

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. 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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Plugs set above Arbuckle: 35 sx; 50' below surface casing: 35 sx, 60'-0: 20 sx,
 Rathole: 20 sx; Finished 3:30 AM 08/28/2017.

Log tops by P. Ramondetta, Geologist, Vess Oil Corporation

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

(Page Length = 128")

LITH	POROSITY	DRILLING TIME MIN/FT	DST	SAMPLE DESCRIPTION	REMARKS
				310' spl} Abndt cm & Rr rd-gn SH. Rr LS: cm-gy Wkst- Pkst, Pr visbl pp Poro w/spt'd FLR & STN, VI SFO & Cut.	{VSI SFO}
				341' spl} (LS: Trc AA w/FLR- STN- Trc SFO) LS: VAbndt dk-lt gy-wh, mot Wkst- Pkst, VRr 2Rx, Pred Pr Poro- NVP w/NS.	
				372' spl} SH: gy-blk & gn-gy.	
				372' spl} LS: wh-bf-tn, mot Pkst- Wkst, sm Vgrnlr Pkst- Grst, Trc Fr- Gd IGr Poro, Trc STN-FLR, Trc SFO & Cut. sm chlky.	{Trc SFO}
				403' spl} Abndt SH: Pred dk gy- blk, semicarb.	
				403' spl} sm LS: cm-Tn-gy, sm rich Tn OSTN Wkst- Pkst, Trc Md2Rx, Pr- Fr Poro: IX Poro, IGr Poro, Trc Gd visbl Poro, subsat- sat Tn OSTN & FLR, SI SFO, VSI Odor.	{SI SFO}
				434' spl} VAbndt SH: (~80%) dk gy-bly, sm LS AA & gy Mdst, sm argil.	
				465' spl} VAbndt SH: (>60%) Pred dk gy-blk, sm pyrct, sm	

-c-(connection)

-300

5

-c-

-350

5

-c-

-400

-c-

carb.
LS: lt-dk gy, dn Mdst- Wkst, sm argil, Rr Pkst, Trc Pkst
w/Poro, Trc FLR- STN- SFO & Cut.

-450

496' spl} LS: lt gy-wh-cm-tn, Pred dn- ux (microcrystalline)
& Mdst- Wkst, sm argil, Trc uFrc 2Rx, Pred VPr- NVP,
NS.

{VSI SFO}

496' spl} Trc Sd Clust: Vfn- Trc fn Gr'd, silty w/Fr Poro,
fribl w/sat STN-FLR, VSI SFO.

-500

527' spl} Trc LS AA w/STN.
sm LS: tn-gy-bn, dn ux Y Mdst- Wkst w/Pred VPr- NVP
w/NS.
& SH: AA.

{VSI SFO}

527' spl}{~50%} VRr SILTS- SS- SD CLUST: Gy-Tn
OSTN, Vfn Gr'd, silty, VPr- Fr Poro, subsat- sat STN &
FLR, VSI SFO & Cut, VSI Odor.

558' spl} ~50% SH: blk subcarb- carb & gn-gy.
Abndt LS: lt gy-tn & cm-gy-wh, dn- ux & Mdst- argil, sm
argil, sm pyrtc, Pred VPr Poro- NVP, NS.

-550

589' spl} SH: AA, gy-bk & gn-gy, sm silty, micac, sm calc.
LS: AA, gy-tn, dn hd, ux- Rr fnx, sm argil, dn Mdst.

620' spl} SH- SILTS: sm gn-gy, calc & lmy.
LS: gy-tn, dn- ux & argil- dn Mdst w/Pred VPr- NVP w/NS.
Pred SH: AA w/SILTS: AA.

-600

620' spl} Trc Sndy SILTS: gy-Tn OSTN & FLR, SI- Fr
SFO- filmy, gsy F.Oil and milky Cut.
Trc Silty SD CLUST: gy-Tn STN, Vfn Gr'd, Fr Poro w/sat
FLR- STN, SFO & Cut, VSI Odor.

{SI- Fr SFO}

615' spl} {ADMIRE 650} SILTY SS- SILTY SD CLUST &
fribl SD CLUST: (>5% ~10% Sd Clust w/STN & FLR-
SFO)

615' (+761)
ADMIRE 650
{Fr- Gd SFO}

651' spl} SS- SD CLUST: gy-bf-Tn OSTN, Vfn- fn Gr'd, Rnd'd- subanglr, Sl- Vsilty & micac, subfribl to Vfribl w/Fr- Gd lGr Poro w/subsat- sat brt FLR & Fr- Gd SFO- Gsy & filmy & Fr- Gd strmg milky Cut, Frly strng Odor.

{Fr- Gd SFO}

-650

-C-

682'&714'spls} VRr (~5%) sat Sd Clust: AA, Vfn- fn Gr'd w/Fr- Gd Poro, FLR- STN, SFO & Cut, & Rr SILTS: gy-Tn OSTN, micac, sm sndy, Vfn Gr'd w/VPr- Pr Poro w/FLR- SFO- STN- Cut.
Abndt SILTS- SH: lt-dk gy, micac.

-700

-C-

744' spl} LS: gy-tn, argil Wkst- Pkst, VPr- NVP.
Abndt SILTS- SH: AA, Rr SILTS: AA w/FLR- SFO- STN & Cut.
sm gy-blk SH & gy, silty micac SH.

-C-

744' spl} sm LS: tn-gy-wh, mot Wkst- Pkst, sm fos & ux-fnx, VPr- NVP, NS.

-750

-C-

775' spl} Rr SH: gy-blk, sm carb.
Abndt LS: wh-gy-tn, dn Mdst- Wkst, Rr Pkst w/VPr- NVP, NS.

-C-

806' spl} Incrs SH: (~50% SH) gy-blk & blk carb & gn-gy.
dn LS: AA.

-C-

806' spl} Frly Abndt LS: wh-gy-tn, prt chlky, ux- fnxln w/VRr Mdx- Crsx- 2Rx, Rr fos Wkst- Pkst. Rr Pr- Fr visbl Poro w/NS.

-800

-C-

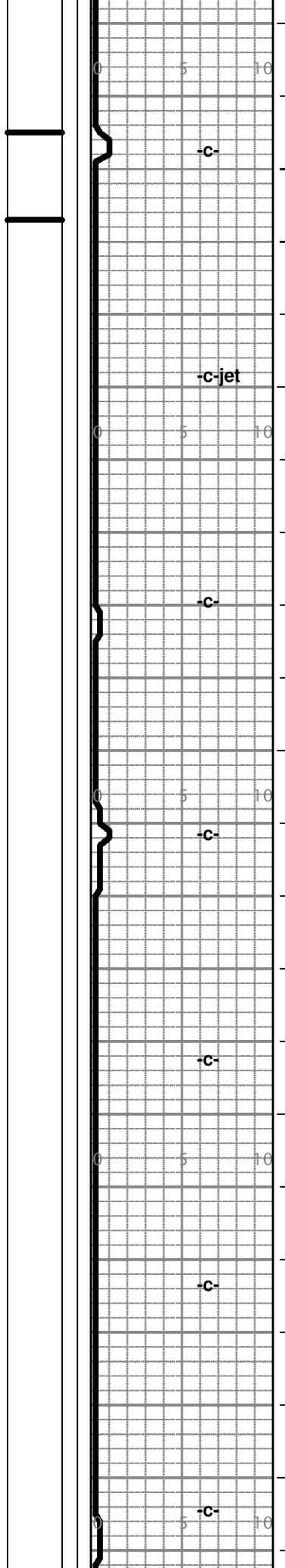
838' spl} Abndt LS: gy-tn-wh, sm mot Wkst- Pkst & ux- fnx w/Pred VPr- NVP w/NS; sm argil Wkst.

838' spl} SH: dk-lt gy.

-C-

868' spl} LS: tn-dk gy-bn, Wkst- Pkst & dn- ux-fnx w/VPr- NVP w/NS. Abndt lt-dk SH- SILTS: micac, VRr (<5%) gy- Tn SILTS w/FLR- STN- SFO & Cut

{Trc SFO}



-850

899' spl} SH: AA, lt-dk gy, sm silty & micac.

899' spl} {WHITE CLOUD LS} sm LS: tn-gy-bn, dn- ux & argil- shly mdst- Wkst, VPr- NVP, NS. SH- SILTS: dk-lt gy, sm micac.

899' spl} {WHITE CLOUD SD} VRr (~5%) SS-Silty SD CLUST: gy-Tn OSTN, Vfn Gr'd, well sort'd, rnd'd- subrnd, well cmt'd- fribl w/Pr- Fr visbl & aprnt Poro w/sat- subsat FLR & STN, VSI-SI SFO- filmy, Gsy.

-c-

-c-jet

-900

930' spl} SILTY SH: lt-dk gy, sm micac.

962' spl} Abndt LS: gy-wh & tn, dn Mdst- Wkst, sm fr-mdx- 2Rx, subchiky to grnlr- dn Pkst.

-c-

993' spl} SH: gy & lt gy SILTS & LS: gy, dn Mdst- Wkst & tn-gy mot Pkst, prt argil, VPr- NVP.

-950

1024' spl} SH- SILTS: dk-lt gy, micac, sm sndy, VRr OSTN- FLR- SFO & Cut.

1024' spl} VRr (<5%) Silty SD CLUST: gy-Tn OSTN, Vfn Gr'd, silty, well sort'd, well cmt'd- subfribl w/Pr visbl Poro- sily w/spt'd- sat FLR & lt Tn OSTN, VSI- SI SFO- filmy, Gsy & SI Odor.

-c-

-1000

1055' spl} ~40% SH: md gy, micac & silty.

1055' spl} Abndt (~60%) LS: wh-gy-tn, fos, prt chiky Pkst- Wkst, fusl w/Pr fosmldc Poro w/NSFO.

-1050

1086' spl} LS: AA, sm gy, argil & pyrte Wkst- Pkst.

<p>865' (+511) WHITE CLOUD LS</p> <p>877' (+499) WHITE CLOUD SD {VSI-SI SFO}</p>	
<p>{VSI- SI SFO}</p>	

1086' spl} SILTS- SH: dk-lt gy, micac, sm calc.

1086' spl} SH- SILTS: gy-blk.

1119' spl} LS: tn-gy-bn, sm mot, ux- fnx Wkst- Pkst, SI fos, Pred dn & argil, VRr (<5%) w/Pr- Fr pp- vug Poro, IGr Poro, IX Poro w/spt'd- subsat STN- FLR, VSI SFO & Cut. SH: gy-blk, micac, sm calc.

{VSI SFO}

-1100

1148' spl} LS: tn-wh, sm mot, Pred dn Wkst- Pkst, ux- fnx, sm fos, Pr- VPr visbl Poro: pp- vug & mldc Poro w/ VRr <2% w/spt'd- subsat STN-FLR, Trc SFO & Cut. >50% SH: gy-blk & gn-gy.

{Trc SFO}

-1150

1179' spl} VAbndt LS: wh-gy-tn, sm mot, prt chlky Wkst- Pkst w/VPr- Pr visbl IGr Poro: pp Poro w/VRr FLR & Trc SFO- STN- Cut.

{Trc SFO}

1210' spl} ~30% SH: dk gy- Pred blk. LS: gy-tn-wh, sm most Wkst- fos Pkst & ux- fnxln w/IX Poro, IGr Poro, VRr <5% w/spt'd- subsat FLR & STN, VSI SFO & Cut.

VSI SFO)

-1200

1241' spl} ~30% SH: Pred dk gy-blk, sm carb.

1241' spl} & LS: gy-tn-wh, sm mot Wkst- fos Pkst & ux- fnx, Pred Pr visbl Poro & ux- fnxln w/IX Poro & IGr Poro, VRr <5% w/spt'd- subsat FLR- STN, VSI SFO & Cut.

{VSI SFO}

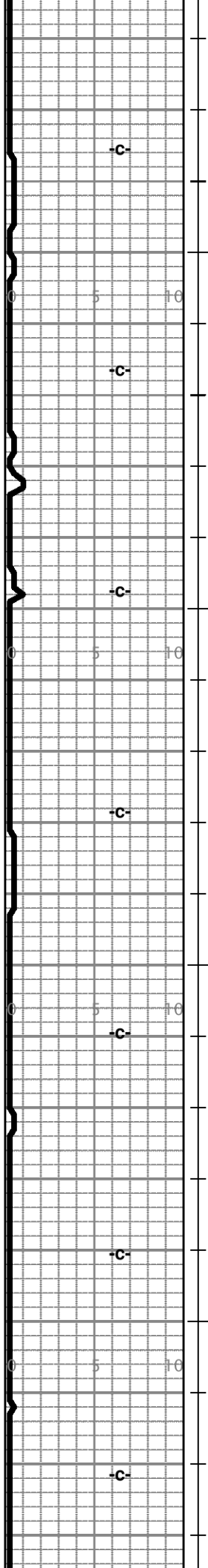
-1250

1272' spl} (VRr SH: AA) Abndt LS: wh-tn-gy, prt chlky (sm Vchlky) Wkst- Pkst, sm finx- Mdx's- Trc Crsx- 2Rx; sm Pr- Fr Poro: IX Poro, IGr Poro, pp- vug Poro, ~10% w/FLR, VSI SFO & STN, Cut.

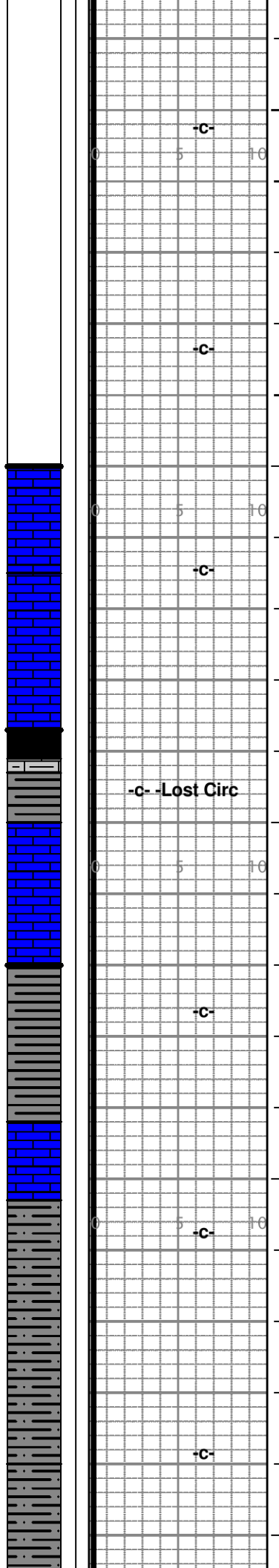
{VSI SFO}

1303' spl} LS: wh-tn-gy, prt chlky & ux- Mdxln, Rr prt Crsxln- VCrsx- 2Rx, fos Pkst, Fr- VGd Aprnt Poro: IX Poro, IGr Poro, vug Poro, aprnt Frac Poro, 2Rx, ~20% w/spt'd- subsat FLR- IGr Poro, VSI SFO & STN & Cut- STN- Cut.

{VSI-SI SFO}



w/spt'd- sat FLR, VSI- SI SFO, lt STN & Cut, SI Odor.



-1300
-1350
-1400
-1450
-1500

1334' spl) VAbndt SH & SILTS: (>80%) dk-lt gy, sm micac, sm pyrct & sm calc. (Rr LS: AA)

1365' spl) SH: Pred dk gy- blk, sm gn-gy.

1365' spl) {OREAD} LS: cm-tn & gy-wh, sm mot Wkst-Pkst, prt chlky, sm dn Mdst, Pred Pr- NVP, NS.

1396' spl) VAbndt LS: wh-tn-gy, prt chlky Pkst- sm grnlr & Wkst & ux- Mdxln w/Crs- VCrs 2Rx w/Pr- Fr visbl Poro: pp- vug Poro, IGr Poro, IX Poro w/sm Gd aprnt Poro- 2Rx, Trc STN-FLR & Cut, Trc SFO, Pred NSFO, NO. SI Cherty.

1458' spl) {HEEBNER} SH: Abndt blk carb & Vcarb. (sm LS AA)
sm LS: gy-bn, cryptox- ux, dn hd, sm argil- shly & dk gy & gn-gy SH.

-c- -Lost Circ

1458' spl) LS: cm-tn, gy-wh, ux- fnx, VRr Mdx- Crsx's- 2nd Rx, sm ool & fos Pkst, sm Fr- Gd Poro: pp- vug Poro, mdc Poro, IX Poro, IGr Poro, spt'd- sat FLR, VSI- SI SFO, spt'd- subsat STN, Fr strmg milky Cut.

1489' spl) {DOUGLAS} VAbndt SH: (>90% SH) Pred dk gy, sm blk carb.

1489' spl) sm LS: dk gy, dn Mdst & cryptox- ux argil.

1489' spl) SH: gy-blk, pyrct, sm calc & lmy, sm dn & argil LS- Mdst, AA.

1520' & 1551' spl) sm SILTS: dk-lt gy, sm sndy, Vfn- fn Gr'd, sm calc.
Abndt dk gy SH: sm calc, sm micac.
Sndy calc SILTS: dk-lt gy.

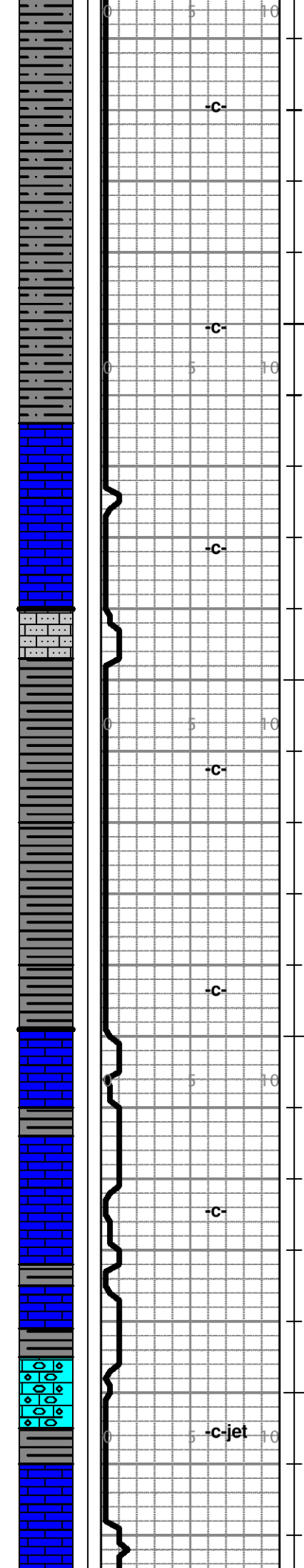
1350' (+26)
OREAD

{Trc SFO}

1387' (-11)
HEEBNER

{VSI- SI SFO}

1420' (-44)
DOUGLAS SH



1582' spl} SH- SILTS: dk gy- blk, sm sndy.

1582' spl} Rr (~10%) LS: wh-gy-tn, sm mot- prt chlky Pkst & ux- Mdxln, VRr Crsx's- 2Rx, Pr- Fr Poro: pp- vug Poro, IX Poro, IGr Poro, spt'd- subsat FLR & It Tn STN, SI SFO. VRr SD CLUST: gy, Vfn- fn Gr'd, silty, Fr Poro, SI- Fr SFO, FLR.

1613' spl} {IATAN} Abndt SD CLUST: lt-md gy, Vfn- fn Gr'd, Pred silty, calc, micac, well cmt'd- fribl, Pr- Fr Poro, VRr FLR- STN, SI- Fr SFO- Cut. LS: cm-tn w/rich Tn OSTN, ux- crsxn w/sm VCrS 2Rx, Pr- Fr IX Poro, vug Poro, spt'd- sat FLR & OSTN, Fryl strng Odor.

1644' spl} VRr LS: AA w/SFO- FLR- STN- Cut. Pred SH: dk gy, sm dn & argil Mdst- LS w/VPr- NVP.

1675' spl} ~70% SH: dk gy to blk, sm Silts, AA.

1675' spl} ~30% {LANSING} LS: wh-gy-tn, prt chlky Wkst- Pkst & ux- fnxln w/Md- VCrSx's- 2Rx, Rr Pr- Fr Poro: pp- vug Poro & IX Poro w/spt'd- sat STN & FLR, VSI SFO& Cut, VSI Odor.

1706' spl} sm SH (~30%): Pred dk gy- blk, AA.

1706' spl} ~70% LS" gy-tn-wh, prt chlky, Pred dn to VPr visbl Poro, <10% w/Pr- Fr Poro: pp Poro, IX Poro, IGr Poro, spt'd- sat STN- FLR, VSI SFO.

1737' spl} LS: wh-bf-gy w/rich Tn OSTN, prt chlky, fn ool & fos Pkst- Grst, ux- fnxln, Rr prt Mdx- Crsx- 2Rx, Fr- VGd Poro: pp Poro, IX Poro, IGr Poro, vug Poro, mldc Poro w/spt'd- sat rich Tn STN & brt FLR, VSI- SI SFO, SI- Gd strng to mlky Cut, Fr Odor.

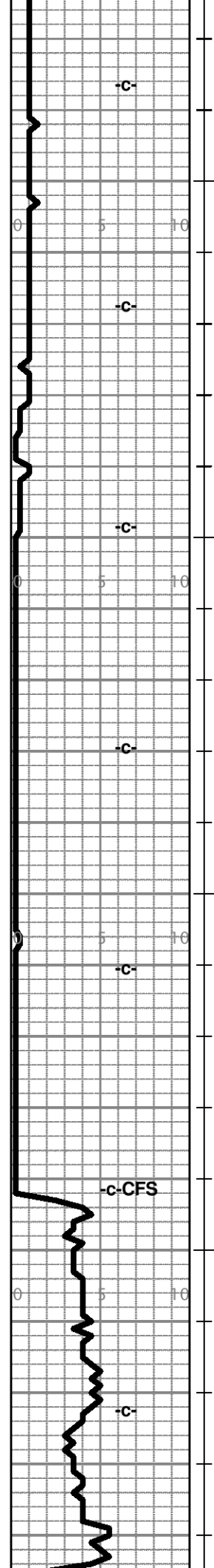
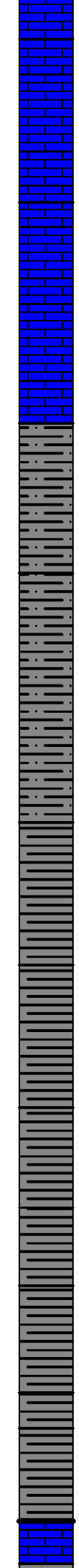
{SI SFO}

1590' (-214)
IATAN
{SI- Fr SFO}

1649' (-273)
LANSING
{VSI SFO}

{VSI SFO}

{VSI- SI SFO}



1768' spl} (VRr LS: AA w/FLR-STN-SFO & Cut) Pred LS: wh-bf-tn, prt chlky Wkst- Pkst, SI Cherty w/Pr- NVP, Pred barren.

-C-

-1750

1799' spl} LS: wh-tn-gy, mot, prt chlky Wkst- Pkst, sm ux-fnx, Pred VPr- Pr Poro, VRr Fr Poro: pp Poro, lGr Poro, IX Poro, Trc FLR, Trc STN, Trc SFO & Cut. >99% barren w/Pr- NVP.

{Trc SFO}

-C-

1830' spl} ~90% SH & SILTS: gy-blk, sm calc & lmy, SI micac & pyrtc.

-1800

-C-

1861' spl} SH-SILTS: dk-md gy, calc, Vfnly sndy.

-C-

1893' spl} SH: md-dk gy, sm calc.

-1850

-C-

1893' circ spl} SH: AA.

1900' spl} SH: dk gy- blk.

-c-CFS

SH: dk gy, AA, sm calc.

BIT TRIP SHS= 1 deg.

-1900

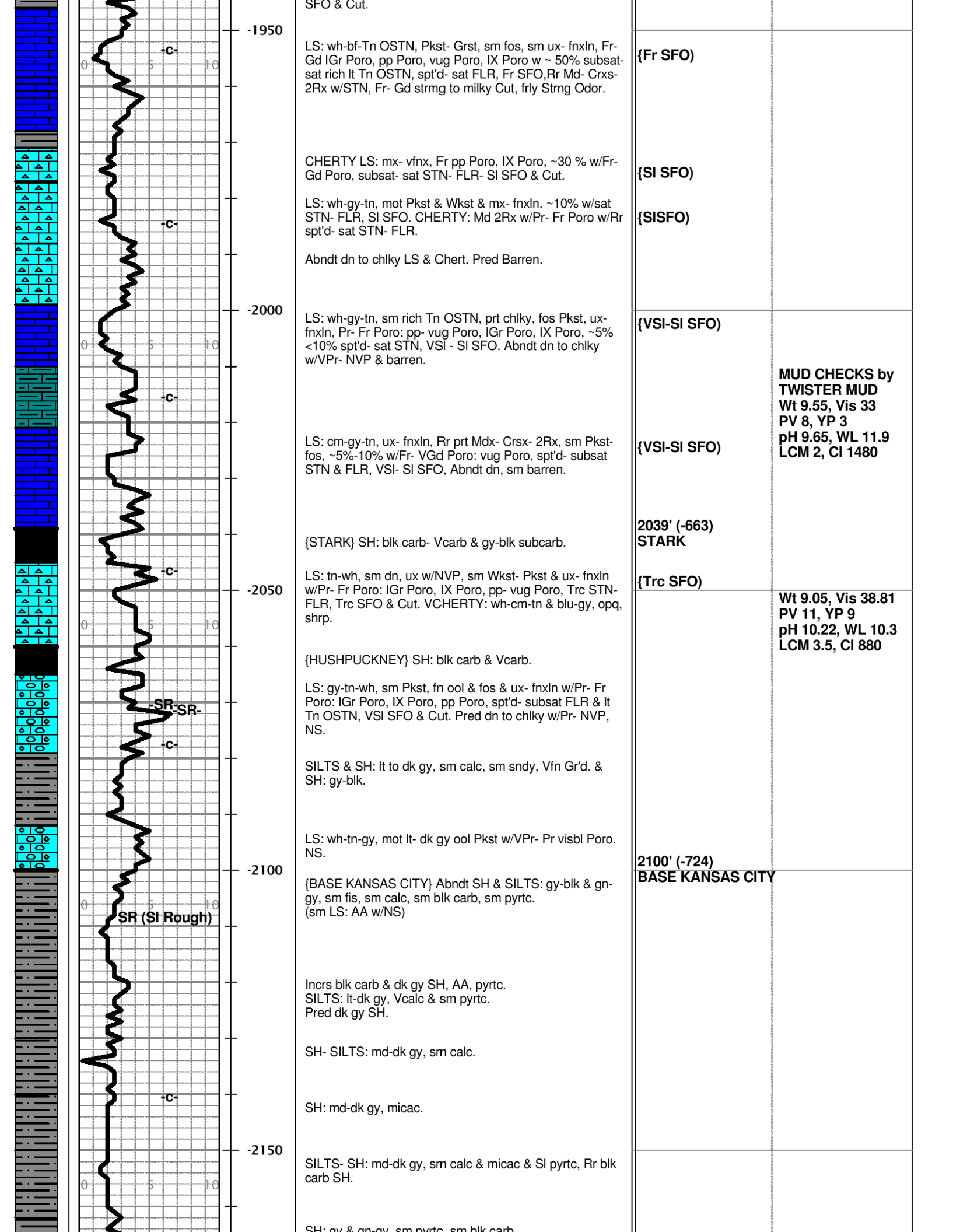
SH: AA, VRr pyrtc.

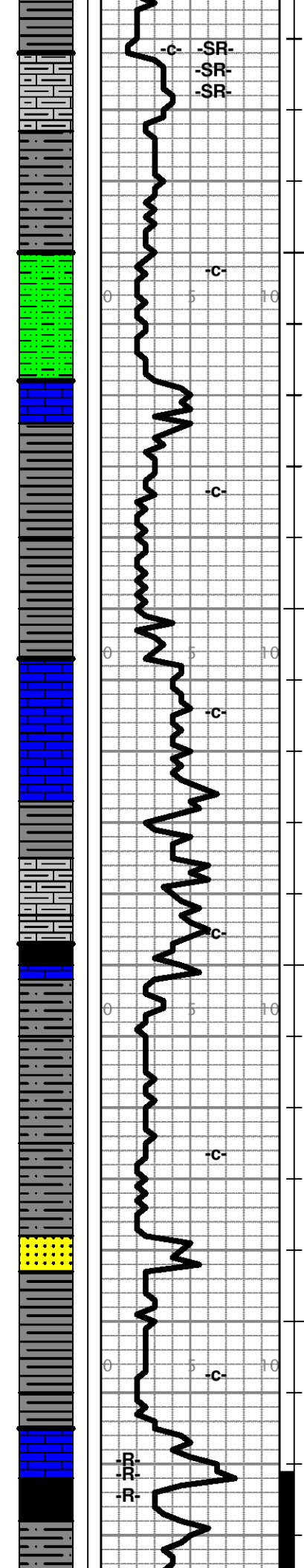
-C-

SH: md-dk gy, sm calc,
SH: AA, sm pyrtc, sm blk carb.

{KANSAS CITY} LS: gy-tn-wh, mot Wkst & dn Mdst, sm SH: AA, Trc ux- Vfnxln Poro: IX Poro w/FLR- STN, Trc

1938' (-562)
KANSAS CITY
{Trc SFO}





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

{CHECKERBOARD} LS: tn-gy, dn- ux- Mdx, sm argilshly, VPr- NVP, Lithogr Mdst.

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

-2200

{HEPLER} SILTY SS- SNDY SILTST- SD CLUST: lt-md gy, Vfn Gr'd, Pred Vsilty & fn Gr'd, well cmt'd to subfribl, Pr- Fr visbl aprnt Poro. ~40% w/FLR, Fr SFO- filmy Gsy, SI- Fr Cut, Fr Odor.

{ALTAMONT} LS: cm-gy-tn, Pred dn Mdst & Wkst & Rr Pkst w/Pr- NVP, NS.

Abndt SH: dk gy & gn-gy & sm blk carb SH.

SH: dk gy & gn-gy, Incrs blk carb.

-2250

SH: Pred dk gy- blk & blk carb.

{PAWNEE} LS: gy-tn-wh, Pred dn, sm chlky Mdst & Wkst, Rr mot ool Pkst, Pr- NVP, NS.

SH: dk gy-blk & gn-gy, sm calc & lmy SH.
LS: dk gy-blk, dn hd ux- cryptox & sm shly. SH: blk carb- Vcarb. (shrp incrs in 2290' spl)

LS: gy-tn, dn hd, ux- Mdst, sm argil- shly.

LS: tn-gy, Pred dn- ux, sm Wkst- Pkst, VPr- NVP, NS.

-2300

{CHEROKEE} SH: blk carb- Vcarb.
LS: gy-tn, dn Mdst.
SH: gy-blk & gn-gy, fis.
SILTY SH: lt-md gy, micac.

SILTY SH: lt-md gy, micac.

SILTY micac SH: AA & SH: dk gy- blk , Rr carb SH.

SD CLUST- SS: tn & cm, Vfn- fn Gr'd, Pred well cmt'd- calc & silty, micac, VPr- Pr visbl Poro, VRr <5% w/FLR, VSI SFO- STN, Cut. (Rr Sd Clust AA w.Pr visbl Poro, subsat STN- SFO- FLR- Cut)

-2350

Pred SH: gy-blk, micac, SI pyrct, sm blk carb.

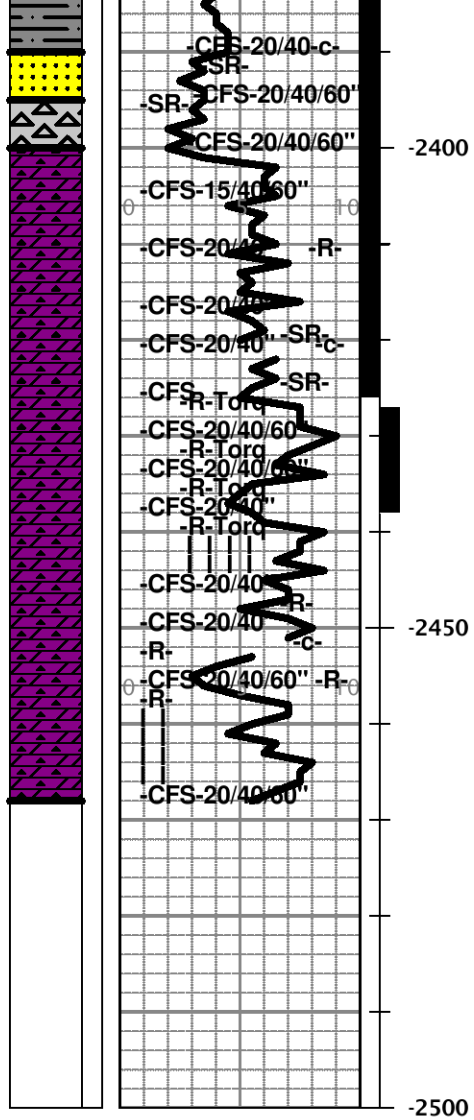
SH: AA, Incrs dk gy-blk carb & pyrct.

{ARDMORE} LS: cm-tn-gy, dn Mdst- Wkst, Rr Pkst.
LS: AA & tn-gy dn ux Mdst, sm pyrct & argil.

SH: shrp Incrs blk carb- Vcarb.

SILTS: lt-md gy, sm calc, sndy, micac.
SH: lt-dk gy, sm silty, micac, pyrct, sm blk carb- Vcarb SH

<p>2172' (-796) CHECKERBOARD</p>	
<p>2200' (-824) HEPLER SD {Fr SFO}</p> <p>2218' (-842) ALTAMONT</p>	<p>Wt 9.25, Vis 34.41 PV 9, YP 6 pH 9.81, WL 11.1 LCM 2, CI 950</p>
<p>2297' (-921) CHEROKEE</p>	
<p>{VSI SFO}</p>	
<p>2365' (-989) ARDMORE</p>	<p>DST #1 SIMPSON/ARB 2371'-2426' 30-45-45-60 1st Op: 2" bldg blo in 6min, 6" in 30 min, no BB 2nd Op: 6" in 45 min, No BB Rec: 120"TF: 45'CO (36 grav) 45' OCM (1.1% O. 2.6% M)</p>



& SILTS.
 {BASAL SIMPSON SD} SS- SD CLUST: bf-Tn-STN, Vfn-Md Gr'd, well rnd'd- subanglr, subsat- sat FLR- STN, Fr-Gd SFO- Gsy & Cut, VAbndt F. Sd.
 {EROS ARBUCKLE} VAbndt CHERT: lt-dk blu-gy-blk & tn, transl, opq, shrp.
 {ARBUCKLE} DOLO: bf-tn, Vfn-fnxln, sucro- grnlr, VRr prt Mdxln, Pr- Fr IX Poro, IGr Poro w/subsat- sat FLR & STN, Fr- Gd SFO & Cut. CHERTY: AA DOLO: cm-bf-Tn-STN, ux- fnxln, grnlr, <5% w/Fr- Gd Poro, fn- mdxln, spt'd-sat STN- FLR. VCHERTY: >20% ool w/ STN- FLR- SFO & Cut. CHERTY DOLO: Pred dn, ux- fnx, ~20% fnxln-Mdx 2Rx w/Fr- Gd IX Poro, vug Poro, mlcd Poro, subsat- sat FLR- & STN, Fr- Gd SFO- Cut, Abndt uFrc & Edg FLR & SISFO & Cut. ool CHERT: AA ~20% Fr- Gd IX Poro, vug Prop, mlcd Poro w/sat- subsat STN- FLR- SFO- Cut. DOLO: AA ~10% fnxln, Fr- Gd Poro, SFO- FLR, Cherty. Pred dn- ux- fnx, uFrc- Edg, ~20% Pr- Fr IX Por w/STN- FLR.-FO. DOLO: bf-tn, Pred ux-fnx- dn, ~10% fn- Mdxln, Fr Poro, STN- Cut.
 DOLO: gy-bf-Tn-STN, fn-Mdxln, VRr Crsx-2Rx, 10-30% Fr- Gd IX & vug Poro, spt'd- sat STN- FLR, ~30% Fr- Gd SFO, Odor. DOLO: cm-tn-gy, Pred dn- ux- fnxln w/uFrc & Edg FLR, <10% fnxln- Mdxln, sucro w/Fr-Gd IX Poro, vug & mlcd Poro, spt'd-sat STN & FLR, Fr SFO & Cut, Odor. DOLO: cm-bf-gy-tn, ux- fnx, Pred dn, Pr Porp: ulX Poro, uFrc Poro FLR- SFO. DOLO: bf-gy-tn, ux- fnx, ~10% prt oomlcd w/Fr mlcd Poro & Pr- Fr IX Poro, spt'd lt STN- FLR, SI- Fr SFO- Cut. DOLO: gy-tn-bf, Pred dn, ux- fnx, sm uFrc & Edg FLR & STN, sm silic DOLO, CHERTY: cm-blu-gy, Pred shrp, ~10% Chert. VRr Edg 2Rx STN. DOLO: AA & dk gy-bn, ux- fnxln, Pred dn- Pr Poro, VSI pyrtrc, CHERTY: AA, sm mot ool Chert, ~10% DOLO w/STN- FLR- SI SFO, Pr- Fr Poro: IX & mlcd Poro, sm uFrc & Edg FLR w/VSI SFO, SI Odor.

2390' (-1014)
B.SIMPSON SD
 {Fr-Gd SFO}
2395' (-1019)
EROS. ARB
2400' (-1024)
ARB DOLO
 {Fr- Gd SFO}

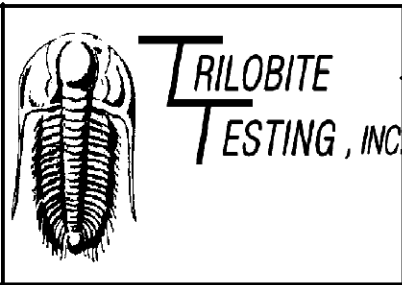
(14%O,86%M)
 30'O&WCM
 (10%O,5%W
 75%M)
 Tool Spl:
 19%O,6%W
 75%M
 IHP: 1143
 IFP: 28-44
 ISIP: 803
 FFP: 47-71
 FSIP: 807
 FHP: 1092
 BHT: 103F

Wt 9.35, Vis 73
PV 25, YP 23
pH 10.01, WL 6.1
LCM 2, CI 1020

2468' (-1092)
RTD/LTD

VESS OIL CORP
MILLS 'A' #41
1980'FSL&330'FWL
Sec 22-25S-05E
BUTLER CO., KS
API#15-015-24088

DST #2
 ARBUCKLE
 2427'-2438'
 30-45-45-60
 1st Op: few bubbles on open
 2nd Op: NB (surf.conn.problem)
 Rec: 65' TF:
 40' CO (36.7 grav)
 25' OCM (17%O,83%M)
 Tool Spl:
 61%O,39%M
 IHP: 1165
 IFP: 32-40
 ISIP: 388
 FFP: 1120
 FSIP: 201
 FHP: 1120
 BHT: 104F



DRILL STEM TEST REPORT

Vess Oil Corp.
 1700 Waterfront Park way
 Building 500
 Wichita, KS 67206
 ATTN: Csey Coats/Roger Mar

22/25S/5E Butler, KS
Mills A #41
 Job Ticket: 63591 **DST#: 1**
 Test Start: 2017.08.25 @ 23:44:00

GENERAL INFORMATION:

Formation: **Simpson Sand & Arbuc**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:10:20
 Time Test Ended: 07:38:50
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80

Interval: 2371.00 ft (KB) To 2426.00 ft (KB) (TVD)

Reference Elevations: 1376.00 ft (KB)

Total Depth: 2426.00 ft (KB) (TVD)

1370.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 6.00 ft

Serial #: 9124

Inside

Press@RunDepth: 71.07 psig @ 2372.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2017.08.25

End Date: 2017.08.26

Last Calib.: 1899.12.30

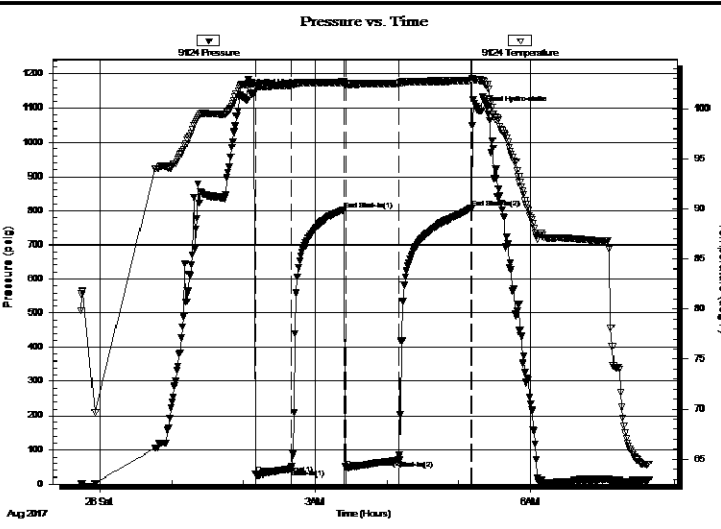
Start Time: 23:44:05

End Time: 07:38:50

Time On Btm: 2017.08.26 @ 02:06:40

Time Off Btm: 2017.08.26 @ 05:16:50

TEST COMMENT: IF - Weak blow building to 6 inches initial flow period.
 FF - Weak blow building to 6 inches final flow period.
 TS - Oil and water cut mud 19% oil, 6% water and 75% mud.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1142.99	102.55	Initial Hydro-static
4	27.69	102.27	Open To Flow (1)
33	44.35	102.35	Shut-In(1)
78	802.86	102.63	End Shut-In(1)
80	46.59	102.42	Open To Flow (2)
124	71.07	102.51	Shut-In(2)
184	806.80	102.79	End Shut-In(2)
191	1091.64	102.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil & water cut mud 10%O 5%W & 85%M	0.15
45.00	Oil cut mud 14%O & 86%M	0.22
45.00	Clean oil 100%O	0.22
0.00	TS oil & water cut mud 19%O 6%W & 75%M	0.00

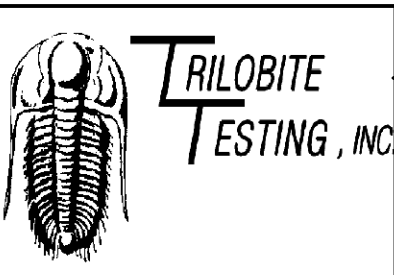
Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 63591

Printed: 2017.08.26 @ 08:16:50



DRILL STEM TEST REPORT

Vess Oil Corp.
 1700 Waterfront Parkway
 Building 500
 Wichita, KS 67206
 ATTN: Csey Coats/Roger Mar

22/25S/5E Butler, KS
Mills A #41
 Job Ticket: 63591 **DST#: 1**
 Test Start: 2017.08.25 @ 23:44:00

GENERAL INFORMATION:

Formation: **Simpson Sand & Arbuc**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:10:20
 Time Test Ended: 07:38:50

Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80

Depth to Top Packer: 2371.00 ft
 Depth to Bottom Packer: ft
 Interval between Packers: 55.00 ft
 Tool Length: 83.00 ft
 Number of Packers: 2 Diameter: 6.75 inches
 Tool Comments:

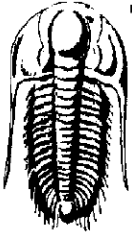
Final 44000.00 lb

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2344.00	
Shut In Tool	5.00			2349.00	
Hydraulic tool	5.00			2354.00	
Jars	5.00			2359.00	
Safety Joint	3.00			2362.00	
Packer	4.00			2366.00	28.00 Bottom Of Top Packer
Packer	5.00			2371.00	
Stubb	1.00			2372.00	
Recorder	0.00	8679	Outside	2372.00	
Recorder	0.00	9124	Inside	2372.00	
Perforations	15.00			2387.00	
Change Over Sub	0.50			2387.50	
Blank Spacing	29.50			2417.00	
Change Over Sub	1.00			2418.00	
Perforations	3.00			2421.00	
Bullnose	5.00			2426.00	55.00 Bottom Packers & Anchor
Total Tool Length:	83.00				

Trilobite Testing, Inc

Ref. No: 63591

Printed: 2017.08.26 @ 08:16:51

 TRILOBITE TESTING, INC	DRILL STEM TEST REPORT		FLUID SUMMARY
	Vess Oil Corp. 1700 Waterfront Parkway Building 500 Wichita, KS 67206 ATTN: Csey Coats/Roger Mar	22/25S/5E Butler, KS Mills A #41 Job Ticket: 63591 DST#: 1 Test Start: 2017.08.25 @ 23:44:00	

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36.1 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 58.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.19 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	

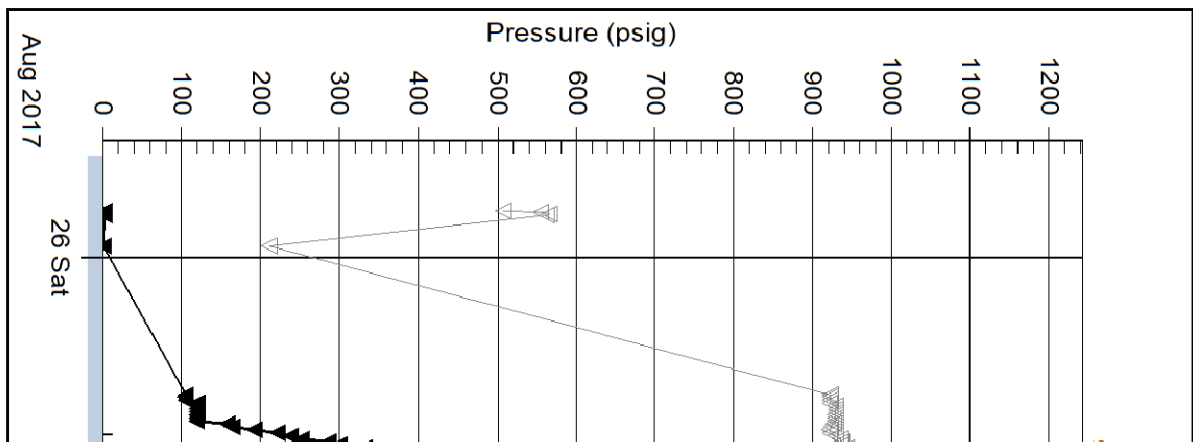
Salinity: 850.00 ppm
Filter Cake: inches

Recovery Information

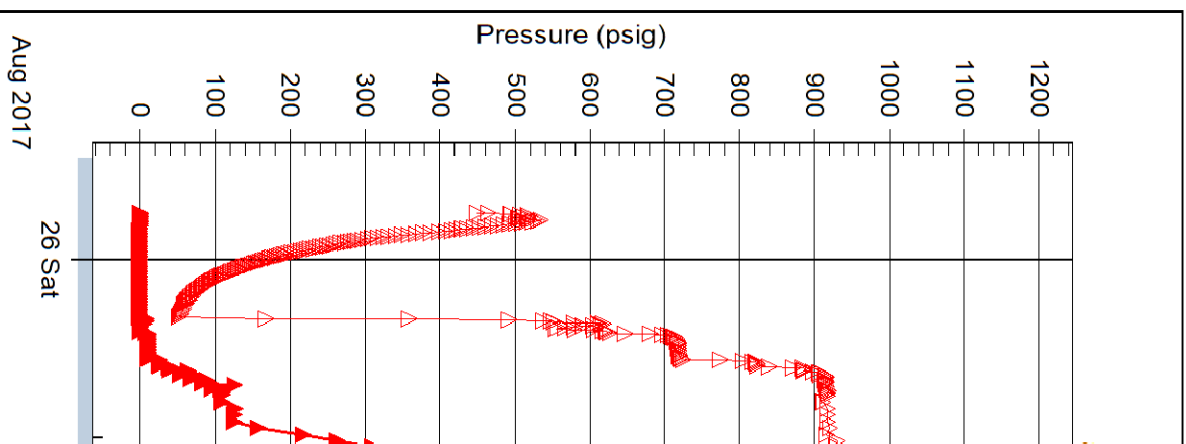
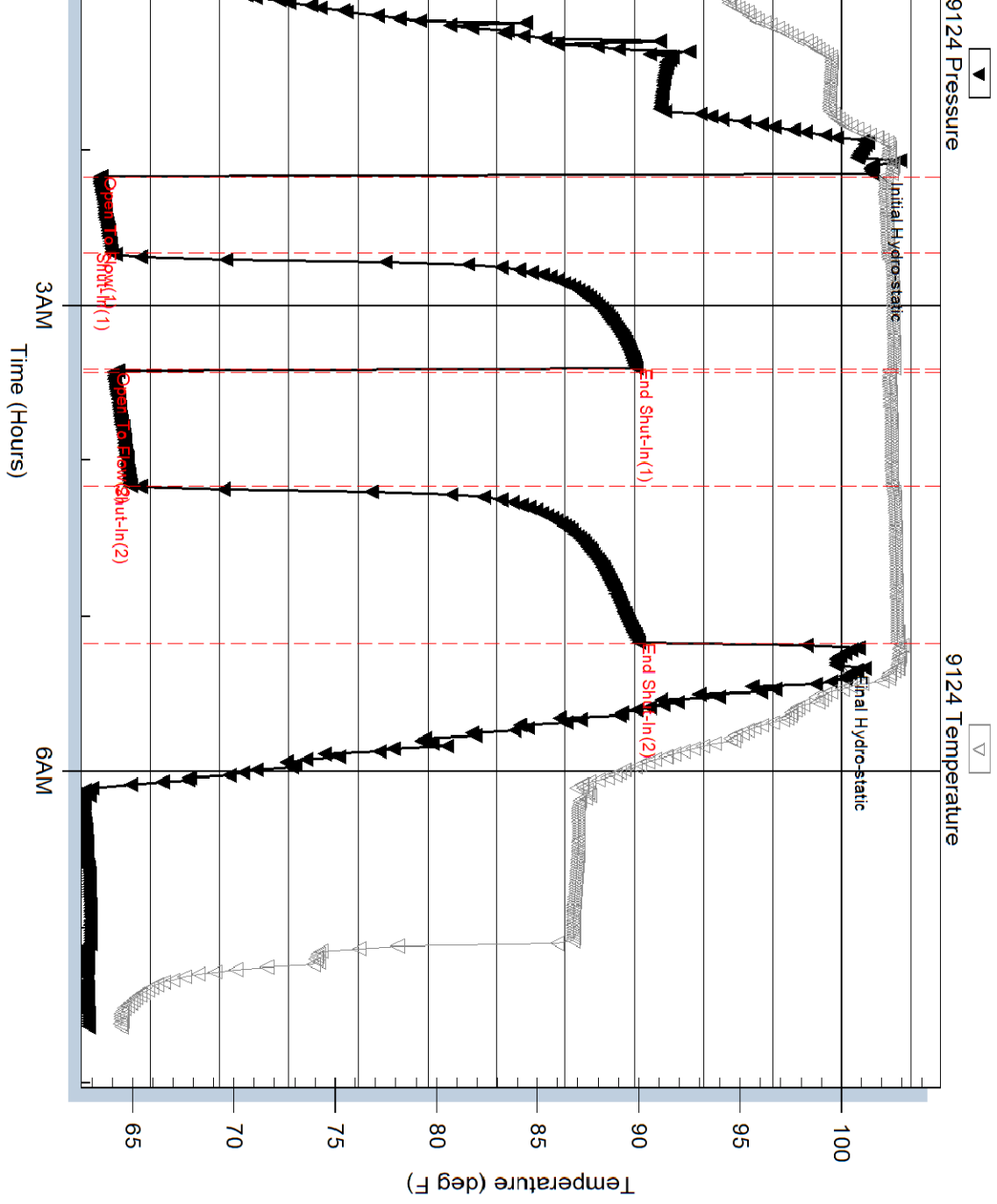
Recovery Table

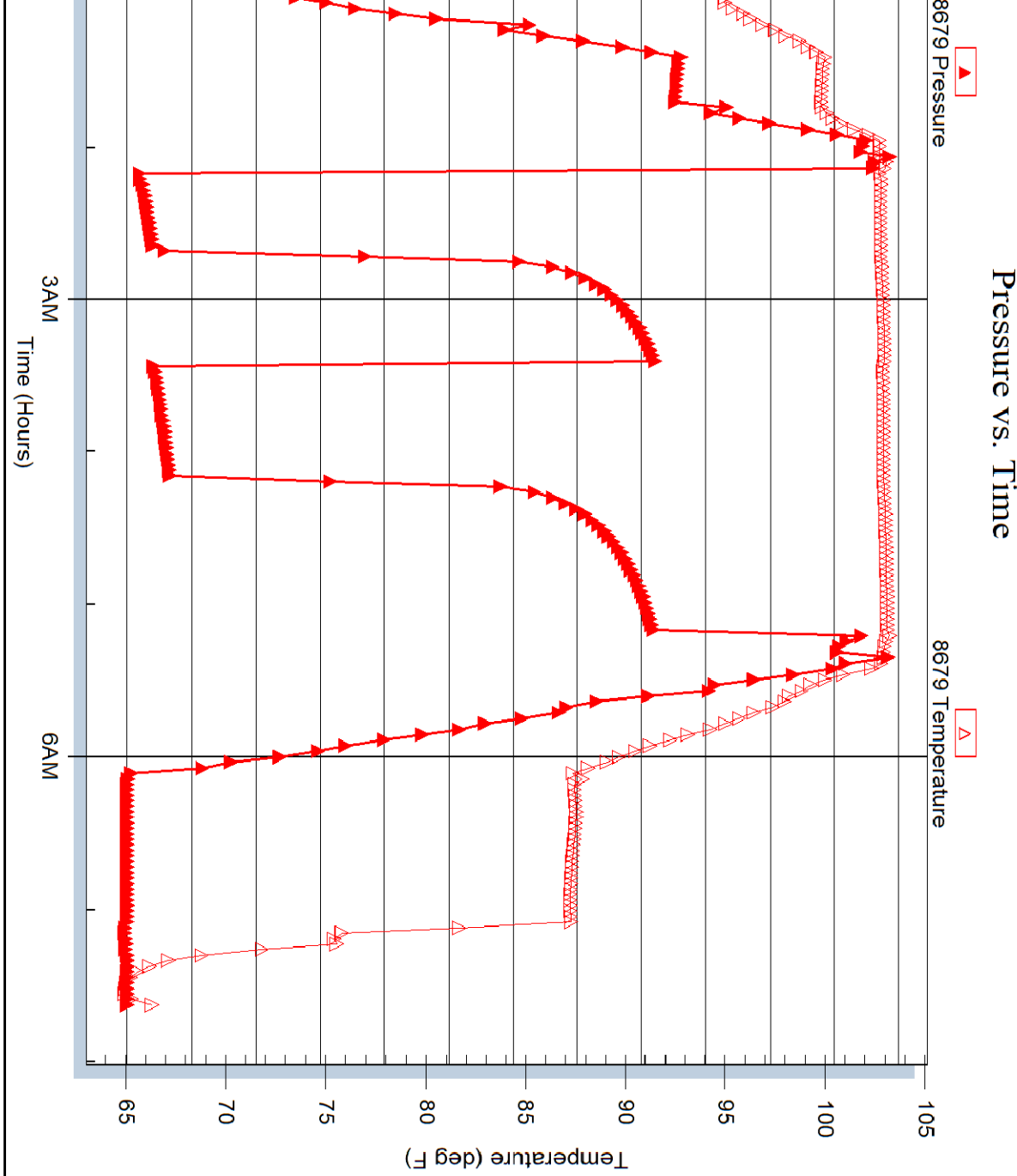
Length ft	Description	Volume bbl
30.00	Oil & water cut mud 10%O 5%W & 85%M	0.148
45.00	Oil cut mud 14%O & 86%M	0.221
45.00	Clean oil 100%O	0.221
0.00	TS oil & water cut mud 19%O 6%W & 75%M	0.000

Total Length: 120.00 ft Total Volume: 0.590 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



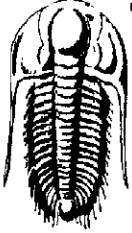
Pressure vs. Time





Ref. No: 63591

Printed: 2017.08.26 @ 08:16:51

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Vess Oil Corp. 1700 Waterfront Parkway Building 500 Wichita, KS 67206 ATTN: Csey Coats/Roger Mar	22/25S/5E Butler, KS Mills A #41 Job Ticket: 63592 DST#: 2 Test Start: 2017.08.26 @ 18:02:00

GENERAL INFORMATION:

Formation:	Arbuckle		Test Type:	Conventional Bottom Hole (Initial)
Deviated:	No Whipstock:	ft (KB)	Tester:	Jimmy Ricketts
Time Tool Opened:	19:54:40		Unit No:	80
Time Test Ended:	01:25:20			

Interval: 2427.00 ft (KB) To 2438.00 ft (KB) (TVD)

Total Depth: 2438.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1376.00 ft (KB)

1370.00 ft (CF)

KB to GR/CF: 6.00 ft

Serial #: 9124

Inside

Press@RunDepth: 46.93 psig @ 2428.00 ft (KB)

Start Date: 2017.08.26

End Date: 2017.08.27

Start Time: 18:02:05

End Time: 01:25:20

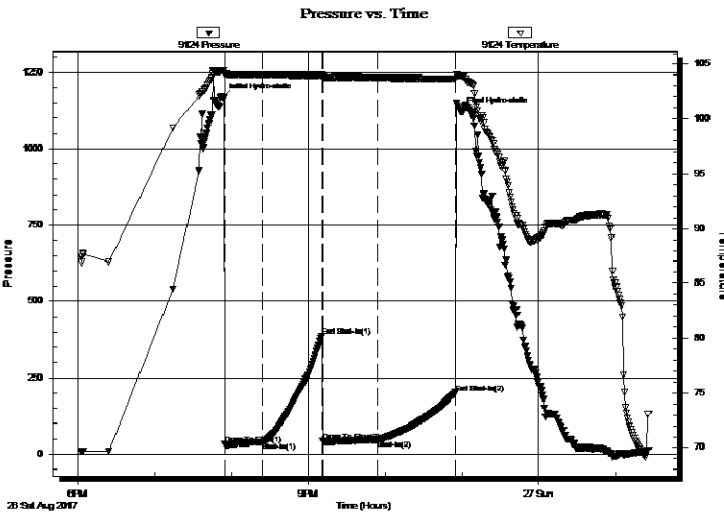
Capacity: 8000.00 psig

Last Calib.: 1899.12.30

Time On Btm: 2017.08.26 @ 19:53:00

Time Off Btm: 2017.08.26 @ 22:59:00

TEST COMMENT: IF - Weak blow dying to no blow initial flow period.
FF - No blow.
TS - Heavy mud cut oil - 61% oil and 39% mud.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1165.00	104.41	Initial Hydro-static
2	31.66	104.15	Open To Flow (1)
31	39.87	104.02	Shut-In(1)
78	387.63	104.00	End Shut-In(1)
79	42.13	103.86	Open To Flow (2)
121	46.93	103.76	Shut-In(2)
182	201.29	103.67	End Shut-In(2)
186	1120.26	103.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	Oil cut mud 17%O & 83%M	0.12
40.00	Clean oil 100%O	0.20
0.00	TS Heavy mud cut oil 61%O & 39%M	0.00

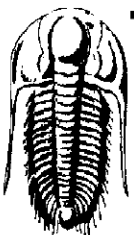
Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 63592

Printed: 2017.08.27 @ 06:37:42



TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Vess Oil Corp.

22/25S/5E Butler, KS

1700 Waterfront Parkway
Building 500
Wichita, KS 67206
ATTN: Csey Coats/Roger Mar

Mills A #41

Job Ticket: 63592

DST#: 2

Test Start: 2017.08.26 @ 18:02:00

GENERAL INFORMATION:

Formation: Arbuckle

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:54:40

Time Test Ended: 01:25:20

Test Type: Conventional Bottom Hole (Initial)

Tester: Jimmy Ricketts

Unit No: 80

Salinity: 940.00 ppm
Filter Cake: inches

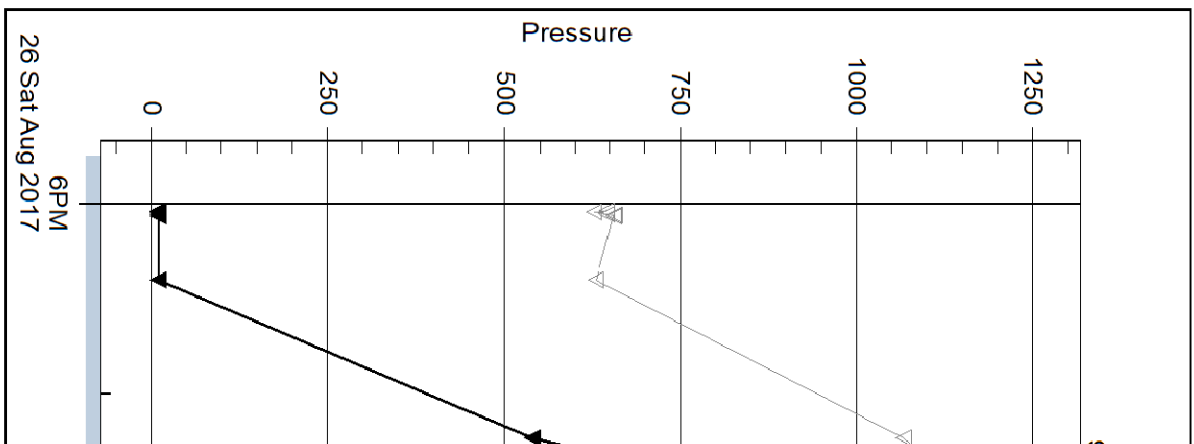
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
25.00	Oil cut mud 17%O & 83%M	0.123
40.00	Clean oil 100%O	0.197
0.00	TS Heavy mud cut oil 61%O & 39%M	0.000

Total Length: 65.00 ft Total Volume: 0.320 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Trilobite Testing, Inc

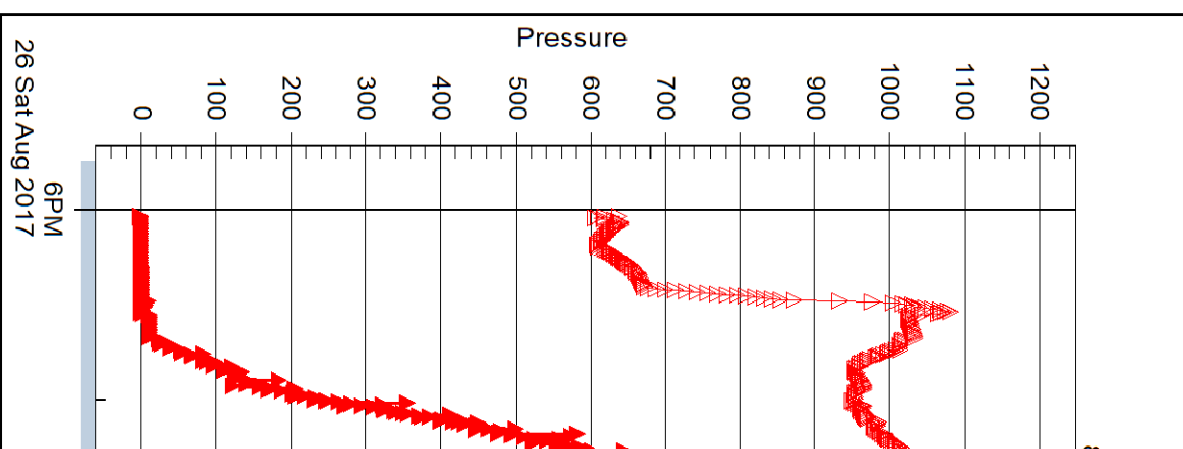
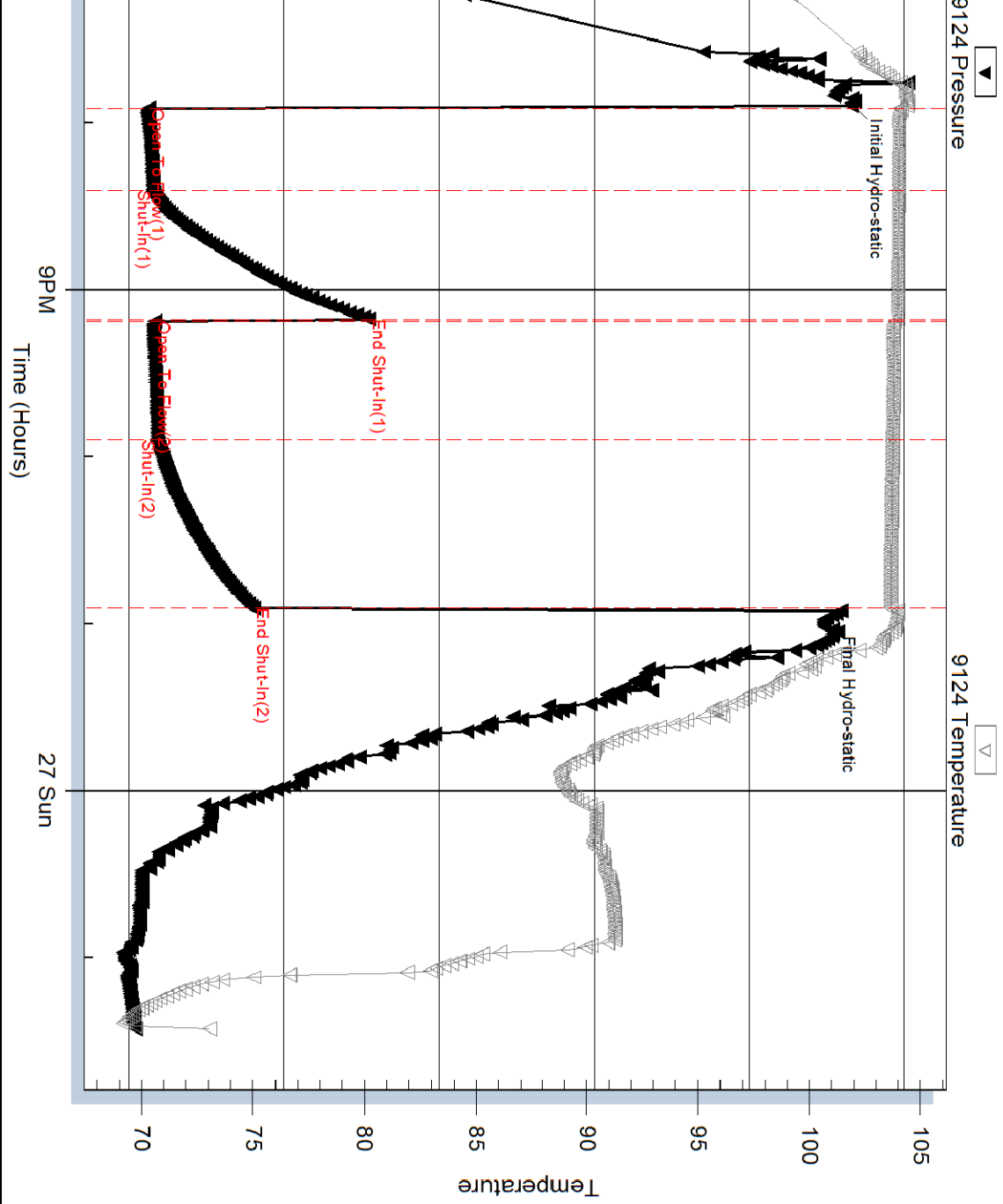


Serial #: 9124

Inside

Vess

Pressure vs. Time





TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Vess Oil Corp.
 1700 Waterfront Parkway
 Building 500
 Wichita, KS 67206
 ATTN: Csey Coats/Roger Mar

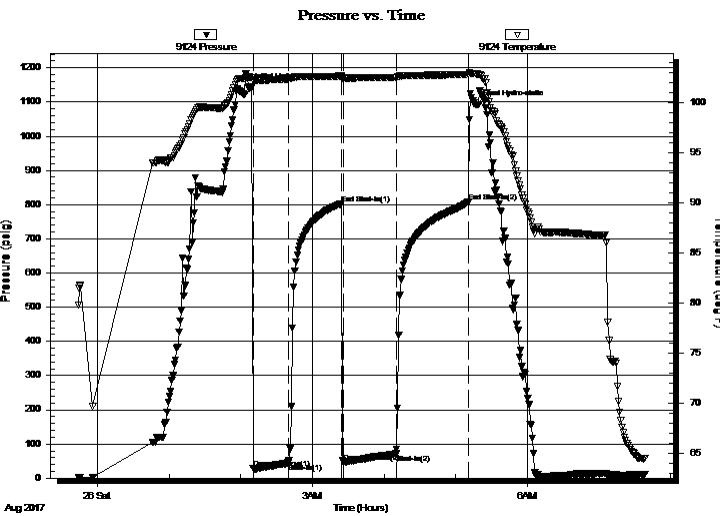
22/25S/5E Butler, KS
Mills A #41
 Job Ticket: 63591 **DST#: 1**
 Test Start: 2017.08.25 @ 23:44:00

GENERAL INFORMATION:

Formation: **Simpson Sand & Arbuc**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:10:20
 Time Test Ended: 07:38:50
 Interval: **2371.00 ft (KB) To 2426.00 ft (KB) (TVD)**
 Total Depth: 2426.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Jimmy Ricketts
 Unit No: 80
 Reference Elevations: 1376.00 ft (KB)
 1370.00 ft (CF)
 KB to GR/CF: 6.00 ft

Serial #: 9124 Inside
 Press@RunDepth: 71.07 psig @ 2372.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.08.25 End Date: 2017.08.26 Last Calib.: 1899.12.30
 Start Time: 23:44:05 End Time: 07:38:50 Time On Btm: 2017.08.26 @ 02:06:40
 Time Off Btm: 2017.08.26 @ 05:16:50

TEST COMMENT: IF - Weak blow building to 6 inches initial flow period.
 FF - Weak blow building to 6 inches final flow period.
 TS - Oil and water cut mud 19% oil, 6% water and 75% mud.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1142.99	102.55	Initial Hydro-static
4	27.69	102.27	Open To Flow (1)
33	44.35	102.35	Shut-In(1)
78	802.86	102.63	End Shut-In(1)
80	46.59	102.42	Open To Flow (2)
124	71.07	102.51	Shut-In(2)
184	806.80	102.79	End Shut-In(2)
191	1091.64	102.84	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Oil & water cut mud 10%O 5%W & 85%M	0.15
45.00	Oil cut mud 14%O & 86%M	0.22
45.00	Clean oil 100%O	0.22
0.00	TS oil & water cut mud 19%O 6%W & 75%M	0.00

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Vess Oil Corp.

22/25S/5E Butler, KS

1700 Waterfront Parkway
Building 500
Wichita, KS 67206
ATTN: Csey Coats/Roger Mar

Mills A #41

Job Ticket: 63591

DST#: 1

Test Start: 2017.08.25 @ 23:44:00

Tool Information

Drill Pipe:	Length: 2144.00 ft	Diameter: 3.34 inches	Volume: 23.23 bbl	Tool Weight: 2300.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: inches	Volume: 0.00 bbl	Weight set on Packer: 22000.00 lb
Drill Collar:	Length: 207.00 ft	Diameter: 2.25 inches	Volume: 1.02 bbl	Weight to Pull Loose: 45000.00 lb
			<u>Total Volume: 24.25 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	2371.00 ft			Final 44000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	83.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			2344.00	
Shut In Tool	5.00			2349.00	
Hydraulic tool	5.00			2354.00	
Jars	5.00			2359.00	
Safety Joint	3.00			2362.00	
Packer	4.00			2366.00	28.00 Bottom Of Top Packer
Packer	5.00			2371.00	
Stubb	1.00			2372.00	
Recorder	0.00	8679	Outside	2372.00	
Recorder	0.00	9124	Inside	2372.00	
Perforations	15.00			2387.00	
Change Over Sub	0.50			2387.50	
Blank Spacing	29.50			2417.00	
Change Over Sub	1.00			2418.00	
Perforations	3.00			2421.00	
Bullnose	5.00			2426.00	55.00 Bottom Packers & Anchor
Total Tool Length:	83.00				



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Vess Oil Corp.

22/25S/5E Butler, KS

1700 Waterfront Parkway
Building 500
Wichita, KS 67206
ATTN: Csey Coats/Roger Mar

Mills A #41

Job Ticket: 63591

DST#: 1

Test Start: 2017.08.25 @ 23:44:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

36.1 deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 58.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 8.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 850.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
30.00	Oil & water cut mud 10%O 5%W & 85%M	0.148
45.00	Oil cut mud 14%O & 86%M	0.221
45.00	Clean oil 100%O	0.221
0.00	TS oil & water cut mud 19%O 6%W & 75%M	0.000

Total Length: 120.00 ft

Total Volume: 0.590 bbl

Num Fluid Samples: 0

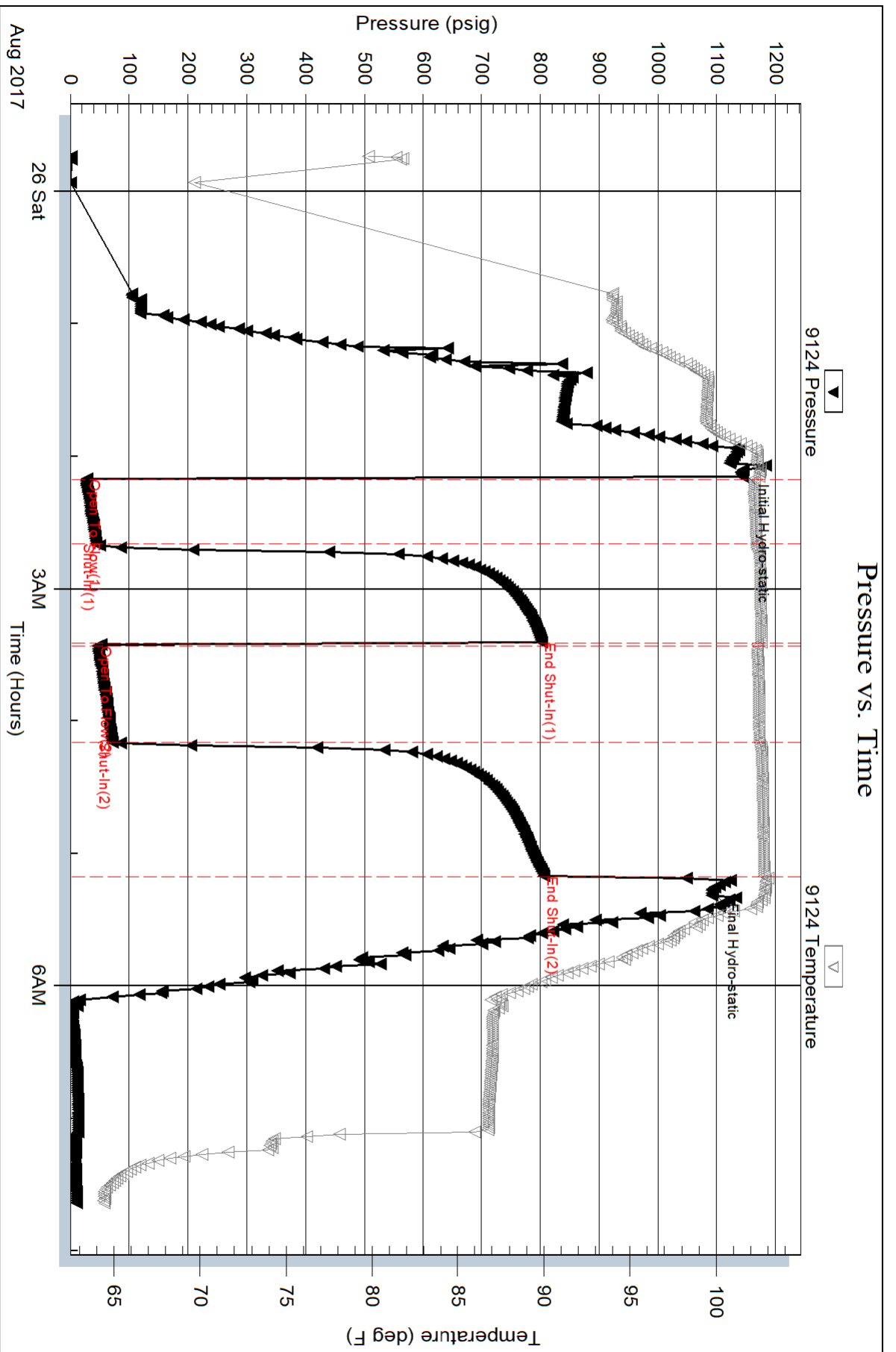
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

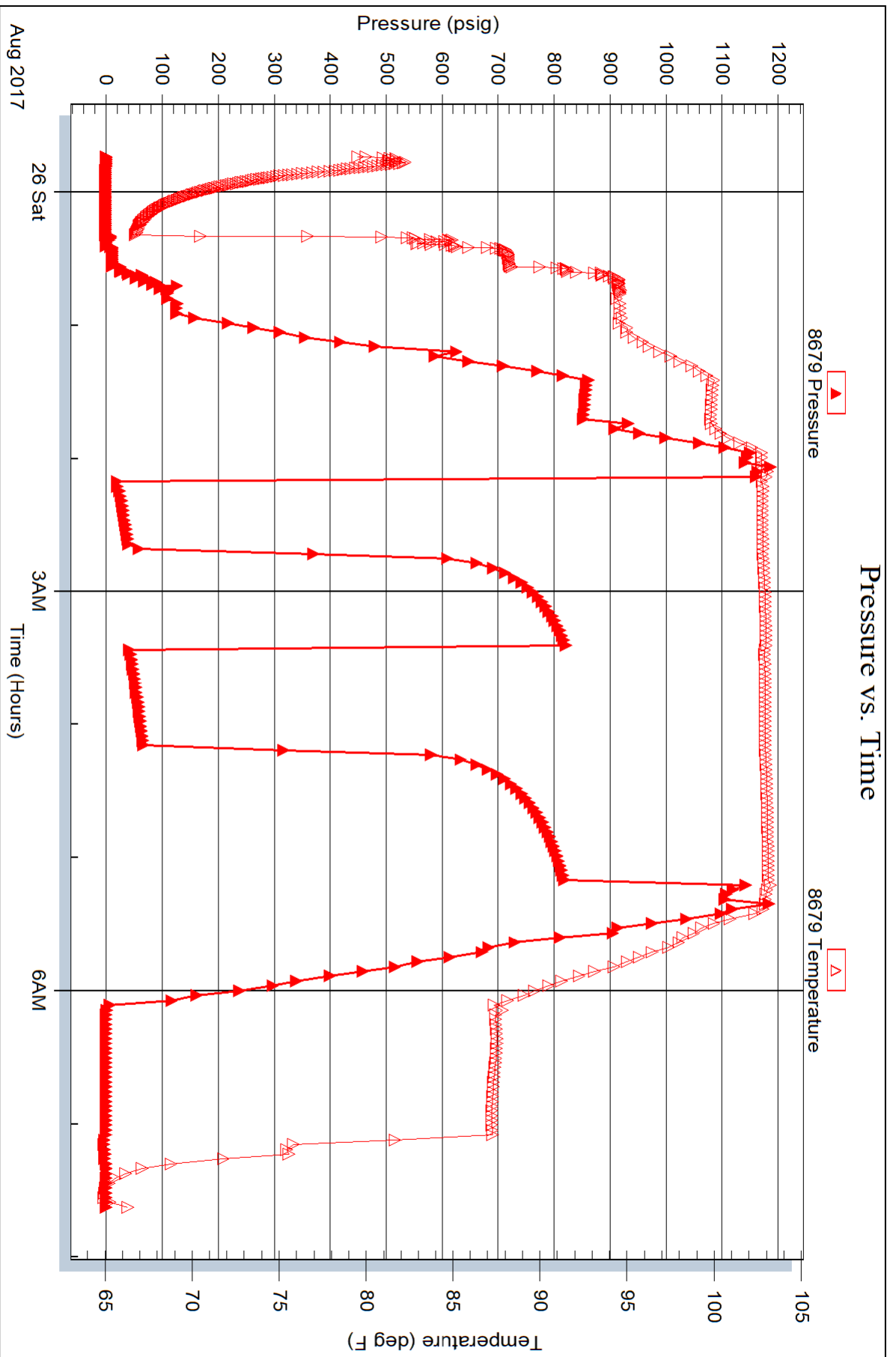


Serial #: 8679

Outside Vess Oil Corp.

Mills A #41

DST Test Number: 1



ATTACHMENT TO ACO-1

Mills A-41 - API #15-015-24088-0000
 1980'FSL, 330'FWL
 Sec. 22-25S-05E
 Butler County, KS

	Geo Samples	Log Top
Admire 650	615 +761 GSO	615 +761
White CD LM	865 +511	863 +513
White CD SD	877 +499 SO	876 +500
Howard		915 +461
Oread	1350 +26	1348 +28
Heebner	1387 -11	1385 -9
Douglas SH	1420 -44	1420 -44
Iatan	1590 -214 SO	1590 -214
Lansing	1649 -273	1649 -273
Lansing Base		1784 -408
KC	1938 -562 SO	1938 -562
Stark	2039 -663	2039 -663
B/KC	2100 -724	2098 -722
Checkerboard	2172 -796	2171 -795
Hepler SD	2200 -824 SO	2202 -826
Altamont	2218 -842	2218 -842
Cherokee	2297 -921	2297 -921
Ardmore LM	2365 -989	2365 -989
Basal Simp SD	2390 -1014 SO	2390 -1014
Arb eros chert		2395 -1019
Arbuckle Dolo	2400 -1024 SO	2400 -1024
PTD	2468 -1092	2468 -1092



PRESSURE PUMPING LLC
P.O. Box 884
Chanute, KS 66720

API # 15-015-24088-00.00

TICKET NUMBER 53440

LOCATION El Dorado

FOREMAN Fuzzy

FIELD TICKET & TREATMENT REPORT
CEMENT

KS

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-28-17	8511	mills A #41	22	25	05	Butler
CUSTOMER Uess Oil Corp			TRUCK #	DRIVER	TRUCK #	DRIVER
MAILING ADDRESS 1700 Waterfront Bldg 500			760	Chris		
CITY Wichita			667	Jud		
STATE KS			725	Fuzzy		
ZIP CODE 67206						

JOB TYPE PTA HOLE SIZE 7 7/8 HOLE DEPTH 2465' CASING SIZE & WEIGHT
CASING DEPTH DRILL PIPE 4" TUBING OTHER
SLURRY WEIGHT SLURRY VOL WATER gal/sk CEMENT LEFT in CASING
DISPLACEMENT DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety meeting on CTG #1. Ris up and plug as ordered

35sks @ 1/2 buckle
35sks @ 300'
20sks circulate 60' to surface
20sks RH
110sks 60/40 pos 490 gel

Thanks Fuzzy
& crew

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900 ⁰⁰	1900 ⁰⁰
CE0002	5	MILEAGE	75	n/c
CE0711		Tow Mileage Delivery (min)	660 ⁰⁰	660 ⁰⁰
CC5829	110sks	60/40 490	16 ⁰⁰	1760 ⁰⁰
		sub total		4320 ⁰⁰
		discount	4500	1944 ⁰⁰
		sub total		2376 ⁰⁰
		SALES TAX		
		ESTIMATED TOTAL		

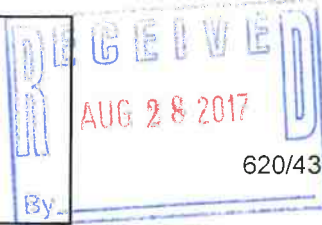
Ravin 3737

AUTHORIZATION  TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



REMIT TO
 QES Pressure Pumping LLC
 Dept:970
 P.O.Box 4346
 Houston, TX 77210-4346



MAIN OFFICE

P.O.Box884
 Chanute, KS 66720
 620/431-9210, 1-800/467-8676
 Fax 620/431-0012

Invoice

Invoice#

811039

Invoice Date: 08/24/17

Terms: Net 30

Page 1

VESS OIL CORPORATION

1700 WATERFRONT PKWAY BLD 500
 WICHITA KS 67206
 USA
 3166821537

MILLS A #41

Part No	Description	Quantity	Unit Price	Discount(%)	Total
CE0450	Cement Pump Charge 0 - 1500'	1.000	1,500.0000	45.000	825.00
CE0002	Equipment Mileage Charge - Heavy Equipment	2.000	0.0000	0.000	0.00
CE0711	Minimum Cement Delivery Charge	1.000	660.0000	45.000	363.00
CC5800A	Class A Cement - Sack	150.000	20.0000	45.000	1,650.00
CC5325	Calcium Chloride	350.000	1.2500	45.000	240.63
CC6075	Celloflake	75.000	2.0000	45.000	82.50
Subtotal					5,747.50
Discounted Amount					2,586.38
SubTotal After Discount					3,161.12

Amount Due 5,989.66 If paid after 09/23/17

Tax: 133.18

Total: 3,294.31



PRESSURE PUMPING LLC
PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

8551
8744

TICKET NUMBER 54658
LOCATION EL Dorado KS
FOREMAN Jeremy Austin

FIELD TICKET & TREATMENT REPORT
CEMENT

Invoice # 811039

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-22-17	8571	mills A #41	22	25	05	Butler
CUSTOMER			TRUCK #			
JESS Oil Co			DRIVER			
MAILING ADDRESS			TRUCK #			
1700 waterfront Pkwy - BLD 505			DRIVER			
CITY			STATE			
Wichita			KS			
STATE			ZIP CODE			
KS			67206			

JOB TYPE Surface HOLE SIZE 12 1/4 HOLE DEPTH 257 CASING SIZE & WEIGHT 8 5/8 - 23 #
 CASING DEPTH _____ DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 14.5 SLURRY VOL _____ WATER gal/sk 6.5 CEMENT LEFT in CASING _____
 DISPLACEMENT 15.7 DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting hooked up to 8 5/8 casing broke circulation then pumped 150 sks cement then displaced 15.7 bbl water shut in valve

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0450	1	PUMP CHARGE	1500.00	1500.00
CE0002	2	MILEAGE	7.15	N/C
CE0711	1	min bulk delivery	660.00	660.00
CC5800A	150	Class A Cement	20.00	3000.00
CC5325	350	Calcium chloride	1.25	437.50
CC6075	75	Poly flake	2.00	150.00
		Subtotal	=	5747.50
		Discount	45%	2586.37
				3161.13
		Total		= 133.18

Ravin 3737

AUTHORIZATION

Doug

TITLE

DATE

SALES TAX
ESTIMATED
TOTAL

3161.12
3294.31

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.