

# ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

## GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY VESS OIL CORPORATION  
LEASE HESS 'A' #34  
FIELD EL DORADO  
LOCATION 1000' FWL & 1650' FNL  
SECTION 18 TOWNSHIP 26S RANGE 05E  
COUNTY BUTLER STATE KANSAS

ELEVATIONS  
KB 1351' GL 1345'  
Measurements Are All  
From KB  
API 15-015-24000-00-00

CONTRACTOR C&G DRLG, Rig #1  
SPUD 11/04/2013 COMP 11/11/2013  
RTD 2720' (-1369) LTD 2720' (-1369)  
ELECTRICAL SURVEYS  
Pioneer Energy Services: DIL,  
CNL/CDL, MEL

CASING  
SURFACE 8&5/8" set @ 260'  
w/150 sx Class A w/3% CC  
PRODUCTION N/A

### FORMATION TOPS

### LOG

### SAMPLES

### CHRONOLOGY

FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
OREAD	1414' (-63)	1416' (-65)	
HEEBNER	1462' (-111)	1451' (-100)	11/04/2013- MIRU. Drill rathole. Spud 12 1/4" hole @ 1 PM. TD 12 1/4" hole @ 1 AM @ 262'. 252' of 8 5/8" 23#/ft LS casing set @ 260' KB. Consolidated: 150 SX Class A, 3% CC. Cement circ, plug down @ 3:45 AM.
DOUGLAS SH	1499' (-148)	1486' (-135)	
LANSING	1746' (-395)	1755' (-404)	11/05/2013- WOC. Drill under surface @ noon w/PDC.
KANSAS CITY	2045' (-694)	2044' (-693)	11/06/2013- Drlg @ 1885'. Working on getting mud in shape. Bit trip forbutton bit @ 2032'. MW 9, VIS 35, WL 14, LCM 0, CI 1000.
STARK	2153' (-802)	2153' (-802)	
BASE/KANSAS CITY	2229' (-878)	2230' (-879)	11/07/2013- Drlg @ 2388'. MW 9.3, VIS 37, LCM 2#, 3/4 degree survey @ 2032'.
CHECKERBOARD	2287' (-936)	2287' (-936)	
ALTAMONT	2331' (-980)	2335' (-984)	11/08/2013- DTD 2590'. Finish short trip. 7:30 AM trip out for DST #1.
CHEROKEE	2413' (-1062)	2413' (-1062)	11/09/2013- DTD 2600'. Pulling DST #2.
ARDMORE	2482' (-1131)	2481' (-1130)	11/10/2013- DTD 2650'. Rathole down to 2720' for open hole logs.
SIMPSON SD	2585' (-1234)	2584' (-1233)	
RED ROCK	2620' (-1269)	--	11/11/2013- RTD/LTD 2720'. After logs decision to plug well. Cement plugs: 2665': 35 sx 60/40 Pozmix, 4% gel, 300': 35 sx cement, 60': 25 sx cement, Rathole: 20 sx.
BASAL SIMPSON SD	2658' (-1307)	2657' (-1306)	
ARBUCKLE	2665' (-1314)	2665' (-1314)	
RTD/LTD	2720' (-1369)	2720' (-1369)	

### REMARKS:

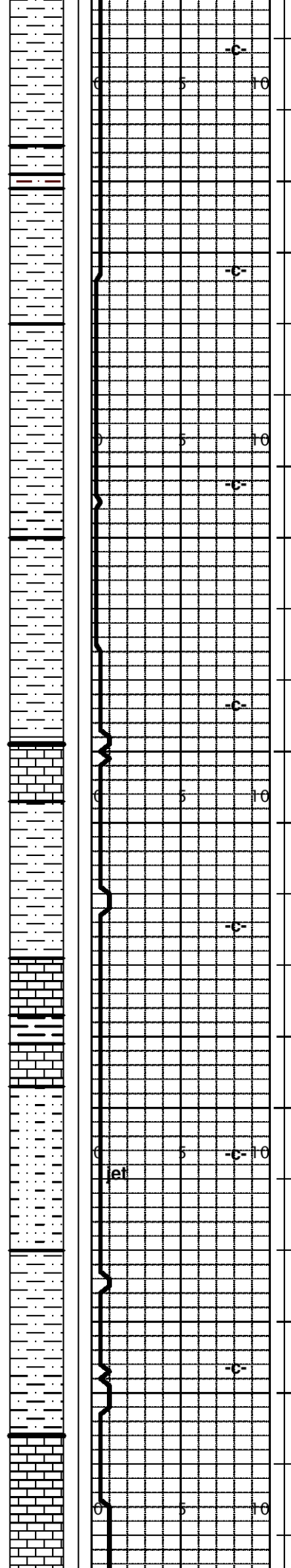
\*\*E-log tops by P. Ramondetta, Geologist, VOC

Negative drill stem tests in the Simpson. No show of oil in the Arbuckle.  
 No commercial shows uphole. The decision was made to P&A this test well.

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

LITH      POROSITY      DRILLING TIME      DST      SAMPLE DESCRIPTION      REMARKS

		-1400	1428' Spl} SH: Pred blk, semicarb & dk gy, sm micac & pyrct.	<b>DRLG W/PDC BIT</b>
			1459' Spl} SH: AA & {OREAD} LS: ~30-40% gy-wh-tn, Pred dn- mx & subchlkly w/VPr- NVP & NS. (Vfn spls & cuttings)	<b>1424' (-73) OREAD (corrected to E-log)</b>
		-1450	1491' Spl} Incrs LS: (~50%) AA & bf-tn-gy, mx- fnxln, sm sucro w/Pr- Fr IX Por w/NS; sm fos Pkst, Pr- Fr Por.	
			{HEEBNER} SH: sm blk carb & Vcarb SH; sm LS: gy, dn-mx & argil.  SH: dk gy & blk carb.	<b>1462' (-111) HEEBNER (corrected to E-log)</b>
			1522' Spl} LS: cm-bf-tn, mx- fnxln, sm Vfnxn, dolomc-sucro w/Pr- Fr IX Por w/NS; sm dn LS & sm wh-chlkly w/NS.	
		-1500	{DOUGLAS} SH: blk- dk gy, AA & gn-gy. & SILTS: gy & gn-gy, sndy & micac, sm SS- SD CLUST: gy & gn-gy, Vfn Gr'd, silty, well cmt'd w/VPr- Pr visbl Por w/NS, sm calc.	<b>1499' (-148) DOUGLAS (corrected to E-log)</b>
			1552' Spl} sm LS: gy-tn, dn- mx & dn Mdst, Pred SH: blk & dk gy.	
			1583' Spl} Pred SILTS- SH: dk gy to lt gy, ms micac, sm sndy: Vfn Gr'd.  sm LS: tn-gy, cryptox- mx, dn & argil Mdst, sm shly, VPr- NVP w/NS.	



Abnat SH: gy-blk.

-1550

1614' Spl} Pred SILTS: dk-lt gy, micac, sm sndy: Vfn Gr'd, sm SS- Sd Clust: gy-bf-wh, Vfn Gr'd, Pred Silty- argil, Rr cln fribl w/Fr- Gd Por & NS.

-1600

1645' Spl} Pred SH: gy-blk & SILTS: dk gy-blk & sm lt gy-sndy: Vfn Gr'd, VRr Sd Clust: AA w/ NS.

-1650

1676' Spl} Pred SH: blk subcarb- carb & dk gy- blk.

{BROWN} ~10% LS: tn-wh, dn- mx- fnxln, Trc Mdxln, sm chlky, Pr- NVP, NS.

-1700

1707' Spl} SH: AA & SILTS: gy & gn-gy, sm sndy, Vfn Gr'd, sm silty Sd Clust: Vfn Gr'd- prt fn Gr'd, Pr- Fr Por w/NS.

sm LS: AA & mx- fnxln, Trc oomldc w/Por & NS.

1737' Spl} ~20% SD CLUST: md gy- lt gy- bf, Vfn- fn Gr'd, rnd'd- anglr, well cmt'd to fribl w/Fr- Gd Por, NS, NF, NC. Pred LS: gy-wh & tn, sm sndy, sm dn- mx- fnx, sm ool, VRr prt oomldc w/Fr- Gd Por w/NS; sm SH & SILTS, AA, sndy, Sl pyrct.

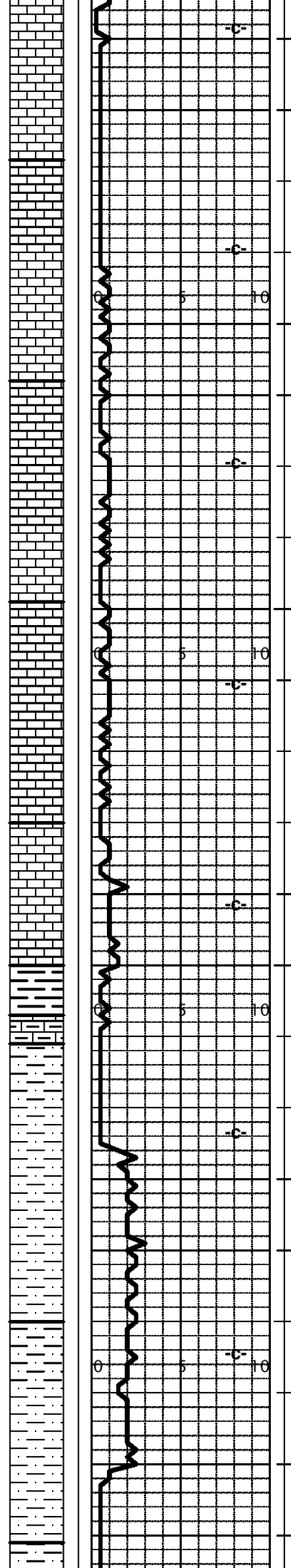
-1750

1769' Spl} sm LS: AA & ambr-tn, mx- Mdx, VRr crs- VcrsX's, Pr- Fr Por w/ NS. Pred SH: gy-blk & SILTS>

1800' Spl} Pred {LANSING} LS: gy-wh & tn, mx- Mdxln, sm chlky, sm dn, Pr- NVP w/NS; sm mot Pkst, sm argil, Pr- NVP w/NS.

SHS@1708'=1/2 deg

1746' (-395)  
LANSING  
(corrected to E-log)



1831' Spl} Pred LS: wh-gy & tn, prt chlky, sm mx- fnxln, sm 2nd ReX, Pr- NVP, NS. Abndt dn LS.

-1800

1861' Spl} LS: wh-gy-tn, sm mot Pkst, mx- fnxln, VRr MdX- crsX's. Pred Pr- NVP w/NS. Abndt dn LS, sm argil.

-1850

1893' Spl} Pred LS: tn-cm & gy, Pred dn- mx- fnxln, VRr MdX's- crsX's, VSI Cherty, Pr- NVP, NS.

1924' Spl} LS: tn-cm-gy, Pred dn- mx- Rr fnx- 2nd ReX, Pred dn, sm semichlky, VPr- NVP w/NS. sm argil- shly LS;

-1900

Incrs SH: gy-blk, sm pyrtc, sm carb.

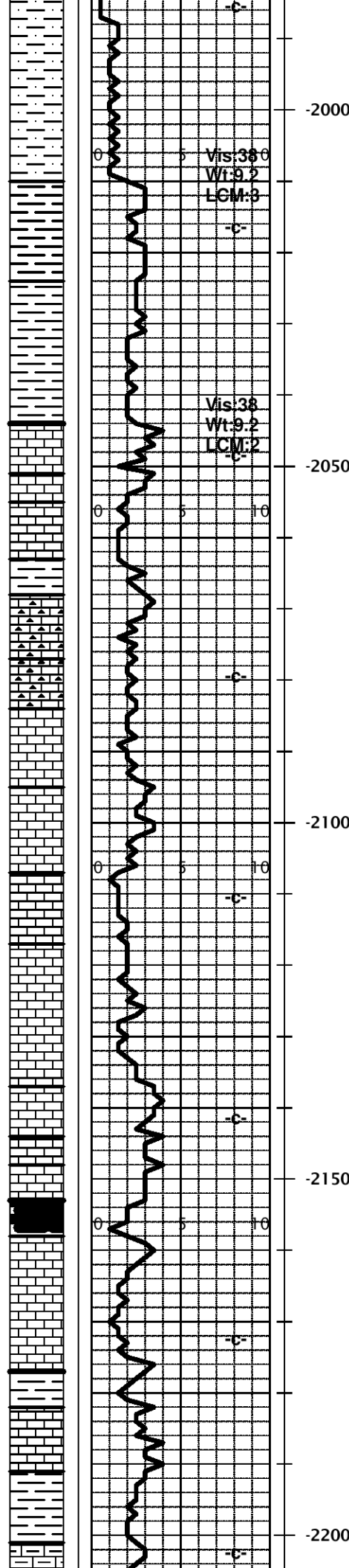
1955' Spl} Pred SILTS: lt-dk gy & sm gn-gy, micac, calc, Rr sndy, sm blk SH: AA, VRr LS: AA.

-1950

1986' Spl} SH- SILTS: dk-lt gy gn-gy, sm micac, sm calc, Rr blk carb, Rr SH.

2017' Spl} Pred SH: dk-lt gy, sm calc, SI micac.

**MUD CHECKS**  
 by FUD MUD:  
 WT 9.0, VIS 35  
 PV 5, YP 10  
 WL 14.0, pH 10.0  
 LCM 0#, CI 1000



2030' Drlg Spl) SH: md-dk gy, Trc LS: tn- dn- mx, pyrct.  
15" Spl) SH: AA, sm pyrct, sm calc & lmy.

SH: AA, sm calc & lmy & argil- dn LS.

**BIT TRIP @ 2032'  
DRLG W/BUTTON BIT  
SHS@2032=3/4 deg  
2044' (-693)  
KANSAS CITY**

{KANSAS CITY} LS: tn-gy, dn- mx- fnx, SI fos.

LS: Incrs, AA- Pkst- dn w/VPr- NVP.

LS: tn-gy-wh, mx- fnx- VRr Md- VcrsX's, sm mot Pkst, ool  
& fos, sm chlky, Pred Pr- Fr IGr & IX Por, NS.

sm dn & argil LS.

LS: dk-lt gy & tn, Vool Pkst w/VPr- Pr visbl Por, NS.  
Cherty: cm-gy-tn, opq, shrp.

LS: bf-cm, mx- fnxln, sm fos & ool, VPr- Pr visbl Por, NS.  
Cherty: AA.

LS: gy-tn-wh, mx- fnx, sm fos & ool Pkst- Wkst, VPr- Pr  
visbl Por, NS. sm wh-chlky.

LS: tn-wh, Pred dn- mx- fnx, sm fos Pkst- Wkst, VPr- Pr  
Por, NS.

LS: gy-bf-wh, mx- fnx, VRr md- VcrsX's, sm Pkst, sm wh-  
chlky, VPr- Pr Por, NS.

LS: cm-tn, mx- Mdx- VRr VcrsX's- 2nd ReX, sm fragmntl  
Pkst, Rr prt oomldc Pkst, sm Fr- Gd Por w/NS.

LS: tn-gy-wh, sm mot Pkst & Wkst, sm dn w/VPr Por &  
NS.

LS: AA & dn Mdst & mx- Vfnx w/VPr- NVP.

-2150 LS: tn-gy-wh, Pred dn- mx- fnx, VPr- NVP, NS.

{STARK} SH: gy-blk, subcarb- blk carb & Vcarb.

**2153' (-802)  
STARK**

LS: gy-tn-wh, mot, mx- fnxln, VRr prt Mdx- VcrsX's, sm  
Wkst- Pkst w/VPr- Fr visbl IGr & IX Por & mFrc's & Frc  
Edg's, Trc mldc & vug Por, Trc FLR, Trc SFO & Cut. SI  
Cherty, Pred dn to chlky. >99% barren.

{Trc SFO}

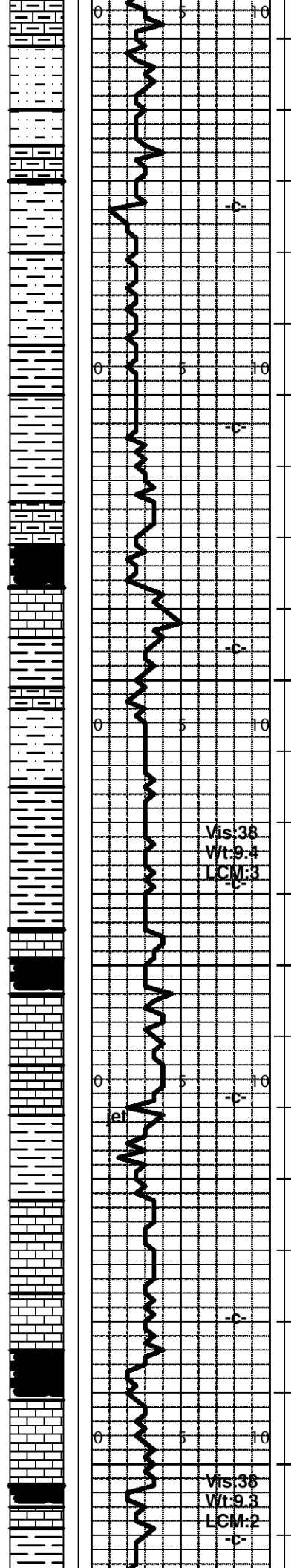
SH: gy-blk (sm carb- Vcarb, AA).

LS: tn-cm-wh, mx- fnxln, prt chlky, sm grnlr Pkst w/Pr- Fr  
Por: IGr Por, IX Por, pp Por & mFrac's & Edg's, VRr FLR,  
Trc SFO & Cut, Trc STN, >99% barren. SI Cherty.

{Trc SFO}

SH: gy-blk (sm carb- Vcarb, AA).

-2200 LS: gy-bn-tn-cm, mot Pkst- fos & ool w/VPr- Pr Por w/ NS,  
sm argil to Vcarb



sm argil to vargil.

SILTS: gy, calc & lmy.

SILTS: dk-lt gy, calc, sm sndy, Vfn Gr'd.

LS: gy-dn, mx- argil.

{BASE KANSAS CITY} SH- SILTS: lt- dk gy, sm calc & micac.

SILTS- SH: dk-lt gy, sm calc & lmy, sm pyrct SH.

-2250

SH: Pred gy, sm blk carb, sm Silts.

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

sm LS: gy-tn-wh, Pred dn- mx- fnx, sm argil, VPr- NVP, NS.

SH: blk carb- Vcarb.

{CHECKERBOARD} LS: cm-tn-gy, sm dn, sm mx- Mdxln, sm mot pkst, SI fos, VPr- NVP, NS.

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

-2300

sm LS: tn-gy, dn & argil.

SH- SILTS: gy & gn-gy.

SH: AA & blk subcarb- carb.

Vis:38  
Wt:9.4  
LCM:3

{ALTAMONT} LS: tn-gy-wh, Pred dn- cryptox- fnx, VPr- NVP, NS.

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

-2350

LS: cm-gy-tn, dn- mx, sm Wkst- Pkst, sm argil, VPr- NVP, NS.

LS: gy-bn-tn-cm, mot Pkst, mx- fnx, VPr- NVP, NS.

SH: gn-gy & sm blk carb.

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

LS: tn-gy-bn, dn- mx, sm pyrct, NVP, NS.

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

-2400

LS: gy-bn-tn-wh, Pred dn- mx, VPr- NVP, NS. Rr chlky, sm argil.

Vis:38  
Wt:9.3  
LCM:2

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

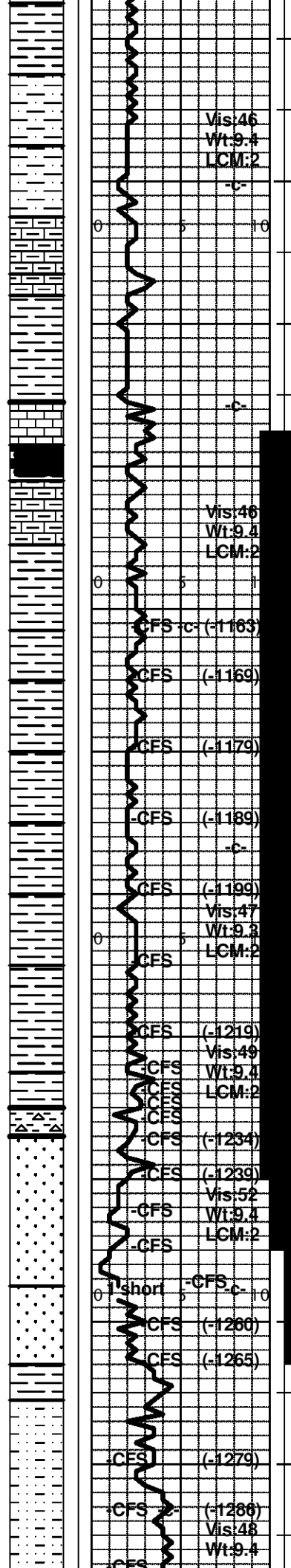
SH: gn-gy & blk sm carb

**2230' (-879)  
BASE KANSAS CITY**

**2287' (-936)  
CHECKERBOARD**

**2335' (-984)  
ALTAMONT**

**2413' (-1062)  
CHEROKEE**



SH: AA & Rr mrrn-rd.

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

SH: AA & SILTS: gn-gy.

SILTS: gy, sm calc, micac. & SH: gy-blk, sm pyrct.

sm LS: cm-tn & gy, dn & argil.

SH: VC- AA, Pred blk & dk gy.

{ARDMORE} LS: tn-cm & gy-bn, dn- mx & Mdst w/NVP.

SH: blk carb.

LS: AA & dk gy-bn dn- argil Mdst & mx- dn w/NVP.

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

SH: AA & gn-gy Silts.

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

SH: VC, gy-blk & gn-gy, Rr mrrn.

SH: gy-blk, sm carb, sm pyrct.

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

SH: gy-blk, pyrct, sm blk carb, sm gy-bn-blk carb, pyrct.

SH: gy-bn-blk, subcarb & Phos; w/ Petrol Odor. Trc DOLO: gy-bf, Vfnxln, NS. Trc Chert. 2582' 20 min Spl) Frly Abndt CHERT: wh-cm-bf, sm Tripolc & subTripolc- wthr'd, sm mFrc's & Edgs w/2nd ReX, NS, NF, NC. ~60-70% SH: AA, Shrp Incrs aqua-gn & gn-gy. Trc Cherty & silic LS: wh-bf, mx- fn w/VPr- NVP, NS. {SIMPSON} {2585'20min~5%} SS-Sd Clust: tn-wh, Vfn-Md Gr'd, well Rnd'd-anglr, well cmt'd w/ Vpr-pr Por; Vrr fribl w/ Fr-Gd Por, subsat-sat STN & brt FLR, Fr-Gd SFO-Gsy, Sl-Gd Cut, FrOdor. (2585'40min&2590'circ) Incrs Sd Clust: AA; Vrr Crs Gr's; mod-pr sort'd, incrs Fr-Gd Por; pred sat FLR&STN & Fr-GdSFO&GB;StrngOdr. (2595'&2600'circ.spls) (abndt SH after DST) Sd Clust:AA; Rr fribl w/ Fr-Gd Por w/ subsat-sat FLR&STN; Fr-GdSFO-GB; Sl-Gd Cut; Strng.Odr. (2611'&2616'circ.spls) SS- Sd Clust: tn-STN-bf-wh, Vfn-MdGr'd w/ VRr Crs Gr's, well rnd'd-anglr, mod-pr sort'd; Incrs fribl w/ Fr-Gd Por, subsat-sat STN-FLR, Fr-Gd SFO-Gsy, sm sqr Oil, Fr- Gd Cut, Strng Odor; Rr Barren Sd Clust; sm Free Sd Gr's:AA.

SH: AA, Pred gy-blk & gn-gy, sm carb.

SS- SD CLUST: lt gy-wh & gn-gy, Vfn- Md Gr'd, VRr crs Gr's, anglr- rnd'd, Vwell cmt'd, calc, sm Silty, Pred barren w/VPr- NVP. (Trc Sd Clust: AA w/STN- SFO- Cut- FLR) & SILTS:gn-gy, sm calc & sndy, sm pyrct & shly.

SILTS & SD CLUST: AA.

SH: gn-gy & blk carb.

DST #1 U.SIMP SD  
2485'-2590'  
30-60-45-60  
1st Op: blt to 9", No BB  
2nd Op: blt to 7", Np BB.  
Rec: 190' SIOCM (1%O,99%M)

Tool Sample:  
1%O,99%M  
IHP: 1215  
IFP: 11-53  
ISIP: 719  
FFP: 55-103  
FSIP: 702  
FHP: 1214  
BHT: 101 F

2481' (-1130)  
ARDMORE

DST #2 U.SIMP SD  
2485'-2600'  
30-45-45-60  
1st Op: blt to 10.5", No BB  
2nd Op: blt to 11", No BB  
Rec: 230' SIOCM (<1%O, >99% M)

Tool Sample:  
<1%O, >99%M  
IHP: 1207  
IFP: 12-70  
ISIP: 709  
FFP: 72-123  
FSIP: 700  
FHP: 1207  
BHT: 98 F

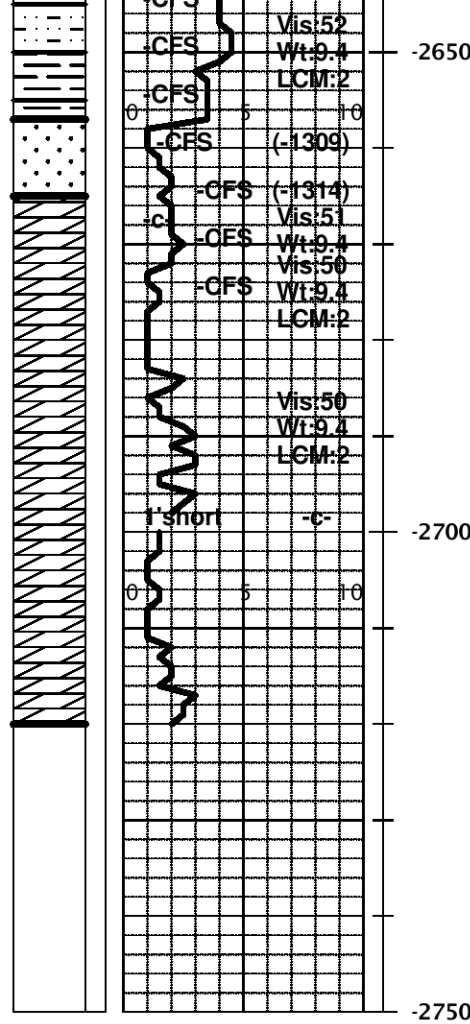
DST#3 U.SIMP SD  
2485'-2616'  
30-45-45-60  
1st Op: BOB in 8.5", No BB  
2nd Op: BOB in 14 min, No BB

Rec: 495' TF:  
90' WCM, Trc O (.5%O,10%W, 89.5%M)  
219' HWCM (.5%O,30%W 69.5%M)  
186' WM (.5%O,40%W 59.5%M)  
Tool Sample:  
WM w/Ospts  
IHP: 1196  
IFP: 17-152  
ISIP: 685  
FFP: 152-252  
FSIP: 682  
FHP: 1196  
BHT: 99 F

2584' (-1233)  
U. SIMPSON SD  
{Fr- Gd SFO}  
{SHS@2590'=3/4 deg  
{Fr- Gd SFO}

{Fr- Gd SFO}

@ 2590':  
WT 9.5, VIS 54  
PV 5, YP 12  
WL 9.6, pH 9.5  
LCM 2#, CI 1000  
@ 2650':  
WT 9.4, VIS 52  
PV 10, YP 20  
WL 8.0, pH 8.5  
LCM 2#, CI 1300



Abndt gy-bn-blk SH & gn-gy & turq-gn Simp SH.

{BASAL SIMPSON} SS- SD CLUST: lt gy-wh-bf, Vfn-fn Gr'd, VRr prt md Gr'd, md'd- anglr, well cmt'd, Rr subfribl, Trc FLR, Trc SFO, >99%barren w/VPr- Pr Por.

{ARBUCKLE} DOLO: bf-gy. Vfn- fnxln, sm sndy, Vfn- fn Gr'd, VPr- Pr IX & IGr Por. NS.

DOLO: cm-bf-gy, Vfn- fnxln, Rr fn- Mdxln, Fr- Gd vug Por & Fr IX Por, NS. NC.

DOLO: AA, Incrs fn- Mdxln w/Fr- Gd vug & IX Por, NS. NC. Abndt Fr- Gd vug & IX Por.

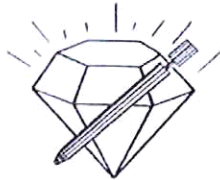
DOLO: gy-bf-tn, mx- fnxln, dn, Pr Por w/NS.

2657' (-1306)  
**BASAL SIMP SD**  
 {Trc SFO}  
 2665' (-1314)  
**ARBUCKLE**

DOLO: cm-bf-tn, mxln- Mdxln w/sm Fr- VGd vug & mldc Por, sm Fr IX Por w/NS. Cherty: wh-cm-bf-gy- VC, sm fos & sm ool. sm dn Dolo w/VPr- NVP & NS.

2720' (-1369)  
**RTD/LTD**

**VESS OIL CORP**  
**HESS 'A' #34**  
**1650'FNL&1000'FWL**  
**Sec. 18-26S-05E**  
**BUTLER CO., KS**  
**API#15-015-24000**



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

**DRILL-STEM TEST TICKET**  
 FILE: HESSA34DST1

TIME ON: 10:09 AM  
 TIME OFF: 6:11 PM

Company Vess Oil Corp Lease & Well No. Hess A #34  
 Contractor C&G Drlg Rig #1 \_\_\_\_\_ Charge to Vess Oil Corp  
 Elevation 1351' KB Formation Simpson Effective Pay \_\_\_\_\_ Ft. Ticket No. F193  
 Date 8 Nov 2013 Sec. 18 Twp. \_\_\_\_\_ 26 S Range \_\_\_\_\_ 5E W County Barton State KANSAS  
 Test Approved By Roger Martin Diamond Representative Jake Fahrenbruch

Formation Test No. ONE Interval Tested from 2485 ft. to 2590 ft. Total Depth 2590 ft.  
 Packer Depth 2480 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 2485 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 2463 ft. Recorder Number 0062 Cap. 5,000 P.S.I.  
 Bottom Recorder Depth (Outside) 2486 ft. Recorder Number 5951 Cap. 5,000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 54 Drill Collar Length 180 ft. I.D. 2 1/4 in.  
 Weight 9.5 Water Loss 9.6 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in  
 Chlorides 1000 P.P.M. Drill Pipe Length 2272 ft. I.D. 3 1/2 in  
 Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in  
 Did Well Flow? NO Reversed Out NO Anchor Length 105 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



Main Hole Size: \_\_\_\_\_ Tool Joint Size: \_\_\_\_\_ Surface Choke Size: \_\_\_\_\_ Bottom Choke Size: \_\_\_\_\_

Blow: 1st Open: Surface blow, increased to 9" in bucket. No blow-back.  
 2nd Open: Surface blow, increased to 7.5" in bucket. No blow-back.

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Recovered \_\_\_\_\_ 190 ft. of SOSM 1% oil, 99% mud

Recovered \_\_\_\_\_ ----- ft. of Tool Sample: SOSM 1% oil, 99% mud

Recovered \_\_\_\_\_ ----- ft. of No G.I.P.

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 12:05 PM A.M. / P.M. Time Started Off Bottom 3:20 PM A.M. / P.M. Maximum Temperature 101 Deg F

Initial Hydrostatic Pressure..... (A) 1215 P.S.I.

Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 53 P.S.I.

Initial Closed In Period..... Minutes 60 (D) 719 P.S.I.

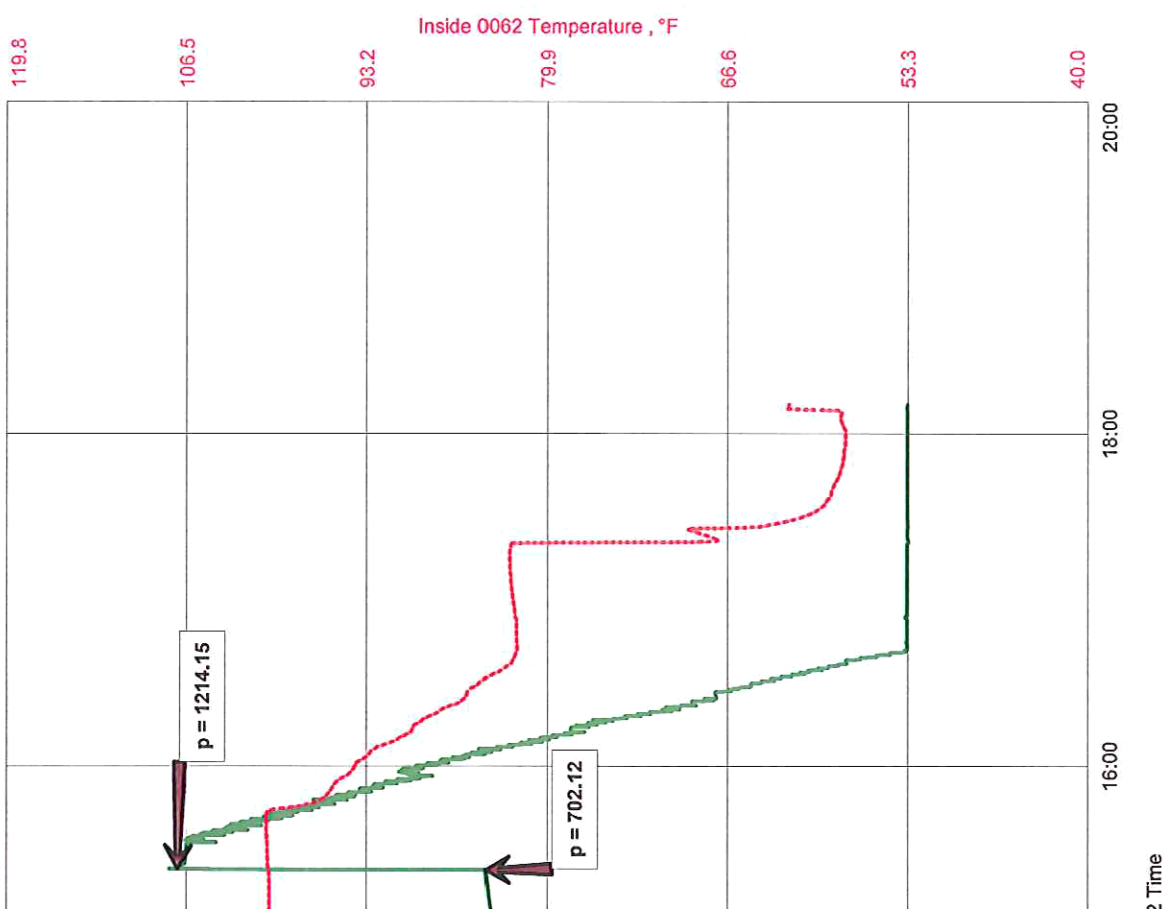
Final Flow Period..... Minutes 45 (E) 55 P.S.I. to (F) 103 P.S.I.

Final Closed In Period..... Minutes 60 (G) 702 P.S.I.

Final Hydrostatic Pressure..... (H) 1214 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.

Hess A #34  
 Formation: Simpson  
 Pool: NA  
 Job Number: F193

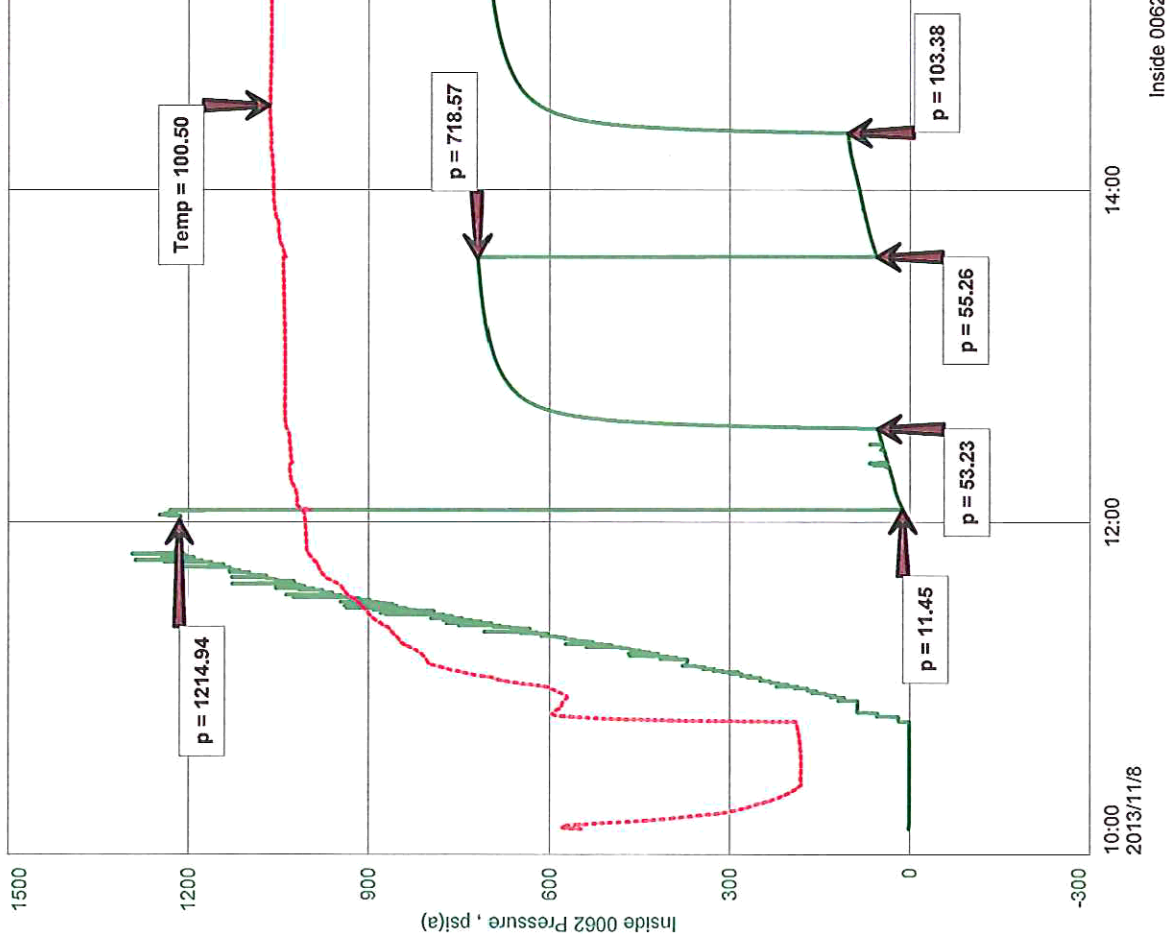


A #34

2 Time

Vess Oil Corp  
 DST #1 Simpson 2485'-2590'  
 Start Test Date: 2013/1/08  
 Final Test Date: 2013/1/08

Hess A



**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: HESSA34DST2

TIME ON: 12:38 AM  
 TIME OFF: 8:30 AM

Company Vess Oil Corp Lease & Well No. Hess A #34  
 Contractor C&G Drlg Rig #1 Charge to Vess Oil Corp  
 Elevation 1351' KB Formation Simpson Effective Pay \_\_\_\_\_ Ft. Ticket No. F194  
 Date 9 Nov 2013 Sec. 18 Twp. 26 S Range 5E W County Barton State KANSAS  
 Test Approved By Roger Martin Diamond Representative Jake Fahrenbruch

Formation Test No. TWO Interval Tested from 2485 ft. to 2600 ft. Total Depth 2600 ft.  
 Packer Depth 2480 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 2485 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 2463 ft. Recorder Number 0062 Cap. 5,000 P.S.I.  
 Bottom Recorder Depth (Outside) 2583 ft. Recorder Number 5951 Cap. 5,000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 52 Drill Collar Length 180 ft. I.D. 2 1/4 in.  
 Weight 9.4 Water Loss 9.6 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
 Chlorides 1000 P.P.M. Drill Pipe Length 2272 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 115 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 4"FH in. 20PERF-3TOP,17BTM Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Main Hole Size: \_\_\_\_\_ Tool Joint Size: \_\_\_\_\_ in. Surface Chuck Size: \_\_\_\_\_ in. Bottom Chuck Size: \_\_\_\_\_ in.

Blow: 1st Open: Surface blow increased to 10.5" in bucket. No blow-back  
 2nd Open: Surface blow, increased to 11" in bucket. No blow-back.

---

Recovered \_\_\_\_\_ 230 ft. of Drilling Mud w/slight oil show <1% oil, >99% mud

Recovered \_\_\_\_\_ ---- ft. of Tool Sample: Drlg Mud w/slight oil show <1% oil, >99% mud

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 2:40 AM A.M. P.M. Time Started Off Bottom 5:40 AM A.M. P.M. Maximum Temperature 98 Deg F

Initial Hydrostatic Pressure..... (A) 1207 P.S.I.

Initial Flow Period..... Minutes 30 (B) 12 P.S.I. to (C) 70 P.S.I.

Initial Closed In Period..... Minutes 45 (D) 709 P.S.I.

Final Flow Period..... Minutes 45 (E) 72 P.S.I. to (F) 123 P.S.I.

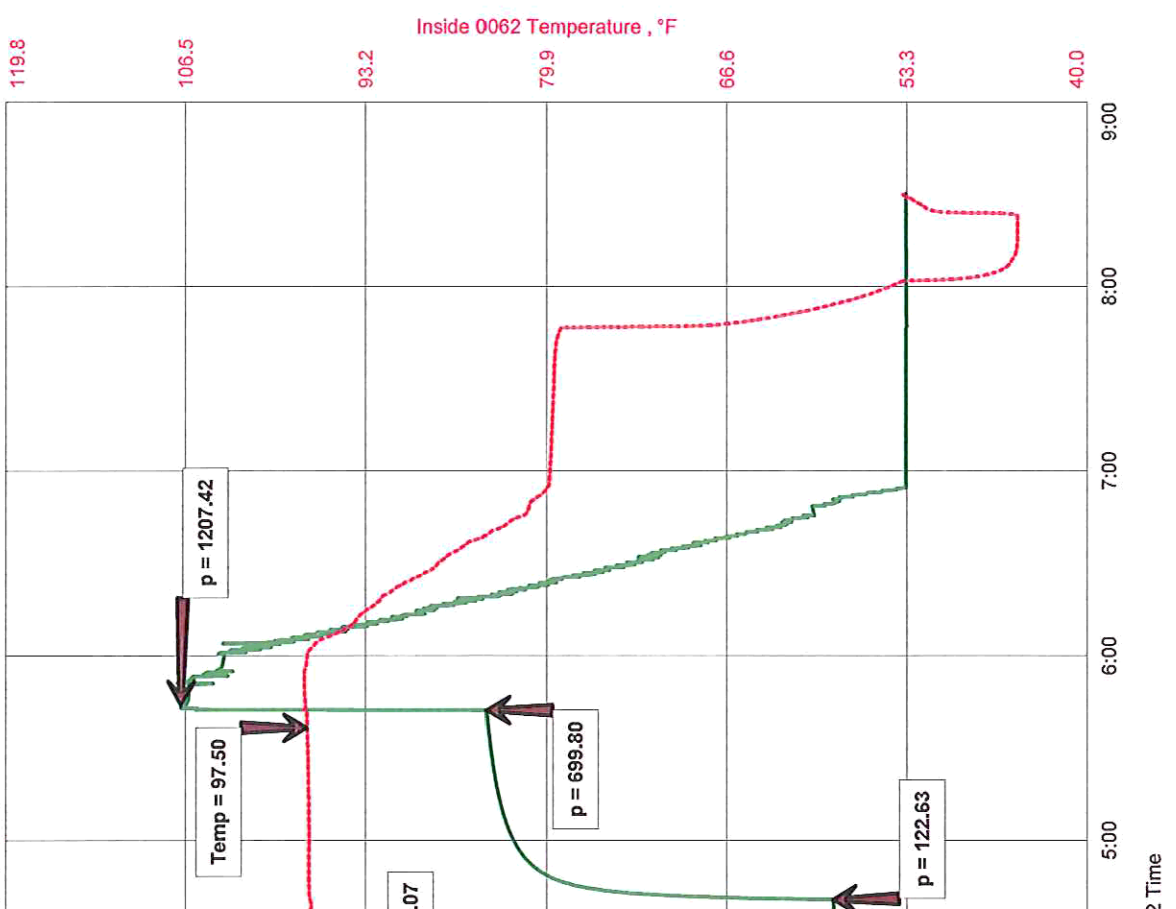
Final Closed In Period..... Minutes 60 (G) 700 P.S.I.

Final Hydrostatic Pressure..... (H) 1207 P.S.I.

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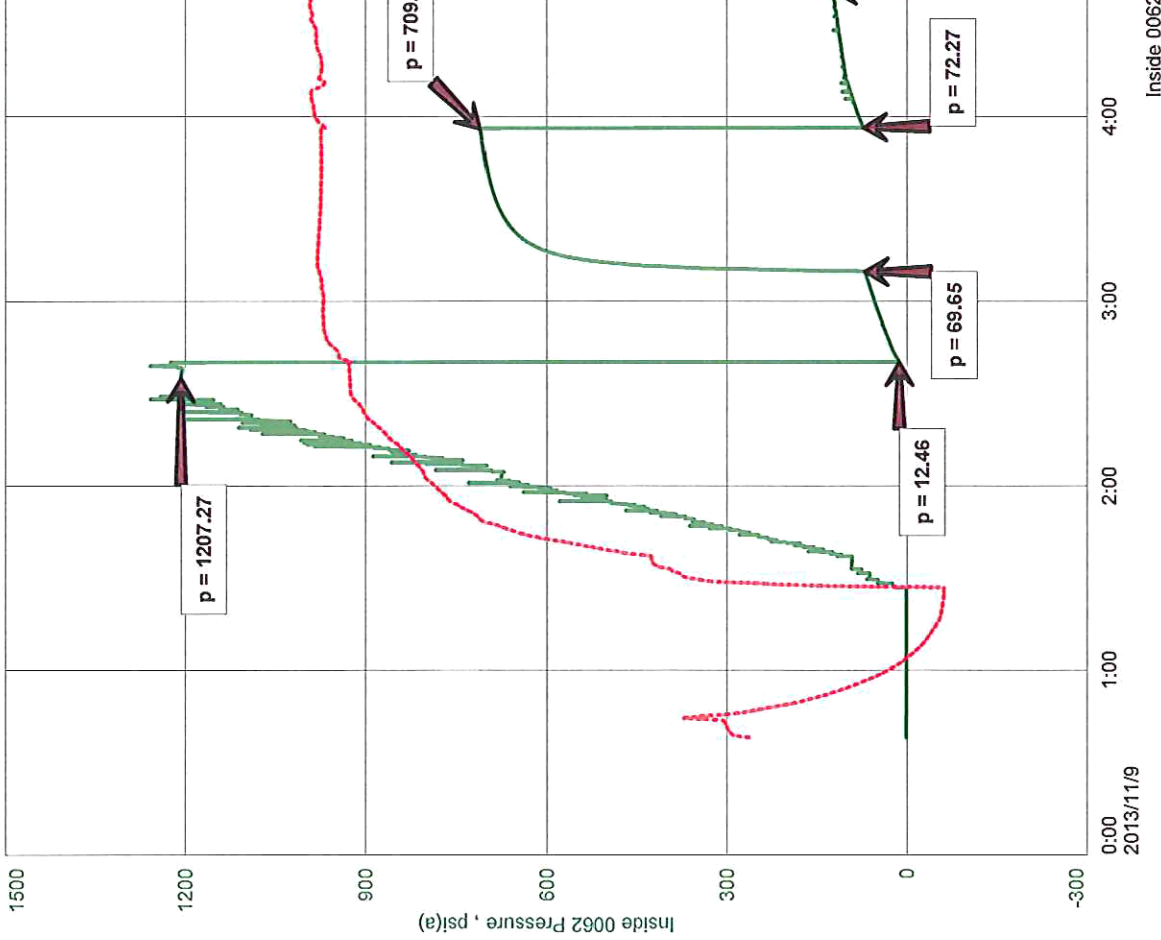
Hess A #34  
 Formation: Simpson 2485'-2600'  
 Pool: NA  
 Job Number: F194



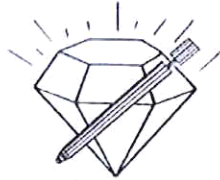
A #34

Vess Oil Corp  
 DST #2 Simpson 2485'-2600'  
 Start Test Date: 2013/11/09  
 Final Test Date: 2013/11/09

Hess A



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**DIAMOND TESTING**  
 P.O. Box 157  
 HOISINGTON, KANSAS 67544  
 (800) 542-7313  
**DRILL-STEM TEST TICKET**  
 FILE: HESSA34DST3

TIME ON: 4:24 PM  
 TIME OFF: 12:44 AM 11-10

Company Vess Oil Corp Lease & Well No. Hess A #34  
 Contractor C&G Drlg Rig #1 \_\_\_\_\_ Charge to Vess Oil Corp  
 Elevation 1351' KB Formation \_\_\_\_\_ Simpson Effective Pay \_\_\_\_\_ Ft. Ticket No. F195  
 Date 9 Nov 2013 Sec. 18 Twp. \_\_\_\_\_ 26 S Range \_\_\_\_\_ 5E W County \_\_\_\_\_ Barton State KANSAS  
 Test Approved By Roger Martin Diamond Representative Jake Fahrenbruch

Formation Test No. THREE Interval Tested from 2485 ft. to 2616 ft. Total Depth 2616 ft.  
 Packer Depth 2480 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Packer Depth 2485 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
 Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 2463 ft. Recorder Number 0062 Cap. 5,000 P.S.I.  
 Bottom Recorder Depth (Outside) 2486 ft. Recorder Number 5951 Cap. 5,000 P.S.I.  
 Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type Chemical Viscosity 48 Drill Collar Length 180 ft. I.D. 2 1/4 in.  
 Weight 9.4 Water Loss 7.2 cc. Weight Pipe Length \_\_\_\_\_ ft. I.D. 2 7/8 in.  
 Chlorides 1000 P.P.M. Drill Pipe Length 2262 ft. I.D. 3 1/2 in.  
 Jars: Make STERLING Serial Number #5 J&J Test Tool Length 33 ft. Tool Size 3 1/2-IF in.  
 Did Well Flow? NO Reversed Out NO Anchor Length 131 ft. Size 4 1/2-FH in.  
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 4"FH in. 33 PERF (20 TOP, 16 BTM) Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: One inch blow, increased to B.O.B. in 8.5 minutes. No blow-back.

2nd Open: Surface blow, increased to B.O.B. in 14 minutes. No blow-back.

Recovered	90 ft. of	WCM w/trace oil show	.5% oil, 10% wtr, 89.5% mud
Recovered	219 ft. of	HvyWCM w/trace oil show	.5% oil, 30% wtr, 69.5% mud
Recovered	186 ft. of	Watery Mud w/trace oil show	.5% oil, 40% wtr, 59.5% mud
Recovered	----- ft. of	Total Recovered Fluid: 495'	
Recovered	----- ft. of	Tool Sample: Watery Mud w/oil spot	Price Job
Recovered	----- ft. of	Chlorides: 7,000 PPM	Other Charges
Remarks:	-----	RW: .8 ohm @ 48 Deg F	Insurance
	-----	PH: 7.5	
	-----	No G.I.P.	Total

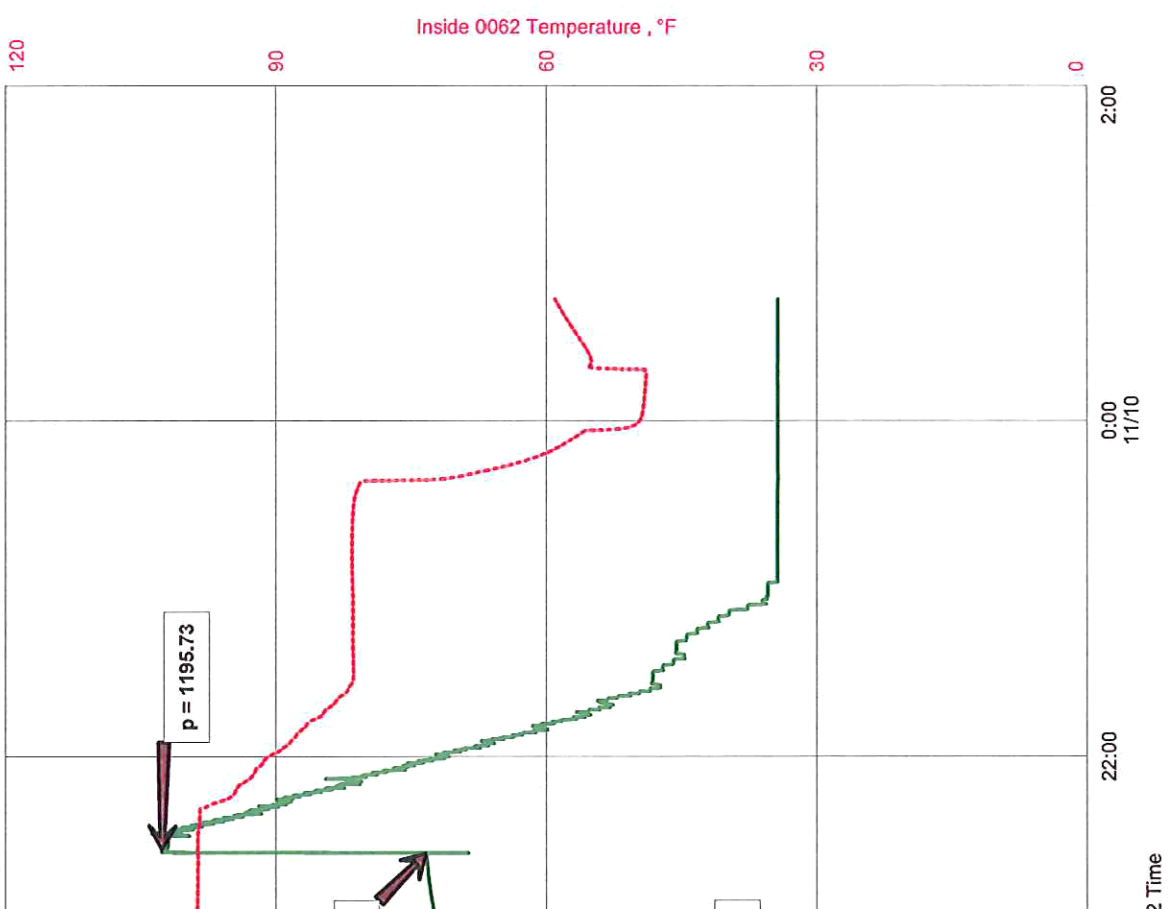
Time Set Packer(s) 6:25 PM A.M. P.M. Time Started Off Bottom 9:25 PM A.M. P.M. Maximum Temperature 99 Deg F

Initial Hydrostatic Pressure..... (A) 1196 P.S.I.  
 Initial Flow Period..... Minutes 30 (B) 17 P.S.I. to (C) 152 P.S.I.  
 Initial Closed In Period..... Minutes 45 (D) 685 P.S.I.  
 Final Flow Period..... Minutes 45 (E) 152 P.S.I. to (F) 252 P.S.I.  
 Final Closed In Period..... Minutes 60 (G) 682 P.S.I.  
 Final Hydrostatic Pressure..... (H) 1196 P.S.I.

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Hess A #34  
 Formation: Simpson 2485'-2616'  
 Pool: NA  
 Job Number: F195



A #34

Vess Oil Corp

DST #3 Simpson 2485'-2616'

Start Test Date: 2013/11/09

Final Test Date: 2013/11/10

Hess A

