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

# GEOLOGIST'S REPORT
## DRILLING TIME AND SAMPLE LOG

**COMPANY** VESS OIL CORPORATION
**LEASE** AUGUSTA UNIT #8-63
**FIELD** AUGUSTA
**LOCATION** 1500' FSL & 150' FEL
**SECTION** 10 **TOWNSHIP** 28S **RANGE** 04E
**COUNTY** BUTLER **STATE** KANSAS

### ELEVATIONS

**KB** 1276' **GL** 1270'
**Measurements Are All From** KB
**API** 15-015-23978

**CONTRACTOR** C&G DRILLING, Rig #1
**SPUD** 05/15/2013 **COMP** 05/21/2013
**RTD** 2583' (-1307) **LTD** 2583' (-1307)

### ELECTRICAL SURVEYS

No Open Hole E-logs

### CASING

**SURFACE** 8&5/8" set @ 261' KB w/150 sx Class A, 3% CC
**PRODUCTION** 62 jts 5&1/2" J-55 set @ 2582' KB w/125 sx Thickset.

| FORMATION TOPS | LOG | SAMPLES |
|---|---|---|
| OREAD | 1421' (-145) | 1428' (-152) |
| HEEBNER | 1461' (-185) | 1468' (-192) |
| DOUGLAS SH | 1499' (-223) | 1505' (-229) |
| IATAN | 1686' (-410) | 1687' (-411) |
| LANSING | 1738' (-462) | 1740' (-464) |
| BASE LANSING | 1940' (-664) | |
| KANSAS CITY | 2055' (-779) | 2057' (-781) |
| STARK | 2173' (-897) | 2175' (-899) |
| HERTHA | 2206' (-930) | 2206' (-930) |
| BASE KANSAS CITY | 2264' (-988) | 2265' (-989) |
| CHECKERBOARD | 2296' (-1020) | 2296' (-1020) |
| HEPLER SD | 2314' (-1038) | 2316' (-1040) |
| ALTAMONT | 2352' (-1076) | 2354' (-1078) |
| CHEROKEE SH | 2435' (-1159) | 2437' (-1161) |
| ARDMORE | 2503' (-1227) | 2504' (-1228) |
| CHEROKEE SD | 2521' (-1245) | 2520' (-1244) |
| UPPER SIMPSON SD | 2562' (-1286) | 2563' (-1287) |
| BASAL SIMPSON SD | 2576' (-1300) | 2576' (-1300) |
| LTD/RTD | 2583' (-1307) | 2583' (-1307) |

### CHRONOLOGY

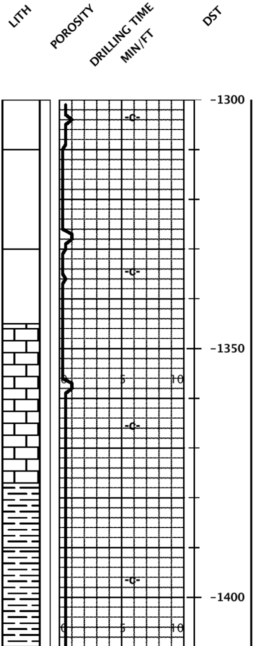
05/14/2013- MIRU C&G Drilling Rig #1. Drill rathole. 2- 500 bbl frac tanks for fresh water.
05/15/2013- Spud 12 1/4" hole @ 7 AM. TD 12 1/4" hole @ 264' @ 4 PM. Run 6 jts 8 5/8" 23#/ft LS casing. Tally= 253', Set @ 261' KB. CONSOLIDATED: 150 sx Class A, 3% cc. Circulate cement, Plug down @ 5:10 PM
05/16/2013- Drilling @ 960' w/PDC bit. Drill under surface @ 1:15 AM.
05/17/2013- Drilling @ 1920'. Lost circulation @ 1459' & 1492'. MW 9.1, VIS 36, LCM 5#. Bit trip, changing from PDC to button bit @ 1988'. 1988' MW 9.1, VIS 38, WL 10.8, LCM 6#.
05/18/2013- DTD 2080'. Circ to start drilling. 2100' MW 9.2, VIS 38, WL 10.2, LCM 4.5#. DST #1 2063'-2080' Kansas City.
05/19/2013- Circ @ 2546'. 2566' MW 9.3, VIS 51, WL 9.6, LCM 4#. DST #2 2511'- 2567' Cherokee & Upper Simpson.
05/20/2013- Circ @ 2569'. DST #3 2510'-2583' Cherokee to Basal Simpson Sd.
05/21/2013- RTD 2583'. Law down to run casing.

CASING JOB: Ran 62 jts 5 1/2" 15.5# J-55 LT&C casing, Tally= 2585.44', plus float shoe= 1.00'. Total= 2586.44'. Tagged TD @ 2583', Set @ 2582. Put on 6 centralizers & 2 baskets. CONSOLIDATED SERVICES: pump 500 gal mud flush. Cemented w/125 sx Thickset cement. Caught pressure @ 33.5 bbl. Gd circ of mud. Lift pressure to 500#. Land plug @ 1000# @ 1:20 PM 05/21/2013. Release, it held. Set slips and cut off casing.

**REMARKS:**

* Cased hole E-log tops picked by P.Ramondetta, Geologist, VOC
xx 1' off of board @ 2577'

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



**SAMPLE DESCRIPTION**

LS: tn-gy-wh, Pred dn- chlky & mx- fnx w/Pr- NVP & NS. (1304' spl)

VAbndt SH: blk carb- Vcarb & dk gy-blk subcarb.
LS: AA, & wh-tn-gy, mx- fnxln, sm 2nd ReX, VRr Fr- Gd vug Por w/ NS. (1336' spl)

LS: dk-lt gy, argil & shly & mx- fnx.
& SH: gy-blk & gn-gy, sm lmy & calc. (1366' spl)

LS: wh-tn, mx- fnxln, prt chlky, sm fos Pkst, Pred Pr- VPr Por w/ NS. VRr Fr- Gd visbl & aprnt Por w/ NS. (1366' spl)

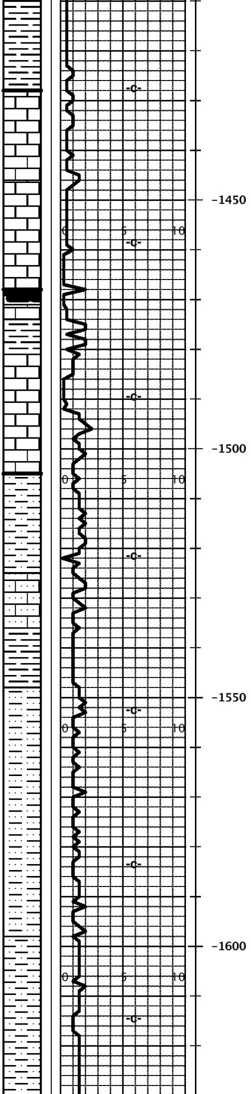
LS: tn-gy-wh, Pred dn- mx- fnx, sm chlky, Pred Pr- NVP VRr Fr- Gd Por. NS. (1397' spl)

Frly Abndt SH: gn-gy & blk & mrn, sm pyrtc. (~50% SH-SILTS) (1397' spl)

VAbndt SH: (~95%) dk gy-blk, sm pyrtc. (1428' spl)

**REMARKS**

**DRILLING W/PDC BIT**
**KELLY DOWN SAMPLES**



SH: AA. (>90% LS in 1459' spl)

{OREAD} LS: cm-tn, mx- fnxln, sm 2nd ReX, prt chlky, VRr md- Vcrs 2nd ReX; sm fos & sm grnlr Pkst. (1459' spl)

LS: bf-gy-wh, Pred dn to chlky, sm grnlr Pkst w/Pr- Fr Por, NS.

{HEEBNER} SH: blk carb- Vcarb.

LS: AA, Pred dn.

SH: gn-gy.

LS: cm-tn-gy, mx- fnx, VRr md- crsX's- 2nd ReX, sm fos Pkst, sm Fr- Gd Por, NS. (1522' spl)

{DOUGLAS} SILTS- SH: lt-dk gy, micac, sm sndy, sm lmy & calc. (1553' spl)

SILTS: gy calc, sndy. sm sndy- silty argil LS w/Sd Clust: lt gy, Vfn- fn Gr'd, sm frilbl, Fr Por, NS. (1584' spl)

SH: gy-blk, sm micac. (1584' spl)

SS- SD CLUST: Vsilty, Vfn Gr'd, VPr- Pr Por, NS. sm Vcalc, micac.
SILTS: lt-dk gy, sm sndy, micac, sm calc. (1615' spl)

Pred SH: gy-blk, sm SILTS, AA. (1646' spl)

**1428' (-152)**
**OREAD**

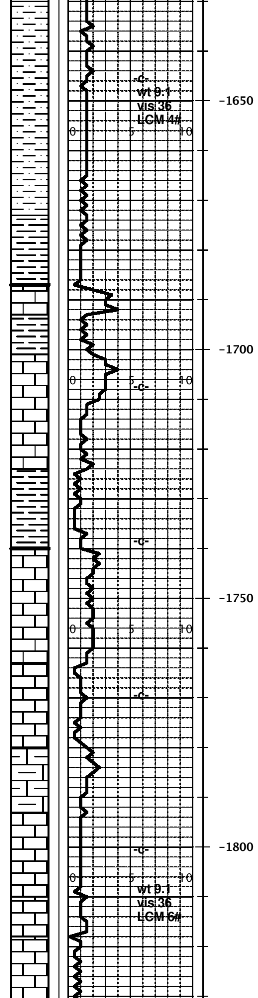
**LOST CIRCULATION**

**1468' (-192)**
**HEEBNER**

**LOST CIRCULATION**

**1505' (-229)**
**DOUGLAS SH**

**MIX MUD**



SILTS: lt-dk gy, sm dny, micac. & SH: AA. (1677' spl)

Pred SH: gy-blk, sm blk subcarb- carb.

**1687' (-411)**
**IATAN**

{IATAN} LS: gy-tn-wh, dn- mx- fnx, VRr Mdx- 2nd ReX, sm prt chlky, VPr- NVP. (1739' spl >90% LS)

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

LS: gy-tn-bn, dn- hd & mx- Mdx- 2nd ReX, sm argil & shly, VPr- NVP, NS.

sm SH: Pred gy-blk.

**1740' (-464)**
**LANSING**

{LANSING} LS: tn-gy-wh, Pred dn & prt chlky w/Pr- NVP.

LS: cm-tn, gy-wh, mx- fnxln, Abndt fn oomldc & sm fos w/Fr- Gd Por: mldc Por, pp- vug Por, IX Por. ~5% w/spt'd- subsat FLR & VSl- Sl SFO & lt Tn OSTN, Pr- Fr Cut, VSl Odor. ~95% barren Por.

**{VSl- Sl SFO)**

LS: gy-tn-wh, Pred dn- chlky w/Pr- NVP, sm argil & Rr SH.

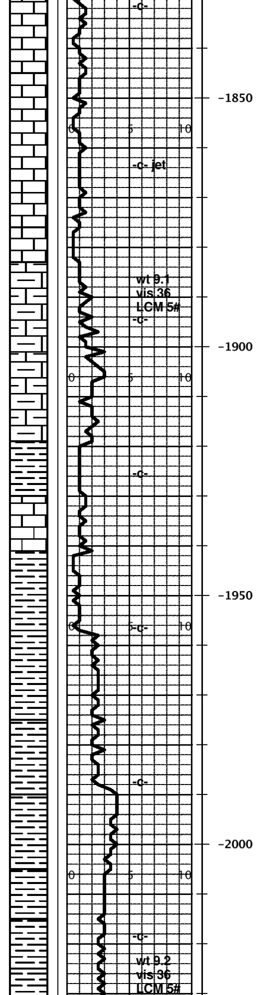
LS: gy-tn-wh, mx- fnx, sm mot Pkst, pp Por, IGr Por, IX Por w/ <5% AA, VSl- SlSFO, VRr FLR, VSlSFO & STN, VSl Cut.

**{VSl- Sl SFO)**

LS: tn-gy-wh, Pred dn to chlky.

LS: wh-tn-gy, prt chlky & grnlr Pkst & mx- fxln, Pr- Fr Por: IGr Por, IX Por, mldc Por. <5% w/spt'd- subsat brt FLR & VSl- Sl SFO. (1864' spl)

**{VSl- Sl SFO)**



LS: sm AA & Pred wh-tn-gy, prt chlky & prt dn w/Pred VPr- NVP.

LS: dk gy-bn-tn, Pred dn- mx w/ VPr- NVP. (1895' spl)

LS: tn-gy-wh, sm mot Pkst & mx- fnx, Pr visbl Por: IX por, IGr Por, pp Por, NS.

LS: dk-md gy-bn-tn, dn- mx- VPr- NVP, argil & shly. (1926' spl)

LS: gy-bn-tn, sm mot, argil & shly & dn- mx- Mdx, VPr- NVP. & SH: gy-blk & gn-gy, sm lmy.

SH: AA, Pred gy-blk.

LS: (shrp Incrs in 1957' spl) gy-tn-wh, sm mx- fnxln, prt chlky, sm dn & argil, VPr- NVP, NS.

VAbndt SH: dk-lt gy-blk, sm calc, sm micac, Rr pyrtc. (1988' spl)

SH: AA, Rr blk carb.

SH: gy-blk & gn-gy, sm micac, sm calc.

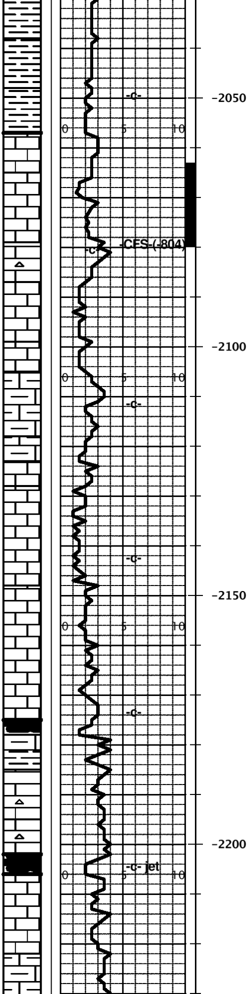
SH: AA, Pred dk gy.

SH- SILTS: lt-dk gy, micac.

SH: md-dk gy, sm calc.

**BIT TRIP @ 1988'**
**TIH w/TRICONE BIT**
**10' SAMPLES**

**SHS @ 1988'= 1/2 degree**
**MUD CHECKS**
**by FUD MUD:**
**WT 9.1, VIS 38**
**PV 24, YP 18**
**Wl 10.8, pH 8.5**
**Cl 1100, LCM 6#**



SH: dk-lt gy & gn-gy.

SH: AA, sm mrn-rd.

{KANSAS CITY} LS: (Abndt in 2070' spl) ~50% LS: gy-tn-wh, mot, dn-mx- Vfnx, sm argil.

LS: cm-tn & gy, mx- fnxln, Rr Mdx- VcrsX's- 2nd ReX, ~25% grnlr & fragmntl Pkst w/ Fr- Gd Por: IGr Por, Iool Por & fos & IX Por, VRr mldc Por w/subsat- sat brt FLR & lt Tn STN, Fr- Gd SFO, Strng Odor, Fr- Gd Cut.

LS: cm-bf, mx- Vfnxln, <5% w/ mFrc Por, FLR, Sl SFO, Sl Odor, sm dry FLR & VLt STN, mIX Por, mIFos Por, I Gr Por, sm subchlky. Sl CHERTY:cm-bf-tn, shrp, frsh.

LS: AA, Trc Fr Por, <5% w/spt'd FLR- STN, VSl SFO, VSl Odor.

LS: AA, Pred barren w/Pr- NVP.

LS: gy-tn, dn Mdst- Wkst, VPr- NVP. sm Pkst w/VPr- Pr Por w/ NS.

Incrs SH: gy-blk & blk carb.

LS: AA, Pred dn to Pr Por w/ NS.

LS: cm-bf, mxln- fnx, VRr prt Mdx- 2nd ReX, sm subchlky, sm grnlr Pkst w/ sm Fr- Gd mIX Por & mIGr Por, Trc (<1%) FLR- SFO. >99% barren. sm Iool & Ifos Por.

LS: tn-cm, Pred dn- mx- fnx w/ VPr- NVP. sm Wkst- Pkst w/ sm 2nd ReX & VRr Pr- Fr Por: IGr Por, IX Por, sm fos, prt chlky, Sl Cherty w/Pr- Trc Fr Por. <5% w/ FLR & Trc SFO, wet & dry FLR.

{STARK} SH: gy-blk subcarb- Vcarb.

LS: gy, dn- argil Mdst.

SH: gy-blk & gn-gy.

LS: gy-tn-wh, sm mot, mx- fnx, sm grnlr Pkst- Wkst w/ Pr- Fr Por: pp Por, IGr Por. <5% w/spt'd- sat FLR & VSlSFO- Trc STN & Cut, prt chlky, Sl Cherty.

Abndt dn to VPr Por Mdst- Wkst, Trc mFrc & Por w/FLR, Trc SFO.

{HUSHPUCKNEY} SH: blk carb- Vcarb.

{HERTHA} LS: tn-gy-wh, mx- fnx, VRr md- crs X's- 2nd ReX, sm Pkst, prt chlky, VPr- Pr IX & IGr Por. <5% w/spt'd- subsat FLR, Trc SFO- STN & Cut, VSl Odor.

LS: gy-tn, dn hd Mdst, sm argil, VPr- NVP w/NS & dk gy Vargil Mdst w/gy- blk SH: sm Vcalc & lmy.

**2057' (-781)**
**KANSAS CITY**

**{Fr- Gd SFO)**

**{Sl SFO)**

**{VSl SFO)**

**{Trc SFO)**

**{Trc SFO)**

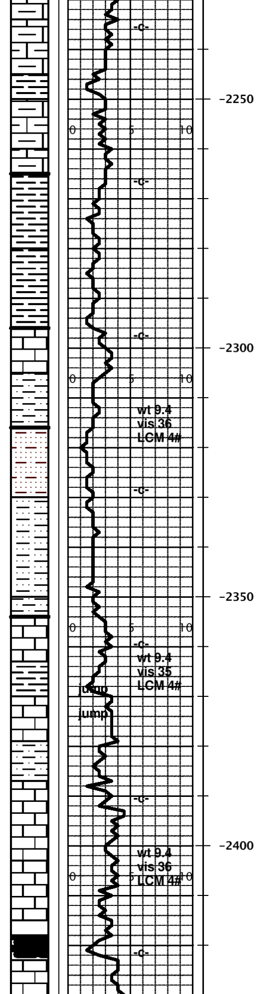
**2175' (-899)**
**STARK**

**{VSl SFO)**

**MIX MUD**
**2206' (-930)**
**HERTHA**
**{Trc SFO)**

**DST #1 LKC**
**2063'-2080'**
**30-45-45-60**
**1st Op: Tool slid, pkr seat leaked briefly: BOB, bled off, rebuilt to 11"**
**2nd Op: blt to 11.5"**
**Rec: 460' TF:**
**283' WM (1%W,99%M)**
**177' MW (75%W,25%M)**
**Cl 48,000**
**TOOL SPL: 99%W,1%M**
**IHP: 990**
**IFP: 159-188**
**ISIP: 535**
**FFP: 192-235**
**FSIP:508**
**FHP: 971**
**BHT: 98 F**

**WT 9.2+, VIS 38**
**PV 26, YP 20**
**WL 10.2, pH 9.0**
**Cl 1000, LCM 4.5#**



LS: AA, Incrs dn argil Mdst.

SH: gy-blk, sm carb.

LS: dk-md gy-tn-cm, dn- mx- Rr fnx- 2nd ReX, VSl fos, VPr- NVP w/NS; sm shly- argil.

LS: dk gy-bn argil Mdst. Sl Cherty.

**2265' (-989)**
**BASE KANSAS CITY**

{BASE KANSAS CITY} SH: gy-blk, sm carb. (Shrp Incrs SH in 2280' spl)

SH: VAbndt AA, blk subcarb- carb, sm pyrtc.

SH: gy-blk, sm carb & gn-gy VC.

**2296' (-1020)**
**CHECKERBOARD**

{CHECKERBOARD} LS: cm-tn-gy, dn- mx, sm Wkst-Pkst, VPr- NVP w/NS. (Abndt LS: AA in 2310' spl)

SH: blk carb- subcarb & gn-gy SH & SILTS.

**2316' (-1040)**
**HEPLER SD**

{HEPLER} SS- SILTY SD CLUST: lt gy & gn-gy, Vfn Gr'd, well cmt'd- fribl w/Pr- Fr Por w/ NS, NF, NC. micac & SILTST: lt gy, gn-gy, sndy, micac w/SH: gn-gy & blk.

sm SD CLUST: AA, Pred SILTS & SH. Rr SD CLUST: gy, Vfn Gr'd, silty & shly w/VPr- Pr Por, NS. NF. NC.

Pred SILTS- SH: AA.

**2354' (-1078)**
**ALTAMONT**

{ALTAMONT} LS: cm-tn, mx- fnx & gn-gy dn Mdst- sm argil, VPr- NVP w/ NS, Sl pyrtc. (2380' spl)

SH: blk subcarb- Vcarb & gy SH. (2380' spl)
& LS: gy, dn & argil Mdst.

LS: tn-gy-bn & cm, mot Pkst- ool & fos & mx- fnx w/VRr Md- VcrsX's- 2nd ReX, Pred Pr- NVP w/ NS.

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

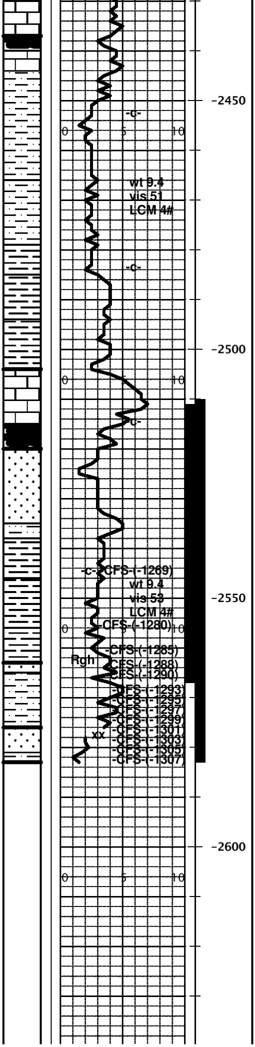
LS: tn-gy-wh, sm mot, mx- dn Mdst- Wkst w/VPr- NVP, NS.

LS: dk gy-tn, dn- mx- vRr Mdx- 2nd ReX & dk gy argil Mdst, VPr- NVP, NS.

LS: AA, argil- dn & mx- fnx.

SH: blk subcarb- Vcarb.

LS: cm-tn-gy, dn- mx- fnx, VPr- NVP, sm wh-chlky, NS.



LS: tn-gy, dn hd Mdst & mx w/VPr- NVP.

{CHEROKEE SH} SH: shrp Incrs blk carb- Vcarb.
LS: tn-gy, dn mx- fnx & argil Mdst.

SH: Rr blk carb, Abndt SILTS- SH: gn-gy, sm sndy & micac.
sm SD CLUST: lt gy & gn-gy, silty, Vfn Gr'd, well cmt'd to fribl w/Pr- Fr Por w/ NS, NF, NC.

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

SH: gy- blk.

SH: dk gy to blk, subcarb- carb, sm Vcalc & lmy, sm pyrtc.

SH: AA.

{ARDMORE} LS: gy-tn & tn-bn, dn Mdst & mx- dn w/ NVP. sm Sl argil- Sl shly Mdst.

SH: blk subcarb- carb & gy SILTS- SH.

{CHEROKEE SD} SD CLUST: gy, Tn-bn STN, Vfn- fn Gr'd, Pred well cmt'd, Rnd'd- subanglr Gr's, sm Lwr Md Gr's, silty, micac, sm shly, Pr- Fr IGr Por, >5% <10% w/ spt'd- sat Tn-bn STN & dull Gld FLR, Fr- Gd SFO, sm gsy, sm squr Oil, Fr- Gd Cut, Frly Strng Odor.

SILTS: lt- md gy, micac, sm sndy: Vfn- fn Gr'd.

SH: dk-lt gn-gy & mrn-rd, sm wxy.

SH: lt-dk gy & gn-gy & mrn-rd VC, sm wxy, sm violet-rd.

SH: VC, AA, Pred lt gy & gn-gy, sm pyrtc.
{UPPER SIMPSON SD} VRr Sd Clust in 2564' spl: gy-Tn-bn STN, Vfn- fn Gr'd w/Rr prt Md Gr'd, Rnd'd- anglr, well cmt'd- silty- shly, Pr- Fr Por w/spt'd- sat STN- FLR, Fr SFO. (After DST #2} Pred SH: lt- dk gy & gn & mrn-rd, violt,sm Turq-gn SIMP SH, sm pyrtc & SS- SD CLUST: gy-Tn STN & gn-gy, Vfn Gr'd, shly w/Turq-gn SH- VPr- Pr Por, Pred subsat- sat STN- FLR- SFO.{BASAL SIMPSON SD} (2577' 20 min} change in SD CLUST: Pr sort'd, Vfn-crs Gr'd,, Pred fn- md Gr'd w/sm crs Gr's, well rnd'd-anglr, Pred rnd'd- subanglr, well cmt'd- subfribl w/Pr- Fr Por, VRr Gd Por, Pred sat STN & FLR, Fr- Gd SFOil-Gsy, Fr- Gd Cut, Strng Odor. (2579' 20 min} SD CLUST: bf-Tn- STN, fn- Vcrs Gr'd, well rnd'd- anglr, Pred fribl & subfribl w/Fr- Gd Por, sat lt STN & FLR, Fr- Gd SFO & Cut. (2581' 20 min} Pred SH: AA & Rr SD CLUST: fn Gr-crs, Pr sort'd AA w/sat STN- FLR,Fr- Gd SFO, Frly Strng Odor. (2581' 40 min} AA, Pred SH, VRr Sd Clust, AA.

**2437' (-1161)**
**CHEROKEE SH**

**2504' (-1228)**
**ARDMORE**

**2520' (-1244)**
**CHEROKEE SD**
**{Fr- Gd SFO)**

**2563' (-1287)**
**UPPER SIMP SD**
**{Fr SFO)**

**2576' (-1300)**
**BASAL SIMP SD**
**{Fr- Gd SFO)**
**2583' (-1307)**
**LTD/RTD**
**SHS@2583'=1/2 deg**

**VESS OIL CORP**
**AUGUSTA UNIT8-63**
**1500' FSL & 150' FEL**
**Sec 10-28S-04E**
**BUTLER CO., KS**
**API#15-015-23978**

**DST #2**
**CHEROKEE**
**2511'-2567'**
**30-45-45-60**
**1st Op: Strng 2" blow,**
**Incrs to 5", dead in 22", No BB**
**2nd Op: No blow, flush tool, 5" surge**
**of bbl, died to VWk intermittent SB, No BB**
**Rec: 160' M (Oil odor)**
**TOOL SPL: 100%M**
**IHP: 1233**
**IFP: 48-61**
**ISIP: 761**
**FFP: 63-104**
**FSIP: 755**
**FHP: 1205**
**BHT: 105 F**

**DST #3 SIMPSON**
**2510'-2583'**
**30-45-45-60**
**1st Op: 4" to BOB in 2.5 min, No BB**
**2nd Op: 1" to BOB in 4 min, No BB**
**Rec: 976' TF:**
**42' GIP**
**56' CGO**
**(gravity 33.4)**
**584' GSPCWM**
**(4%G,6%O, 40%W,50%M)**
**336' GVSOCMW**
**(1%G,95%W, thin Oil scum)**
**Cl 18,000**
**TOOL SPL:**
**2%G,5%O, 92%W,1%M**
**IHP: 1226**
**IFP: 58-261**
**ISIP: 878**
**FFP: 274-450**
**FSIP: 871**
**FHP: 1206**
**BHT 109 F**

**MUD CHECK**
**@ 2566':**
**WT 9.3+,VIS 51**
**PV 32, YP 22**
**WL 9.6, pH 9.0**
**Cl 900, LCM 4#**

# DIAMOND
# TESTING

## Pressure Survey Report

## General Information

| | | | |
|---|---|---|---|
| Company Name | VESS OIL CORP | Job Number | M502 |
| Well Name | AUGUSTA UNIT #8-63 | Representative | MIKE COCHRAN |
| Unique Well ID | DST#1 2063-2080 KC | Well Operator | VESS OIL CORP |
| Surface Location | SEC.10-28S-4E BUTLER CO.KS. | Report Date | 2013/05/18 |
| Field | WILDCAT | Prepared By | MIKE COCHRAN |
| Well Type | Vertical | Qualified By | ROGER MARTIN |
| | | Test Unit | NO. 1 |

## Test Information

| | | | |
|---|---|---|---|
| Test Type | CONVENTIONAL | | |
| Formation | DST#1 2063-2080 KC | | |
| Test Purpose (AEUB) | Initial Test | | |
| Start Test Date | 2013/05/17 | Start Test Time | 21:55:00 |
| Final Test Date | 2013/05/18 | Final Test Time | 05:45:00 |
| | | Well Fluid Type | 01 Oil |
| Gauge Name | 0063 | | |
| Gauge Serial Number | | | |

## Test Results

Remarks RECOVERED:

283' WM 1% WTR 99% MUD
177' MW 75% WTR, 25% MUD
460' TOTAL FLUID

CHLOR: 48,000 PPM
PH:7.0
RW: .15 @ 68 DEG

TOOL SAMPLE: 99% WTR, 1% MUD

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

**DRILL-STEM TEST TICKET**

FILE: AGSTUNT8-63DST1

TIME ON: 2155 (5/17)

TIME OFF: 0545 (5/18)

Company VESS OIL CORP Lease & Well No. AUGUSTA UNIT #8-63

Contractor C&G RIG 1 Charge to VESS OIL CORP

Elevation 1276 KB Formation KC Effective Pay Ft. Ticket No. M502

Date 5/17/2013 Sec. 10 Twp. 28 S Range 4E W County BUTLER State KANSAS

Test Approved By ROGER MARTIN Diamond Representative MIKE COCHRAN

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Formation Test No. 1 Interval Tested from 2063 ft. to 2080 ft. Total Depth 2080 ft.

Packer Depth 2058 ft. Size 6 3/4 in. Packer depth N/A ft. Size 6 3/4 in.

Packer Depth 2063 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.

Depth of Selective Zone Set

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Top Recorder Depth (Inside) 2065 ft. Recorder Number 0063 Cap. 6,000 P.S.I.

Bottom Recorder Depth (Outside) 2077 ft. Recorder Number 6884 Cap. 6,275 P.S.I.

Below Straddle Recorder Depth ft. Recorder Number Cap. P.S.I.

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Mud Type CHEM Viscosity 53 Drill Collar Length 177 ft. I.D. 2 1/4 in.

Weight - Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 1,100 P.P.M. Drill Pipe Length 1859 ft. I.D. 3 1/2 in

Jars: Make STERLING Serial Number 1 Test Tool Length 27 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 17 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: BOB RIGHT AWAY, SEAT PACKERS RELIEVE PRESSURE, THEN A WSB INC. TO 11" (NO BB)

2nd Open: WSB, INC. TO 11½" (NO BB)

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Recovered 283 ft. of WM 1% WTR 99% MUD

Recovered 177 ft. of MW 75% WTR, 25% MUD

Recovered 460 ft. of TOTAL FLUID

Recovered ft. of CHLOR: 48,000 PPM

Recovered ft. of RW: .15 @ 68 DEG

Recovered ft. of PH: 7.0

Remarks: TOOL SLID ~2' TO BTTM. POOR PACKER SEAT ON INIT. FLOW

TOOL SAMPLE: 99% WTR, 1% MUD

Price Job

Other Charges

Insurance

Total

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Time Set Packer(s) 11:55 A.M. A.M. P.M. Time Started Off Bottom 2:55 A.M. A.M. P.M. Maximum Temperature 98

Initial Hydrostatic Pressure............ (A) 990 P.S.I.

Initial Flow Period............ Minutes 30 (B) 159 P.S.I. to (C) 188 P.S.I.

Initial Closed In Period............ Minutes 45 (D) 535 P.S.I.

Final Flow Period............ Minutes 45 (E) 192 P.S.I. to (F) 235 P.S.I.

Final Closed In Period............ Minutes 60 (G) 508 P.S.I.

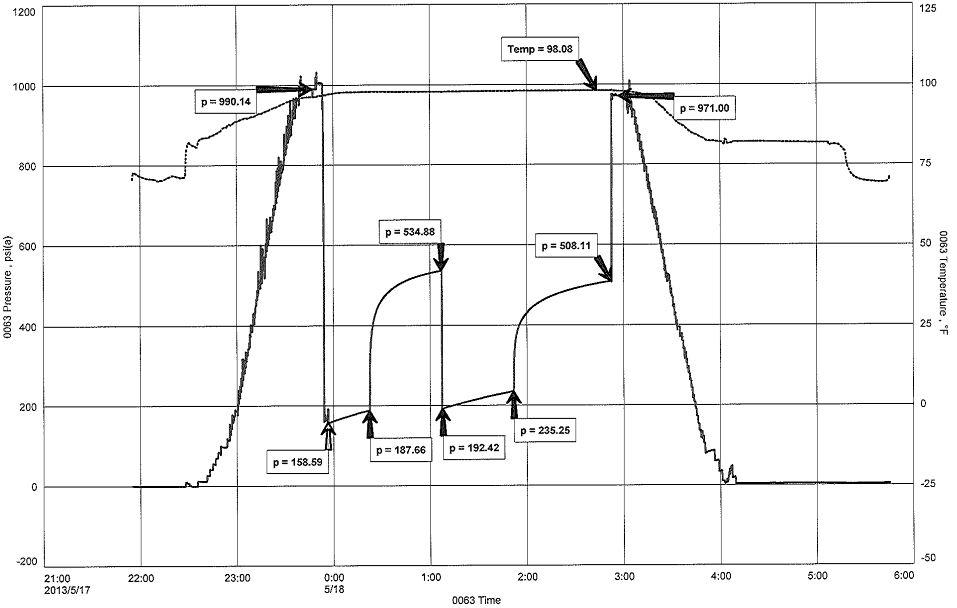
Final Hydrostatic Pressure............ (H) 971 P.S.I.

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 CORP
DST#1 2063-2080 KC
Start Test Date: 2013/05/17
Final Test Date: 2013/05/18

AUGUSTA UNIT #8-63
Formation: DST#1 2063-2080 KC
Pool: WILDCAT
Job Number: M502

# AUGUSTA UNIT #8-63



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# DIAMOND TESTING

## Pressure Survey Report

## General Information

| | | | |
|---|---|---|---|
| Company Name | VESS OIL CORP | Job Number | M503 |
| Well Name | AUGUSTA UNIT #8-63 | Representative | MIKE COCHRAN |
| Unique Well ID | DST#2 2511-2567 CHEROKEE SS & SIMPSON SS | Well Operator | VESS OIL CORP |
| Surface Location | SEC.10-28S-4E BUTLER CO.KS. | Report Date | 2013/05/20 |
| Field | WILDCAT | Prepared By | MIKE COCHRAN |
| Well Type | Vertical | Qualified By | ROGER MARTIN |
| | | Test Unit | NO. 1 |

## Test Information

| | |
|---|---|
| Test Type | CONVENTIONAL |
| Formation | DST#2 2511-2567 CHEROKEE SS & SIMPSON SS |
| Test Purpose (AEUB) | Initial Test |

| | | | |
|---|---|---|---|
| Start Test Date | 2013/05/19 | Start Test Time | 20:20:00 |
| Final Test Date | 2013/05/20 | Final Test Time | 04:25:00 |
| | | Well Fluid Type | 01 Oil |

| | |
|---|---|
| Gauge Name | 0063 |
| Gauge Serial Number | |

## Test Results

Remarks RECOVERED:
160' DM 100% MUD (12' DP, 148' DC)
160' TOTAL FLUID

TOOL SAMPLE: 100% MUD

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

TIME ON: 2020 (5/19)
TIME OFF: 0425 (5/20)

## DRILL-STEM TEST TICKET

FILE: AGSTUNT8-63DST2

Company VESS OIL CORP Lease & Well No. AUGUSTA UNIT #8-63
Contractor C&G RIG 1 Charge to VESS OIL CORP
Elevation 1276 KB Formation CHEROKEE SS & SIMPSON SS Effective Pay ______ Ft. Ticket No. M503
Date 5/19/2013 Sec. 10 Twp. 28 S Range 4E W County BUTLER State KANSAS
Test Approved By ROGER MARTIN Diamond Representative MIKE COCHRAN

Formation Test No. 2 Interval Tested from 2511 ft. to 2567 ft. Total Depth 2567 ft.
Packer Depth 2506 ft. Size 6 3/4 in. Packer depth N/A ft. Size 6 3/4 in.
Packer Depth 2511 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Depth of Selective Zone Set ______

Top Recorder Depth (Inside) 2513 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 2564 ft. Recorder Number 6884 Cap. 6,275 P.S.I.
Below Straddle Recorder Depth ______ ft. Recorder Number ______ Cap. ______ P.S.I.

Mud Type CHEM Viscosity 51 Drill Collar Length 148 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in
Chlorides 900 P.P.M. Drill Pipe Length 2336 ft. I.D. 3 1/2 in
Jars: Make STERLING Serial Number 1 Test Tool Length 27 ft. Tool Size 3 1/2-IF in
Did Well Flow? NO Reversed Out NO Anchor Length 56 ft. Size 4 1/2-FH in
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 4"FH in. (29.5'DC) Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: STRONG 2" BLOW RIGHT AWAY, INC. TO 5" THEN DIMINISHING UNTIL DEAD @ 22 MIN (NO BB)
2nd Open: NO BLOW, FLUSH TOOL. A 5" SURGE OF BUBBLES DIMINISHING TO A VW INTERMITTENT SB (NO BB)

Recovered 160 ft. of DM 100% MUD (12' DP, 148' DC)
Recovered 160 ft. of TOTAL FLUID
Recovered ______ ft. of ______
Recovered ______ ft. of ______
Recovered ______ ft. of ______
Recovered ______ ft. of ______
Remarks: ______

TOOL SAMPLE: 100% MUD

Price Job ______
Other Charges ______
Insurance ______
Total ______

Time Set Packer(s) 10:40 P.M. A.M. P.M. Time Started Off Bottom 1:40 A.M. A.M. P.M. Maximum Temperature 105

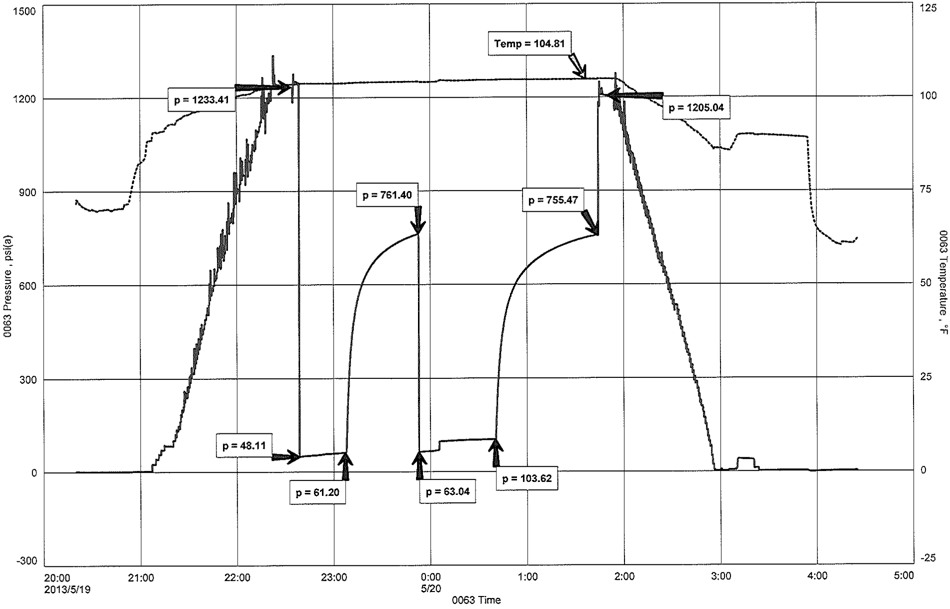
Initial Hydrostatic Pressure ........ (A) 1233 P.S.I.
Initial Flow Period ........ Minutes 30 (B) 48 P.S.I. to (C) 61 P.S.I.
Initial Closed In Period ........ Minutes 45 (D) 761 P.S.I.
Final Flow Period ........ Minutes 45 (E) 63 P.S.I. to (F) 104 P.S.I.
Final Closed In Period ........ Minutes 60 (G) 755 P.S.I.
Final Hydrostatic Pressure ........ (H) 1205 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 CORP
DST#2 2511-2567 CHEROKEE SS & SIMPSON SS
Start Test Date: 2013/05/19
Final Test Date: 2013/05/20

AUGUSTA UNIT #8-63
Formation: DST#2 2511-2567 CHEROKEE SS & SIMPSON SS
Pool: WILDCAT
Job Number: M503

# AUGUSTA UNIT #8-63



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# DIAMOND TESTING

## Pressure Survey Report

## General Information

| | | | |
|---|---|---|---|
| Company Name | VESS OIL CORP | Job Number | M504 |
| Well Name | AUGUSTA UNIT #8-63 | Representative | MIKE COCHRAN |
| Unique Well ID | DST#3 2510-2583 BASAL SIMPSON SAND | Well Operator | VESS OIL CORP |
| Surface Location | SEC.10-28S-4E BUTLER CO.KS. | Report Date | 2013/05/21 |
| Field | WILDCAT | Prepared By | MIKE COCHRAN |
| Well Type | Vertical | Qualified By | ROGER MARTIN |
| | | Test Unit | NO. 1 |

## Test Information

| | | | |
|---|---|---|---|
| Test Type | CONVENTIONAL | | |
| Formation | DST#3 2510-2583 BASAL SIMPSON SAND | | |
| Test Purpose (AEUB) | Initial Test | | |
| Start Test Date | 2013/05/20 | Start Test Time | 19:55:00 |
| Final Test Date | 2013/05/21 | Final Test Time | 04:45:00 |
| | | Well Fluid Type | 01 Oil |
| Gauge Name | 0063 | | |
| Gauge Serial Number | | | |

## Test Results

Remarks RECOVERED:

~42' GIP
~56' GO 1% GAS, 99% OIL
584' GSOCWM 4% GAS, 6% OIL, 40% WTR, 50% MUD
336' GVSOCMW 1% GAS, 95% WTR, 4% MUD W/ A VERY THIN SCUM OF OIL
~976' TOTAL FLUID

GRAVITY: 33.4 @ 60 DEG

CHLOR: 18,000 PPM
PH:7.0
RW: .55 @ 52 DEG

TOOL SAMPLE: 2% GAS, 5% OIL, 92% WTR, 1% MUD

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

TIME ON: 1955 (5/20)
TIME OFF: 0445 (5/21)

## DRILL-STEM TEST TICKET

FILE: AGSTUNT8-63DST3

Company VESS OIL CORP Lease & Well No. AUGUSTA UNIT #8-63
Contractor C&G RIG 1 Charge to VESS OIL CORP
Elevation 1276 KB Formation BASAL SIMPSON SAND Effective Pay ____ Ft. Ticket No. M504
Date 5/20/2013 Sec. 10 Twp. 28 S Range 4E W County BUTLER State KANSAS
Test Approved By ROGER MARTIN Diamond Representative MIKE COCHRAN

Formation Test No. 3 Interval Tested from 2510 ft. to 2583 ft. Total Depth 2583 ft.
Packer Depth 2505 ft. Size 6 3/4 in. Packer depth N/A ft. Size 6 3/4 in.
Packer Depth 2510 ft. Size 6 3/4 in. Packer depth NA ft. Size 6 3/4 in.
Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 2512 ft. Recorder Number 0063 Cap. 6,000 P.S.I.
Bottom Recorder Depth (Outside) 2580 ft. Recorder Number 6884 Cap. 6,275 P.S.I.
Below Straddle Recorder Depth ____ ft. Recorder Number ____ Cap. ____ P.S.I.

Mud Type CHEM Viscosity 50 Drill Collar Length 150 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 9.6 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in
Chlorides 900 P.P.M. Drill Pipe Length 2333 ft. I.D. 3 1/2 in
Jars: Make STERLING Serial Number 1 Test Tool Length 27 ft. Tool Size 3 1/2-IF in
Did Well Flow? NO Reversed Out NO Anchor Length 73 ft. Size 4 1/2-FH in
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 4"FH in. (29.5'DC) Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: SSB 4" RIGHT AWAY. BOB 2½ MIN. (NO BB)
2nd Open: SSB 1" RIGHT AWAY. BOB 4 MIN. ( BB)

Recovered ~42 ft. of GIP
Recovered ~56 ft. of GO 1% GAS, 99% OIL GRAVITY: 33.4 @ 60°
Recovered 584 ft. of GSOCWM 4% GAS, 6% OIL, 40% WTR, 50% MUD
Recovered 336 ft. of GVSOCMW 1% GAS, 95% WTR, 4% MUD W/ A VERY THIN SCUM OF OIL (186' DP,150'DC)
Recovered ~976 ft. of TOTAL FLUID
Recovered ____ ft. of CHLOR: 18,000 PPM
Remarks: RW: .55 @ 52 DEG
PH: 7.0
TOOL SAMPLE: 2% GAS, 5% OIL, 92% WTR, 1% MUD

Price Job
Other Charges
Insurance
Total

Time Set Packer(s) 9:50 P.M. A.M. P.M. Time Started Off Bottom 12:50 A.M. A.M. P.M. Maximum Temperature 109

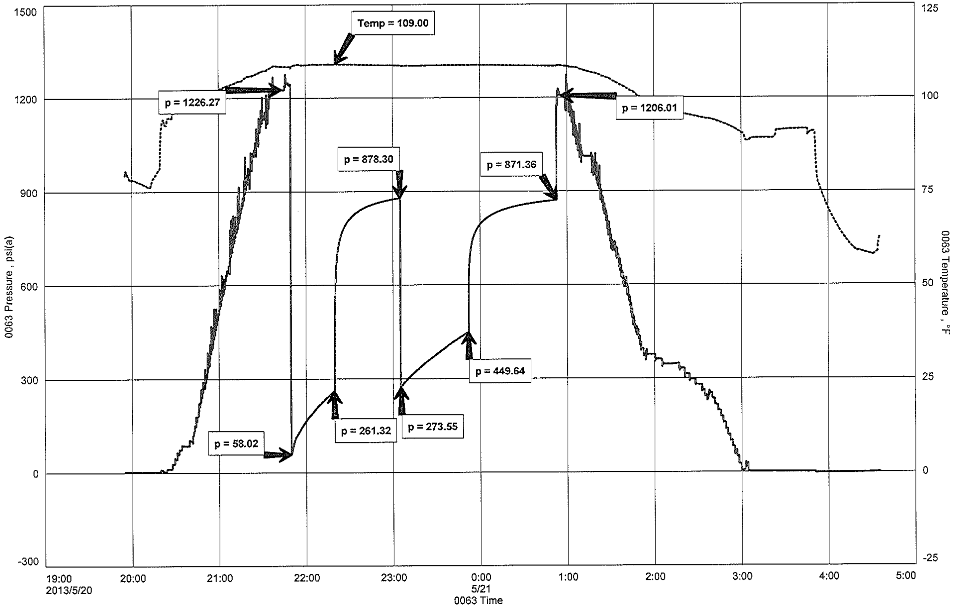
Initial Hydrostatic Pressure ............ (A) 1226 P.S.I.
Initial Flow Period ............ Minutes 30 (B) 58 P.S.I. to (C) 261 P.S.I.
Initial Closed In Period ............ Minutes 45 (D) 878 P.S.I.
Final Flow Period ............ Minutes 45 (E) 274 P.S.I. to (F) 450 P.S.I.
Final Closed In Period ............ Minutes 60 (G) 871 P.S.I.
Final Hydrostatic Pressure ............ (H) 1206 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 CORP
DST#3 2510-2583 BASAL SIMPSON SAND
Start Test Date: 2013/05/20
Final Test Date: 2013/05/21

AUGUSTA UNIT #8-63
Formation: DST#3 2510-2583 BASAL SIMPSON SAND
Pool: WILDCAT
Job Number: M504

# AUGUSTA UNIT #8-63



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