

Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

November 2016

Form must be Typed

Form must be Signed

All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

New Well  Re-Entry  Workover

Oil  WSW  SWD

Gas  DH  EOR

OG  GSW

CM (Coal Bed Methane)

Cathodic  Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

Deepening  Re-perf.  Conv. to EOR  Conv. to SWD

Plug Back  Liner  Conv. to GSW  Conv. to Producer

Commingled Permit #: \_\_\_\_\_

Dual Completion Permit #: \_\_\_\_\_

SWD Permit #: \_\_\_\_\_

EOR Permit #: \_\_\_\_\_

GSW Permit #: \_\_\_\_\_

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

NE  NW  SE  SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27  NAD83  WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

*(Data must be collected from the Reserve Pit)*

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

Confidentiality Requested

Date: \_\_\_\_\_

Confidential Release Date: \_\_\_\_\_

Wireline Log Received  Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to [kcc-well-logs@kcc.ks.gov](mailto:kcc-well-logs@kcc.ks.gov). Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No TCores aken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Geologist Report / Mud Logs <input type="checkbox"/> Yes <input type="checkbox"/> No  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

1. Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*
2. Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*
3. Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:	
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# ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

## GEOLOGIST'S REPORT DRILLING TIME AND SAMPLE LOG

COMPANY VESS OIL CORPORATION  
LEASE HALL 'D' #9  
FIELD BEMIS-SHUTTS  
LOCATION 3810' FSL & 3860' FEL  
SECTION 2 TOWNSHIP 12S RANGE 17W  
COUNTY ELLIS STATE KANSAS

ELEVATIONS  
KB 2103' GL 2098'  
Measurements Are All  
From KB  
API 15-051-26803-0000

CONTRACTOR LD DRILLING  
SPUD 09/09/2015 COMP 09/18/2015  
RTD 3626' LTD 3627'  
ELECTRICAL SURVEYS  
CJ Casedhole Solutions: DIL,  
CDL/CNL, MEL

CASING  
SURFACE 31 jts 8 5/8" 24# J-55 set @  
1294' w/335sx A-conn & 150 sx Common  
PRODUCTION 86 jts 5 1/2" 15# J-55  
set @ 3625' w/150 sx AA-2

FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
Anhydrite	1295' (+808)	1290' (+813)	09/09/2015- MIRU LD Drilling @ SPUD well @ 4:00PM.
Base Anhydrite	1328' (+775)		
Topeka	3037' (-934)	3037' (-934)	09/10/2015- Depth @ 7 AM: 860'.
Heebner	3272' (-1169)	3271' (-1168)	09/11/2015- Drilled to 1297'. Set 31 jts of new API 8 5/8" 24# J-55 casing @ 1294' and cemented w/335 sx A-conn, 3% CC, 1/4# Floseal & 150 sx common, 2% CC & 1/4# Floseal. Plug down @ 7:45 AM.
Toronto	3294' (-1191)	3294' (-1191)	Torque converter on drawworks went out.
Lansing	3318' (-1215)	3316' (-1213)	
Stark	3512' (-1409)	3508' (-1405)	09/12/2015- Depth @ 7:00 AM: 2010'. Down for 11 hours working on mud pump and replacing torque converter.
Base Kansas City	3553' (-1450)	3550' (-1447)	09/13/2015- Depth @ 7:00 AM: 2570'.
Arbuckle (LS Caprock)	3575' (-1472)	3575' (-1472)	09/14/2015- Depth @ 7:00 AM: 3230'.
Arbuckle (Dolomite)	3584' (-1481)	3582' (-1479)	09/15/2015- Depth @ 7:00 AM: 3420'. Running DST #1-Toronto & LKC A-G.
RTD	3627' (-1524)	3626' (-1523)	09/16/2015- Depth @ 7:00 AM: 3565'. Running DST #2- LKC H-L. Depth @ 5:00 PM: 3596'. Circulating, DST #3- LCK L- Arbuckle
			09/17/2015- Depth @ 7:00 AM: 3601'. CFS. RTD @ 3626'. DST #4- Arbuckle
			09/18/2015- Run OH logs @ 7:15 AM.

### REMARKS:

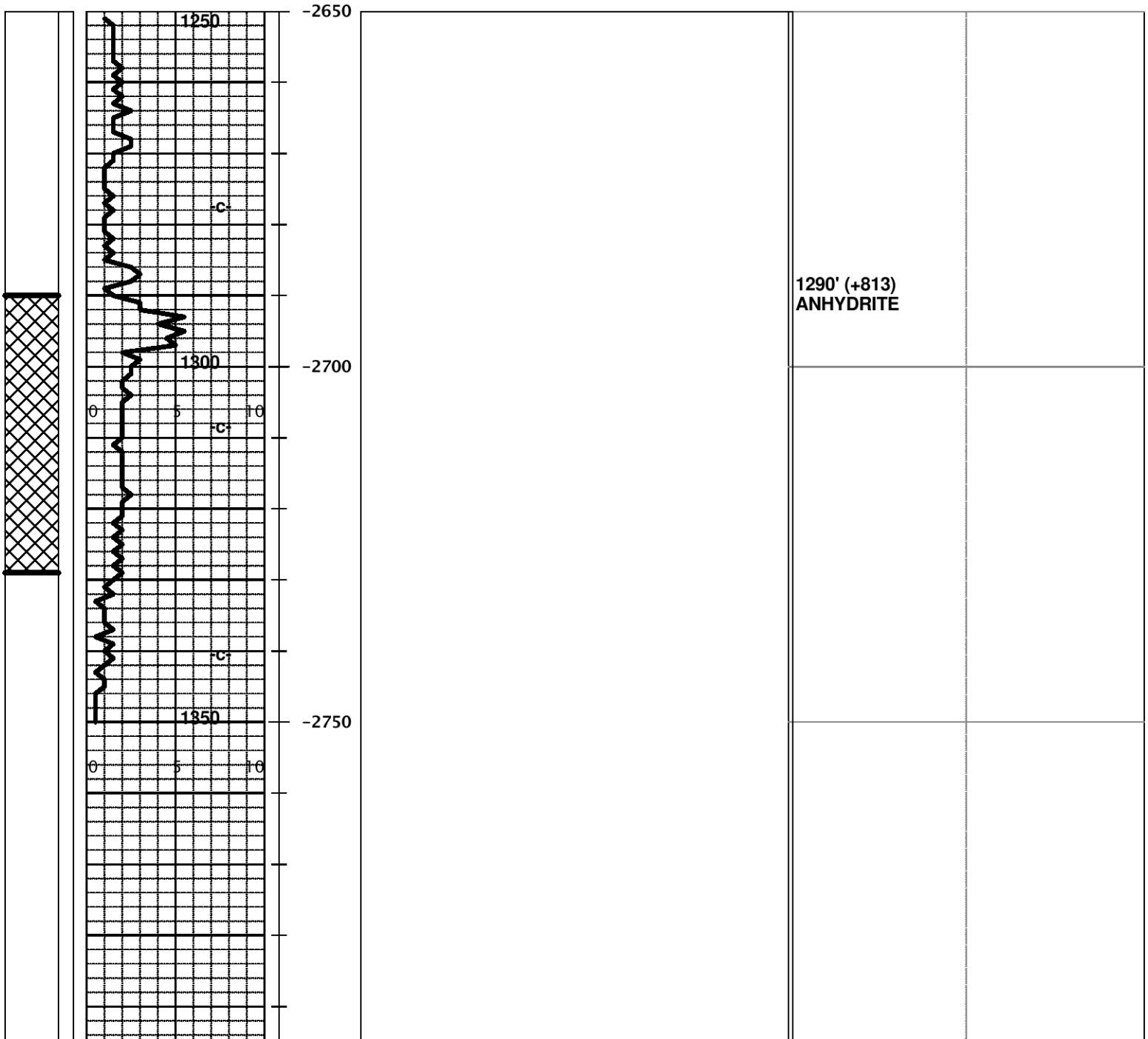
Casing job by R. Martin, Geologist (Wellsite): Ran 86 jts of new 5 1/2", 15#/ft J-55 casing (3622.02' tally), 1 basket and 8

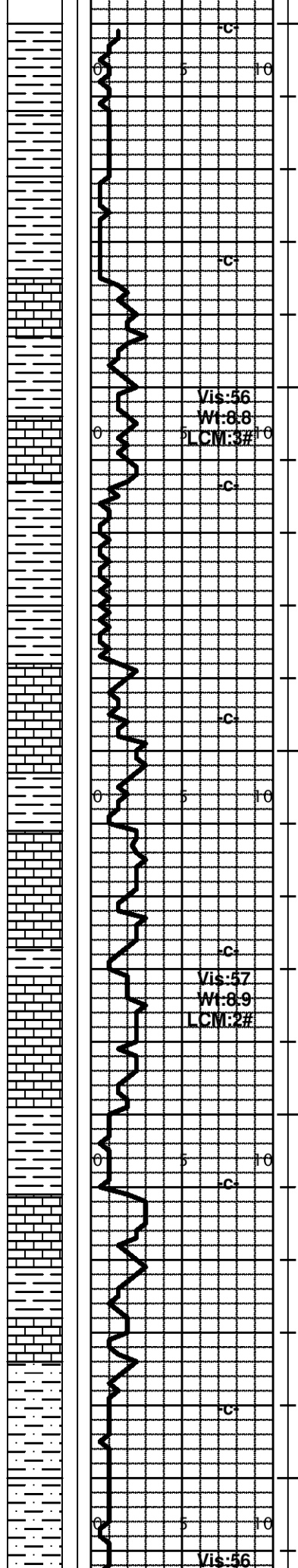
centralizers. Set casing @ 3623' & cemented w/150 sx  
AA-2 & 30 sx 60/40 Pozmix for rathole by Basic. Bumped  
plug w/1800 psi @ 12:10 AM on 09/19/2015.

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

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

LITH      POROSITY      DRILLING TIME      DST      SAMPLE DESCRIPTION      REMARKS  
MIN/FT

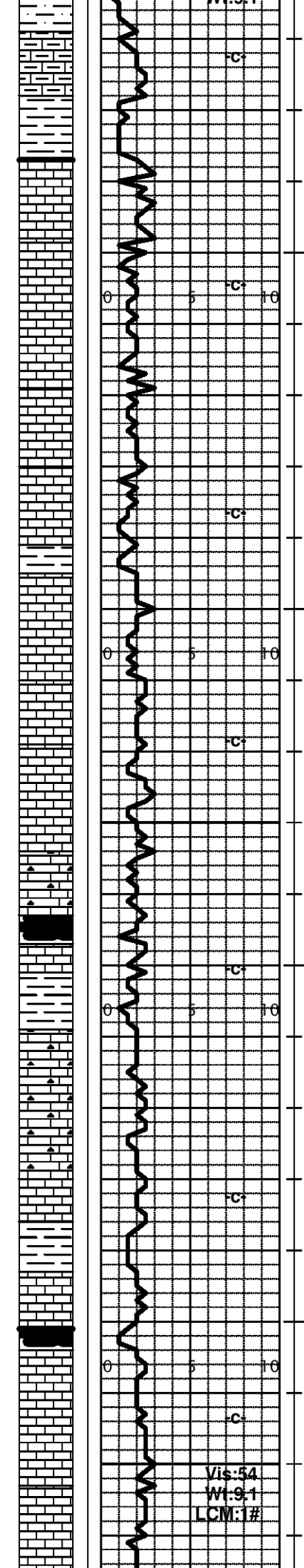




-2800  
-2850  
-2900  
-2950  
-3000

Pred SH: Vgt'd gy-blk & gn & mrrn-rd.  
sm LS: gy, argil w/VPr- NVP, NS.  
SH: AA & sm Silts.  
sm LS: AA, VRr oomldc LS w/Fr- Gd Por, NS.  
LS: prt gy-tn, dn Mdst.  
SH: AA & gy, soft SH.  
SH: AA & blk carb.  
LS: tn-wh, Pred dn-mx-fnx, sm Mdst- Wkst, Rr Pkst w/Pr Por, NS. Rr chlky.  
SH: gy-blk.  
LS: gy-tn-wh, Pred dn Mdst- Wkst, sm argil, Rr Pkst & chlky LS w/VPr- NVP, NS.  
SH: AA, sm calc & lmy.  
LS: AA & Rr motl'd Pkst, prt chlky, Pr- NVP, NS. Abndt dn & argil Mdst- Wkst.  
SH: Vgt'd, gn-gy & mrrn-rd, gy-blk.  
LS: tn-gy-cm, dn- mx & Wkst- Mdst, Rr Pkst, VPr- NVP, NS.  
SH: AA.  
LS: lt- dk gy, argil Mdst- Wkst, VPr- NVP, NS.  
SH- SILTS: gy, sm calc & lmy, sm pyrct.  
SH & SILTS: AA, Incrs gy-blk SH.

**\*\*DISPLACE MUD\*\***



LS: gy-bf-cm, argil Mdst- Wkst, sm argil Pkst w/VPr- NVP, NS.

SH: gy-blk, sm carb

{Topeka} LS: tn-gy-wh, Pred dn- mx, sm Mdst, Rr Wkst- Pkst, VPr- NVP, NS.

-3050 LS: gy-tn-wh, Pred dn Mdst, sm argil- shly, Rr chlky w/VPr- NVP, NS.

LS: bf-tn-gy-wh, Pred mx- dn, sm chlky, VPr- Pr visbl Por: mIX Por & mIGr Por, Trc mFrac Edg & IX Por w/FLR w/NFO & NC.

LS: gy, argil- dn Mdst.

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

-3100 LS: gy, tn, dn mx & Mdst w/VPr- NVP w/NS. Trc blk vit chert; VRr chlky.

LS: Rr Wkst-Pkst w/Pr- VPr IGr Por w/NS, sm argil- shly.

LS: cm-tn, mx- Vfnxln, sm ool & fos Pkst- Wkst, VPr- Pr visbl Por, NS. Rr wh-chlky LS w/NS. SI Cherty.

LS: AA, sm argil Mdst- Wkst, sm CHERT: dk-lt blu-gy, shrp.

SH: sm blk carb.

-3150 LS: cm-gy-tn, dn Wkst- Pkst.

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

LS: tn-gy-wh, Pred dn, cryptox- fnx, sm Wkst- Pkst w/VPr- Pr Por, sm semichlky, VCHERTY: blu-gy, shrp.

LS: AA, Pred dn hd Mdst, Rr chlky LS.

SH: gy-blk, sm carb.

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

-3200 SH: blk carb- Vcarb.

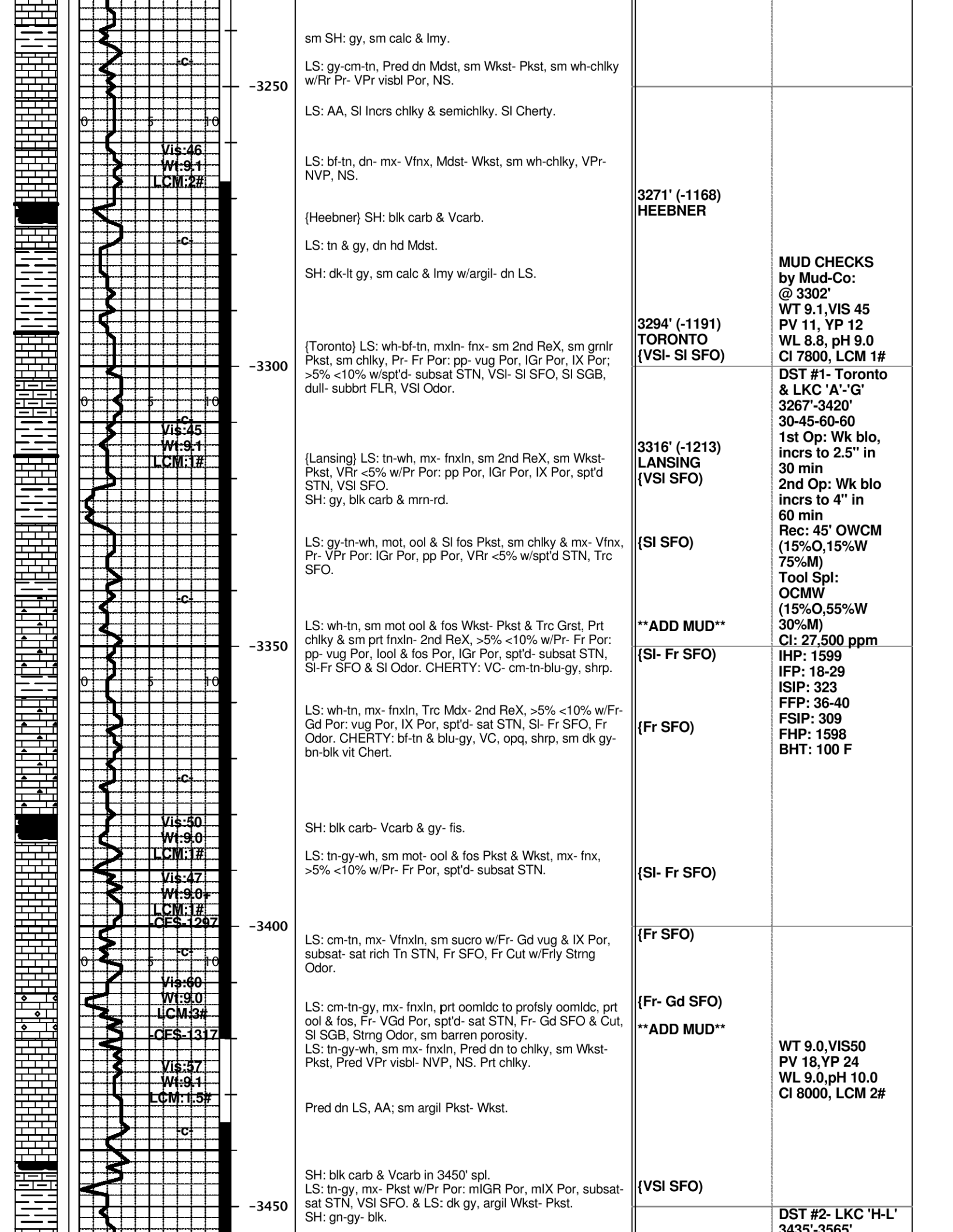
LS: gy-tn, Pred dn Mdst- Wkst, sm semi-chlky Wkst- Pkst w/VPr- Pr Por, NS. Rr fos Wkst- Pkst, SI Cherty, NS.

LS: cm-gy-tn, Pred dn Mdst, sm Wkst- Pkst, Pr- NVP, NS.

3037' (-934)  
TOPEKA

\*\*10' SAMPLES\*\*

Vis:54  
Wt:9.1  
LCM:1#



sm SH: gy, sm calc & lmy.

LS: gy-cm-tn, Pred dn Mdst, sm Wkst- Pkst, sm wh-chlky w/Rr Pr- VPr visbl Por, NS.

LS: AA, SI Incrs chlky & semichlky. SI Cherty.

LS: bf-tn, dn- mx- Vfnx, Mdst- Wkst, sm wh-chlky, VPr- NVP, NS.

{Heebner} SH: blk carb & Vcarb.

LS: tn & gy, dn hd Mdst.

SH: dk-lt gy, sm calc & lmy w/argil- dn LS.

3271' (-1168)  
HEEBNER

3294' (-1191)  
TORONTO  
{VSI- SI SFO}

3316' (-1213)  
LANSING  
{VSI SFO}

{SI SFO}

\*\*ADD MUD\*\*

{SI- Fr SFO}

{Fr SFO}

{SI- Fr SFO}

{Fr SFO}

{Fr- Gd SFO}

\*\*ADD MUD\*\*

{VSI SFO}

MUD CHECKS  
by Mud-Co:  
@ 3302'  
WT 9.1, VIS 45  
PV 11, YP 12  
WL 8.8, pH 9.0  
CI 7800, LCM 1#

DST #1- Toronto  
& LKC 'A-'G'  
3267'-3420'  
30-45-60-60  
1st Op: Wk blo,  
incrs to 2.5" in  
30 min  
2nd Op: Wk blo  
incrs to 4" in  
60 min  
Rec: 45' OWCM  
(15%O,15%W  
75%M)  
Tool Spl:  
OCMW  
(15%O,55%W  
30%M)  
CI: 27,500 ppm

IHP: 1599  
IFP: 18-29  
ISIP: 323  
FFP: 36-40  
FSIP: 309  
FHP: 1598  
BHT: 100 F

WT 9.0, VIS 50  
PV 18, YP 24  
WL 9.0, pH 10.0  
CI 8000, LCM 2#

DST #2- LKC 'H-L'  
3435'-3565'

{Toronto} LS: wh-bf-tn, mxln- fnx- sm 2nd ReX, sm grnlr Pkst, sm chlky, Pr- Fr Por: pp- vug Por, IGr Por, IX Por; >5% <10% w/spt'd- subsat STN, VSI- SI SFO, SI SGB, dull- subbrt FLR, VSI Odor.

{Lansing} LS: tn-wh, mx- fnxln, sm 2nd ReX, sm Wkst- Pkst, VRr <5% w/Pr Por: pp Por, IGr Por, IX Por, spt'd STN, VSI SFO.  
SH: gy, blk carb & mrn-rd.

LS: gy-tn-wh, mot, ool & SI fos Pkst, sm chlky & mx- Vfnx, Pr- VPr Por: IGr Por, pp Por, VRr <5% w/spt'd STN, Trc SFO.

LS: wh-tn, sm mot ool & fos Wkst- Pkst & Trc Grst, Prt chlky & sm prt fnxln- 2nd ReX, >5% <10% w/Pr- Fr Por: pp- vug Por, lool & fos Por, IGr Por, spt'd- subsat STN, SI-Fr SFO & SI Odor. CHERTY: VC- cm-tn-blu-gy, shrp.

LS: wh-tn, mx- fnxln, Trc Mdx- 2nd ReX, >5% <10% w/Fr- Gd Por: vug Por, IX Por, spt'd- sat STN, SI- Fr SFO, Fr Odor. CHERTY: bf-tn & blu-gy, VC, opq, shrp, sm dk gy- bn-blk vit Chert.

SH: blk carb- Vcarb & gy- fis.

LS: tn-gy-wh, sm mot- ool & fos Pkst & Wkst, mx- fnx, >5% <10% w/Pr- Fr Por, spt'd- subsat STN.

LS: cm-tn, mx- Vfnxln, sm sucro w/Fr- Gd vug & IX Por, subsat- sat rich Tn STN, Fr SFO, Fr Cut w/Frly Strng Odor.

LS: cm-tn-gy, mx- fnxln, prt oomldc to profsly oomldc, prt ool & fos, Fr- VGd Por, spt'd- sat STN, Fr- Gd SFO & Cut, SI SGB, Strng Odor, sm barren porosity.  
LS: tn-gy-wh, sm mx- fnxln, Pred dn to chlky, sm Wkst- Pkst, Pred VPr visbl- NVP, NS. Prt chlky.

Pred dn LS, AA; sm argil Pkst- Wkst.

SH: blk carb & Vcarb in 3450' spl.  
LS: tn-gy, mx- Pkst w/Pr Por: mIGR Por, mIX Por, subsat- sat STN, VSI SFO. & LS: dk gy, argil Wkst- Pkst.  
SH: gn-gy- blk.

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LCM:2#

Vis:45  
Wt:9.1  
LCM:1#

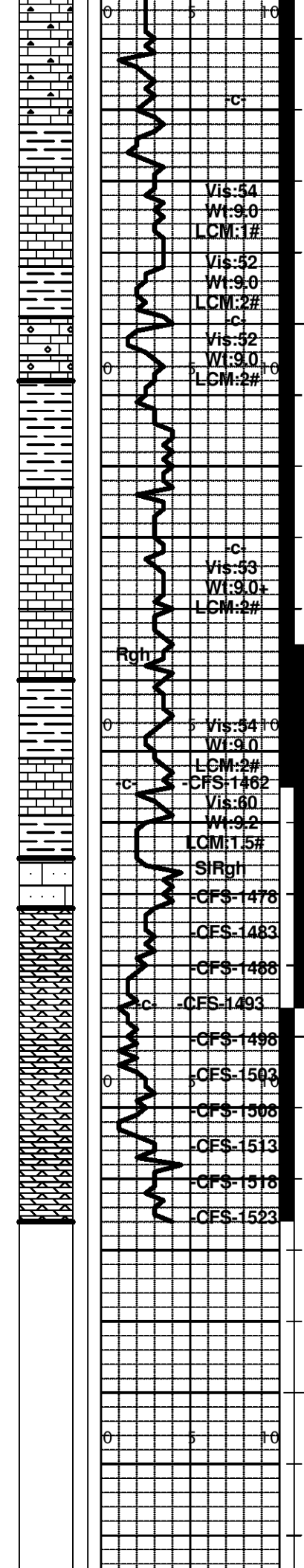
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Vis:57  
Wt:9.1  
LCM:1.5#





LS: cm-tn, mx- fnx, sm 2nd ReX, Pred dn, sm wh-chlky, CHERTY: tn-gy-cm, mot- fos, shrp, opq, VRr <5% w/Pr- Fr Por: pp Por, IX Por, vug Por, spt'd- subsat STN, VSI SFO, VSI- SI Cut, VSI Odor; sm argil, Pred dn, sm chlky.

SH: gn-gy, soft & mrrn-rd.

LS: tn-wh-gy, mx- Rr fnx- 2nd ReX, VRr ~5% w/Pr- Fr Por: vug Por, pp Por, IX Por, spt'd- Trc sat STN, Trc ool & fos Grst w/Gd Por, SI- Fr SFO & Cut. SI Cherty, AA.

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

LS: tn-wh-gy, sm chlky, Pred dn- mx, sm ool & fos Pkst- Grst, Rr prt oomldc to Voomldc w/Pr- Fr Por & VRr Gd Por: oomldc, Trc sat rich Tn STN & Fr- Gd SFO & GB & Cut, Fr Odor, VRr barren Por, sm argil dn LS.

{Stark} SH: gy & gn, sm calc & lmy, & blk carb.

LS: tn-gy-wh, mx- Rr fnxln, VRr oomldc & VRr Pkst- Grst w/Fr- Trc Gd Por: >5% <10% w/spt'd- sat STN, SI- Fr SFO & Cut, Trc Gd SFO & Cut, Frly Strng Odor.

LS: tn-gy-wh, Pred dn & sm chlky- Mdst- Wkst & mx- fnx, sm Pkst VRr, <5% w/Pr- Fr Por: pp Por, IX Por vug Por s/spt'd- sat STN, SI SFO & Cut. sm argil- shly LS, AA.

{Base Kansas City} SH: blk carb & gy & gn-gy, sm calc & lmy & rd-mrn SH.

SH: AA, Incrs gy-blk.

LS: tn-wh & gy, Pred dn- Mdst- Wkst, sm chlky, VPr- NVP, Pred barren, Trc Pr Por w/STN-SFO-Cut.

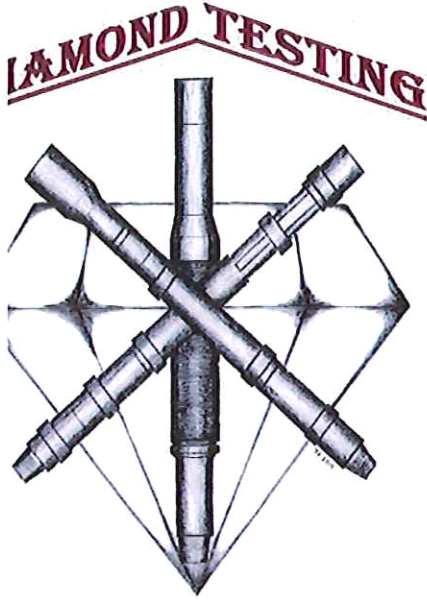
Abndt SH: gy-blk & gn-gy, sm calc & lmy & rd SH. {Arbuckle} LS: cm-tn, mx- fnxln, Pred Pr Por, sm grnlr Pkst & grst & sndy, Vfn- fn Gr'd, >10% <20% w/Pr- Fr Por, spt'd- sat STN, Fr SFO, Strng Odor. {Arbuckle} DOLO: tn-bf-cm, mx- Mdxn, Pred dn- Pr Por, VRr Fr- Gd Por, ~10% w/SFO- STN. DOLO: tn-bf-cm, mx- Mdxln, ~20% w/Pr- Fr Por: IX Por, vug Por, spt'd-sat STN, ~5% w/Gd Por- STN- Fr SFO. DOLO: ~40% Vfn- fnxln, sucro w/Fr Por: IX Por, pp- vug Por, sat STN, Fr- Gd SFO, Fr- Gd Cut, Strng Odor, VCherty. DOLO: VCherty, AA, Pred Vfn- fnxln, sucro w/Fr- Gd Por: IX & vug Por, sat STN, Fr- Gd SFO & Cut. DOLO: AA, Vfn- fnxln, sucro & VRr prt oomldc w/Gd Por, ~80% sat STN, Gdo SFO, dull- NF, Fr- Gd Cut, Strng Odor. DOLO: AA, sm mx- fnxln, prt dn, VCherty, Abndt sat Dolo, AA & mx- Mdxln, ~40% w/Fr- Gd IX & vugPor, sat Tn STN, Gd SFO- Cut, Strng Odor. DOLO: cm-Tnbn- STN, mx- Mdxln, ~30% dn to Pr Por, spt'd STN, ~30% Fr Por- sucro w/subsat- sat STN, ~20% Gd IX & vug Por, sat STN, Gd SFO, 10-20% Chert. DOLO: bf-Tn-STN, mx- fnxln, VRr prt Mdxln, ~20% w/Gd IX Por, vug Por, sat STN, Gd SFO, Trc oomldc, 20% Fr Por, 40% Pr Por, spt'd- subsat STN.

{VSI SFO}	30-45-60-60 1st Op: Wk blo, Incrs to 5" in 30 min 2nd Op: Wk blo, Incrs to 1.75" in 60 min Rec: 75' SOSM (1%O,99%M) Tool Spl: SOCM (4%O,96%M) CI: 27,500 ppm IHP: 1706 IFP: 20-45 ISIP: 208
{SI-Fr SFO}	
{Fr- Gd SFO}	FFP: 43-63 FSIP: 176 FHP: 1705 BHT: 101F
3508' (-1405) STARK	
{SI- Fr SFO}	@ 3565': WT 9.0,VIS 50 PV 15,YP 27 WL 7.6,pH 10.0 CI 5400,LCM 2#
{SI SFO}	
3550' (-1447)	
BASE KANSAS CITY	DST #3- ARBUCKLE 3545'-3596' 30-45-30-45 1st Op: Wk blo, incrs to 3/4" in 30 min 2nd Op: No blow Rec: 1' CO 15' OSM (3%O,97%M) Tool Spl: SOCM (5%O,95%M) IHP: 1701 IFP: 20-22 ISIP: 378 FFP:23-24 FSIP: 333
3575' (-1472) ARBUCKLE LS	
3582' (-1479) ARBUCKLE DOLO {SI- Fr SFO}	
{Fr- Gd SFO}	FHP: 1698 BHT: 102 F
{Gd SFO}	DST #4- ARBUCKLE 3596'-3626' 30-45-30-45 1st Op: Wk blo, incrs to 1.25" in 30 min 2nd Op: VWk blo, incrs to 0.5" in 60 min Rec: 35' WM (40%W,60%M) Tool Spl: SWCM (8%W,92%M) CI: 14,000 ppm IHP: 1726 IFP: 16-22 ISIP: 422 FFP: 23-32 FSIP: 400 FHP: 1693 BHT: 104 F
WT 9.2, VIS 52 PV 15, YP 25 WL 7.8, pH 10.5 CI 6600, LCM 3#	
{Gd SFO}	
3626' (-1523)/RTD 3627' (-1524)/LTD	
@ 3601': WT 9.2,VIS 52 PV 15,YP 25 WL 7.8,pH 10.5 CI 6600,LCM 3#	
@ 3626': WT 9.2,VIS 51 PV 18,YP 21 WL 8.0,pH 10.0 CI 6900,LCM 2#	
VESS OIL CORP HALL 'D' #9	

# DIAMOND TESTING GENERAL REPORT

**Jake Fahrenbruch, Tester**

Cell: (620) 282-8977 / Office: (800) 542-7313



## TEST INFORMATION

<b>Well Name</b>	Hall D #9
<b>Company Name</b>	Vess Oil Corporation
<b>Formation</b>	DST #1, Toronto - KC "G" 3267'-3420'
<b>Test Type</b>	Bottom-Hole w/J&J
<b>Surface Location</b>	Sec 2-12s-17w- Ellis Co.- KS
<b>KB Elevation (SL)</b>	2103.000
<b>Gauge Name</b>	5584
<b>Start Test Date</b>	2015/09/15
<b>Start Test Time</b>	01:20:00
<b>Final Test Date</b>	2015/09/15
<b>Final Test Time</b>	08:32:00
<b>Job Number</b>	F413
<b>Contact</b>	Dylan Klaus
<b>Site Contact</b>	Roger Martin

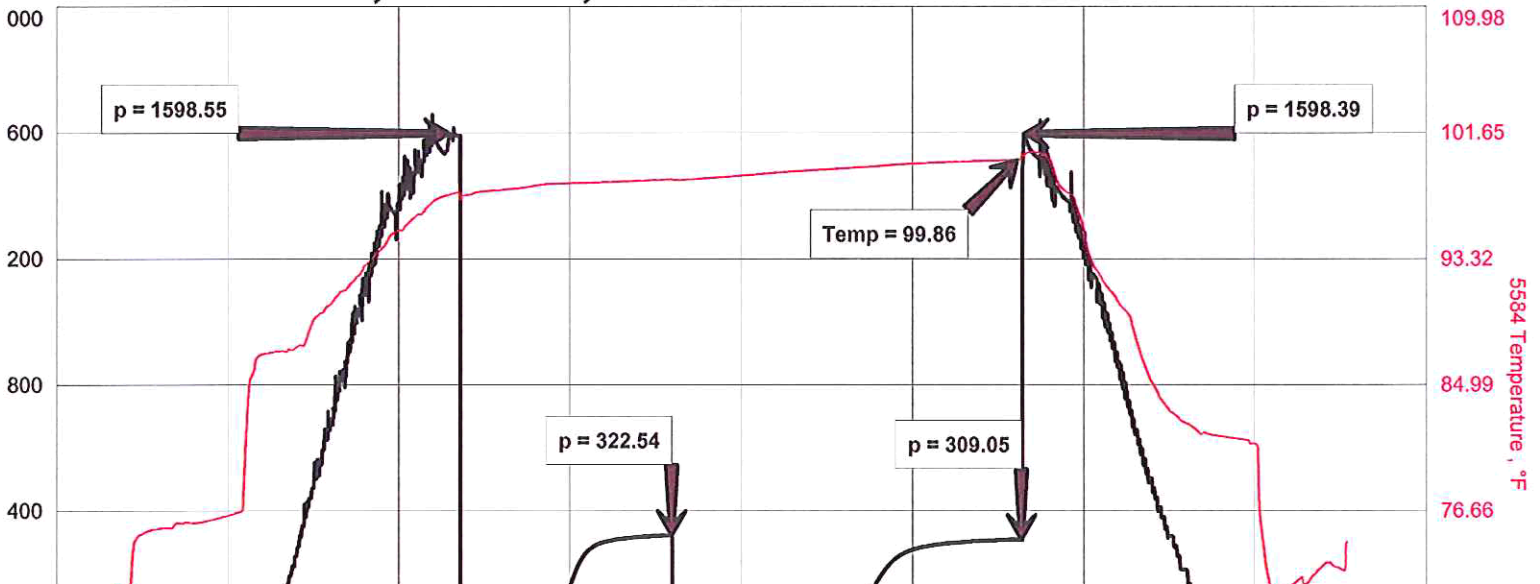
## TEST RESULTS

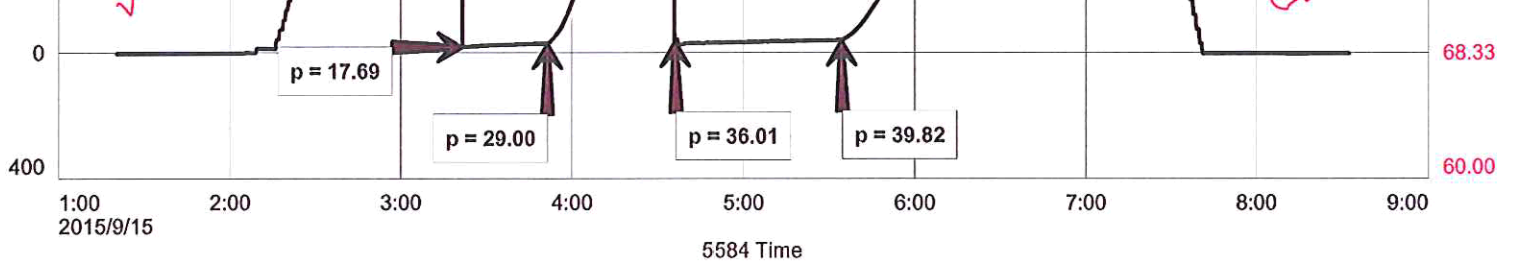
30 minute initial flow, weak blow, increased to 2.5"  
 60 minute final flow, weak blow, increased to 4"

Recovered: 45' of Oil & Water Cut Mud, 10% oil, 15% wtr, 75% mud

Tool Sample: Oil Cut Muddy Water, 15% oil, 55% wtr, 30% mud  
 Chlorides: 27,500 PPM  
 RW: .25 ohm @ 70 Deg F  
 PH: 8.0

## HALL D #9, DST #1, TORONTO - KC "G" 3267'-3420'

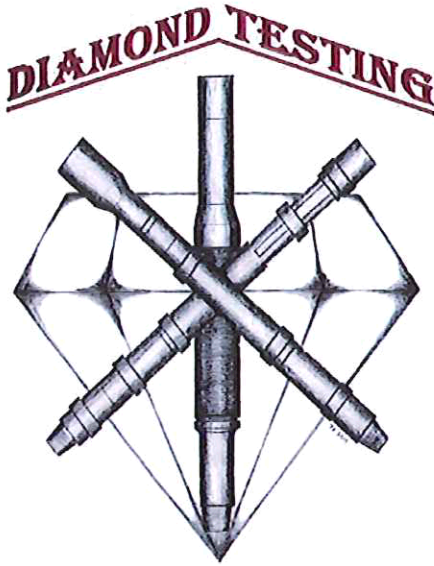




## DIAMOND TESTING GENERAL REPORT

**Jake Fahrenbruch, Tester**

Cell: (620) 282-8977 / Office: (800) 542-7313



### TEST INFORMATION

Well Name	Hall D #9
Company Name	Vess Oil Corporation
Formation	Kansas City "H-L" 3435'-3565'
Test Type	Bottom-Hole w/J&J
Surface Location	Sec 2-12s-17w-Ellis Co.-KS
KB Elevation (SL)	2103.000
Gauge Name	5584
Start Test Date	2015/09/15
Start Test Time	22:03:00
Final Test Date	2015/09/16
Final Test Time	05:05:00
Job Number	F414
Contact	Dylan Klaus
Site Contact	Roger Martin

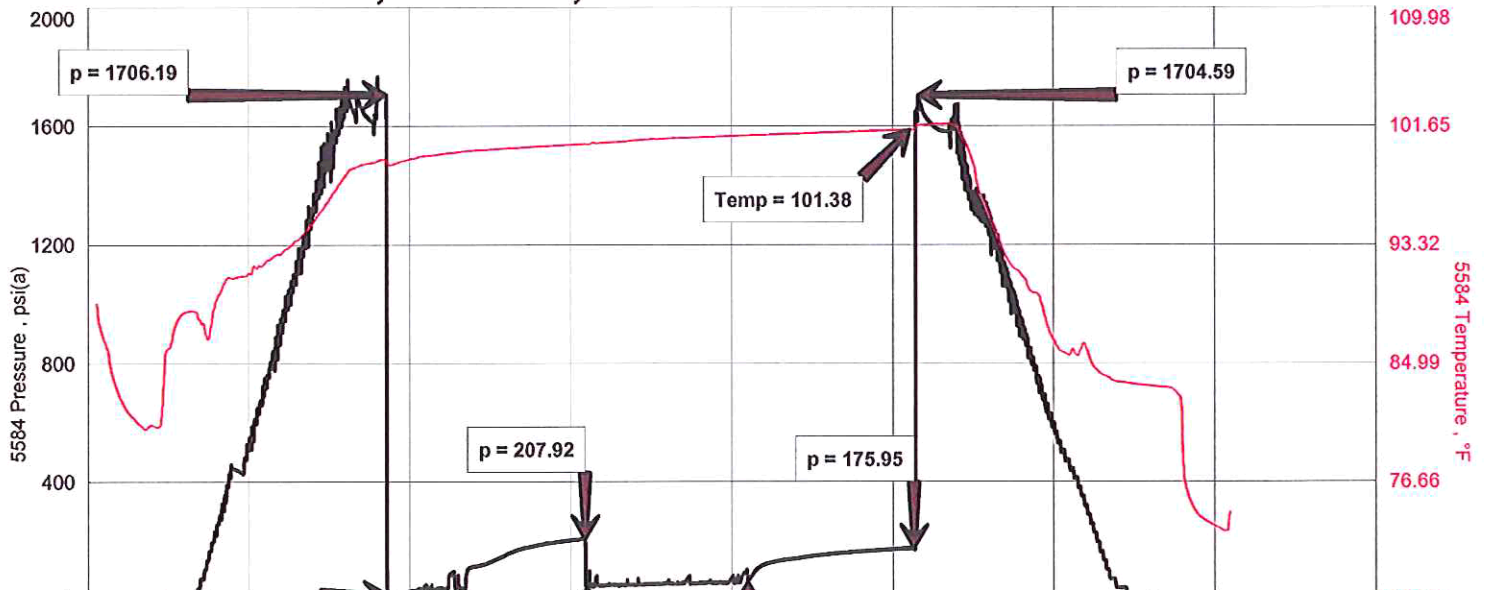
### TEST RESULTS

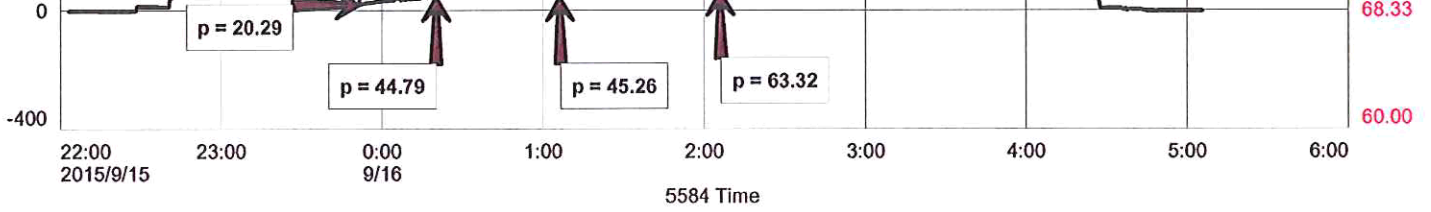
30 minute initial flow, weak blow, increased to 5"  
 60 minute final flow, weak blow, increased to 1.75"

Recovered 75' of Slightly Oil Specked Mud: 1% oil, 99% mud

Tool Sample, Slightly Oil Cut Mud: 4% oil, 96% mud

## HALL D #9, DST #2, KANSAS CITY "H-L" 3435'-3565'

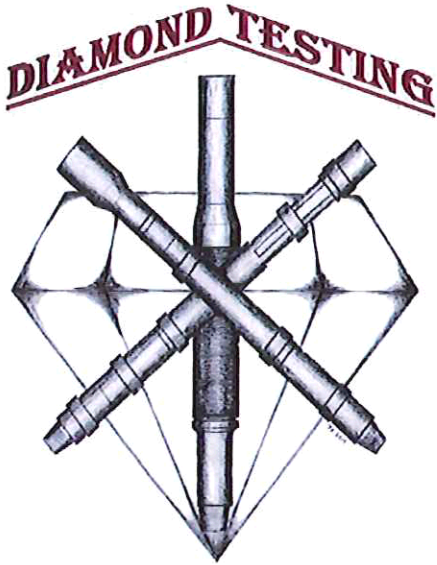




## DIAMOND TESTING GENERAL REPORT

**Jake Fahrenbruch, Tester**

Cell: (620) 282-8977 / Office: (800) 542-7313



### TEST INFORMATION

Well Name	Hall D #9
Company Name	Vess Oil Corporation
Formation	DST #3, Arbuckle 3545'-3596'
Test Type	Bottom-Hole with Jars & Safety Joint
Surface Location	Sec 2-12s-17w-Ellis Co.-KS
KB Elevation (SL)	2103.000
Gauge Name	5584
Start Test Date	2015/09/16
Start Test Time	20:04:00
Final Test Date	2015/09/17
Final Test Time	02:08:00
Job Number	F415
Contact	Dylan Klaus
Site Contact	Roger Martin

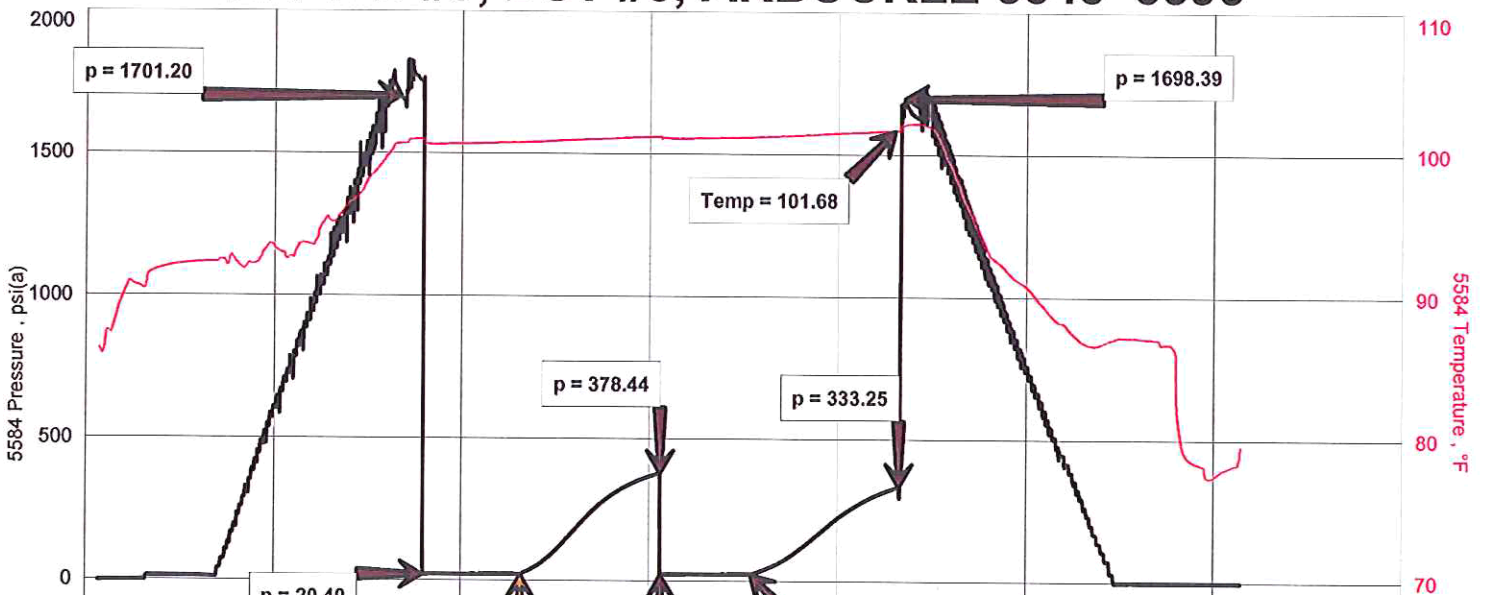
### TEST RESULTS

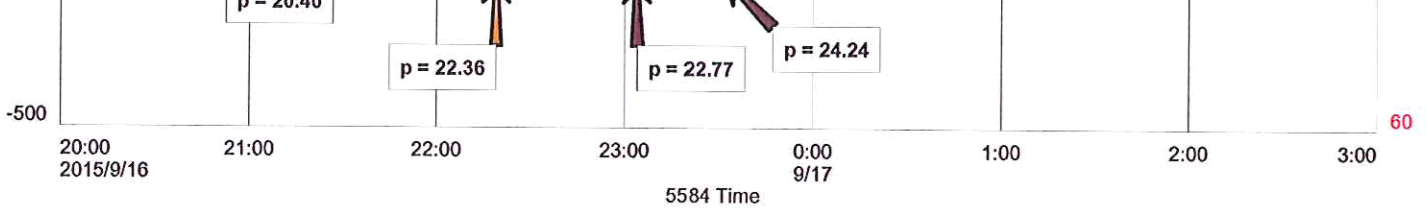
30 minute initial flow, weak blow, increased to .75"  
 30 minute final flow, no blow

TOTAL RECOVERED FLUID: 16'

- 1' Clean Oil 100% oil
- 15' Oil Specked Mud 3% oil, 97% mud
- TOOL SAMPLE: Slightly Oil Cut Mud 5% oil, 95% mud

## HALL D #9, DST #3, ARBUCKLE 3545'-3596'

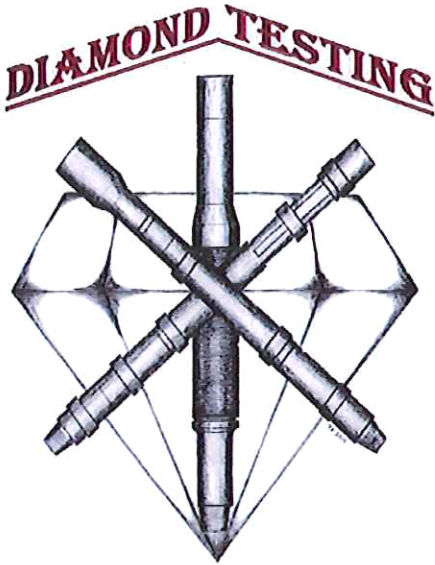




## DIAMOND TESTING GENERAL REPORT

**Jake Fahrenbruch, Tester**

Cell: (620) 282-8977 / Office: (800) 542-7313



### TEST INFORMATION

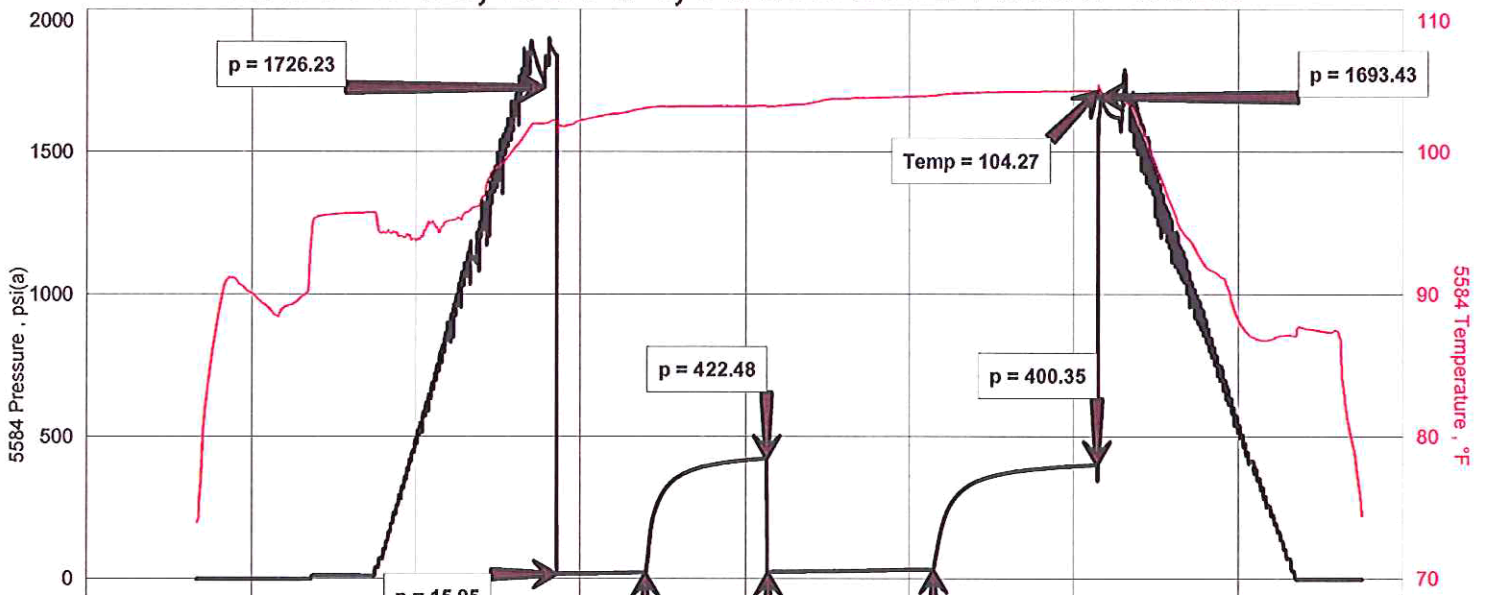
<b>Well Name</b>	Hall D #9
<b>Company Name</b>	Vess Oil Corporation
<b>Formation</b>	DST #4, Arbuckle 3596'-3626'
<b>Test Type</b>	Bottom-Hole w/ Jars & Safety Joint
<b>Surface Location</b>	Sec 2-12s-17w-Ellis Co.-KS
<b>KB Elevation (SL)</b>	2103.000
<b>Gauge Name</b>	5584
<b>Start Test Date</b>	2015/09/17
<b>Start Test Time</b>	17:40:00
<b>Final Test Date</b>	2015/09/17
<b>Final Test Time</b>	00:46:00
<b>Job Number</b>	F416
<b>Contact</b>	Dylan Klaus
<b>Site Contact</b>	Roger Martin

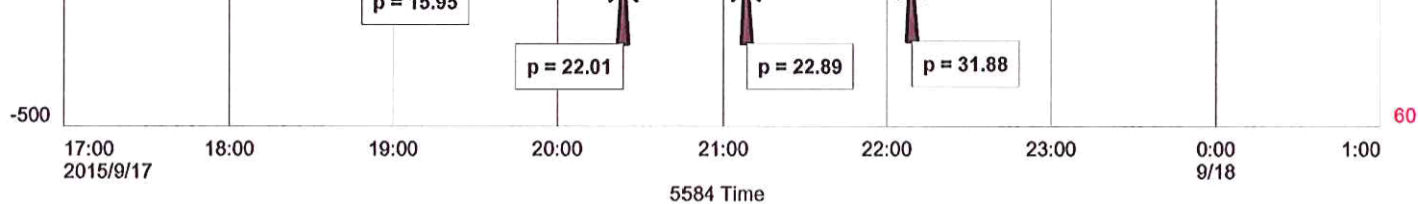
### TEST RESULTS

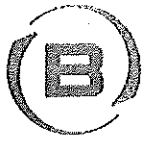
30 minute initial flow, weak blow, increased to 1.25" in bucket.  
 60 minute final flow, very weak blow, increased to .5" in bucket.

Recovered 35' of Watery Mud: 40% wtr, 60% mud  
 Tool Sample: SWCM 8% wtr, 92% mud  
 Chlorides: 14,000 PPM  
 RW: .46 ohm @ 70 Deg F  
 PH: 8.0

## HALL D #9, DST #4, ARBUCKLE 3596'-3626'







**BASIC**  
ENERGY SERVICES

SEP 30 2015

PAGE 1 of 1	CUST NO 1004542	YARD # 1718	INVOICE DATE 09/27/2015
INVOICE NUMBER <b>91926233</b>			

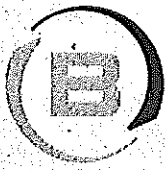
Pratt (620) 672-1201  
 B VESS OIL CORPORATION  
 I 1700 WATERFRONT PKWY BLDG 500  
 L WICHITA  
 L KS US 67206  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Hall D 9  
 O LOCATION  
 B COUNTY Ellis  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40878068	19843		Net - 30 days	10/27/2015

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 09/19/2015 to 09/19/2015</i>				
0040878068				
171812691A Cement-New Well Casing/Pi 09/19/2015 Cement 5 1/2" Longstring				
AA2 Cement	150.00	EA	6.80	1,020.00 T
Celloflake	38.00	EA	1.48	56.24 T
C-41P	29.00	EA	1.60	46.40 T
Salt	691.00	EA	0.20	138.20 T
FLA-322	113.00	EA	3.00	339.00 T
Mud Flush	500.00	EA	0.60	300.00 T
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	160.00	160.00
"Auto Fill Float Shoe 5 1/2" (Blue)"	1.00	EA	144.00	144.00
"Turbolizer, 5 1/2" (Blue)"	8.00	EA	44.00	352.00
"5 1/2" Basket (Blue)"	1.00	EA	116.00	116.00
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	1.80	180.00
Heavy Equipment Mileage	200.00	MI	3.00	600.00
"Proppant & Bulk Del. Chgs., per ton mil	835.00	EA	1.00	835.00
Depth Charge; 0001-4000'	1.00	EA	864.00	864.00
Blending & Mixing Service Charge	180.00	BAG	0.56	100.80
Casing Swivel Rental	1.00	EA	80.00	80.00
Plug Contalner Util. Chg.	1.00	EA	100.00	100.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	70.00	70.00
Gilsonite	750.00	EA	0.27	201.00 T
60/40 POZ	30.00	EA	4.80	144.00 T

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5,846.64
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	157.14
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	6,003.78
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 12691 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 9/19/15	DISTRICT	NEW WELL <input checked="" type="checkbox"/>	OLD WELL <input type="checkbox"/>	PROD <input type="checkbox"/>	INJ <input type="checkbox"/>	WDW <input type="checkbox"/>	CUSTOMER ORDER NO.:
CUSTOMER Vess Oil Corp	LEASE Hall "D"		WELL NO. 9				
ADDRESS	COUNTY Ellis	STATE KS					
CITY	STATE	SERVICE CREW Scott, Ed, Chuck					
AUTHORIZED BY Dylan Klaus	JOB TYPE: 5 1/2 long string enw						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE AM PM TIME
19845	.75						9/18/15 AM 7:00
19867	.25						9/18/15 AM 11:55
							9/19/15 AM 12:15
							9/19/15 AM 1:00
						MILES FROM STATION TO WELL	

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: Roger Martin  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP105	AA2 Cement	SK	150		2550.00	
CP105	60/40 POZ	SK	30		360.00	
CC102	Celloflake	lb	38		140.00	
CC105	C-41 P	lb	29		116.00	
CC111	Salt	lb	691		545.50	
CC129	FIA-322	lb	115		847.50	
CC201	Gilsonite	lb	750		502.50	
CF607	Latchdown Plug + Baffle 5 1/2	EA	1		400.00	
CF1251	Auto-fill Foot Shoe 5 1/2	EA	1		360.00	
CF1651	Turboliners 5 1/2	EA	8		880.00	
CF1901	Basket 5 1/2	EA	1		290.00	
CC151	Mud flush	Gal	500		750.00	
E100	Unit Mileage Pickup	MI	100		450.00	
E101	Heavy Equipment Mileage	MI	200		1500.00	
E113	Prop + Bulk Delivery	TA	835		2087.50	
CE200	Blending + Mixing Service	SK	180		252.00	
CE200	Depth Charge 3081-4110'	THIS	1		2160.00	
CE504	Pipe Container Utilization	FOK	1		250.00	
CE501	Casing Service Rental	EA	1		200.00	
5003	Service Supervisor	EA	1		125.00	
					SUB-TOTAL	17500.00

CHEMICAL / ACID DATA:


SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL  
VCS 5,846.64

SERVICE REPRESENTATIVE <u>[Signature]</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Roger Martin</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	--

FIELD SERVICE ORDER NO.



# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <i>Wess Oil Corp</i>	Lease No.	Date <i>9/19/15</i>
Lease <i>Hall D</i>	Well # <i>9</i>	County <i>Ellis</i>
Field Order # <i>17691A</i>	Station <i>Pratt KS</i>	Casing <i>5 1/2</i>
Type Job <i>5 1/2 Long string</i>	Formation <i>cnw</i>	Depth <i>3629</i>
		Legal Description <i>2-17-17W</i>
		State <i>KS</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<i>5 1/2</i>								
Depth <i>3629</i>	Depth	From	To	Pre Pad	Max		5 Min.	
Volume <i>81e 37</i>	Volume	From	To	Pad	Min		10 Min.	
Max Press <i>2000</i>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <i>5 1/2</i>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load	

Customer Representative <i>Royce</i>	Station Manager <i>Kevin Goodin</i>	Treater <i>Scott Graves</i>
Service Units <i>78970 84981 19843 19960 19862</i>		
Driver Names <i>Scott Eddy - Chuck -</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>7:00</i>					<i>Orientation Safety Meeting</i>
<i>7:20</i>					<i>Run float equipment</i>
<i>9:00</i>					<i>Basket #4 Turbos #1, 4, 5, 6, 9, 11, 12</i>
<i>4:35</i>	<i>150</i>			<i>4</i>	<i>Break circulation (Rotate Csg)</i>
<i>11:36</i>	<i>200</i>		<i>5</i>	<i>4.2</i>	<i>Pump 500 gallons Mud Flush</i>
<i>11:39</i>	<i>200</i>		<i>12</i>	<i>4.2</i>	<i>Pump 1100 spacer</i>
<i>11:40</i>	<i>400</i>		<i>5</i>	<i>5.5</i>	<i>Mix 150 sacks AA2 at 15.3 ppg</i>
<i>11:47</i>			<i>36.5</i>		<i>shut down</i>
<i>11:48</i>					<i>check pump &amp; lines clean</i>
<i>11:50</i>	<i>0</i>			<i>5.5</i>	<i>Release plug Start Displacement</i>
<i>12:01</i>	<i>300</i>		<i>60</i>	<i>5.6</i>	<i>hit pressure</i>
<i>12:03</i>	<i>1000</i>		<i>10</i>	<i>3</i>	<i>Reduce Rate</i>
<i>12:10</i>	<i>1000</i>		<i>15</i>	<i>3</i>	<i>Plug landed</i>
<i>12:10</i>	<i>1800</i>				<i>increase pressure</i>
<i>12:11</i>					<i>shut down</i>
<i>12:11</i>					<i>Release pressure NO Returns</i>
<i>12:15</i>	<i>0</i>		<i>8.5</i>	<i>3</i>	<i>Plug hit back 30sks 60/10000</i>
					<i>Job Complete</i>
<i>8:20 to 10:50pm</i>					<i>working on Rotating head plug</i>
					<i>Pressure on Displacement Peaked at 1200, low at 400</i>
					<i>Very erratic</i>



SEP 13 2015

PAGE	CUST NO	YARD #	INVOICE DATE
1 of 1	1004542	1718	09/16/2015
INVOICE NUMBER			
91916931			

Pratt (620) 672-1201  
 B VESS OIL CORPORATION  
 I 1700 WATERFRONT PKWY BLDG 500  
 L WICHITA  
 L KS US 67206  
 T  
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Hall D 9  
 O LOCATION  
 B COUNTY Ellis  
 S STATE KS  
 I JOB DESCRIPTION Cement-New Well Casing/Pi  
 T  
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
40874971	19843		Net - 30 days	10/16/2015

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 09/11/2015 to 09/11/2015</i>				
0040874971				
171812768A Cement-New Well Casing/Pi 09/11/2015				
Cement 8 5/8 Surface				
A-Con Blend Common	335.00	EA	6.84	2,291.40 T
Common Cement	150.00	EA	6.08	912.00 T
Celloflake	121.00	EA	1.41	170.13 T
Calcium Chloride	1,227.00	EA	0.40	489.57 T
"Top Rubber Cmt Plug, 8 5/8""	1.00	EA	85.50	85.50
"8 5/8"" Basket (Blue)"	1.00	EA	119.70	119.70
Flapper Type Insrt Float Valve 8 5/8"(BI	1.00	EA	106.40	106.40
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	1.71	171.00
Heavy Equipment Mileage	300.00	MI	2.85	855.00
"Proppant & Bulk Del. Chgs., per ton mil	2,280.00	EA	0.95	2,166.00
Depth Charge; 1001'-2000'	1.00	EA	570.00	570.00
Blending & Mixing Service Charge	485.00	BAG	0.53	258.02
Plug Container Util. Chg.	1.00	EA	95.00	95.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	66.50	66.50

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	8,356.22
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	270.42
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	8,626.64
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET  
1718 12768 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB 09-11-15 DISTRICT PRATT KS		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER VESS OIL		LEASE HALL D 9 WELL NO.							
ADDRESS		COUNTY ELLIS STATE KS							
CITY STATE		SERVICE CREW <i>Callaway, Cook, Day, Givens, J. R. S. and</i>							
AUTHORIZED BY		JOB TYPE: CPW 8 3/8 SURFACE							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED 9-10-15	DATE	AM	TIME
						ARRIVED AT JOB	9-10-15	AM	8:00
19843	65					START OPERATION	9-11-15	AM	6:40
19862	10					FINISH OPERATION	9-11-15	AM	7:43
19860	35					RELEASED	9-11-15	AM	8:00
						MILES FROM STATION TO WELL			100

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *W. L. White*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 101	A-COW cement	SK	335		6,030.00
CP 100C	Common cement	SK	150		2,400.00
CC 102	Cellulose	lb	121		447.70
CC 109	Calcium chloride	lb	1227		1,288.35
CF 105	TOP Ditch Plug 8 3/8	SA	1		225.00
CF 1453	Topsoil Stand	SA	1		280.00
CF 1903	Basket	SA	1		215.00
C 100	Water	m3	100		450.00
E 101	Head Cement	m3	300		2,250.00
Q 113	Bulk Cement Delivery	7m	2280		5,700.00
RE 207	Drill chg 1000' 2500'	SA	1		1,500.00
RE 240	Bl. Dip. Cement	SK	485		679.00
RE 504	Plug Cement 8 3/8	SA	1		250.00
3000	Drum Cement	SA	1		175.00
SUB TOTAL					24,990.05

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
Grand TOTAL		8,356.22

SERVICE REPRESENTATIVE *Robert [Signature]* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *W. L. White*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_

Customer: <b>VESS OIL</b>	Lease No.	Date: <b>09-10-15</b>
Lease: <b>HALL</b>	Well # <b>9</b>	
Field Order # <b>12708</b>	Station	Casing <b>8 5/8</b> Depth <b>1200</b> County <b>ELLIS</b> State <b>KS</b>
Type Job <b>CNW 8 3/8 SURFACE</b>	Formation	Legal Description <b>2-12-17</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<b>8 5/8</b>							Max	5 Min.
Depth <b>1297</b>	Depth	From	To	Pre Pad	Min			10 Min.
Volume <b>80</b>	Volume	From	To	Pad	Avg			15 Min.
Max Press <b>500</b>	Max Press	From	To	Frac	HHP Used			Annulus Pressure
Well Connection <b>P.C.</b>	Annulus Vol.	From	To	Flush	Gas Volume			Total Load
Plug Depth <b>1200</b>	Packer Depth	From	To					

Customer Representative	Station Manager <b>DAVE SCOTT</b>	Treater <b>Robert Jullian</b>	
Service Units	1984-1990	1990-1996	1996-2002
Driver Names	<b>Willie Edwards</b>	<b>MASSIE</b>	<b>BRAND</b>

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>8:00</b>					ON LOC
					RUN 8 5/8 24" CSP.
					CASING ON BOTTOM
<b>6:30</b>					HOOK UP CIRC.
<b>6:40</b>	<b>250</b>		<b>2</b>	<b>45</b>	8L SPACER
			<b>147</b>		MIX CNT 335 BK A-COJ CNT 3% OIL
			<b>32</b>		MIX TAIL 150 BK COM. 3% OIL 1/4 CT
					CNT MIXED SHUT DOWN
					Release Plug
<b>7:45</b>	<b>500</b>		<b>80</b>	<b>4</b>	SH. DEEP
					PLUG DOWN
					CIRC 15 BK CNT PIT
					JOB COMPLETE
					THANK YOU

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**ATTACHMENT TO ACO-1**

**Hall D #9 – API #15-051-26803-00-00**  
NW NW SE NW Sec. 2-12S-17W  
3810' FSL & 3860' FEL  
Ellis County, KS

**Elevation:** 2098' GL  
2103' KB

	<b>LOG TOPS</b>	<b>SAMPLE TOPS</b>
Anhydrite	1295 +808	1290 +818
B/Anhydrite	1328 +775	-----
Topeka	3037 -934	3037 -934
Heebner	3272 -1169	3271 -1168
Toronto	3294 -1191	3294 -1191
Lansing	3318 -1215	3316 -1213
Stark	3512 -1409	3508 -1405
B/KC	3553 -1450	3550 -1447
Arbuckle (LS Cap)	3575 -1472	3575 -1472
Arbuckle (Dolo)	3584 -1481	3582 -1479
RTD	3627 -1524	3626 -1523

**DST #1** 3267-3420' **Zone: Toronto & LKC A-G**  
**Times:** 30-45-60-60  
**1<sup>st</sup> open:** Weak blow, increased to 2 ½" in 30 min  
**2<sup>nd</sup> open:** Weak blow, increased to 4" in 60 min  
**Rec.:** 45' of OWCM (10% oil, 15% wtr, 75% mud)  
**Tool Sample:** OCMW (15% oil, 55% wtr, 30% mud)  
**Chlorides:** 27,500 PPM  
**IHP:** 1599 psi **FHP:** 1598 psi  
**IFP:** 18-29 psi **FFP:** 36-40 psi  
**ISIP:** 323 psi **FSIP:** 309 psi **TEMP:** 100F

**DST #2** 3435-3565' **Zone: LKC H-L**  
**Times:** 30-45-60-60  
**1<sup>st</sup> open:** Weak blow, increased to 5" in 30 min  
**2<sup>nd</sup> open:** Weak blow, increased to 1.75" in 60 min  
**Rec.:** 75' of SOSM (1% oil, 99% mud)  
**Tool Sample:** SOCM (4% oil, 96% mud)  
**IHP:** 1706 psi **FHP:** 1705 psi

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IFP: 20-45 psi  
ISIP: 208 psi

FFP: 45-63 psi  
FSIP: 176 psi

TEMP: 101F

**DST #3**      3545-3596'      **Zone: LKC L - Arbuckle**

**Times:** 30-45-30-45

**1<sup>st</sup> open:** Weak blow, increased to 3/4" in 30 min

**2<sup>nd</sup> open:** No blow

**Rec.:** 1' of CO (100% oil)  
15' of OSM (3% oil, 97% mud)

**Tool Sample:** SOCM (5% oil, 95% mud)

IHP: 1701 psi

FHP: 1698 psi

IFP: 20-22 psi

FFP: 23-24 psi

ISIP: 378 psi

FSIP: 333 psi

TEMP: 102F

**DST #4**      3596-3626'      **Zone: Arbuckle**

**Times:** 30-45-30-45

**1<sup>st</sup> open:** Weak blow, increased to 1.25" in 30 min

**2<sup>nd</sup> open:** Very weak blow, increased to 0.5" in 60 min

**Rec.:** 35' WM (40% wtr, 60% mud)

**Tool Sample:** SWCM (8% wtr, 92% mud)

**Chlorides:** 14,000 PPM

IHP: 1726 psi

FHP: 1693 psi

IFP: 16-22 psi

FFP: 23-32 psi

ISIP: 422 psi

FSIP: 400 psi

TEMP: 104F