

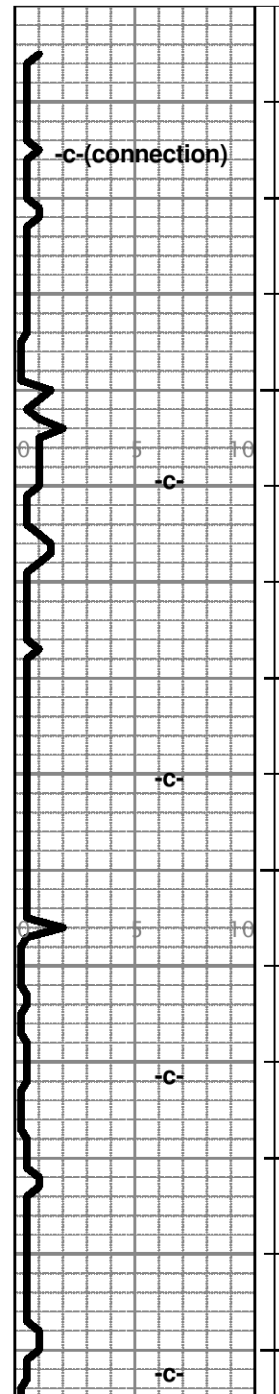
Plugs set above Arbuckle: 35 sx: 50' below surface casing: 35 sx, 60'-0: 20 sx,
 Rathole: 20 sx; Finished 3:30 AM 08/28/2017.

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 pyrtc, sm	



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

-C-
-450

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

-C-
-500

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

{VSI SFO}

-C-
-550

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}

-C-
-600

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 pyrct, Pred VPr Poro- NVP, NS.

-C-
-650

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.

-C-
-700

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.

-C-
-750

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}

651' 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

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

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.

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

-750

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

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

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.

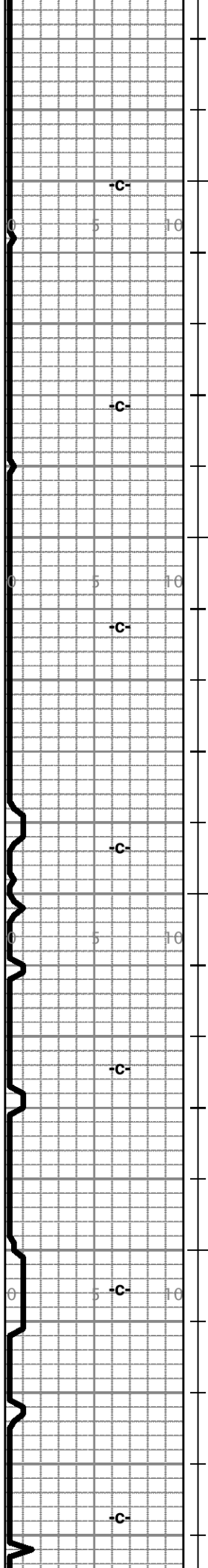
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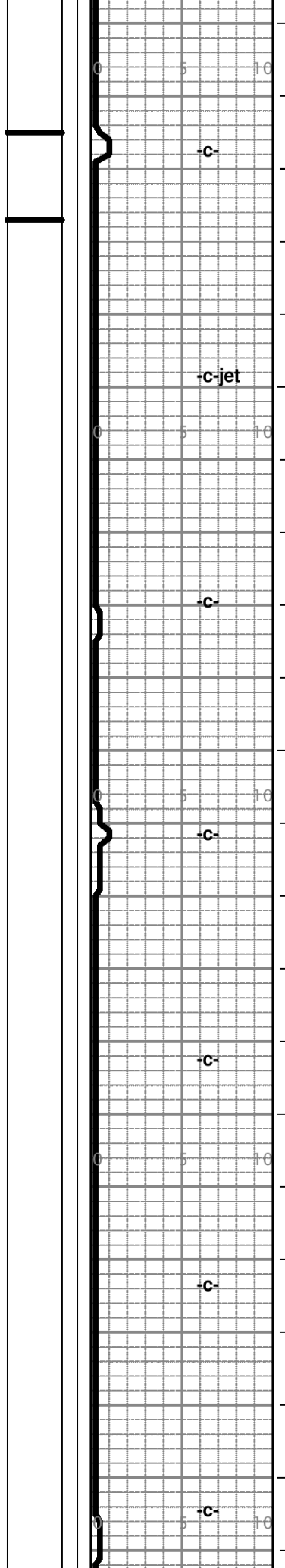
838' spl} Abndt LS: gy-tn-wh, sm mot Wkst- Pkst & ux- fnx w/Pred VPr- NVP w/NS; sm argil Wkst.

838' spl} SH: dk-lt gy.

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

-c-

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

-c-

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

-c-

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

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

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}

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}

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)

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}

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- SI Ode

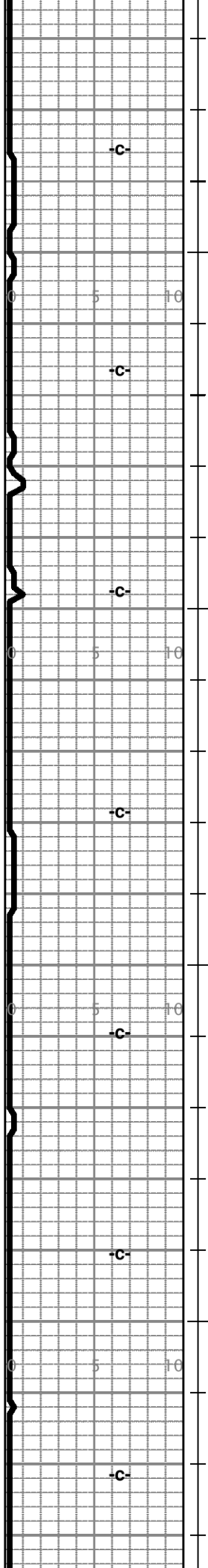
{VSI-SI SFO}

-1100

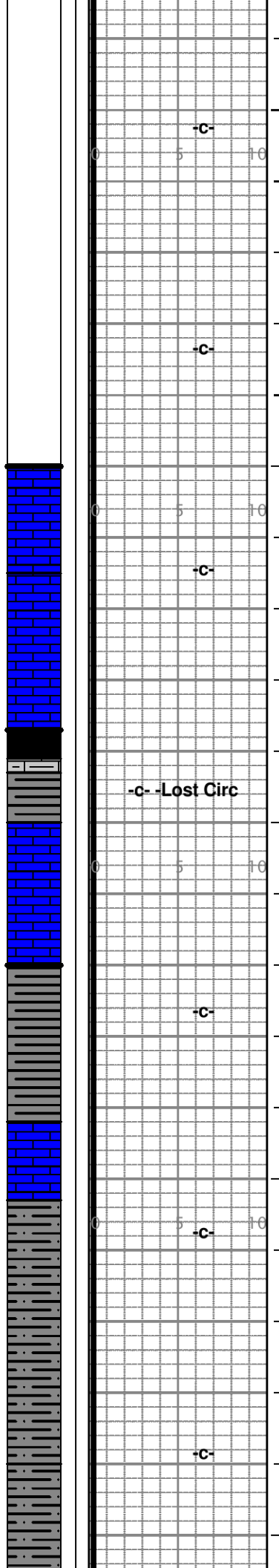
-1150

-1200

-1250



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



-1300

+C-

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

+C-

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

-1350

+C-

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

+C-

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.

-c- -Lost Circ

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.

-1400

+C-

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, mldc Poro, IX Poro, IGr Poro, spt'd- sat FLR, VSI- SI SFO, spt'd- subsat STN, Fr strmg milky Cut.

+C-

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

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

-1450

+C-

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

+C-

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.

-1500

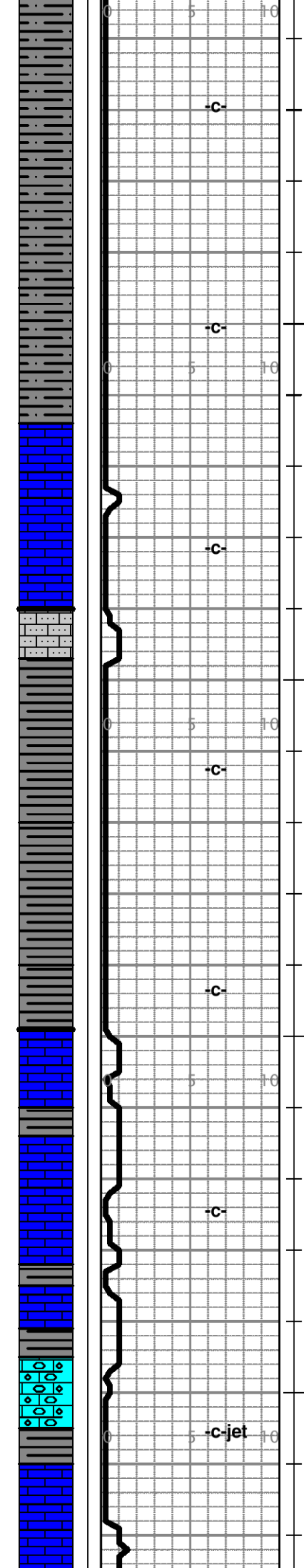
1350' (+26)
OREAD

{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 & lt Tn STN, SI SFO. VRr SD CLUST: gy, Vfn- fn Gr'd, silty, Fr Poro, SI- Fr SFO, FLR.

{SI SFO}

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.

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

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.

1649' (-273)
LANSING
{VSI SFO}

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.

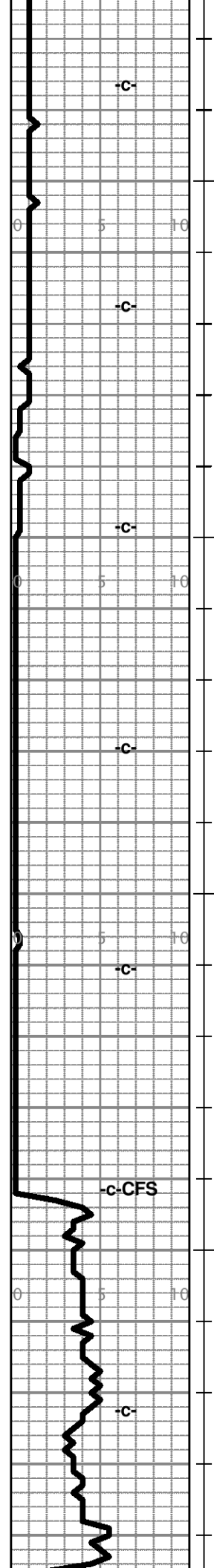
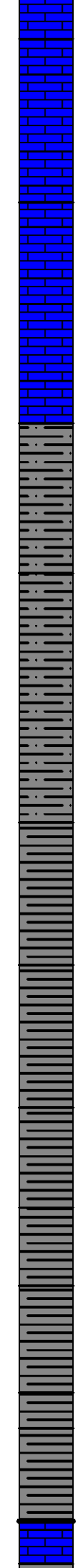
{VSI SFO}

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.

{VSI- SI SFO}

-c-jet



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.

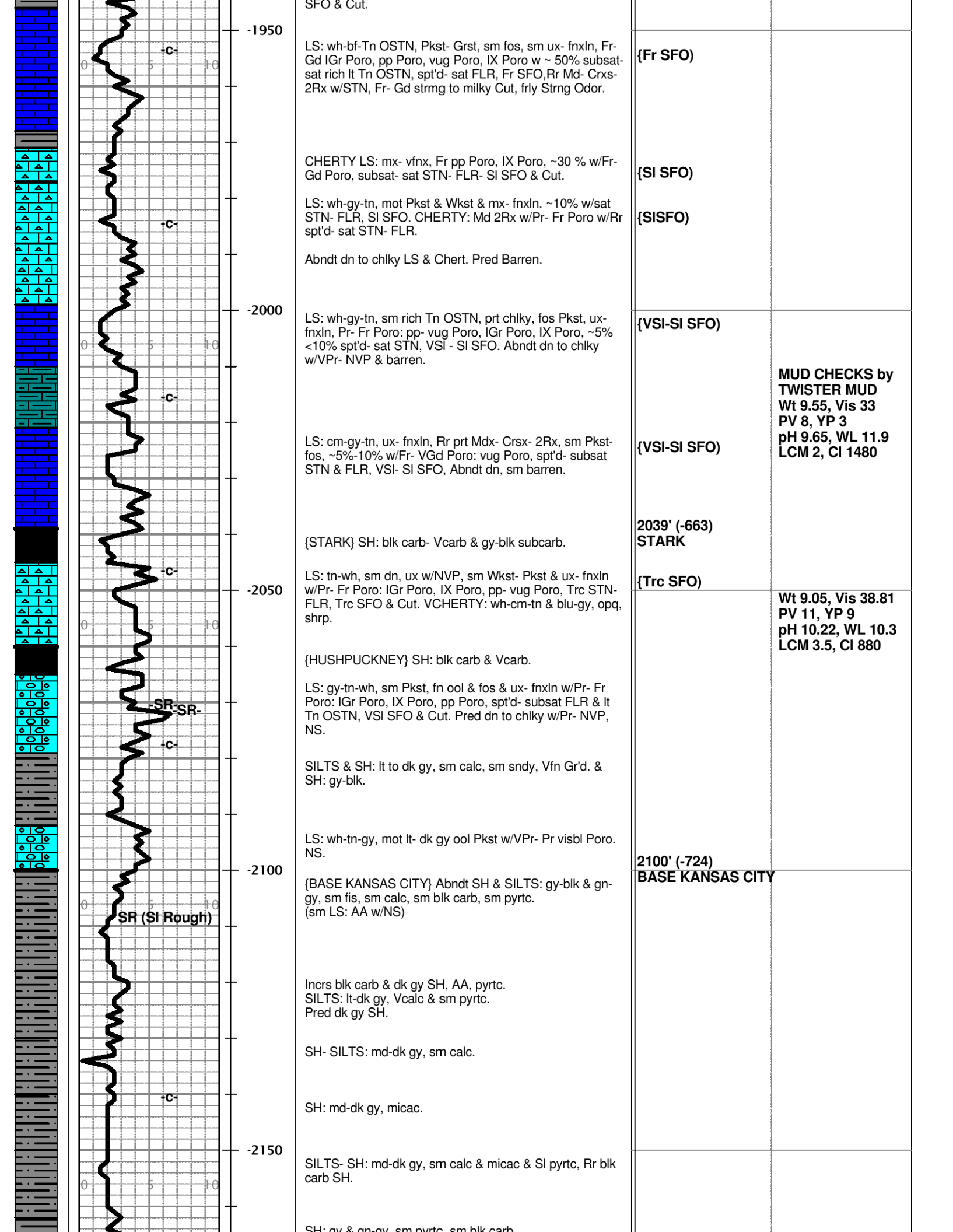
-C-

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}



-1950

SFO & Cut.
 LS: wh-bf-Tn OSTN, Pkst- Grst, sm fos, sm ux- fnxln, Fr- Gd IGr Poro, pp Poro, vug Poro, IX Poro w ~ 50% subsat- sat rich lt Tn OSTN, spt'd- sat FLR, Fr SFO, Rr Md- Crxs- 2Rx w/STN, Fr- Gd strmg to milky Cut, frly Strng Odor.

{Fr SFO}

CHERTY LS: mx- vfnx, Fr pp Poro, IX Poro, ~30 % w/Fr- Gd Poro, subsat- sat STN- FLR- SI SFO & Cut.

{SI SFO}

LS: wh-gy-tn, mot Pkst & Wkst & mx- fnxln. ~10% w/sat STN- FLR, SI SFO. CHERTY: Md 2Rx w/Pr- Fr Poro w/Rr spt'd- sat STN- FLR.

{SISFO}

Abndt dn to chlky LS & Chert. Pred Barren.

-2000

LS: wh-gy-tn, sm rich Tn OSTN, prt chlky, fos Pkst, ux- fnxln, Pr- Fr Poro: pp- vug Poro, IGr Poro, IX Poro, ~5% <10% spt'd- sat STN, VSI - SI SFO. Abndt dn to chlky w/VPr- NVP & barren.

{VSI-SI SFO}

LS: cm-gy-tn, ux- fnxln, Rr prt Mdx- Crsx- 2Rx, sm Pkst- fos, ~5%-10% w/Fr- VGd Poro: vug Poro, spt'd- subsat STN & FLR, VSI- SI SFO, Abndt dn, sm barren.

{VSI-SI SFO}

2039' (-663)
 STARK

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

-2050

LS: tn-wh, sm dn, ux w/NVP, sm Wkst- Pkst & ux- fnxln w/Pr- Fr Poro: IGr Poro, IX Poro, pp- vug Poro, Trc STN- FLR, Trc SFO & Cut. VCHERTY: wh-cm-tn & blu-gy, opq, shrp.

{Trc SFO}

{HUSHPUCKNEY} SH: blk carb & Vcarb.

LS: gy-tn-wh, sm Pkst, fn ool & fos & ux- fnxln w/Pr- Fr Poro: IGr Poro, IX Poro, pp Poro, spt'd- subsat FLR & lt Tn OSTN, VSI SFO & Cut. Pred dn to chlky w/Pr- NVP, NS.

SR-SR

SILTS & SH: lt to dk gy, sm calc, sm sndy, Vfn Gr'd. & SH: gy-blk.

LS: wh-tn-gy, mot lt- dk gy ool Pkst w/VPr- Pr visbl Poro. NS.

2100' (-724)
 BASE KANSAS CITY

{BASE KANSAS CITY} Abndt SH & SILTS: gy-blk & gn- gy, sm fis, sm calc, sm blk carb, sm pyrct. (sm LS: AA w/NS)

SR (Si Rough)

Incrs blk carb & dk gy SH, AA, pyrct. SILTS: lt-dk gy, Vcalc & sm pyrct. Pred dk gy SH.

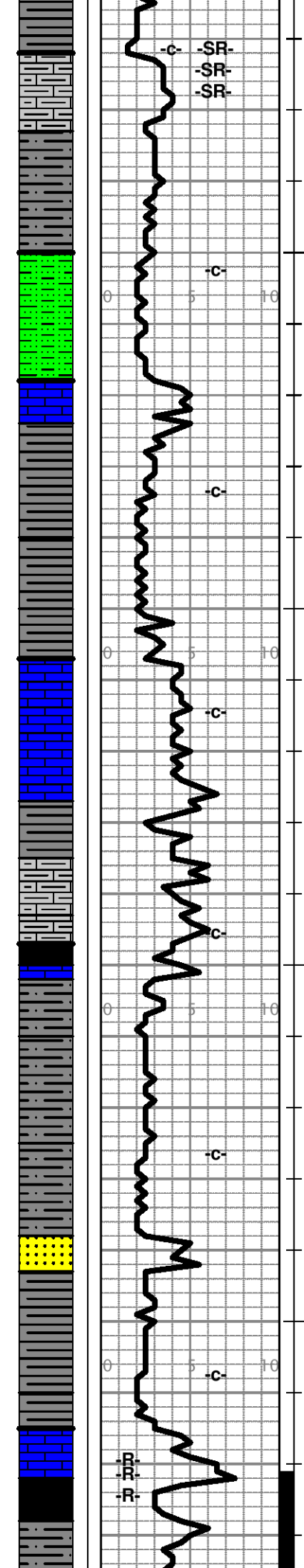
SH- SILTS: md-dk gy, sm calc.

SH: md-dk gy, micac.

-2150

SILTS- SH: md-dk gy, sm calc & micac & SI pyrct, Rr blk carb SH.

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



-c- -SR-
-SR-
-SR-

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

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

**2172' (-796)
CHECKERBOARD**

-2200

-c-

{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.

**2200' (-824)
HEPLER SD
{Fr SFO}**

{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.

**2218' (-842)
ALTAMONT**

Wt 9.25, Vis 34.41
PV 9, YP 6
pH 9.81, WL 11.1
LCM 2, CI 950

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.

**2297' (-921)
CHEROKEE**

-2300

-c-

{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)

{VSI SFO}

-2350

-c-

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

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

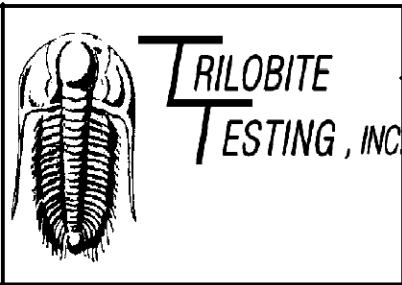
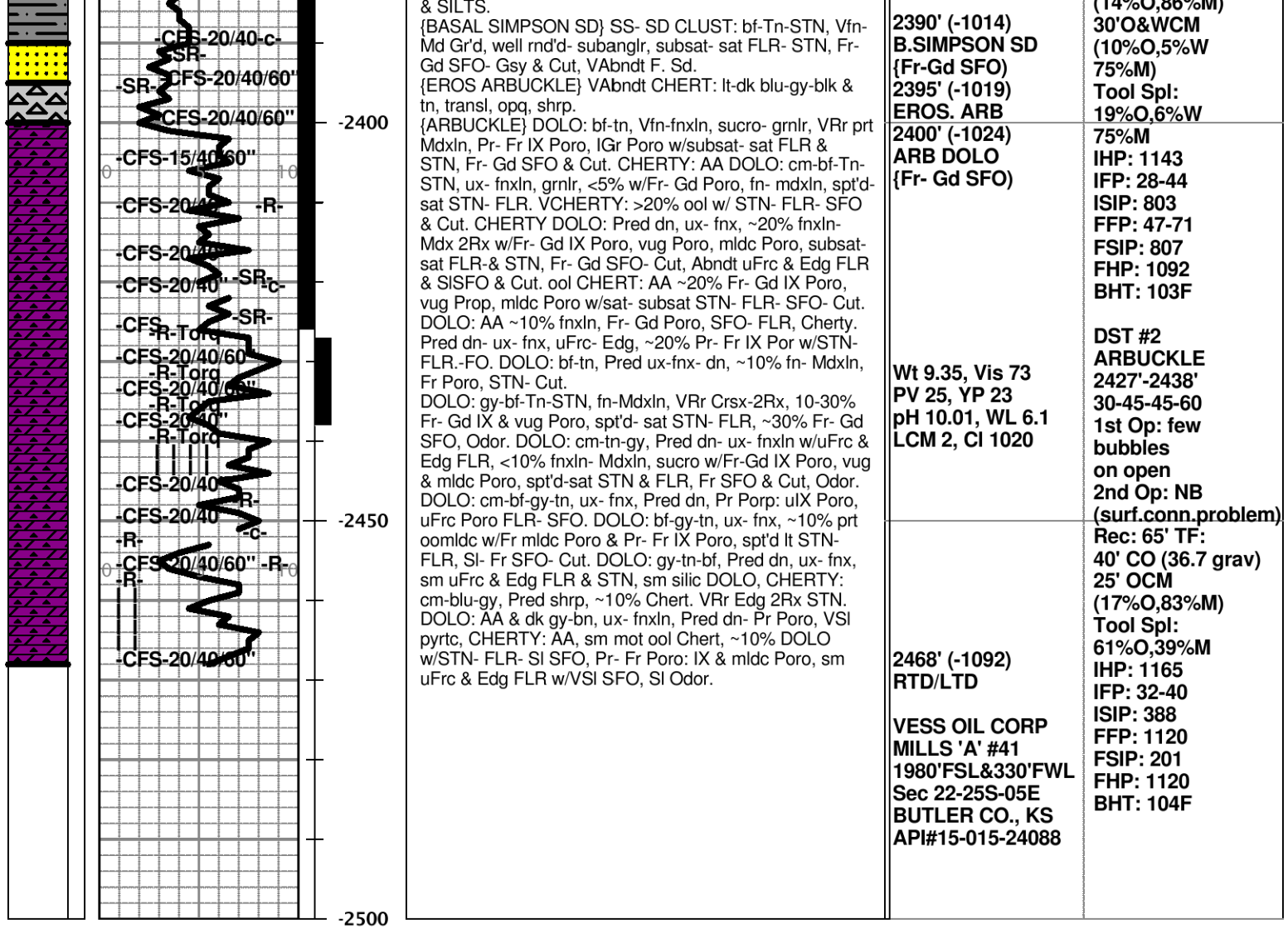
{ARDMORE} LS: cm-tn-gy, dn Mdst- Wkst, Rr Pkst.
LS: AA & tn-gy dn ux Mdst, sm pyrct & argil.

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

**2365' (-989)
ARDMORE**

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% C. 260/M)



DRILL STEM TEST REPORT

Vess Oil Corp.	22/25S/5E Butler, KS
1700 Waterfront Park way Building 500 Wichita, KS 67206 ATTN: Csey Coats/Roger Mar	Mills A #41 Job Ticket: 63591 Test Start: 2017.08.25 @ 23:44:00
	DST#: 1

GENERAL INFORMATION:

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

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

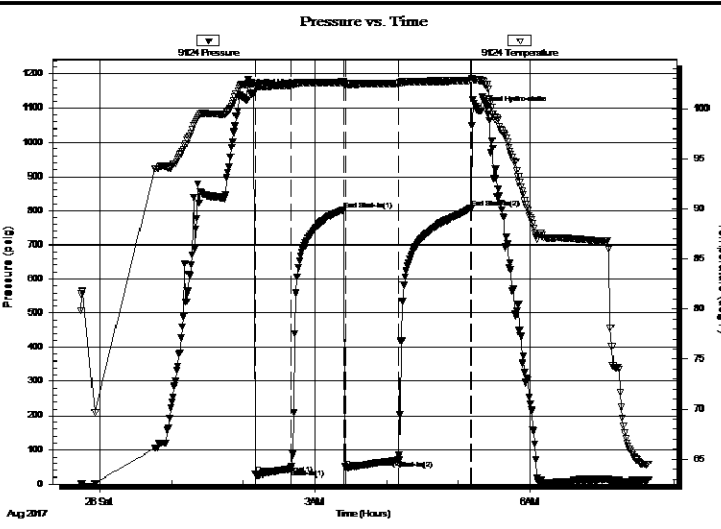
Start Time: 23:44:05

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

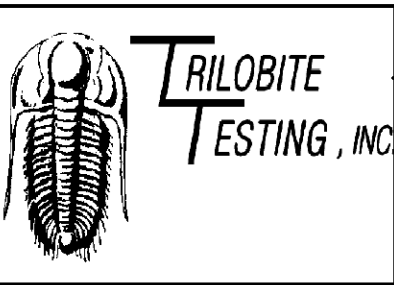
Gas Rates

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

Trilobite Testing, Inc

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:

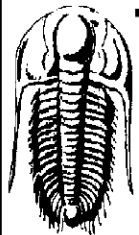
Final 44000.00 lb

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.

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:

psia

Salinity: 850.00 ppm
Filter Cake: inches

Recovery Information

Recovery Table

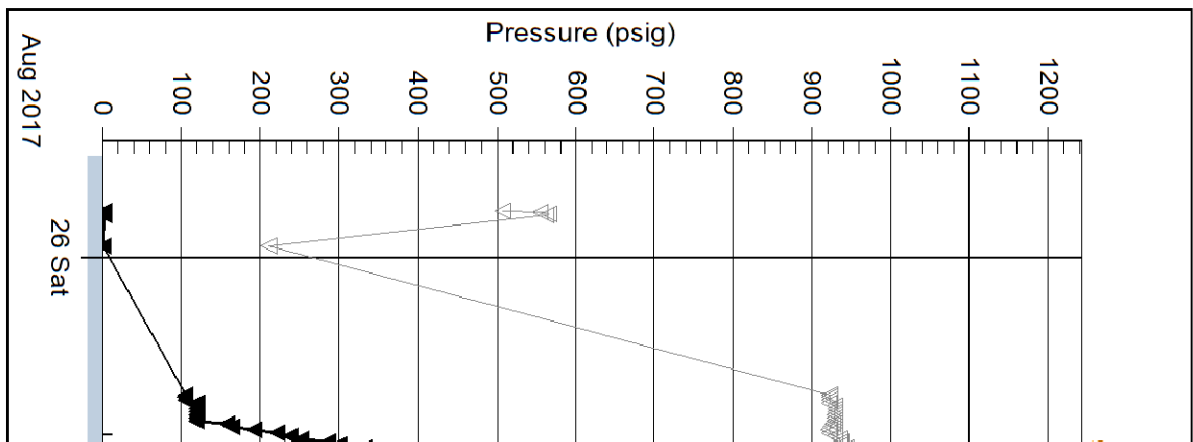
Length ft	Description	Volume bbl
30.00	Oil & water cut mud 10%O 5%W & 85%M	0.148
45.00	Oil cut mud 14%O & 86%M	0.221
45.00	Clean oil 100%O	0.221
0.00	TS oil & water cut mud 19%O 6%W & 75%M	0.000

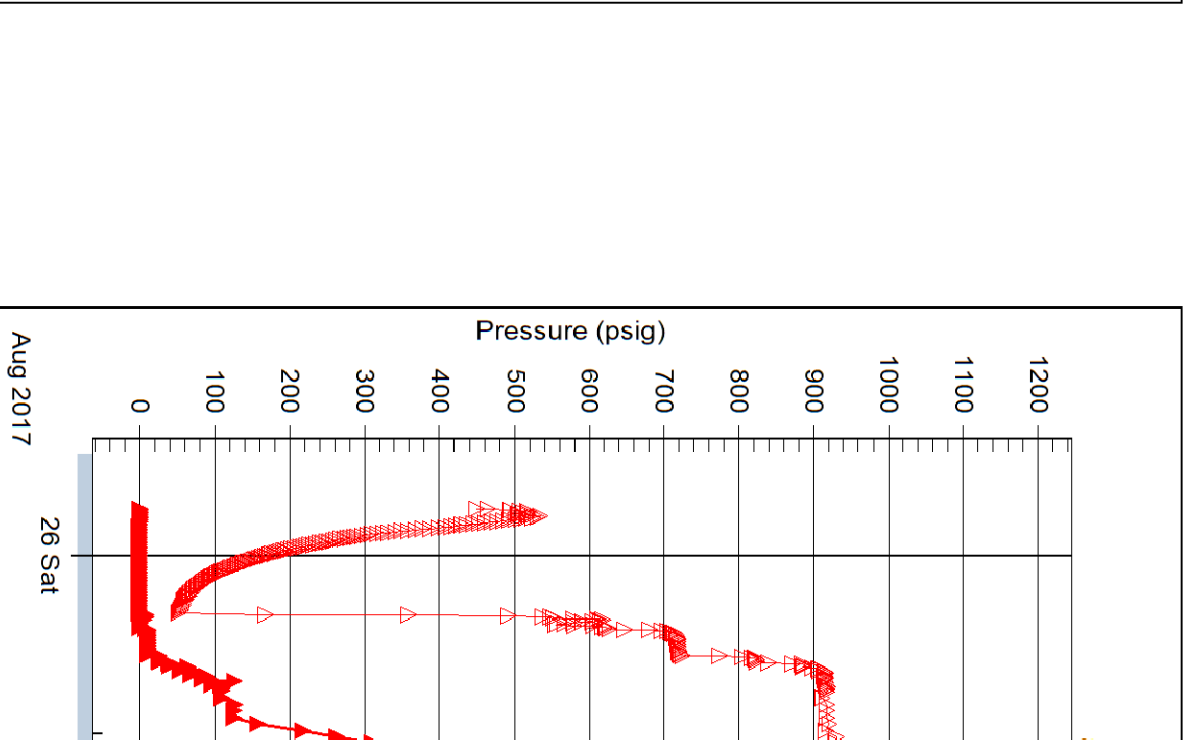
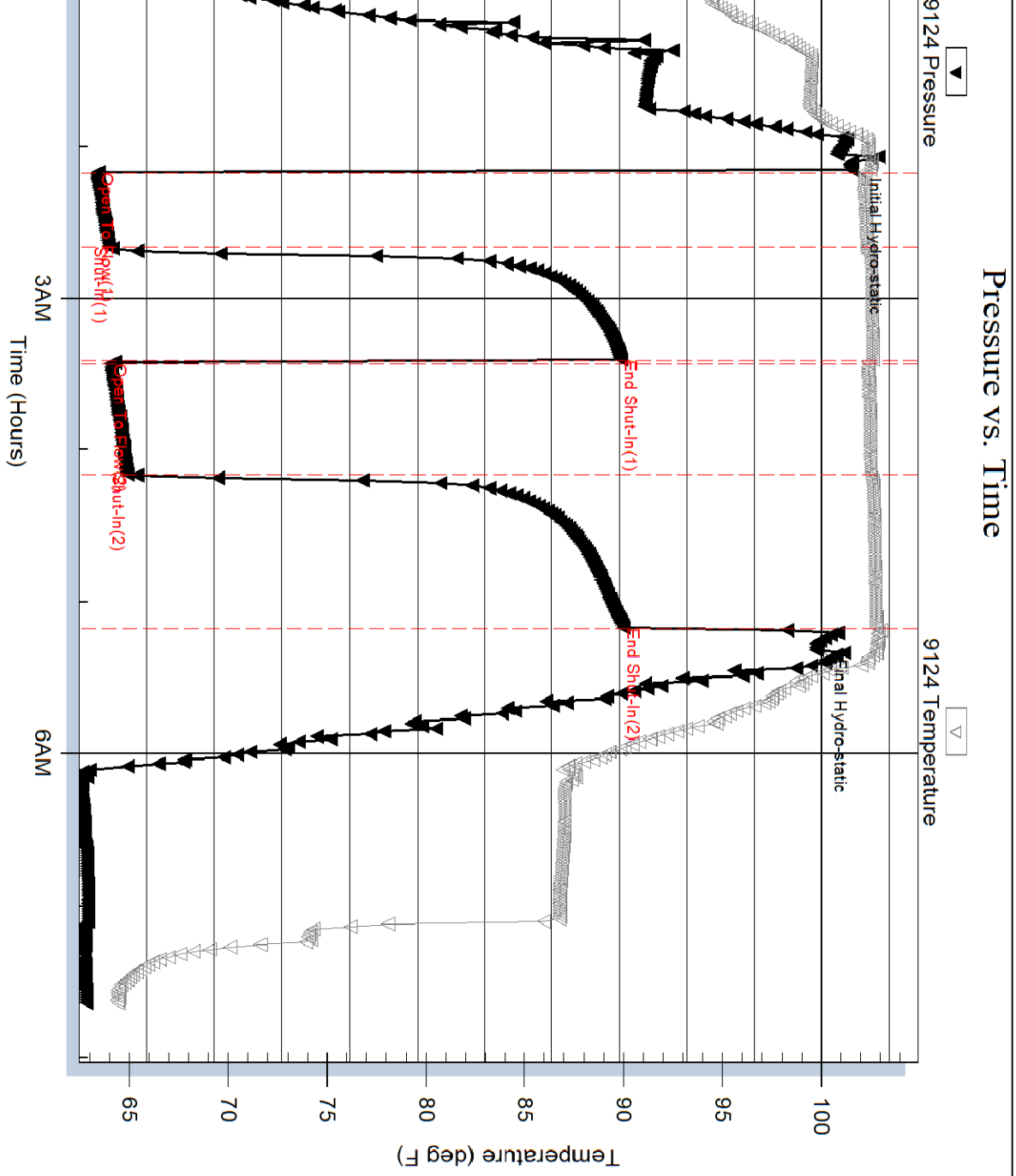
Total Length: 120.00 ft Total Volume: 0.590 bbl

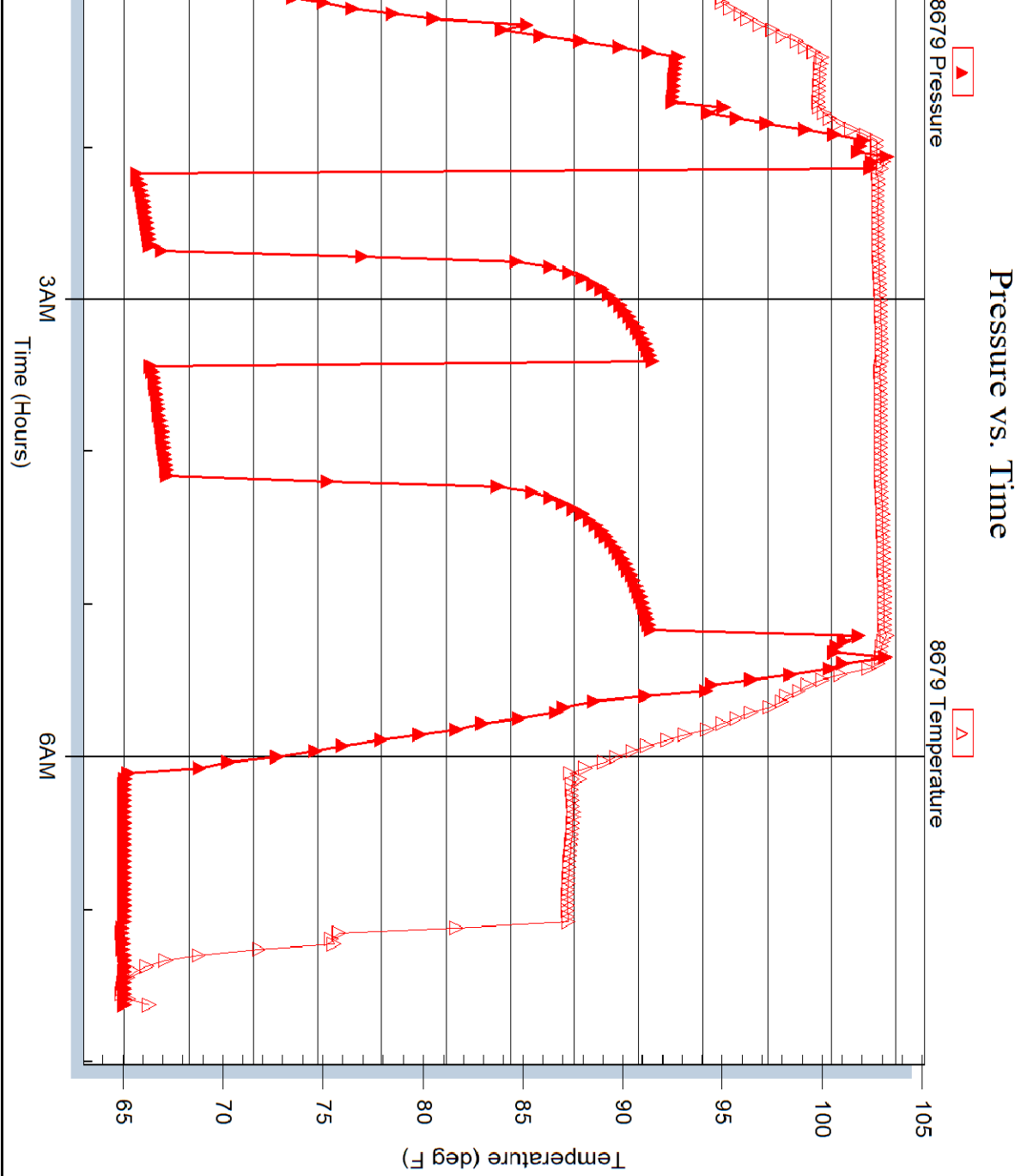
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

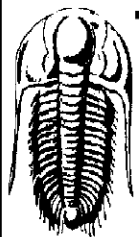






Ref. No: 63591

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**
 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

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)

Capacity: 8000.00 psig

Start Date: 2017.08.26

End Date: 2017.08.27

Last Calib.: 1899.12.30

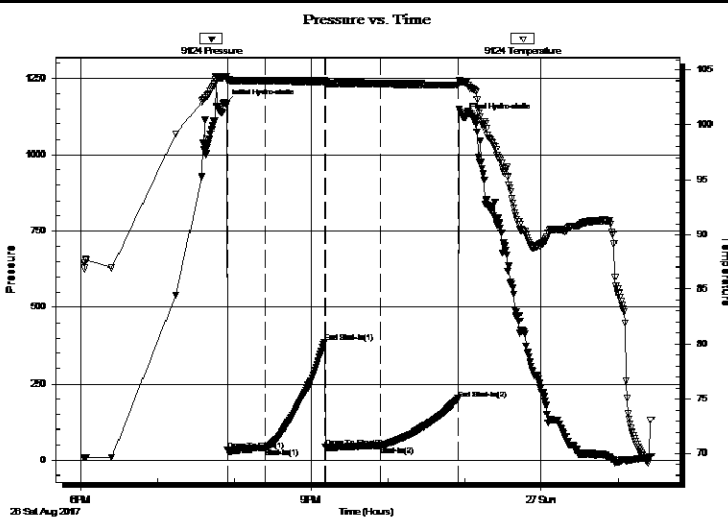
Start Time: 18:02:05

End Time: 01:25:20

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

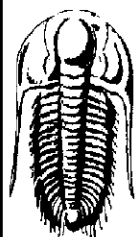
Gas Rates

	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)

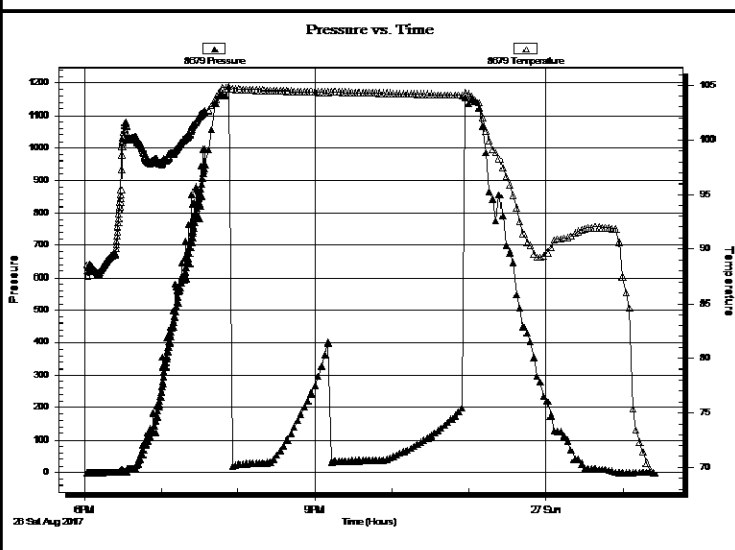
Tester: Jimmy Ricketts

Unit No: 80

Interval: 2427.00 ft (KB) To 2438.00 ft (KB) (TVD) Reference Elevations: 1376.00 ft (KB)
 Total Depth: 2438.00 ft (KB) (TVD) 1370.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 6.00 ft

Serial #: 8679 **Outside**
 Press@RunDepth: psig @ 2428.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2017.08.26 End Date: 2017.08.27 Last Calib.: 1899.12.30
 Start Time: 18:02:01 End Time: 01:25:20 Time On Btm: Time Off Btm

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

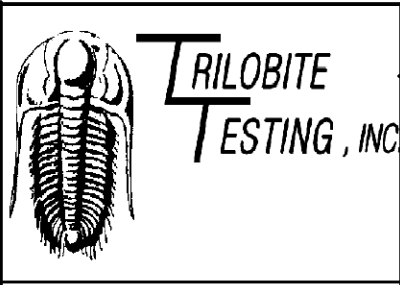
Recovery		
Length (ft)	Description	Volume (bbl)
25.00	Oil cut mud 17%O & 83%M	0.12
40.00	Clean oil 100%O	0.20
0.00	TS Heavy mud cut oil 61%O & 39%M	0.00

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

Trilobite Testing, Inc

Ref. No: 63592

Printed: 2017.08.27 @ 06:37:42



DRILL STEM TEST REPORT **FLUID SUMMARY**

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

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 36.7 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 52.00 sec/qt	Cushion Volume: bbl	
Water Loss: 7.40 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psig	

Salinity: 940.00 ppm
Filter Cake: inches

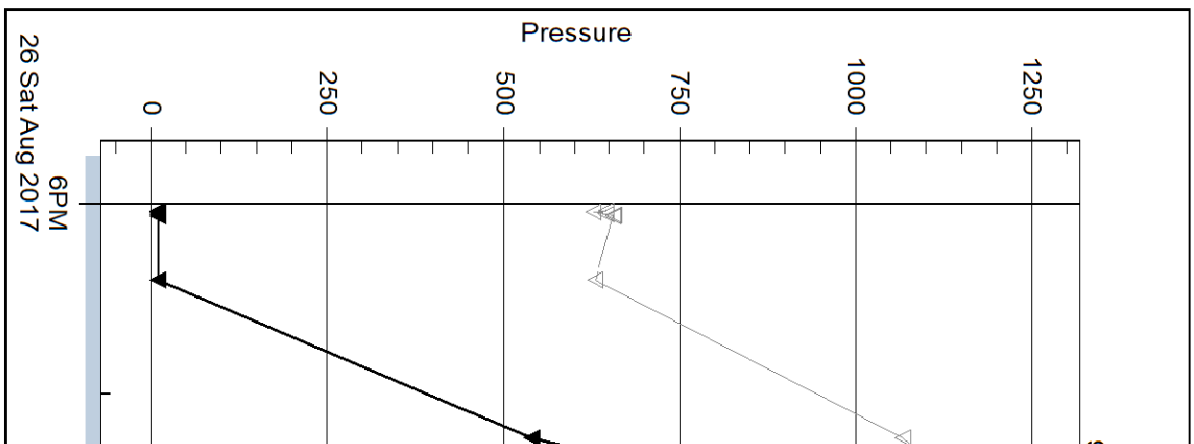
Recovery Information

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

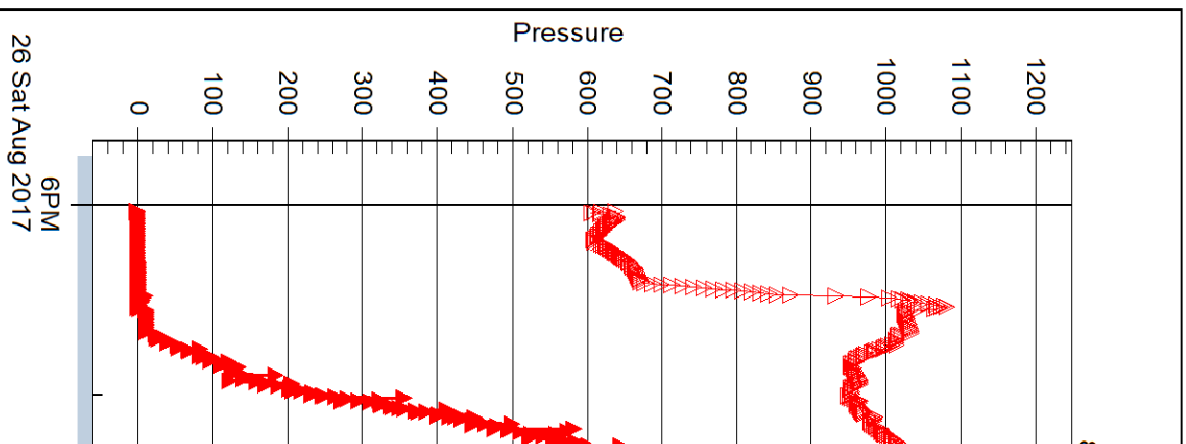
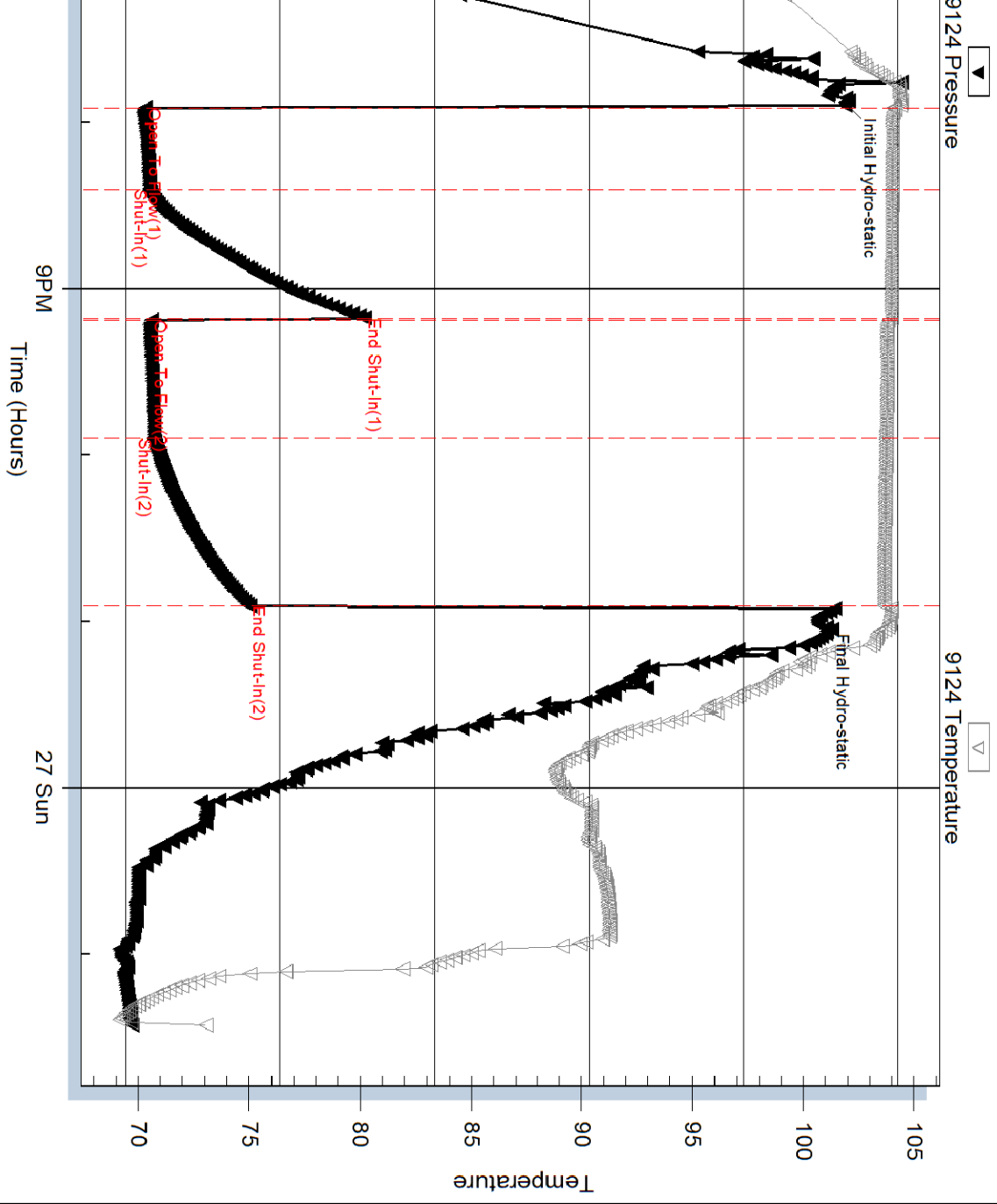


Serial #: 9124

Inside

Vess

Pressure vs. Time



Pressure vs. Time

