm SILTST.

SH: Vgt'd, AA.

SH: AA, shrp Incrs in mrn-rd SH.



SH: Vgt'd.

LS: dk gy-bn, argil, dn.

VRr LS: gy-tn, dn Mdst. SILTS- SH: gy-blk.

Pred SH: AA, gy-blk.

{ARDMORE} LS: tn-gy-wh, dn Mdst, sm chlky.

SH: blk carb & gy.

LS: gy-bn dn hd mx Mdst, sm pyrtc.

SS- Rr SD CLUST: (~5%) gy-tn-STN, Vfn- fn Gr'd, rnd'd-anglr, Pred subanglr- subrnd, well cmt'd, VRr fribl, Pr- Fr Por w/subsat- sat STN & FLR, VSl- Sl SFO- Conds- Gs Bubls & Sl-Fr mlky Cut, VSl Odor.

SH: AA.

LS: tn-gy, dn & argil Mdst.

SH: Vgt'd lt-dk gn-gy & yel-gn, VRr CHERT: orgn-rd, shrp.

SH: Vgt'd & sm lt gn-aqua, sm sndy, Vfn Gr'd. NS.

SH: dk gy-blk, subcarb- carb, sm phos, Sl pyrtc.

{VIOLA} (2505' drlg spl} >60% VIOLA DOLO: rich Tn subsat- sat OSTN, Pred mx- Vfnxln, sucro w/Fr- Gd Por w/subsat-sat FLR- STN, Fr- Gd SFO- Gsy, Strng Odor. CHERTY: cm-bf-gy, sm shrp, sm semiTripolc w/Por & STN-FLR-SFO & Cut (>5 <10% Chert).(2505' 20 min spl} >80% DOLO: Pred Tn OSTN, VRr tn-bn, mx- Vfnxln, Pred sucro w/Fr-Gd IX Por, subsat-sat brt FLR & OSTN, Gd SFO- Gsy- Clr- Vlt Tn 'live' looking, Strng Odor. <10% CHERT: wh-cm-bf-gy, sm shrp- frsh, sm wthr'd-semitripolc w/pr- Fr Por, VRr FLR & STN-SFO & Cut. VRr dn Dolo, AA.(2505' 40 min spl} >80% VIOLA DOLO: AA w/sat FLR & STN, sucro, mx- Vfnxln w/Fr- Gd OX Por & VRr pp- vug Por, Gd SFO- Gsy, Fr-Gd Cut, Strng Odor. Cherty: AA, Incrs >10% <20%.(2505' 1 hr spl} ~70% VIOLA: Pred sat w/brt FLR & rich Tn STN w/Gd SFO-Gsy, Sl Incrs in Chert, AA, Strng Odor.(2510' drlg spl} >60% VIOLA: Shrp Incrs in CHERT: ~50% Chert & 50% DOLO: bf-tn-STN, mx- Vfnxln, sm prt grnlr, Cherty, silic, sm sucro, Fr- Gd IX Por, Pred subsat- sat brt FLR & OSTN w/Fr-Gd SFO&GB & Cut w/spt'd-subsat FLR & STN in & on Chert- Sl- Fr SFO & Cut- Chert, Strng Odor. (2510' 20 min spl} ~70% VIOLA, ~50% DOLO: AA, ~50% CHERT, AA, Incrs dolomc & semiTripolc Chert w/Por-FLR- STN- SFO- Cut- Odor AA. (2510' 40 min spl} >60% VIOLA (~60% Chert, 40% Dolo) DOL: AA- sat STN & Gd SFO & Cut, CHERT: AA, Incrs dolomc & incrs Tripolc w/Por- STN- SFO- FLR- Cut.

**2423' (-1073)**
**ARDMORE**

**{VSl- Sl SFO)**

***Short Trip***

**2497' (-1147)**
**VIOLA**
**{Fr- Gd SFO)**

**{Gd SFO)**

**{Fr-Gd SFO)**

**2520' (-1170)**
**RTD**

**DST #1 VIOLA**
**2426'-2510'**
**30-45-45-90**
**1st Op: 1/4" blo**
**bldg to 1/2" in**
**30 min, No BB.**
**2nd Op: No blo**
**Rec: 23'M w/**
**scum F.Oil**
**<1% Oil**
**TOOL SPL:**
**2%O,98%M**
**IHP: 1224**
**IFP: 54-59**
**ISIP: 597**
**FFP: 59-62**
**FSIP: 625**
**FHP: 1201**
**BHT: 101 F**

**DST #2 VIOLA**
**2510'-2520'**
**30-45-45-90**
**1st Op: 1/4" blo**
**bldg to 2" in**
**30 min, No BB**
**2nd Op: No Blo**
**Rec: 45' Ospt'd M**
**<1% F.Oil**
**TOOL SPL:**
**3%O,97%M**
**IHP: 1240**
**IFP: 17-29**
**ISIP: 50**
**FFP: 28-47**
**FSIP: 50**
**FHP: 1231**
**BHT: 99 F**

**VESS OIL CORP**
**PIERPOINT 'A'**
**#131**
**1980'FSL &**
**990'FWL**
**Sec 33-25S-05E**
**BUTLER CO., KS**
**API#15-015--24022**

**DIAMOND TESTING**
P.O. Box 157
**HOISINGTON, KANSAS 67544**
(800) 542-7313

TIME ON: 11:55 am
TIME OFF: 8:32 pm

**DRILL-STEM TEST TICKET**
FILE: **Pierpoint A 131 Dst 1**

Company: Vess Oil Corp — Lease & Well No.: Pierpoint A 131
Contractor: C & G Drilling Rig 1 — Charge to: Vess Oil Corp
Elevation: 1344 Est — Formation: Viola — Effective Pay: ____ Ft. — Ticket No. RR023
Date: 20-Apr-2014 — Sec. 33 — Twp. 25S — Range: 5 E W — County: Butler — State: KANSAS
Test Approved By: **Roger Martin** — Diamond Representative: **Ricky Ray**

Formation Test No. 1 — Interval Tested from 2,426 ft. to 2,510 ft. — Total Depth 2,510 ft.
Packer Depth 2,421 ft. Size 6 3/4 in. — Packer depth ____ ft. Size 6 3/4 in.
Packer Depth 2,426 ft. Size 6 3/4 in. — Packer depth ____ ft. Size 6 3/4 in.
Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 2,406 ft. — Recorder Number 5,951 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 2,497 ft. — Recorder Number 5,584 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth ____ ft. — Recorder Number ____ Cap. ____ P.S.I.

Mud Type: Chemical — Viscosity 50 — Drill Collar Length 177 ft. I.D. 2 1/4 in.
Weight 9.3 — Water Loss 8.4 cc. — Weight Pipe Length 0 ft. I.D. 2 7/8 in
Chlorides 900 P.P.M. — Drill Pipe Length 2,216 ft. I.D. 3 1/2 in
Jars: Make STERLING — Serial Number #5 J&SJ — Test Tool Length 33 ft. Tool Size 3 1/2-IF in
Did Well Flow? NA — Reversed Out NA — Anchor Length 84 ft. Size 4 1/2-FH in
*Anchor made up of all perfs*
Main Hole Size 7 7/8 — Tool Joint Size 4 1/24"FH in. — Surface Choke Size 1 in. — Bottom Choke Size 5/8 in

Blow: 1st Open: 1/4" Blow Built to 1/2 " in 30 mins NOBB
2nd Open: No Blow NOBB

Recovered 23 ft. of O<M 1 % O 99% M Mud With Oil Scum
Recovered ____ ft. of ____
Recovered ____ ft. of ____
Recovered ____ ft. of ____
Recovered ____ ft. of ____
Recovered ____ ft. of ____
Remarks: ____

Tool Sample: 2% O 98% M

Price Job ____
Other Charges ____
MILES R.T.@ /MILE
Insurance $0.00
Total ____

Time Set Packer(s) 2:48 PM — Time Started Off Bottom 6:18 PM — Maximum Temperature 101

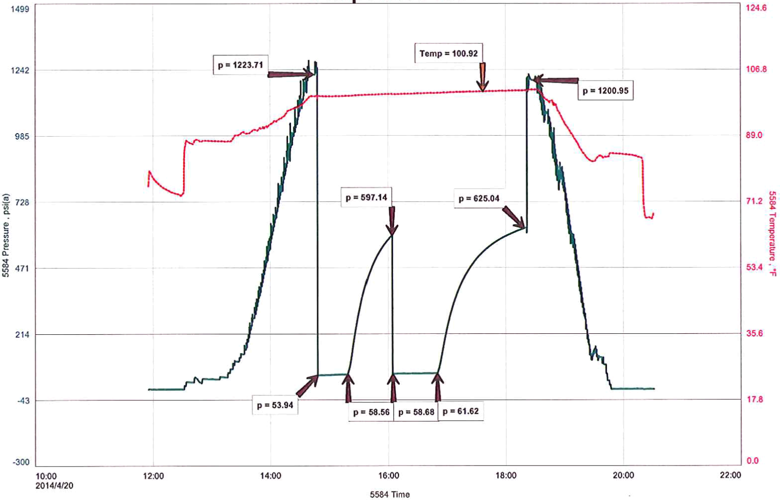
Initial Hydrostatic Pressure ........ (A) 1,224 P.S.I.
Initial Flow Period ........ Minutes 30 (B) 54 P.S.I. to (C) 59 P.S.I.
Initial Closed In Period ........ Minutes 45 (D) **597** P.S.I.
Final Flow Period ........ Minutes 45 (E) 59 P.S.I. to (F) 62 P.S.I.
Final Closed In Period ........ Minutes 90 (G) **625** P.S.I.
Final Hydrostatic Pressure ........ (H) 1,201 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.

ess Oil Corp
st 1 Viola (2426-2510)
tart Test Date: 2014/04/20
inal Test Date: 2014/04/20

Pierpoint A 131
Formation: Dst 1 Viola (2426-2510)
Pool: Infield
Job Number: RR023

# Pierpoint A 131



\Diamond Testing 5\Desktop\Dst1 20-Apr-14 Ver

**DIAMOND TESTING**
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313

TIME ON: 3:45 am
TIME OFF: 11:35 am

**DRILL-STEM TEST TICKET**
FILE: **Pierpoint A 131 Dst 2**

Company: Vess Oil Corp — Lease & Well No.: Pierpoint A 131
Contractor: C & G Drilling Rig 1 — Charge to: Vess Oil Corp
Elevation: 1344 GL-1350 KB — Formation: Viola — Effective Pay: ___ Ft. — Ticket No. RR024
Date: 21-Apr-2014 — Sec. 33 — Twp. 25 S — Range 5 E W — County: Butler — State: KANSAS
Test Approved By: **Roger Martin** — Diamond Representative: **Ricky Ray**

Formation Test No. 2 — Interval Tested from 2,510 ft. to 2,520 ft. — Total Depth 2,520 ft.
Packer Depth 2,505 ft. Size 6 3/4 in. — Packer depth ___ ft. Size 6 3/4 in.
Packer Depth 2,510 ft. Size 6 3/4 in. — Packer depth ___ ft. Size 6 3/4 in.
Depth of Selective Zone Set ___

Top Recorder Depth (Inside) 2,490 ft. — Recorder Number 5,584 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 2,512 ft. — Recorder Number 5,951 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth ___ ft. — Recorder Number ___ Cap. ___ P.S.I.

Mud Type: Chemical — Viscosity 50 — Drill Collar Length 177 ft. I.D. 2 1/4 in.
Weight 9.3 — Water Loss 8.4 cc. — Weight Pipe Length 0 ft. I.D. 2 7/8 in
Chlorides 900 P.P.M. — Drill Pipe Length 2,300 ft. I.D. 3 1/2 in
Jars: Make STERLING — Serial Number #5 J&SJ — Test Tool Length 33 ft. — Tool Size 3 1/2-IF in
Did Well Flow? NA — Reversed Out NA — Anchor Length 10 ft. Size 4 1/2-FH in
*Anchor made up of all perfs*
Main Hole Size 7 7/8 — Tool Joint Size 4 1/2 4"FH in. — Surface Choke Size 1 in. — Bottom Choke Size 5/8 in

Blow: 1st Open: 1/4" Blow Built to 2 " in 30 mins NOBB
2nd Open: No Blow NOBB

Recovered 45 ft. of OSM < 1% O > 99 % M
Recovered ___ ft. of ___
Recovered ___ ft. of ___
Recovered ___ ft. of ___
Recovered ___ ft. of ___
Recovered ___ ft. of ___
Remarks:

Tool Sample: 3% O 97% M

Price Job
Other Charges
MILES R.T.@ /MILE
Insurance $0.00
Total

Time Set Packer(s) 5:33 AM — Time Started Off Bottom 9:03 AM — Maximum Temperature 99

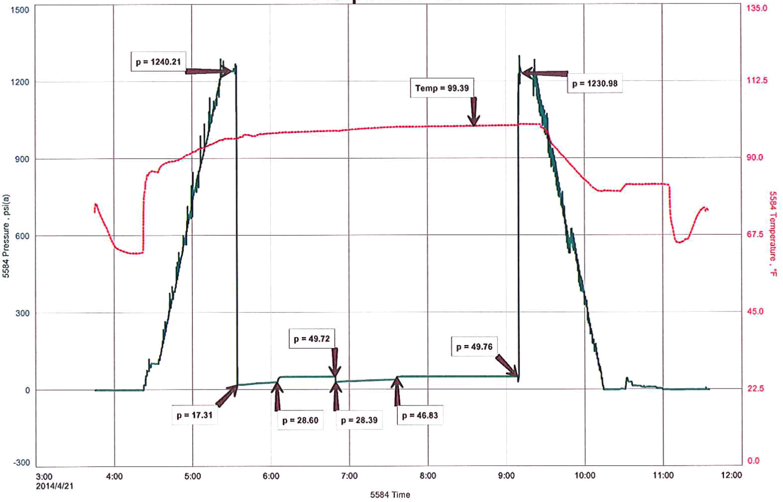
Initial Hydrostatic Pressure (A) 1,240 P.S.I.
Initial Flow Period Minutes 30 (B) 17 P.S.I. to (C) 29 P.S.I.
Initial Closed In Period Minutes 45 (D) **50** P.S.I.
Final Flow Period Minutes 45 (E) 28 P.S.I. to (F) 47 P.S.I.
Final Closed In Period Minutes 90 (G) **50** P.S.I.
Final Hydrostatic Pressure (H) 1,231 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.

'ess Oil Corp
)st 2 Viola (2510-2520)
;tart Test Date: 2014/04/21
'inal Test Date: 2014/04/21

Pierpoint A 131
Formation: Dst 2 Viola (2510-2520)
Pool: Infield
Job Number: RR024

# Pierpoint A 131



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