ROGER L. MARTIN
INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT
DRILLING TIME AND SAMPLE LOG

COMPANY VESS OIL CORPORATION
LEASE LISTER 'A' #39
FIELD EL DORADO
LOCATION 1650' FSL & 600' FEL
SECTION 32 TOWNSHIP 25S RANGE 05E
COUNTY BUTLER STATE KANSAS

ELEVATIONS

KB 1353' GL 1347'
Measurements Are All From KB
API 15-015-24021-0000

CONTRACTOR C&G DRILLING, Rig #1
SPUD 04/23/2014 COMP 04/29/2014
RTD 2512' LTD 2510'

ELECTRICAL SURVEYS

NABORS Completion & Production Services Co: DIL
CDL/CNL/PE, MEL

CASING

SURFACE 6 jts 8-5/8" set @ 260' KB
w/170 sx Class A, 3% cc.
PRODUCTION 61 jts 5-1/2" set @
2511' KB w/125 sx Thickset, 5% Kol-Seal

FORMATION TOPS	LOG	SAMPLES
ADMIRE 550	512' (+841)	
ADMIRE 650	624' (+729)	
WHITE CLOUD LM	873' (+480)	
WHITE CLOUD SD	880' (+473)	
OREAD	1371' (-18)	
HEEBNER	1409' (-56)	
DOUGLAS SH	1443' (-90)	
LANSING	1699' (-346)	1709' (-349)
KANSAS CITY	1984' (-631)	1985' (-632)
STARK	2084' (-731)	2086' (-733)
BASE/KANSAS CITY	2143' (-790)	2145' (-792)
CHECKERBOARD	2215' (-862)	2218' (-865)
CHEROKEE	2346' (-993)	2347' (-994)
ARDMORE	2417' (-1064)	2418' (-1065)
VIOLA	2463' (-1110)	2466' (-1113)
SIMPSON	2492' (-1139)	2496' (-1143)
SIMPSON SAND	2501' (-1148)	2507' (-1154)
LTD/RTD	2510' (-1157)	2512' (-1159)

CHRONOLOGY

04/22/2014- MIRU C&G Drilling, Rig #1. Hogoboom deliver 6 jts 8-5/8" 23#/ft L.S. Casing= 251' (threads off). Start drilling rathole @ 11:15 AM.

04/23/2014- SPUD 12-1/4" hole @ 8 AM. Lost circulation @ 30'. 105' MW 8.8, LCM 8#. TD @ 263'. 2 PM Run 8-5/8" casing, set @ 260' KN. Consolidated cement w/170 sx Class A, 3% CC. Circ cement, plug down 5 PM.

04/24/2014- Drlg @ 1120'. Drill out @ midnight. SHS @ 653'= 1/4 deg.

04/25/2014- Drlg @ 1850'. Bit trip @ 1677'. SHS @ 1677'= 1/2 deg. MW 9.4, VIS 36, LCM 3#.

04/26/2014- Drlg @ 2240'. SHS @ 2173'- 3/4 deg. MW 9.4, VIS 36, LCM 3#. Short trip @ 2423.'

04/27/2014- Circ @ 2480'. Get ready for DST #1.

04/28/2014- Circ @ 2510'. Drill on to 2512'. Run DST #2. Run Dual Induction, Neutron-Density & Microlog open hole logs. LTD 2510'.

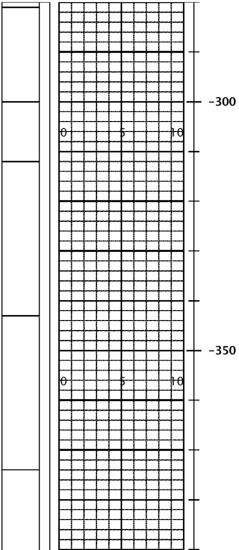
04/29/2014- 2512; TD Run production casing.

REMARKS: CASING JOB: 2512' TD, Ran 61 jts 5-1/2" 15.5#/ft casing, Tally= 2514.47', Set at 2511' KB, 1' off bottom. Circulate 20 minutes. Rig up rotating head, circulate and 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 @ 29 bbl, lift to 600#, land plug @ 1100# @ 9:40 AM. Held. Inset @ 2489'.
(C.Coats, VOC)

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

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

LITH | POROSITY | DRILLING TIME MIN/FT | DST | **SAMPLE DESCRIPTION** | **REMARKS**



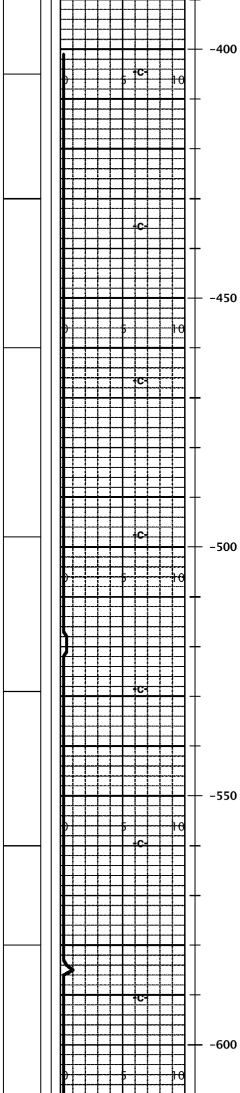
311' spl} Pred SH: vft'd, dk-lt gn-gy & blk, sm carb. Rr LS: tn-gy-cm, sm Pkst, sm Vfnxln, Trc Pr IX Por w/STN.

Pred SH: lt-dk gy & gn-gy, sm lmy & calc. sm LS: gy-tn-wh, sm grnlr Pkst, sm chlky, VRr Tn-STN, mx- fnxln & grnlr Pkst w/Pr- Fr IX Por, IGr Por, <5% w/spt'd-sat STN, Pr mlky Cut, NFO.

343' spl} Pred SH: Vgt'd, gn-gy, mrn-rd, Rr LS: tn, dn- mx-fnx- 2nd ReX, VRr wh-chlky.

374' spl} Pred vgt'd SH: AA.
Rr LS: wh-tn-gy, sm mot Pkst- fos, sm dn Mdst- Wkst w/VPr- NVP, NS.

405' spl} Pred SH: AA, Sl Incrs LS: AA, sm wh-chlky & Pkst- Wkst w/VPr- NVP, NS. sm argil dn Mdst, VPr- NVP, NS.



436' spl} Pred SH: dk-lt gy & gn, sm mrn-rd, sm pyrtc; sm LS: wh-tn-gy, Rr Pkst w/Pr- Fr Por w/NS. Pred VPr- NVP, NS.

467' spl} Pred SH: gy-blk; sm LS: gy-tn, Pred argil, sm fos, Pr- NVP, NS

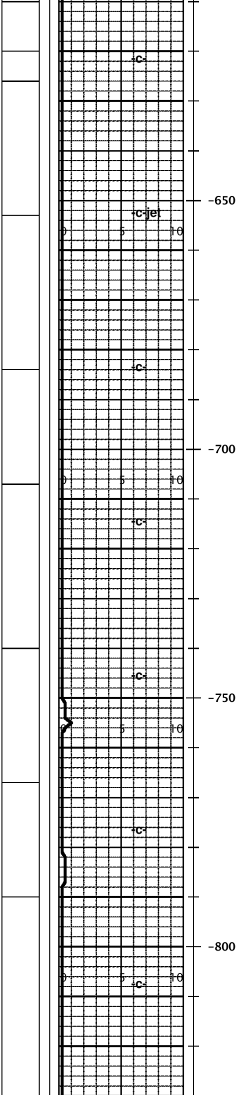
498' spl} Pred SH: gy-blk. sm LS: wh-gy-tn, sm Pkst w/Pr Por; sm chlky, sm argil, NS. Trc prt oomldc w/Frly Gd Por w/NS.

529' spl} Pred SH: gy-blk, sm SILTS; sm LS: wh-gy-tn, sm Pkst w/Pr- Fr Por w/NS. Trc oomldc w/Gd Por, NS. sm chlky, sm dn- argil.

560' spl} SH: AA, Incrs LS: cm-tn-gy, sm ool & fos Pkst-Whst w/Pr Por, NS. Abndt dn Mdst- sm argil, NS.

591' spl} Incrs SH: lt-dk gy-gn, sm blk; sm sndy SILTS: gy, micac, Rr LS: dn & argil, VRr pyrtc- shly.

622' spl} SH: AA & LS: gy dn Mdst & argil & SILTS: lt-dk gy, sm sndy, Vfn- fn Gr'd, calc & sm lmy & micac, VRr Sd Clust: lt gy, Vfn- fn Gr'd, Trc fribl w/Fr- Gd Por w/NS.



653' spl} Pred SH: lt-dk gy & gy-blk, sm carb.

sm LS: gy, argil- silty & sndy SILTS: gy, calc- lmy- sndy VPr- NVP. Trc Sd CLUST: gy-Tn-STN, Vfn Gr'd, silty-shly, Pr Por, Fr FLR & subsat STN, VSl-SFO- Cut.

624' (+729)
ADMIRE 650 (pjr)
{VSl-Fr SFO)

684' spl} VRr (<5%) SD CLUST: Vfn Gr'd- Trc fn Gr'd, silty & sm shly, Pred well cmt'd, sm fribl, pr- Fr Por, subsat- sat FLR & STN, VSl- Fr SFO, VSl Odor & SILTS: gy, micac. & LS: tn-gy-bn, dn- mx & Mdst w/VPr- NVP, argil.

SHS @ 653'=1/4 deg

715' spl} Abndt LS: gy-bn-blk & tn, dn- mx & argil. Pred VPr- NVP w/NS. Trc Tnxln LS w/Pr IX Por, Trc STN. VRr Sd, AA w/FLR- STN- SFO & Cut.

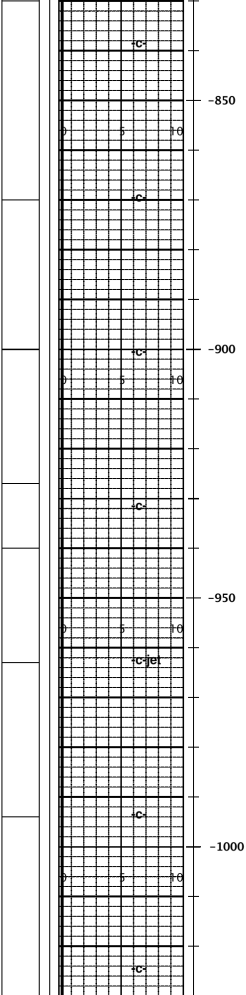
746' spl} Pred gy-blk SH. SILTS: AA. sm LS: tn-gy-cm, Pred dn, sm argil sm sndy w/VPr- NVP.

777' spl} Pred SH: md-dk gy & blk, sm SILTS: gy, sm sndy, sm calc, sm micac. (Trc Sd Clust: AA w/FLR- STN-SFO). Rr LS: tn-gy, dn Mdst & argil Mdst.

808' spl} VAbndt & Pred LS: tn-gy-wh, dn t- chlky, Abndt Mdst, sm Wkst- Pkst, Pr- NVP, NS.

839' spl} SH: AA, Pred LS: tn-wh, dn- chlky, Mdst & sm Wkst- Pkst, Pr- NVP w/NS.

870' spl} LS: AA, sm ool & fos Pkst, Pr- Trc Fr Por w/NS & mx- fnx- 2nd ReX, Pr Por, NS. Pred dn- chlky w/NS. sm SH: vgt'd, Pred gy-blk, sm pyrtc.



901' spl} sm LS: AA, sm argil- dn Pkst- Wkst & SILTS: gy, micac, sm sndy & sm calc.

932' spl} VAbndt LS: AA, wh-tn, Pred dn- prt chlky Mdst-Wkst, Rr Pkst w/Pr- NVP, NS. VRr SILTS: gn-gy, sm sndy.

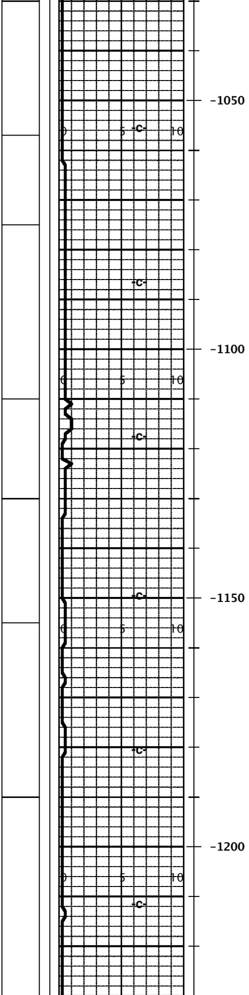
963' spl} Pred LS: AA, sm vgt'd SH: VRr Sdy SILTS & Silty SS: Pred well cmt'd- calc w/VPr- Pr Por w/NS.

994' spl} sm vgt'd SH: gy-gn & blk, mrn-rd.

VAbndt LS: Pred dn- prt chlky, Mdst- Wkst, VPr- NVP, NS. Trc euhedral calc X's, NS.

1026' spl} Abndt LS: AA, Sl Incrs SH: gn-gy & blk.

1056' spl} Pred (~80%) SH: gy-blk; sm calc & lmy, Rr argil LS & SILTS & VRr LS: AA, NS.



1087' spl} Pred SH: dk gy, AA, sm micac SH & SILTS. Rr LS: AA & argil- dn, VPr- NVP, NS.

1118' spl} Abndt SILTS: gy, calc & micac & SH AA. Rr LS.

1150' spl} Abndt DLS- DOLO: Rich Tn-STN & cm-tn, mx-fnxln, Pred sucro w/Fr- Gd IX Por w/sat STN & FLR, VSl SFO & Sl Cut, VSl Odor. & LS: cm-tn, mxln, VPr- Pr visbl Por: pp Por, mIX Por, spt'd STN & FLR & Trc SFO- Cut.

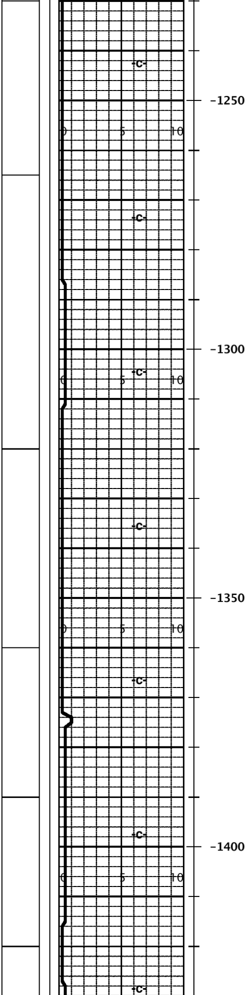
1181' spl} Incrs SH: gy-blk, sm calc & lmy. & LS: wh-tn, prt chlky & dn, Pred VPr- NVP, NS.

1212' spl} LS: gy-wh & tn, Pred dn, prt chlky Mdst, VPr-NVP w/ NS. SH: gy- blk & SILTS.

1243' spl} Abndt LS: tn-wh, Pred dn, prt chlky, sm mx-fnx, Rr Pkst w/VPr- Pr Por w/NS. Pred dn Mdst- Wkst.

{VSl SFO)

1274' spl} Rr DLS- DOLO: bf-tn, mx- Vfnxln, dn & msucro w/Pr- Fr Por, NS. Abndt dn to chlky LS- AA, NS & SH: gy-blk.



1303' spl} Abndt LS: wh-gy-tn, sm mot Pkst- mx- Mdxln, VRr Crs- VCrsX's, Rr Grst, sm Fr- Gd Por: IGr Por, IX Por, vug Por, NS.

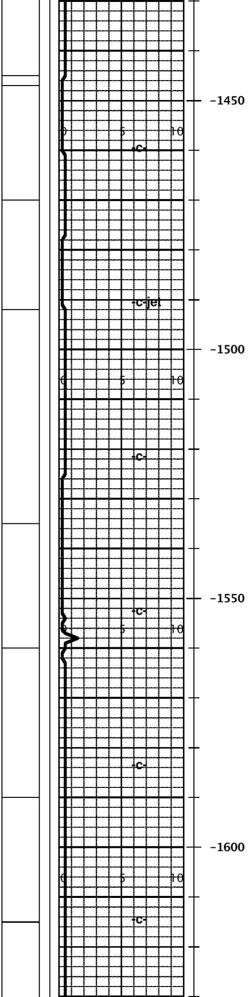
1336' spl} Abndt LS: wh-gy-tn, mot- Pkst- ool & fos, VRr prt oomldc, Pr- Fr visbl Por, VRr Gd visbl Por, sm chlky LS & Abndt dn- VPr- Pr Por w/NS. sm SH: gy-blk & gn-gy.

1367' spl} Pred (~90%) SH: Abndt gy-blk. (sm LS, AA)

1398' spl} Pred (~70%) SH: AA & blk carb. sm LS: gn-gy-bn, dn hd Mdst & gy-wh, semi-chlky, Pr- NVP, NS.

1429' spl} LS: tn-wh, Pred dn- sm chlky, Mdst- Wkst, Rr Pkst, Pr- NVP, NS. Frly Abndt SH: blk carb- Vcarb.

1460' spl} Abndt SH: AA & gy-blk. Pred LS: tn-gy-bn, dn hd Mdst w/VPr- NVP, NS.



1491' spl} SH: gy-blk & SILTS: gy, sm sndy, sm calc, VRr SD CLUST: lt gy, Vfn- fn Gr'd, Pr- Fr IGr Por, NS.

1521' spl} sm LS: tn-gy, dn & argil Mdst- Wkst w/VPr- NVP, NS. Pred SH: gy & blk & gn-gy, sm mrn-rd.

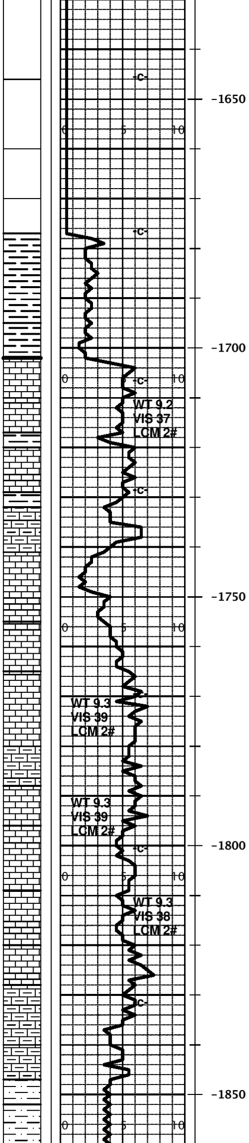
1553' spl} Abndt SILTS: lt gy-bf, sm micac, sm sndy. SS-SD CLUST: lt gy, Vfn- fn Gr'd, silty, micac, well cmt'd to fribl w/Pr- Fr Por & Rr Gd Por w/NS, NF, NC & SH: gy-blk, sm micac.

1584' spl} Pred SH: gy-blk & Abndt SITLS: lt-dk gy, sm sndy & calc- sm lmy.

1615' spl} Pred SH: gy-blk, sm carb, sm micac SILTS & SH.

1646' spl} SH: AA & rd.
Frly Abndt LS: wh-tn-gy, prt chlky, Pred dn Mdst, sm gy, argil, VPr- NVP w/NS.

1677' drlg spl} sm SH: gy-blk, Pred LS: cm-tn-gy, Pred dn Mdst- Wkst, Rr ool Pkst, VPr- NVP, NS.



1677' 15 min spl} Abndt LS: AA, sm SH: gy-blk, sm carb & sm gn-gy.

1680' spl} Pred SH: vgt'd, AA.

1690' spl} SH: Pred gy, micac & AA.

1700' spl} Pred SH: dk gy-blk SH;

***Bit Trip* SHS @ 1677'=1/2 deg**

SH: gy-blk.

{LANSING} LS: gy-bf-wh, dn Mdst- subchlky, VPr- NVP, NS.

1709' (-349)
LANSING

LS: tn-gy-wh, dn Mdst, prt chlky & mx- fnx, VPr- NVP, NS.

SH: gy-blk.

LS: gy-tn-wh, dn Mdst & mx- fnx, VPr- NPV, NS.

LS: AA & argil & SH: gy-blk & rd.

LS: gy-wh & tn, mot Wkst- Pkst, sm ool, sm argil- shly, Pred VPr- NVP.

LS: gy-wh-tn, mot Pkst- ool & cm-tn, mx- fnxln, VRr Fr- Gd IX Por, IGr Por w/NS. sm chlky & Vchlky Pkst w/Fr- Gd Por w/NS.

LS: cm-bf Pkst & chlky LS, Pr- Fr Por, NS. Sl Cherty.

LS: Rr AA- NS. Abndt LS: tn-gy-wh, dn Mdst & chlky, Pred VPr- NVP.

LS: AA, Pred dn Mdst, sm argil- shly.

LS: gy-tn-wh, Pred dn & argil Mdst- Wkst- Pkst w/VPr- NVP, NS.

LS: tn-wh, prt chlky Wkst- Pkst, sm Pr- Fr Por: IGr Por, mx- fnxln w/Pr- Fr IX Por w/NS. VRr prt MdX- 2nd ReX, NS.

LS: AA & tn-gy-wh, prt chlky, sm Pkst, Pr- Fr Por, NS. CHERTY: gy-tn-cm, shrp, IGr Por, vug Por, NS.

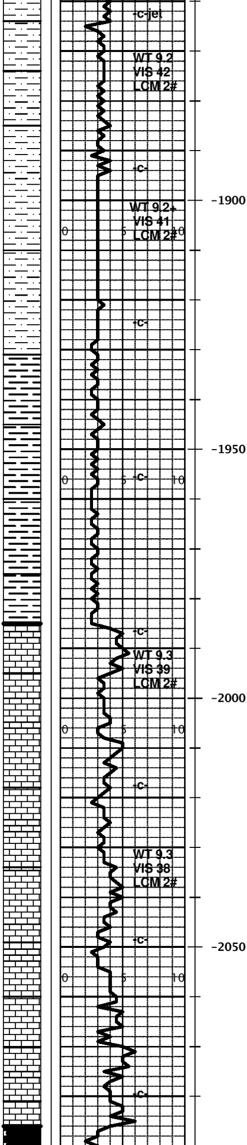
LS: AA & dn- chlky, Sl Cherty, Pr- NVP, NS.

LS: gy-tn-wh, dn- mx- Mdx- 2nd ReX, Pred dn & argil, sm chlky, VPr- NVP.

LS: dn & argil & Vargil, VPr- NVP, NS.

SH- SILTS: gy, calc (VRr LS, AA).

SH- SILTS: lt-md gy, sm calc, sm micac.



SH-SILTS: AA

AA

SH-SILTS: lt-md gy, sm micac, sm calc.

SH-SILTS: lt-md gy, sm calc, sm Sl micac.

AA, Pred SH.

SH: md gy, sm Sl micac.

SH: Pred lt-dk gy & gn-gy.

SH: lt-dk gy, Trc LS,

{KANSAS CITY} LS: tn-gy-wn, sm mot Pkst- Wkst, VPr-Pr Por, >99% barren, Trc FLR-SFO in 2000' spl.

LS: gy-wh-tn, prt chlky, ool & fos Pkst, mx- Mdxln, VRr Crs- VCrsX, Fr Por: IGr Por, IX Por, ~10% w/ lt Tn spt'd-sat STN, ~30% w/spt'd-suibsat brt FLR & VSl- Fr SFO, Sl-Fr Cut, Fr Odor; Pred dn- chlky w/VPr- NVP & SH: gy-blk.

LS: tn-wh Wkst- Pkst & chlky LS w/VPr- Pr Por w/NS. Sl Cherty: wh-gy, shrp.

LS: tn-gy-wh, Pred dn & chlky, sm argil- shly, VPr- NVP, NS. Sl Cherty. & SH: gy-blk, sm carb.

LS: wh-tn-gy, Pred dn- chlky, sm Wkst- Pkst w/Pr visbl Por & NS. VRr ool & prt oomldc w/Pr- Fr Por, NS.

LS: gy-tn-wh, Pred dn- chlky, Rr ool Pkst w/Pr- VPr Por, NS.

LS: wh-gy-tn, Pred dn- chlky, sm mx- fnxln & Pkst w/2nd ReX, & ool w/Pr Por, NS.

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

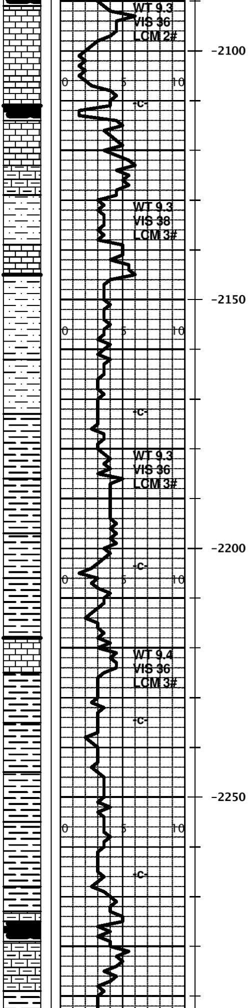
{STARK} SH: gy-blk & blk carb.

1985' (-632)
KANSAS CITY

{VSl- Fr SFO)

2086' (-733)
STARK

MUD CHECKS
by FUD MUD:
WT 9.1+,VIS 38
PV 26,YP 20
WL 8.8,pH 9.0
Cl 1000, LCM 1#



LS: wh-tn, prt chlky & mx- fnxln, sm ool & prt oomldc, VRr Fr- Gd Por: lool & mldc Por, >95% barren w/Pr- Fr visbl Por. Trc Por w/spt'd FLR- Trc SFO-GB

SH: blk carb- Vcarb.

LS: tn-gy-n, mx- Mdxln- 2nd ReX, Trc CrsX's, Trc mFrac-Edg & IX Por w/FLR- Trc SFO.

LS: gy-tn-cm, mot Pkst, ool & fos, VPr- Pr Por, Trc FLR-SFO, >99% barren. sm silty- argil LS.

SILTS: lt-md gy, sndy & calc. & SH: gy-blk.

LS: gy-tn, dn Mdst- Wkst, VPr- NVP.

{BASE KANSAS CITY} SH- SILTS: gy-blk, sm micac.

SH- SILTS: AA, sm pyrtc. (sm LS, AA)

SH: AA & sm lt gy & gn, sm blk Vcarb.

SH: md-dk gy & blk, sm pyrtc, sm lt gn-gy, pyrtc.

SH: AA & lt gn-gy, sm blk carb, Rr pyrtc.

SH: AA & blk carb.

{CHECKERBOARD} LS: cm-gy-tn, dn Mdst- Wkst & mxln-fnx, VPr- NVP, NS.

LS: AA & SH: gy-blk.

SH: gy-blk & dk- lt gn-gy.

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

SH: dk-lt gn-gy & blk, Rr pyrtc, sm calc & lmy.

SH: AA.
& LS: gy-tn, Pred dn Mdst, VP- NVP.

SH: blk carb.

LS: gy-tn, dn & argil Mdst & Wkst, VPr- NVP, NS.

SH: gy-blk & gn-gy.

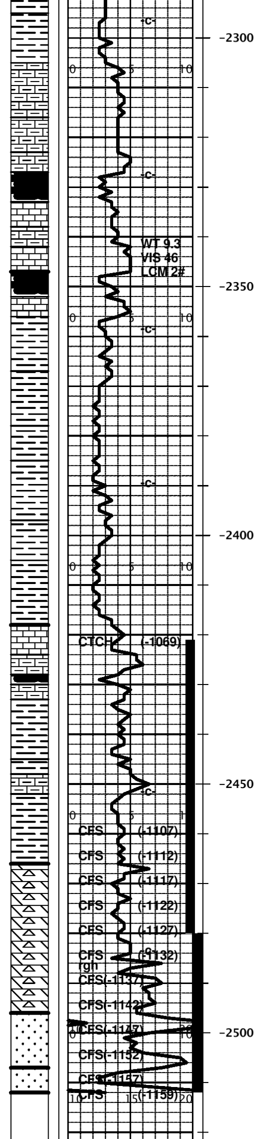
{Trc SFO)

{Trc SFO)

2145' (-792)
BASE KANSAS CITY

SHS @ 2173'=3/4 deg

2218' (-865)
CHECKERBOARD



SH: gy-blk & gn & blk carb.

sm LS: tn-gy-wh, Pred dn Mdst- Wkst, sm argil, VPr- NVP, NS. & SH: AA.

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

LS: AA & sm ool Pkst w/Pr- VPr Por, NS.

SH: blk carb- Vcarb.

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

LS: AA, Pred dn Mdst.

{CHEROKEE} SH: blk carb- Vcarb.

LS: tn-gy dn Mdst.

SH: blk carb & Pred dk gy, sm pyrtc.

SH: vgt'd, gy-blk & dk-lt gy & gn & mrn-rd.

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

SH: Pred gy-blk, sm carb, sm calc & lmy SH.

SH: gy-blk & gn-gy, sm icac, Sl pyrtc.

SH: Pred gy-blk, sm blk carb.

{ARDMORE} LS: ty-tn-wh, dn Mdst-Wkst, NS.

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

SH: blk carb- Vcarb, sm pyrtc, sm lmy & calc SH.

SH: vgt'd, gn & gy & blk & mrn-rd & violt, sm blk carb- Vcarb.

SH: vgt'd & lmy- calc, sm pyrtc, VRr LS: dn mdst- argil- shly.

SH: vgt'd, AA, Incrs gn & sm rd-mrn, sm sndy SH.

{VIOLA} CHERTY DOLO: ~50% w/Fr Por, sat STN- FLR, Fr- Gd SFO, Frly strng Odor.
DOLO: AA, decrs Chert, ~20% CHERT: Pred Fr por- Dolo.

DOLO: rich Tn STN & bf, mx- Vfnxln, prt dn, prt sucro, Fr- Gd Por, Fr- Gd SFO- STN.
DOLO: sm dn silic- sndy, mx- Mdxln w/Fr- Gd IX Por & vug Por, sat STN- FLR, Fr- Gd SFO & Cut.
DOLO: AA, Incrs dn- mx- silic, sm sndy, Vfn- fn Gr'd, VPr Por, ~50% w/Por- STN.
{SIMPSON} SD CLUST: tn-gy-wh, Vfn- Md Gr'd, well rnd'd- subanglr, VRr Fribl w/Fr- Gd Por, subsat- sat STN- FLR, Fr- Gd SFO- Cut.

{SIMPSON SD} SS: Incrs fribl w/Fr- VGd Por w/subsat- sat STN & brt FLR, Fr- Gd SFO, Vfn, Pred md Gr'd, VRr Crs Gr's, well rnd'd- subanglr, Hi- mod sphr, well- Por sort'd,sm Free Sd Gr's, Frly strng Odor.

2347' (-994)
CHEROKEE

2418' (-1065)
ARDMORE
Short Trip

2466' (-1113)
VIOLA
{Fr- Gd SFO)

{Fr- Gd SFO)

{Fr- Gd SFO)
2496' (-1143)
SIMPSON
{Fr- Gd SFO)

2507' (-1154)
SIMPSON SAND
{Fr- Gd SFO)
2512' (-1159)/RTD
2510' (-1157)/LTD

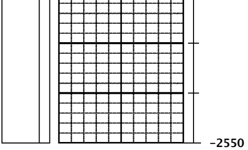
WT 9.4,VIS 35
PV 28,YP 22
WL 8.6,pH 9.5
Cl 1200, LCM 2#

MUD CHECK @
2480'- DST #1
WT 9.5,VIS 54
PV 32,YP 24
WL 8.2,pH 9.0
Cl 1000, LCM 1.5#

@ 2512'-DST #2
WT 9.5+,VIS 62
PV 34,YP 24
WL 7.8,pH 9.0
Cl 900,LCM 1.5#

DST #1 VIOLA
2421'-2480'
30-45-45-90
1st Op: 1/4" blt
to 1-1/4" in 30 min
2nd Op: No blo
Rec: 40' OSM
(<1%O, 99%M)
TOOL SPL:
2%O,98%M
IHP: 1189
IFP: 10-20
ISIP: 73
FFP: 21-29
FSIP: 73
FHP: 1183
BHT: 102 F

DST #2- Lwr
VIOLA/SIMP
2480-2512'
30-45-45-90
1st Op: BOB in
9-1/2 min, No BB
2nd Op: No blo,
No BB
Rec:
190' HWCM
w/Ospks
(<48%W,>52%M)
<1% Oil



VESS OIL CORP
LISTER 'A' #39
1650'FSL & 600'FEL
Sec 32-25S-05E
BUTLER CO., KS
API#15-015-24021

TOOL SPL:
51%W,48%M
1%O
IHP: 1193
IFP: 16-96
ISIP: 108
FFP: 98-105
FSIP: 108
FHP: 1201
BHT: 101 F

DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Lister A 39 Dst 1

TIME ON: 08:50
TIME OFF: 16:56

Company Vess Oil Corp
Lease & Well No. Lister A 39
Contractor C & G Drilling
Charge to Vess Oil Corp
Elevation KB:1353 GL:1347 Formation Viola Effective Pay ____ Ft. Ticket No. RR024
Date 04/27/2014 Sec. 32 Twp. 25 S Range 5E W County Butler State KANSAS
Test Approved By ____ Diamond Representative Ricky Ray

Formation Test No. 1 Interval Tested from 2421 ft. to 2480 ft. Total Depth 2480 ft.
Packer Depth 2416 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
Packer Depth 2421 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 2402 ft. Recorder Number 5515 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 2457 ft. Recorder Number 5586 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth ____ ft. Recorder Number ____ Cap. ____ P.S.I.

Mud Type Chem Viscosity 54 Drill Collar Length 177 ft. I.D. 2 1/4 in.
Weight 9.5 Water Loss 8.2 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in
Chlorides 1000 P.P.M. Drill Pipe Length 2211 ft. I.D. 3 1/2 in
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in
Did Well Flow? NA Reversed Out NA Anchor Length 59 A (28P) ft. Size 4 1/2-FH in
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 1 1/4 in 30 mins. NOBB
2nd Open: NO Blow NOBB

Recovered 40 ft. of Mud With Oil Scum (< 1%O > 99 % M)
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 ____
Insurance ____
Total ____

Time Set Packer(s) 11:12 AM A.M. P.M. Time Started Off Bottom 2:42 PM A.M. P.M. Maximum Temperature 102
Initial Hydrostatic Pressure.................................... (A) 1189 P.S.I.
Initial Flow Period.................... Minutes 30 (B) 10 P.S.I. to (C) 20 P.S.I.
Initial Closed In Period.................... Minutes 45 (D) 73 P.S.I.
Final Flow Period.................... Minutes 45 (E) 21 P.S.I. to (F) 29 P.S.I.

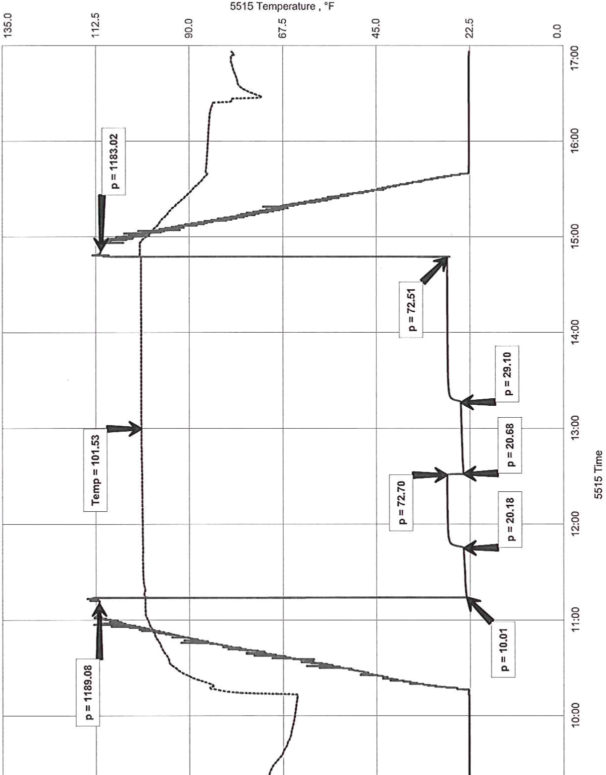
Final Closed In Period....................................Minutes 90 (G) 73 P.S.I.

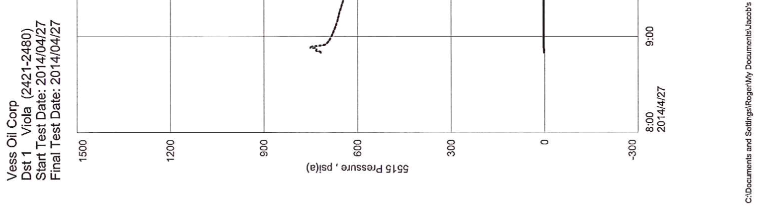
Final Hydrostatic Pressure.. (H) 1183 P.S.I.

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.

Lister A 39

Lister A 39
Formation: Dst 1 Viola (2421-2480)
Pool: Infield
Job Number: RR024





DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: Lister A 39 Dst 2

TIME ON: 10:11
TIME OFF: 18:50

Company Vess Oil Corp Lease & Well No. Lister A 39
Contractor C & G Drilling Charge to Vess Oil Corp
Elevation KB:1353 GL:1347 Formation Viola Effective Pay Ft. Ticket No. RR024
Date 04/28/2014 Sec. 32 Twp. 25 S Range 5E W County Butler State KANSAS
Test Approved By Diamond Representative Ricky Ray

Formation Test No. 2 Interval Tested from 2480 ft. to 2512 ft. Total Depth 2512 ft.
Packer Depth 2475 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
Packer Depth 2480 ft. Size 6 3/4 in. Packer depth -- ft. Size 6 3/4 in.
Depth of Selective Zone Set

Top Recorder Depth (Inside) 2461 ft. Recorder Number 5515 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 2484 ft. Recorder Number 5586 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

Mud Type Chem Viscosity 54 Drill Collar Length 177 ft. I.D. 2 1/4 in.
Weight 9.5 Water Loss 8.2 cc. Weight Pipe Length -- ft. I.D. 2 7/8 in
Chlorides 1000 P.P.M. Drill Pipe Length 2270 ft. I.D. 3 1/2 in
Jars: Make STERLING Serial Number 4 Test Tool Length 33 ft. Tool Size 3 1/2-IF in
Did Well Flow? NA Reversed Out NA Anchor Length 32 ft. Size 4 1/2-FH in
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 BOB in 9 1/2 mins NOBB
2nd Open: NO Blow NOBB

Recovered 10 ft. of HWCM (< 32 % W > 68 % M) w/oil scum < 1% O
Recovered 180 ft. of HWCM (< 48% W > 52% M) w/oil specks <1%O
Recovered 190 ft. of Total Fluid
Recovered ft. of
Recovered ft. of PH: 8 RW .51 @ 64 Deg
Recovered ft. of Chlorides: 15.000 PPM
Remarks:

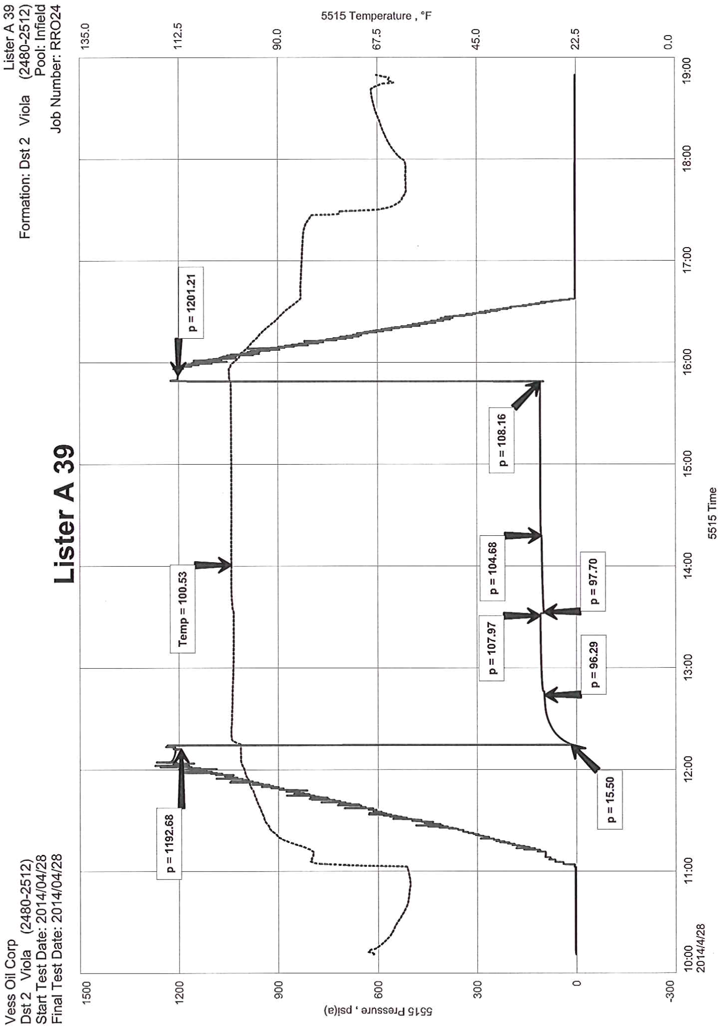
TOOL SAMPLE: 1% O 51% W 48% M

Price Job
Other Charges
Insurance
Total

Time Set Packer(s) 10:11 AM A.M. P.M. Time Started Off Bottom 3:44 PM A.M. P.M. Maximum Temperature 101
Initial Hydrostatic Pressure.......... (A) 1193 P.S.I.
Initial Flow Period.......... Minutes 30 (B) 16 P.S.I. to (C) 96 P.S.I.
Initial Closed In Period.......... Minutes 45 (D) 108 P.S.I.
Final Flow Period.......... Minutes 45 (E) 98 P.S.I. to (F) 105 P.S.I.

Final Closed In Period.....................................Minutes 90 (G) 108 P.S.I.

Final Hydrostatic Pressure.. (H) 1201 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.