ROGER L. MARTIN

INDEPENDENT PETROLEUM GEOLOGIST 316-250-6970

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY VESS OIL CORPORATION

LEASE CHESNEY A #241

FIELD EL DORADO

LOCATION 1000' FNL & 2610' FEL

SECTION 21 TOWNSHIP 25S RANGE 05E

COUNTY BUTLER STATE KANSAS

ELEVATIONS

KB 1350' GL 1344'

Measurements Are All From KB: 1350'

API 15-015-24087-00-00

CONTRACTOR C & G DRILLING CO RIG#1

SPUD 8/11/17 COMP 8/18/17

RTD 2499' (-1150) LTD NA

ELECTRICAL SURVEYS

NO OPEN HOLE E-LOGS

5 DST's by TRILOBITE TESTING INC.

CASING

SURFACE 8&5/8" @ 262' w/ 150sx Class A cmt w/ 3% CaCl

PRODUCTION NONE P & A

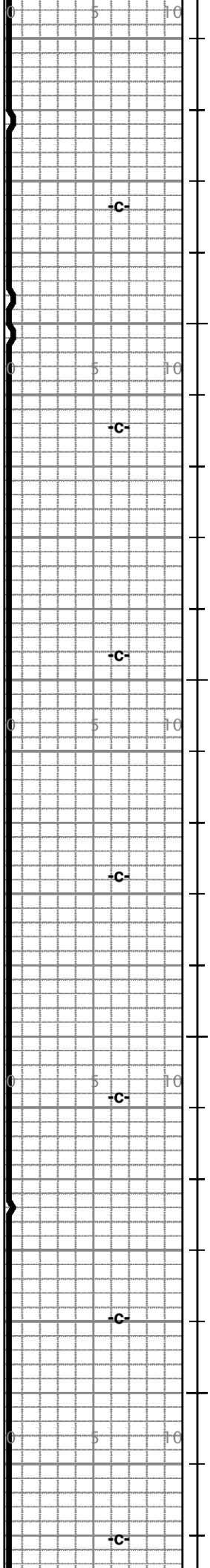
FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
			08/09/2017- MIRU C&G Rig #1. Perform rig repairs.
			Hogoboom hauled spud mud from Scully #25.
ADMIRE 550'	--	520' (+830)	
ADMIRE 650'	--	619' (+731)	08/10/2017- C&G on location, making repairs to rig.
WHITE CLOUD LS	--	860' (+490)	
WHITE CLOUD SD	--	871' (+477)	08/11/2017- Start drilling rathole @ 7:45AM. Surface
OREAD	--	1336' (+14)	hole started at 9:15AM. TD @ 262' @ 1:50PM. Run
HEEBNER	--	1375' (-25)	7 jts of 8-5/8" 23#/FT L.S. casing, Tally = 254', Set @
TORONTO	--	1387' (-37)	262'KB. Consolidated cemented w/150 sx Class A, 3%
DOUGLAS SH	--	1406' (-56)	cc; Circulate cement. Plug down @ 3:25 PM.
DOUGLAS SD	--	1448' (-98)	
IATAN	--	1574' (-224)	08/12/2017- 7:30AM Drlg @ 1025'. Drill out under
LANSING	--	1653' (-303)	surface @ 1:15AM. 1:00PM Back on bottom after
KANSAS CITY	--	1936' (-586)	bit trip. PDC out and button bit in. Mud 9.1#, 33 Vis
STARK	--	2040' (-690)	
BASE KANSAS CITY	--	2100' (-750)	08/13/2017- 3:16AM DST #1 on bottom.
CHECKERBOARD	--	2173' (-823)	6:03 PM Drlg @ 1653'.
HEPLER SD	--	2205' (-855)	
ALTAMONT	--	2221' (-871)	08/14/2017- 7:30AM Drlg @ 1924. Mud 9.3#, 40
CHEROKEE	--	2301' (-951)	Vis. 10:15 AM CFS @ 1960', GSO.
ARDMORE	--	2368' (-1018)	
VIOLA	--	2398' (-1048)	08/15/2017- &:00AM Drlg @ 2389', Mud 9.2#,
SIMPSON SD	--	2420' (-1070)	36 Vis, 7:50AM Bit @ 2400', CFS. DST #2.
BASAL SIMPSON SD	--	2488' (-1038)	
ARBUCKLE	--	2491' (-1141)	08/16/2017- 4:00AM TOOH for DST #3.
RTD	--	2499' (-1150)	
			08/17/2017- Running DST #4, Lwr Simpson
			& Upper Arbuckle.
			08/18/2017- 12:33 AM TOOH for DST #5.
			8:30 AM Decision to P&A well.

REMARKS: The decision was made to P&A the Vess Oil Corporation Chesney 'A' #241.
35 sx above the Arbuckle,

35 sx @ 50'
Below 8-5/8 20 sx @ 60'-0'
Rathole 20 sx

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

LITH	POROSITY	DRILLING TIME MIN/FT	DST	SAMPLE DESCRIPTION	REMARKS	
		-c-(connection)		310'spl} Abndt cement(cmt); Rare(Rr) LS: wh-gy-bf-tn, microXln(ux) to fnXln, w/ Trc MdX's- 2nd ReX; sm fos-Pkst; V.rare(Vrr) pr-Fr pin point(pp) Porosity(Poro), Inter-fos(I.fos), Inter-Granular(IGr), InterXln.Poro(IXP) w/ spt'd to subsaturated(subsat) Oil Stain(STN) & Fluorecence (FLR) & Trace (Trc) Show Free Oil (SFO) Very Slight (Vsl) Odor(Odr).	{Trc SFO)	
		-300				
		0 5 10 -c-		341'spl} increase(incrs) LS: wh-gy-tn, sm fos- Pkst; & ux-fnXln, w/ Vrr MdX- 2nd ReX; pred pr visbl Poro: As Above(AA) Trc Fr Poro; Vrr FLR & STN & Trc SFO & Cut, Vsl Odor; (~30%LS) & SH: gray(gy) & green(gn).	{Trc SFO)	
		-c-		372'spl} V.Abundant(Abndt) (~90%} SH: bk subcarb to carb, & calc, & V.dk gy; Rr LS: gy-wh & tn-STN, sm fos- Pkst; & ux-fnXln; & granlr Pkst-Grst: fos & ool w/ pr-Fr Poro: IGr & pp & IXP & Trc Gd Poro: IGr; w/ spt'd to saturated(sat) rich tn STN & brt FLR & VSl-Sl SFO & Cut, Trc Fr Cut; Trc sat.STN & FLR w/ Fr SFO & Cut, Sl Odor.	{VSl-Sl SFO)	
		-350				
		0 5 10 -c-		403'spl} Pred SH: bk & dk-gy- AA; incrs LS: AA; gy-wh, sm dn & sm chlky, sm Pkst-Grst w/ pr-Fr Poro; Trc Gd Poro; & sm ux-fnXln w/ sm IXP; <10% w/ spt'd-sat STN & FLR & VSl-SlSFO & Cut, & VSl Odor.	{VSl-Sl SFO)	
		-400				
		-c-				



434'spl} (Vrr LS:AA w/ Poro w/ FLR-STN-SFO-Cut) incrs LS: pred gy-wh, Vfnly granlr & subchlky to chlky w/ Vpr to pr visbl Poro w/ NS; sm dn Mdst;& sm gy-bk SH.

465'spl} incrs SH: md-dk-gy, & bk- sm carb; & LS: md-dk-gy, pred dn & argil LS- Mdst & ux-cryptoxln-dn w/ Vpr Poro to No Visible Porosity {Vpr-NVP) w/ No Show (NS) & sm wh-chlky LS w/ NS.

497'spl} V.Abndt (~70%) LS: cm-bf-tn, & gy-wh, ux-VfnXln, & Vfnly Granlr, sm silty & Vfnly Sndy; sm semichlky; Vpr-pr visbl Poro w/ NS; sm SH: pred gy-bk, sm pyrtc.

528'spl} ~50% SH: dk-gy-bk, Rr bk carb;
~49% LS: tn-gy-bn, & cm, sm mot; Wkst-Pkst- fos; & ux-fnX & dn- argil w/ pred Vpr-NVP w/ NS;

528'spl.cont'd} Admire 550' Sd} Trc SS: Sd Clusters (~1%) gy w/ tn-STN, VfnGr'd, silty, sm micac, subfribl-fribl w/ pr-Fr visbl Poro: u-IGr.Poro w/ subsat-sat FLR & STN & Sl-Fr SFO, & Sl to Gd Cut, VSl Odor.

520'(+830)
ADMIRE 550'
{Sl SFO)

559'spl} Admire550'Sd} Trc SS: Sd Clust: AA w/ Poro FLR & STN & SFO & Cut; Trc Sndy SILTS w/ FLR & STN & SFO & Cut, Sl Odor;
Abndt gn-gy SH & SILTS; & LS: cm-tn-gy, pred dn- ux w/ Trc fnX's; sm Mdst: sm argil-shly w/ Vpr-NVP w/ NS.

{Sl SFO)

590'spl} SH: gy-bk, sm bk carb, & gn-gy, sm calc;
LS: cm-bf-gy, pred dn Mdst-Wkst, sm granlr & sm argil; Rr tn ux-fnX w/ pr-NVP w/ NS.

621'spl} Pred SH: gy-bk, sm bk carb, & sm gn-gy SH; & sm LS:AA; pred dn & argil, sm pyrtc, sm ux-fnX w/ pred Vpr-NVP w/ NS;
& sm SILTS: Lt-gy, micac, sm Sndy: VfnGr'd; Trc Silty Sd Clusters & Sndy SILTS: w/ Vpr-pr Visbl Poro w/ subsat FLR & STN & VSl SFO & Cut.

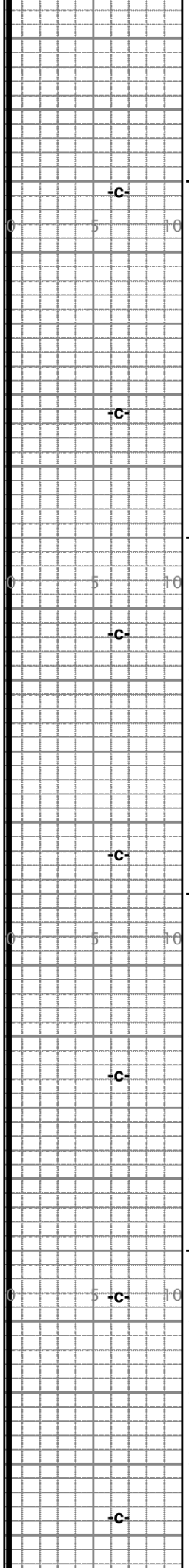
{VSl SFO)

653'spl} Vrr LS: gy-bk, V.argil, dn; Abndt SH: Lt-dk-gy-bk, sm micac, sm calc, & sm bk carb; & SILTS: Lt-dk-gy, sm calc, sm micac; Vpr Visbl Poro w/ Vrr FLR & SFO & milky Cut, Vsl Odor.

{VSl SFO)

653'spl.cont'd} Admire650'Sd} SS: (~10%<20%) Sd Clusters: gy w/ tn-STN, Vfn-Md Gr'd, pred Vfn-fn Gr'd,

619' (+731)
ADMIRE 650'
{Gd SFO)



Rnd'd to subanglr, Hi to Low Sphr, well cmt'd to fribl w/ pr-Fr IGr.Poro, Trc Gd Poro, spt'd to sat FLR & tn-bn-STN w/ Sl-Fr SFO & milky Cut, Trc Gd Strmg.Cut, Fr Odor.

683'spl} Vrr (<5%) Sd Clust:AA, w/ Poro w/ FLR & STN & SFO & Cut- AA; & Vrr SILTS:AA w/ FLR & STN & SFO & Cut, Sl Odor.

683'drlg.spl} (<5% Sd Clust:AA w/ Poro w/ FLR-STN-SFO-Cut-AA, Sl Odor)
Pred SH: dk-gy-bk; sm LS: tn-gy, sm mot- Wkst-Pkst; & sm dn Mdst, & ux-fnX; sm argil- shly; Vpr-NVP w/ NS.

683'+15min.circ.spl} (<5% Sd Clust:AA w/ Poro w/ FLR-STN-SFO-Cut-Odor-AA)
Pred SH:AA; & sm LS:AA.

714'spl} (Trc SILTS & SS- Silty Sd Clust: AA w/ FLR-STN-SFO-Cut-Odor)
Pred SILTS-SH: Lt-dk-gy, micac, sm calc.

{SFO)

Mud Checks by: Twister Mud Co.,LLC
wt 9.0,Vis 30
PV 5,YP 3
WL 22,pH 11.58
LCM .5,Cl 780

745'spl} (Trc Sd Clust: AA: Vfn-fn Gr'd silty w/ pr-Fr Poro w/ subsat-sat FLR-STN-SFO-Cut-AA)
SILTS & Silty SH: Lt-dk-gy, micac; Vrr Sndy SILTS & Silty SS- Sd Clust: Pred Vfn Gr'd w/ pr Visbl Poro w/ subsat FLR & STN & VSISFO & Cut & Vsl Odor (incrs in Sndy SILTS & Silty Sd Clust w/ FLR-STN-SFO-Cut).

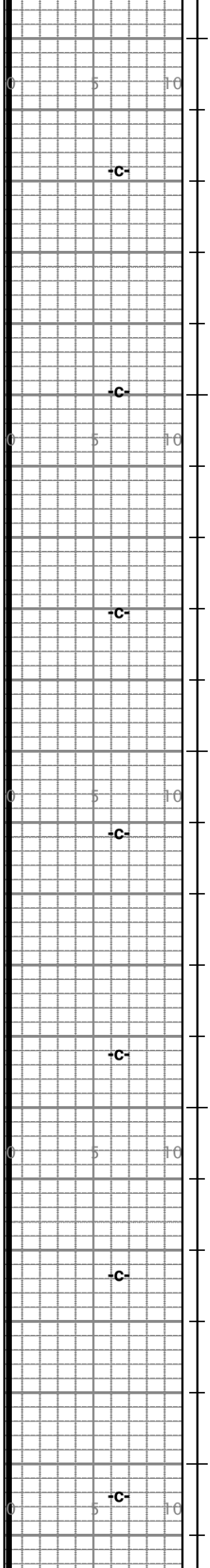
{VSl SFO)

776'spl} (Vrr SILTS & Silty SS-Sd Clust:AA w/ FLR-STN-SFO-Cut-Vsl.Odor)
Pred SH & Silty SH: dk-gy.

807'spl} Abndt (~60%) LS: tn-gy-wh, sm mot-Wkst-Pkst, sm chlky, sm ux-fnXln, Vrr Md-VCrs Calc.X's; pred pr Visbl Poro to NVP w/ NS; ~40% SH:AA.

838'spl} Abndt LS: wh-gy-tn, pred dn, sm Xln- ux w/ Rr fnX to V.CrsX's- 2nd ReX; & sm wh-chlky, pr Visbl Poro-NVP w/ NS {>60%LS & <40%SH:AA).

869'spl} Pred SH: dk-gy-bk subcarb; (sm LS:AA)
& LS: tn-gy, argil-shly Wkst-Pkst w/ Vpr-NVP w/ NS.



900'spl} V.Abndt SH: dk-gy-bk, sm bk carb (Trc LS:AA; Trc SILTS & Silty Sd Clust:AA w/ Trc FLR-STN-SFO-Cut) Trc LS: gy-tn-wh, pred dn, & semichlky, & ux, & argil- Wkst;

860' (+490)
WHITE CLOUD LS

900'spl.cont'd} sm SILTS: Lt-md-gy, sl calc; Trc Silty Sd Clust: gy w/ tn-STN; Vfn Gr'd, argil-silty w/ pr-Fr Poro w/ subsat-sat FLR & STN, & VSlSFO & milky Cut, Trc Odor {>1%).

871' (+477')
WHITE CLOUD SD
{Sl SFO)

931'spl) Pred SH- Silty SH: dk-md-gy, sm micac; (Trc Sd Clust:AA).

962'spl} SH: md-dk-gy, sm calc, sm silty; Sm LS: Lt-dk-gy-tn, dn & argil Mdst-Wkst w/ Vpr-NVP w/ NS.

993'spl} SH: gy-bk; SILTS: md-dk-gy, micac, sm calc; Vrr Sndy SILTS & Silty Sd Clust.

1024'spl} AA; & <2% Sd Clusters: gy w/ tn O.STN, Vfn Gr'd to fn Gr'd, Rnd'd to subanglr, silty, pr Visbl Poro w/ subsat FLR & STN & Sl milky Cut, Trc SFO.

{Trc SFO)

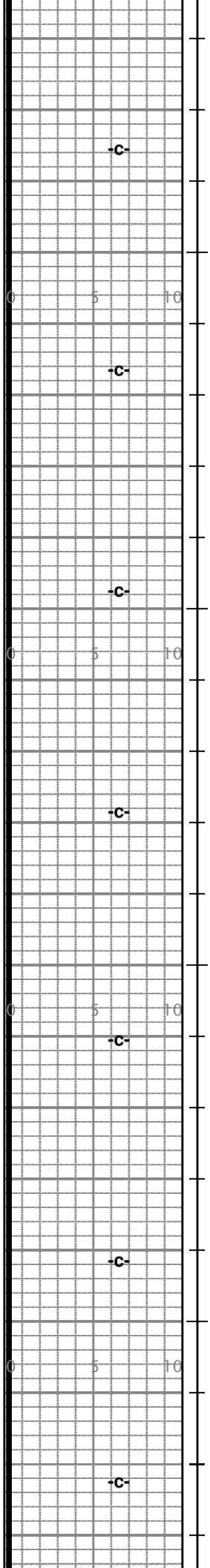
1055'spl} Vrr LS: gy-wh & tn, dn & argil & sm chlky, & ux-fnX; Vpr-NVP; NS; Pred silty SH: md-dk-gy, micac; (Trc Sd Clust:AA w/ FLR-SFO-STN-Cut).

1086'spl} Abndt LS: tn-gy-wh, sm mot- fos- Pkst & Wkst, sm chlky, sm ux-fnX, pred pr Visbl Poro: pred Barren fos-mold Poro.

1117'spl} LS: cm-tn, ux-fnXln, pred VfnXln- sucro- sl dolomc, w/ pr-Fr Visbl Poro: pp-vug & IXP w/ spt'd to sat FLR & Lt-tn-STN & VSlSFO & milky Cut, Vsl Odor; Pred Barren- dn- ux-fnX; & sm argil LS.

{VSl SFO)

1148'spl} SH: gy-bn, Abndt lmy & calc. (Trc LS AA w/FLR-



SFO- STN-Cut)

1179' spl} SH: Pred gy-blk (~40%)
~60% LS: wh-tn-gy, prt chlky, sm fos Wkst- Pkst & ux-fnxln, Pred Pr- NVP w/SFO. VRr blk carb.
(Trc LS AA w/FLR-STN-TrcSFO-Cut)

{SFO)

1211' spl} sm SH: gy-blk & LS: tn-gy-wh, mot Wkst- Pkst & ux-fnxln, VRr Mdx-2Rx, Pred Pr visbl Por: pp- vug Por, IX Por, VRr <5% w/spt'd FLR- Lt STN, TrcSFO, TrcSFO IGr Poro.

{Trc SFO)

1242' spl} ~40% SH: gy-blk & gn-gy & blk carb.
LS:gy-tn-wh, ux-fnxln, sm 2Rx & Wkst- Pkst, Sl fos, Pred Pr Poro: uIX Poro, uIGr Poro, Trc FLR- STN, Trc SFO & Cut (<1%)

{Trc SFO)

1273' spl} LS: wh-tn-gy, Prt chlky, prt fnx- Mdxln, Rr prt Crsxln- VCrsX's- 2Rx, sm Fr visbl Poro- Gd aprnt Poro: IX Poro, vug Poro, <5% w/FLR-STN, Trc SFO & Cut.

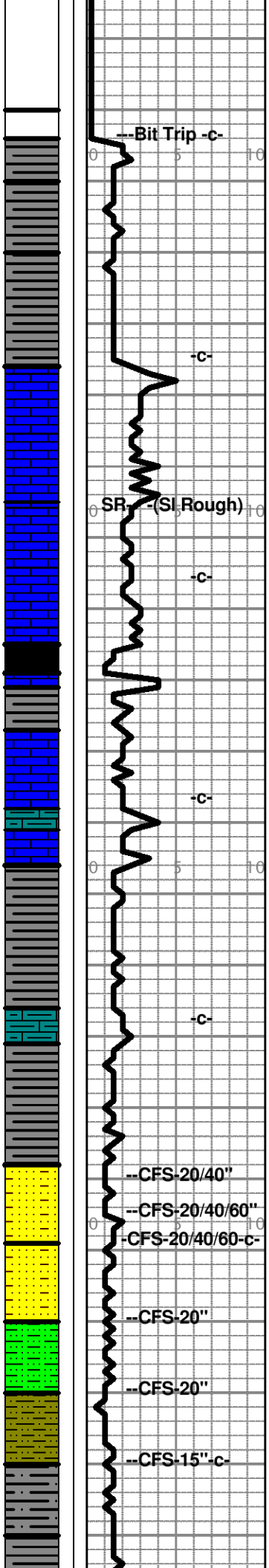
{Trc SFO)

wt 9.3,Vis29.3
PV 7,YP 3
WL 17.3,pH 11.18
LCM trc,Cl 1450

1304' spl} LS: wh-tn-gy, sm mot Wkst- Pkst, sm fos, prt chlky, prt fn-Mdxln w/Rr CrsX's- VCrsX's- 2Rx, Pr- Fr Poro: IGr Poro, IX Poro, vug Poro, VRr Gd Poro, Trc FLR, Trc STN, Trc SFO- Cut, >99% barren. (>90% LS AA)

{Trc SFO)

1304' spl} VAbndt SH: lt-dk gy, micac. (>90% SH)



SH: AA

SH: Pred dk gy- blk.

SH: AA

~40% SH: AA.

~60% {OREAD} LS: tn-gy, cm, dn- mx- Rr fn-Md 2Rx, Pred VPr- NVP w/NS.
LS: AA, VRr Pkst- fos & pp Poro, Trc FLR- STN- SFO.

1336'(+14)
OREAD
{SISFO)

wt 9.15,Vis36
PV 9,YP 5
WL 12,pH 11.25
LCM 1,Cl 1150

LS: cm-tn & wh-gy, Grnlr & fos Pkst & sm ux-fnxln, VRr Mdx- 2Rx, sm wh chlky, Pr- Fr IX Poro, IGr Poro, <5% spt'd- sat FLR & VSl SFO

{VSl SFO)

1375' (-25)
HEEBNER

{HEEBNER} SH: Blk carb- Vcarb.
LS: tn-gy-bn, dn- ux-fnx, sm argil.
SH

1387'(-37)
TORONTO
{Sl-Fr SFO)

{TORONTO} LS: wh-gy & cm-Tn-STN, ux-Vfn, sm u-sucro- sm Vfnly grnlr Pkst w/Pr-Fr IX Poro, IGr Poro, >5%<10% w/subsat-sat FLR, Lt Tn STN- Sl-Fr SFO, Fr Odor, Abndt dn- NVP.

1406' (-56)
DOUGLAS SH

{DOUGLAS SHALE} VAbndt SH- SILTS: gy-blk SH- sm carb & sm micac, sm mdGy, calc & micac SILTS.

sm SH: AA, Abndt LS:- Mdst- cm-tn-gy, dn Mdst & cryptox-ux argil, VPr- NVP.

Pred SH: dk gy-blk & md gy, micac.

1448' (-98)
DOUGLAS SD
{Fr-Gd SFO)

DST #1
U.DOUGLAS SD
1370'-1459'
30-45-45-60
1st Op: Wk blo, bldg to Strng blo in 90", BOB in 1-1/2', No BB
2nd Op: Wk blo bldg to Strng blo in 1', BOB in 1' (FS surf BB during final SIP)
Rec: 115' GIP
130' OspkM (100%M, trc O)
IHP: 643
IFP: 23
ISIP: 341
FFP: 43
FSIP: 339
FHP: 630
BHT: 96F

{DOUGLAS SS} Silty SD CLUST: Tn-STN, sm micac, 20-30% Vfn-fn Gr'd, fribl, Pr- Fr Poro w/subsat- sat STN- Fr-Gd SFO- Cds- Gs, strmg mlky Cut, Frly strng odor.
SS- SD CLUST: AA, Incrs Vfn- fn Gr'd w/Fr-Gd Poro, fribl w/sat FLR & STN, Fr- Gd strmg mlky Cut.
SS & SD CLUST: AA (~20%) w/sat FLR- STN & Fr- GD SFO & Gd Cds-GB & Frly strng Odor.

{Fr-Gd SFO)

SILTS & SILTY SD CLUST: Pred Vfn Gr'd AA, ~20% w/spt'd- sat FLR & STN- Lt Tn OSTN, silty, micac, Fr- Gd SFO- GB. ~60% w/Abndt sat- subsat FLR- STN

{Fr-Gd SFO)

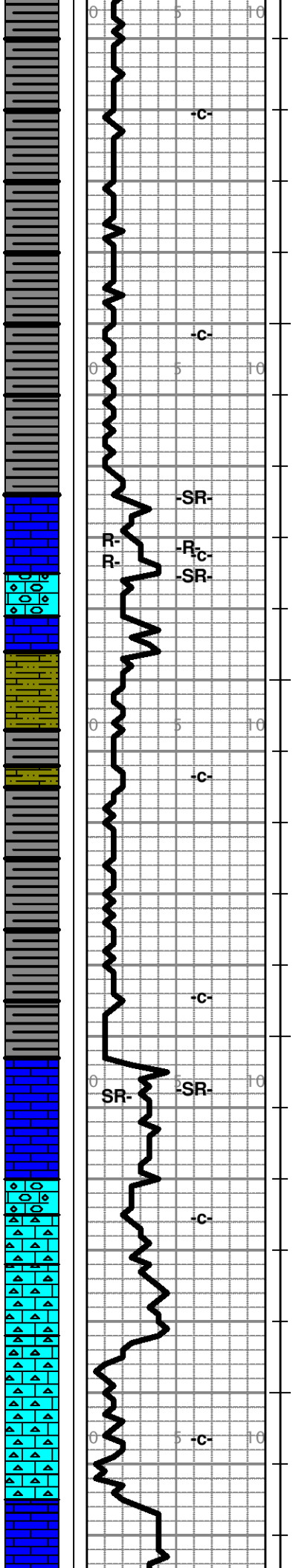
Mud @ 1450':
wt 9.25,Vis 41
PV 13, YP10
WL 9.9,pH 10.4
LCM 1,Cl 1280

SILTY SD CLUST: AA ~30% w/STN- FLR- SFO-GB & Cut,

~90% SILTY SD CLUST & SILTS: AA, ~5% w/FLR-STN-SFO- Cut. Incrs shly, silty Sd Clust & Silts: Pred barren & ~30% gy-blk SH.

{Sl SFO)

Incrs SH: gy-blk & md gy, silty & silts. (Trc Sd Clust AA-



STN)

Pred SH: gy-blk, micac.

SH: md-dk gy, micac & silty.

SH- SILTS: AA & silty SH.

sm gy Silts- micac.

Pred SH: gy-blk.

SH: gy-blk subcarb.

{VSI- SISFO)

1574' (-224)
IATAN
{VSI-SI SFO)

{IATAN} LS: gy-wh & Tn-OSTN, prt chlky, grnlr-frag Pkst, fos & ux-fnxln w/Pr- Fr IGr Poro, Ifos Poro, pp Poro, IX Poro w/spt'd- sat Lt STN & FLR- VSI- SI SFO & mlky cut, Fr Odor. LS: cm-bf, sm prt ool & VRr prt oomlc w.Fr Ioolmldc Ooro w.spt'd-subsat STN- FLR & SI SFO & Cut.

{SI SFO)

LS: gy-tn, dn Mdst & ux-dn.

Abndt LS & SILTS: gy, sndy & micac & calc.

Pred SH: gy-blk, micac.

SH: AA, sm blk carb.

Pred dk gy SH.

SH: AA, gy-blk.

1653' (-303)
LANSING
{Trc SFO)

{LANSING} LS: cm-tn, Mdst- Wkst, pred dn, Rr Pkst & ux-fnxln, Trc Poro FLR- SFO- STN w/NS, Trc SFO- STN.

LS: wh-bf-gy w/Tn OSTN, sm fn- Mdxln w/Rr Crs-VCrsX's, sm ool & fos & Sl mldc Pkst, ~30% w/Pr- Fr Poro, VRr Gd Poro, spt'd- sat FLR & STN, VSI - SI SFO, Sl- Fr mlky Cut, Odor, sm wh chlky, sm dn.

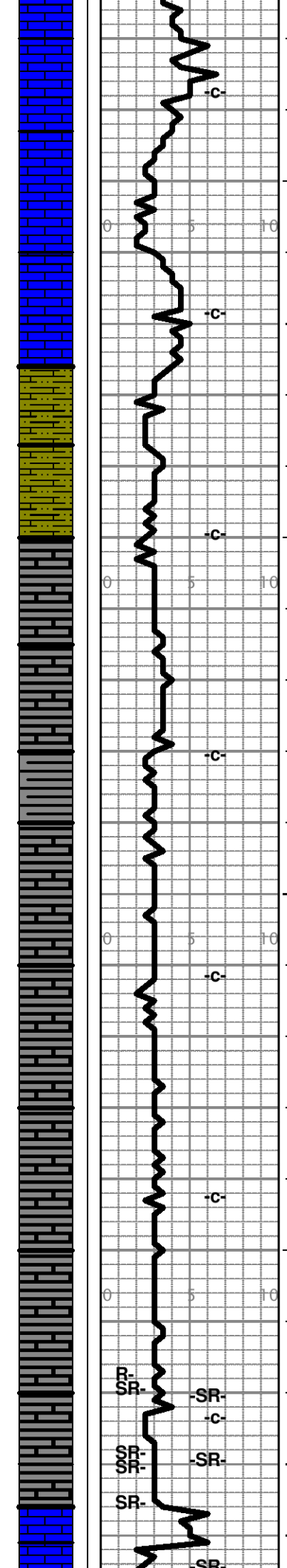
{VSI- SI SFO)

LS: wh-gy-tn, Pred dn- Wkst & Pkst w/Pr- NVP. NS. Cherty- cm-bf-gy, opq, shrp.

LS: cm-bf w/rich Tn OSTN in >60%, Pred sat STN & FLR, grnlr Pkst- Grst & ux-fnxln w/sm Mdx-VCrsx's, Fr- VGd Poro: IGr Poro, IX Poro, pp Poro- vug Poro, sm VGd vug & mldc Poro w/STN, Sl SFO- Gsy & flmy w/Fr- Gd Cut, Frly strng Odor, Sl- Fr SFO & Fr- Gd Cut.

{Fr SFO)

LS: Pred dn- ux, cm-tn-gy, sm chlky, Pred Pr- NVP.



LS: cm-tn-gy, mot Pkst & Wkst, sm prt wh chlky w/VPr-NVP w/NS.

LS: wh-cm-bf, prt chlky, grnlr Pkst- Grst & ux-fnx Rr Md-VCrsx's- 2Rx, sm Fr- Gd IGr & IX Poro w/NS in >99%. Trc STN- FLR- SFO- Cut.

{Trc SFO)

LS: gy-tn-wh, sm mot- Wkst- Pkst, prt chlky, sm dn Mdst w/VPr- NVP. sm Vargil, dn LS.

SILTS: dk-lt gy, cacl, Vfnly sndy.

SILTS: lt-dk gy, sm Vcalc & lmy, sndy & SH: gy-blk, micac & calc.

SH- SILTY SH: dk gy-blk, sm calc & micac.

SH: gy, calc, silty, Sl micac.

SH: gy-blk & sm calc, AA.

SH: md-dk gy, sm calc & sm micac.

SH: AA, gy, micac & calc.

SH: gy, AA.

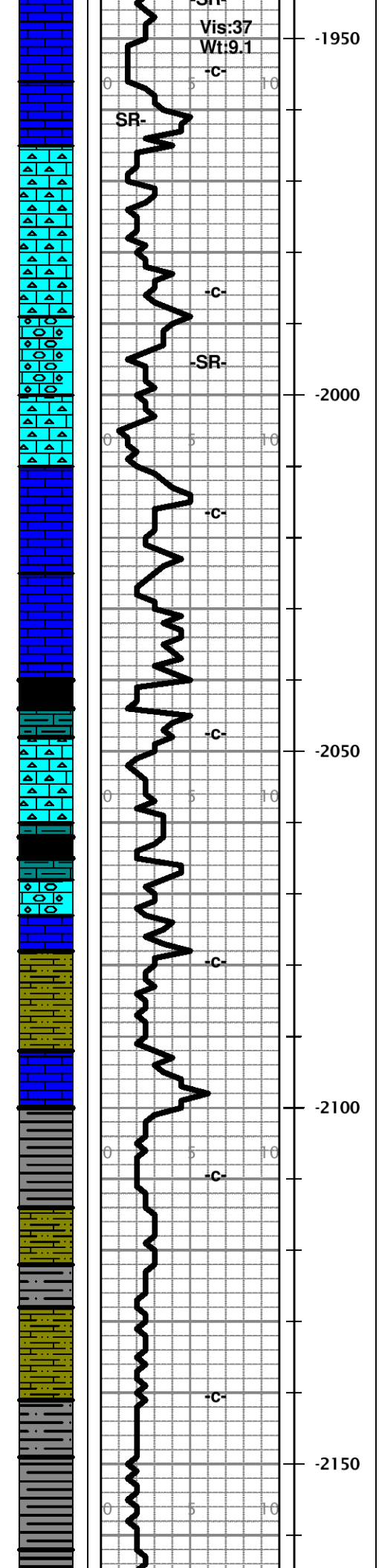
SH: dk gy, sm calc, Rr blk fis.

SH: gy, calc, Rr pyrtc.

Rr LS: gy-tn-cm, dn- ux & Wkst- Pkst.

1936' (-586)
KANSAS CITY
{Sl SFO)

{KANSAS CITY} LS: gy & wh, Pred dn- ux, Rr fnx, Mdst-Wkst, <5% cm-Tn grnlr & xln w/Pr- Fr STN- FLR, Sl SFO.



LS: cm-bf w/rich Tn OSTN (~80%), ux-fnxln, Rr prt Mdx-Crsx- 2Rx, Fr- Gd Poro: IX Poro, IGr Poro, ~90% subsat-sat brt FLR & ~80% sat & subsat STN w/Fr- Gd SFO- Gsy, Fr- Gd strmg mlky Cut, VStrng Odor.

{Fr- Gd SFO)

LS: prt chlky Wkst- Pkst w/Rr STN- FLR- SFO, sm blk SH & argil-dk gy LS, Sl Cherty, Sl- Fr SFO- Cds-Gs.

{Sl- Fr SFO)

LS: wh-cm-Tn-OSTN, ux- prt fnx- Mdx- 2Rx, VRr Mdx-Crsx, ~20% w/Fr- Gd Poro: pp- vug Poro, uIX Poro, IGr Poro, Vfn Mldc Poro, spt'd- sat Lt Tn STN- FLR, Fr- Gd strmg mlky Cut, Sl Cherty.

LS: tn-gy-cm mot- Pkst ool w/Pr- Fr lool Poro, VRr FLR-STN- SFO & Cut.
LS: Incrs in ool & fos Pkst, Pr- Fr Poro, AA, spt'd- subsat STN- FLR, Sl SFO & Cut, Sl Cherty.

{Sl SFO)

LS: cm-bf w/sm Tn OSTN, sm grnlr Pkst- Grst- ool & fos, lool- fos, pp- vug Poro, ~20% w/spt'd- subsat STN, FLR & Sl SFO, Sl- Fr Cut, Sl Odor.

{Sl SFO)

LS: Pred dn to chlky. (Abndt gy-blk SH)

LS: tn-gy-cm, dn ux-fnx, Pred VPr- NVP w/Pred NS.

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

LS: cm-tn, dn- ux, sm chlky.

LS: wh-cm-bf, prt chlky- subchlky, uxln & Wkst- Pkst w/Pred Pr visbl Poro, Trc FLR, Trc STN, Trc SFO.

{Trc SFO)

SH: VAbndt blk carb & subcarb.

LS: cm-tn-gy, sm mot Pkst, mx- fnxln, VRr prt Mdxln, VRr Fr- Gd IGr, IX & vug Poro, 5%-10% spt'd- sat FLR- STN, Sl- Fr SFO & Cut, Sl Odor. Trc oomldc w/Gd Poro- STN-FLR- SFO.

{Sl- Fr SFO)

LS: cm-bf, mx- fnxln, sm sucro, Sl dolomc, sm argil.

SILTS- SH: sm calc & micac.

LS: tn-gy-bn & cm, mot ool & fos Pkst, VPr- Pr Poro, NS.

2100'(-750)

{BASE KANSAS CITY} SH: blk subcarb- carb, sm pyrtc.

BASE KANSAS CITY

SH: dk gy-blk, sm micac, sm pyrtc.

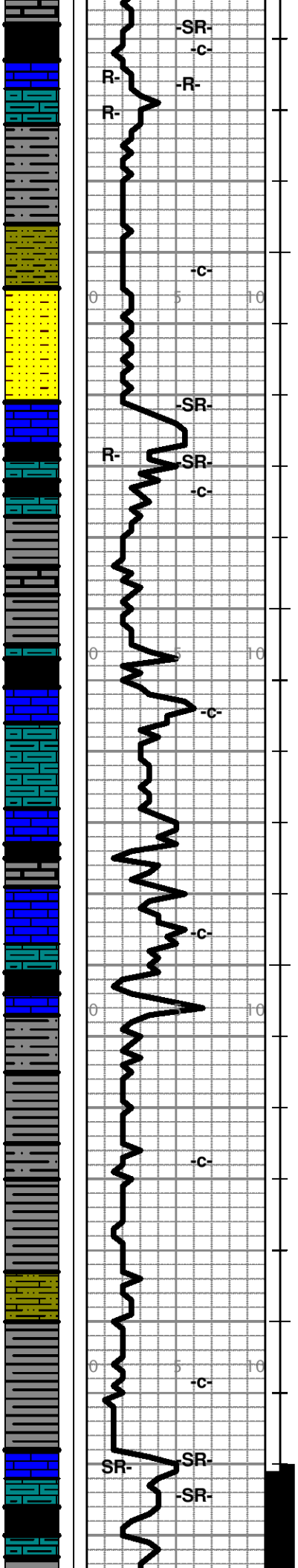
SILTS: gy, calc, micac.

SILTY SH: gy, micac, sm calc.

SILTY SH: gy, micac, sm calc.

SILTY SL: gy, micac, sm calc.

SH: dk gy-blk SH, micac



SH: dk gy-blk SH, micac.

SH: gy-bk fis, sm carb, sm lmy. & LS: tn-wh, dn- chlky.

{CHECKERBOARD} LS: tn-gy-wh, sm dn Mdst, Abndt mot Wkst- Pkst, Pred dn, sm silty- shly, argil, sm fos- ool, VPr- NVP, NS.

SH & SILTY SH: dk-lt gn-gy, sm micac & pyrtc.

SILTS: lt- md gy & gn-gy, micac, sm Vfnly sndy.

{HEPLER} SS- SILTY SD CLUST: gy-wh & gn-gy, Vfn Gr'd, Rr Vfn- fn Gr'd, Rnd'd- subanglr w/sm Pr- Fr IGr Poro, Sl- Fr SFO- Gsy Conds, VSl Cut.

{ALTAMONT} LS: tn-gy-wh, Pred dn, sm Mdst- Wkst, dn to chlky w/VPr- NVP.

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

LS: gy-tn-cm, Pred dn, sm chlky, sm argil, VPr- NVP.

SH: gy-blk, sm pyrtc.

SH: AA & blk Vcarb, sm pyrtc, sm calc- lmy.

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

LS: dk-lt gy & tn & wh, Pred dn AA & sm chlky, VPr- NVP.

SH: blk carb- Vcarb & dk gy.

sm calc & lmy SH.

LS: dk-lt gy-tn-bn, dn- ux Mdst w/ VPr- NVP, NS.

{CHEROKEE} SH: blk carb- Vcarb.

LS: gy, dn & grnlr Pkst, ux- fnx,

SILTY SH: lt to md gy, micac.

SH- SILTS: lt-md gy, micac.

SH- SILTS: lt-md gy, micac.

SH: dk gy-blk, sm carb, sm silty, sm pyrtc.

Abndt SILTS: dk gy-blk, micac, calc, Rr LS: gy-blk, dn & argil.

SH: blk subcarb- carb & pyrtc & dk gy, sm micac.

{ARDMORE} LS: tn-gy-bf, sm mot Wkst- Pkst, sm dn Mdst, VPr- NVP, NS, sm argil.

SH: blk carb- Vcarb & Vpyrtc.

2173' (-823)
CHECKERBOARD

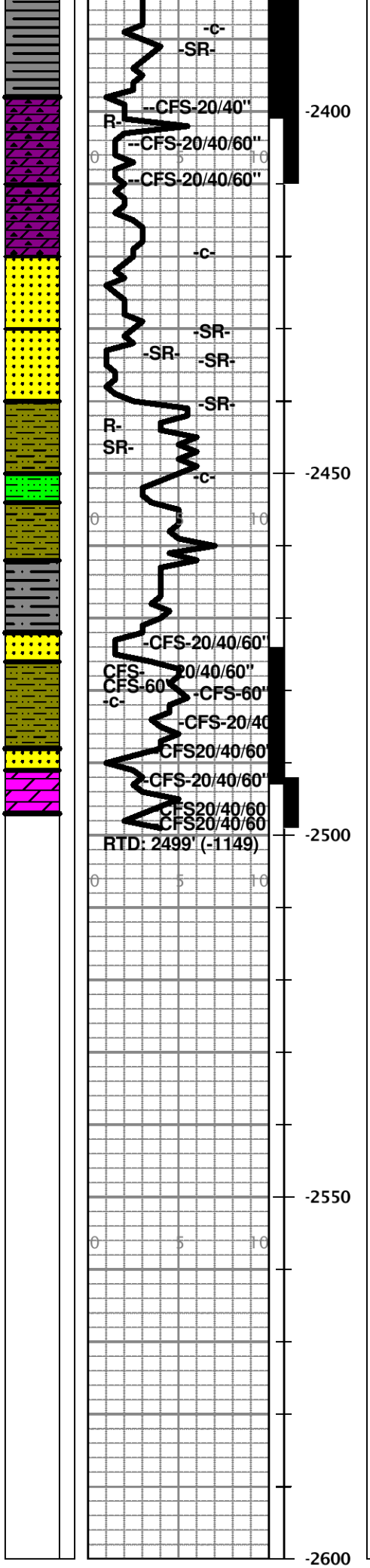
2205' (-855)
HEPLER SD
{Fr SFO)

2221' (-871)
ALTAMONT

2301' (-951)
CHEROKEE

2368' (-1018)
ARDMORE

DST#2 VIOLA
2371'-2401'
30-45-45-60
1st Op: 1/4" in 30", No BB
2nd Op: No blo, No BB
Rec: 10'M
IHP: 1115
IFP: 26-35
ISIP:731
FFP: 26-27



LS: dk-lt gy, Vargil, dn w/VPr- NVP.

SH: AA & gn-gy, VRr Tn, dn Lithogr Mdst.

{VIOLA} 2400' 40 min spl} Shrp incrs Viola (~50%) ~60% DOLO: bf-Tn, rich Tn-bn OSTN, ux- Vfnxln, u-sucro-sucro, ~30% w/Fr- Gd Poro: IX Poro, pp- vug Poro, sat STN, brt FLR, Fr- Gd SFO & strmg-milky cut; sm ux-vfnxln, prt dn w/Pr- Fr por, spt'd- subsat STN- FLR, VCherty: ~30%-40% CHERT: wh-gy-Tn-STN, opq, sm Tripolc & dolomc w/IGr Por, spt'd- subsat STN- FLR- SFO & Cut.
{SIMPSON} Abndt SD CLUST: bf-gy-wh, Vfn Gr'd- fn Gr'd, Rr fn- Md Gr'd, well cmt'd- fribl w/Pr- Fr Porp, Rr Gd Poro, subsat STN, Sl- Fr SFO-Gsy, sm pyrtc.

VAbndt SD CLUST: bf-tn, Lt OSTN, Vfn- Md Gr'd, Pred fn Gr'd, well rnd'd- sub rnd'd, Fribl w/Fr- Gd Poro, sat-subsat STN- FLR, Fr SFO- Gs, Odor.

SH- SILTS: aqua- turq-gn, Vfnly sndy, sm pyrtc, well cmt'd SD CLUST: Vfn- md Gr'd, well rnd'd- anglr, argil, shly w/VPr- NVP w/NS. sm sndy, NS.

SILTS- SH: lt-dk gy & gn-gy, Vfn- Md Gr'd AA & gn-gy micac SH.

SS- SD CLUST: Vfn- md Gr'd, rnd- anglr, well cmt- fribl, Fr- Gd SFO- FLR- STN, sm DOLO: tn-gy, ux- Mdx, Pr- Fr Poro, spt'd- subsat STN- SFO.
VAbndt F.SD: VAbndt turq-gn SH: smi wxy, sm silty & sndy turq-gn SH.
{BASAL SIMPSON SD} 2489' 40 min spl} VAbndt SD CLUST: (~70%) Rich Tn bn- sat OSTN, Vfn- Md Gr'd, Pred Vfn- fn Gr'd, Rnd'd- subanglr, well sort'd to mod well sort'd, well cmt'd to fribl, VGd SFO- Cds- Gsy & VGd Cut, VStrng Odor.
{ARBUCKLE} 2493' 40 min spl} Incrs DOLO: bf-cm, ux-Vfnxln, Vfnly grnlr, Sl pyrtc, VPr- Pr visbl Poro, sm spt'd FLR & Lt STN & Sl SFO, Frly Strng Odor; sm mx- fnxln-sucro w/spt'd vug Poro w/Fr visbl Poro: IX & vug Poro w/spt'd- subsat STN & FLR & Sl SFO & Cut. (~10% Sd AA), Frly Strng Odor.

2398' (-1048)
VIOLA
{Fr- Gd SFO)

2420' (-1070)
SIMPSON
{Sl- Fr SFO)

{Fr SFO)

{Sl SFO)

2488' (-1138)
B.SIMPSON SD
{VGd SFO}
2491' (-1141)
ARBUCKLE
{Gd SFO)

Mud@ 2478:
wt 8.9,Vis57
PV 19,YP19
WL 9.6,pH 10.8
LCM 1.5,Cl1200

VESS OIL CORP
CHESNEY A 241
1000'FNL&2610'FWL
Sec 21-25S-05E
BUTLER CO.,KS
API#15-015-24087

FSIP: 671
FHP: 1112
BHT: 108F

DST #3 VIOLA
2370'-2410'
30-45-45-60
1st Op: BOB in 2"
2nd Op: BOB in 3"
Rec: 1050'TF:
520' MCW(85%W)
530'DM
Tool spl:
7%M,93%W
IHP: 1152
IFP: 74-295
ISIP: 752
FFP: 323-481
FSIP: 763
FHP: 1107
BHT:107F

DST #4 Lwr
SIMP/ARB
2474'-2493'
30-45-45-60
1st Op: Wk blo, bldg to strng blo, BOB in 5', No BB
2nd Op: Wk blo, bldg to strng blo, BOB in 5', No BB
Rec: 955' TF:
10' FO
945' OCW
Tool spl: OMCW
1%O,95%W,4%M
IHP: 1184
IFP: 35-211
ISIP: 958
FFP: 224-437
FSIP: 960
FHP: 1160
BHT 110F

DST #5
ARBUCKLE
2492'-2499'
30-45-45-60
1st Op: BOB 15", No BB
2nd Op: BOB 20", No BB
Rec: 2165' TF:
1855' OMCW
(2%O,95%W,3%M)
125'HMCWtrcO
(61%W,39%M)
185'OHWCM
(1%O,25%W, 74%M)
Tool Spl:
5%O,82%W,13%M
IHP:1187
IFP:426
ISIP: 964
FFP: 899
FSIP: 973
FHP: 1169
BHT: 108F

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Vess Oil Corp.

1700 Waterfront Parkway
Building 500
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63585 **DST#: 1**

Test Start: 2017.08.13 @ 01:12:00

GENERAL INFORMATION:

Formation: **Douglas Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:09:40
Time Test Ended: 08:03:20

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

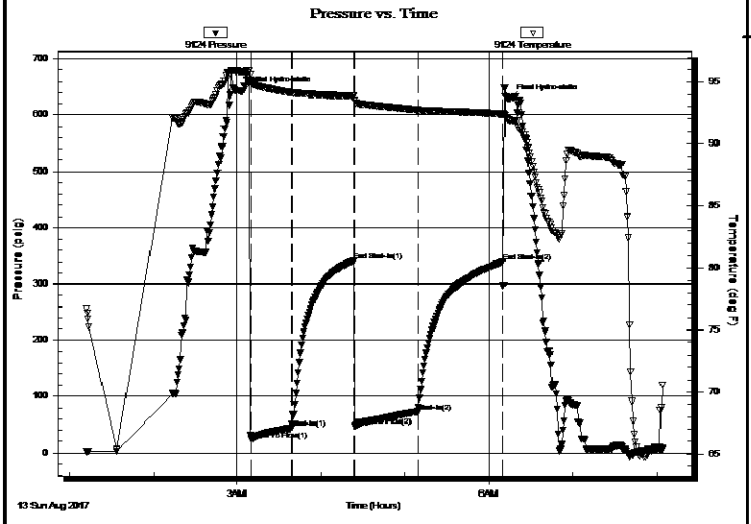
Interval: 1370.00 ft (KB) To 1459.00 ft (KB) (TVD)
Total Depth: 1459.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 9124 **Inside**
Press@RunDepth: 73.13 psig @ 1371.00 ft (KB)
Start Date: 2017.08.13 End Date: 2017.08.13
Start Time: 01:12:05 End Time: 08:03:20

Capacity: 8000.00 psig
Last Calib.: 2017.08.13
Time On Btm: 2017.08.13 @ 03:03:50
Time Off Btm: 2017.08.13 @ 06:14:39

TEST COMMENT: IF - Weak blow building to strong blow 90 seconds into initial flow period.
FF - Weak blow building to strong blow 1 minute into final flow period.
FS - Surface blow back during final shut-in period.
Tool Sample - Oil cut mud 4% O & 96% M.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	642.59	95.82	Initial Hydro-static
6	23.42	95.15	Open To Flow (1)
35	43.23	94.12	Shut-In(1)
80	341.03	93.85	End Shut-In(1)
81	47.41	93.47	Open To Flow (2)
125	73.13	92.72	Shut-In(2)
186	339.16	92.39	End Shut-In(2)
191	629.94	91.90	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Slight oil spotted mud trace O & 100% M	0.64
0.00	115: Gas in pipe 100% G	0.00

Gas Rates

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

0.00	Tool Sample Oil cut mud 4% O & 96% M	0.00

DRILL STEM TEST REPORT

Vess Oil Corp.

1700 Waterfront Parkway
Building 5oo
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63585 **DST#: 1**

Test Start: 2017.08.13 @ 01:12:00

GENERAL INFORMATION:

Formation: **Douglas Sand**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:09:40
Time Test Ended: 08:03:20

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

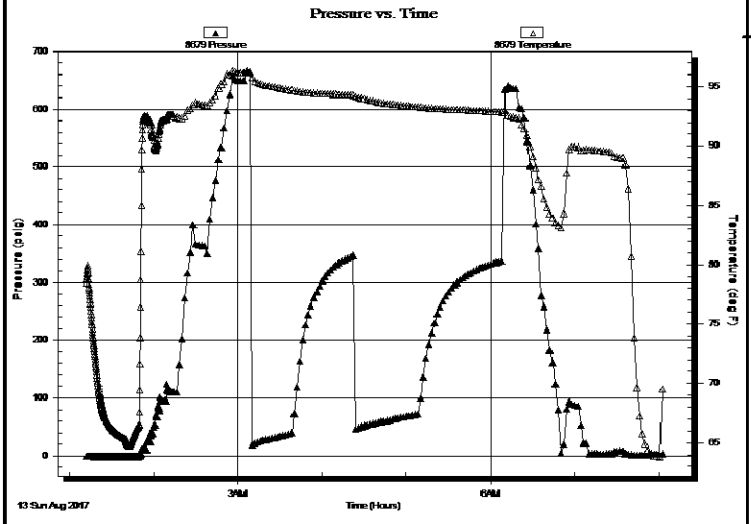
Interval: 1370.00 ft (KB) To 1459.00 ft (KB) (TVD)
Total Depth: 1459.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8679 **Outside**
Press@RunDepth: psig @ 1371.00 ft (KB)
Start Date: 2017.08.13 End Date: 2017.08.13
Start Time: 01:12:01 End Time: 08:03:20

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 90 seconds into initial flow period.
FF - Weak blow building to strong blow 1 minute into final flow period.
FS - Surface blow back during final shut-in period.
Tool Sample - Oil cut mud 4% O & 96% M.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
130.00	Slight oil spotted mud trace O & 100% M	0.64
0.00	115' Gas in pipe 100% G	0.00

Gas Rates

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

0.00	Tool Sample Oil cut mud 4% O & 96% M	0.00

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Vess Oil Corp.

1700 Waterfront Parkway
Building 5oo
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63585 **DST#: 1**

Test Start: 2017.08.13 @ 01:12:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	54.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.78 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1320.00 ppm				
Filter Cake:	inches				

Recovery Information

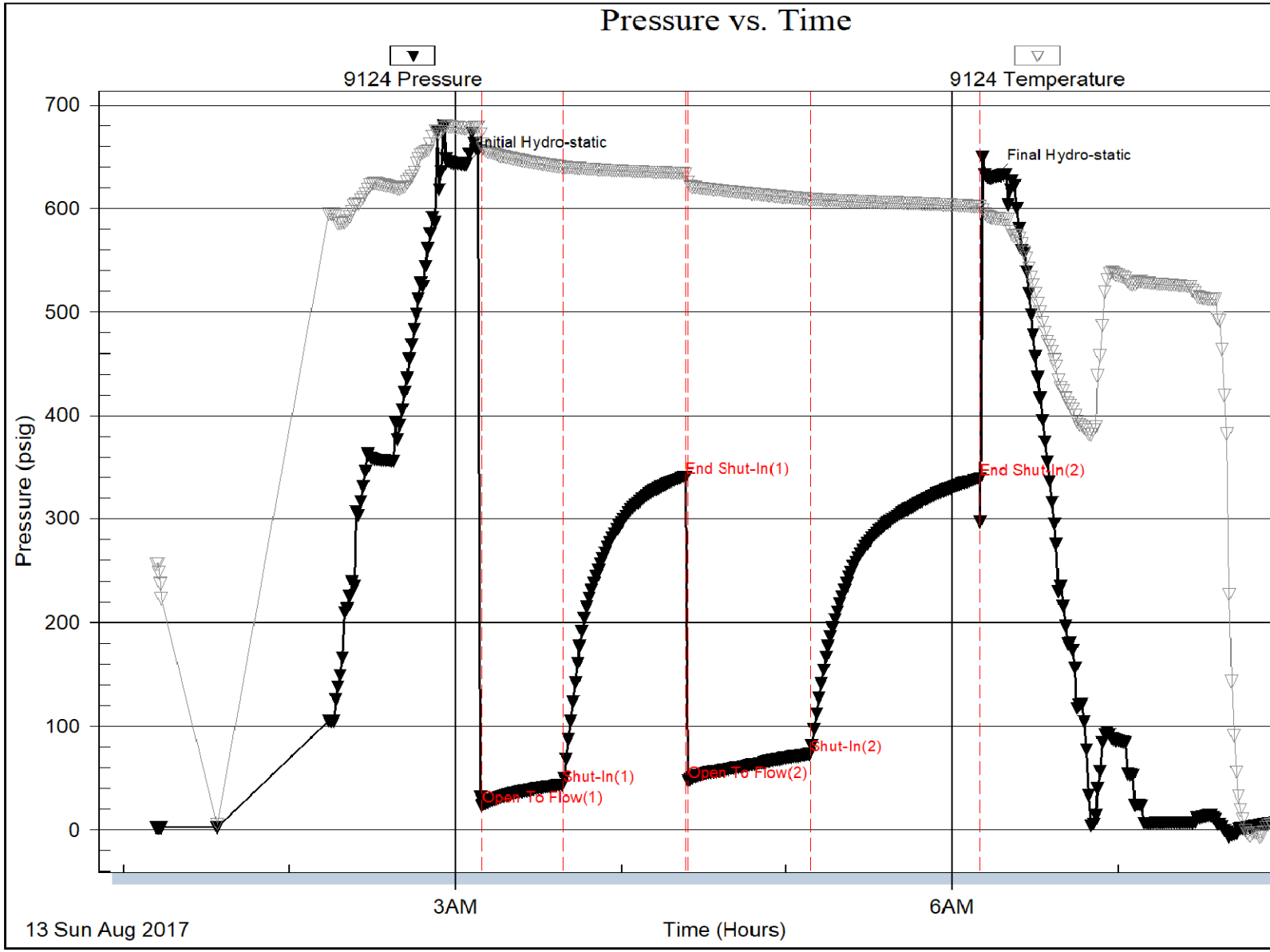
Recovery Table

Length ft	Description	Volume bbl
130.00	Slight oil spotted mud trace O & 100% M	0.639
0.00	115; Gas in pipe 100% G	0.000
0.00	Tool Sample Oil cut mud 4% O & 96% M	0.000

Total Length: 130.00 ft Total Volume: 0.639 bbl

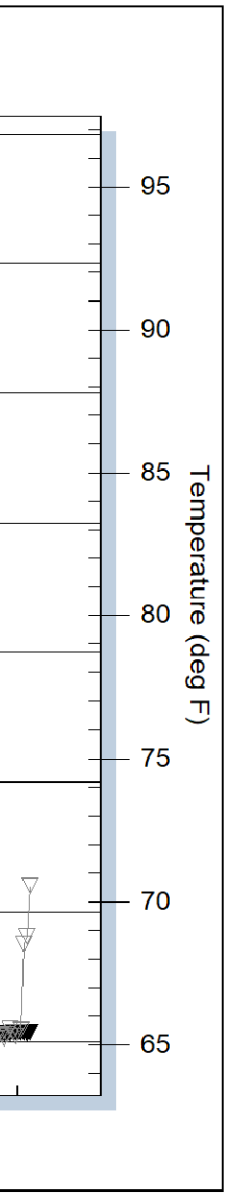
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

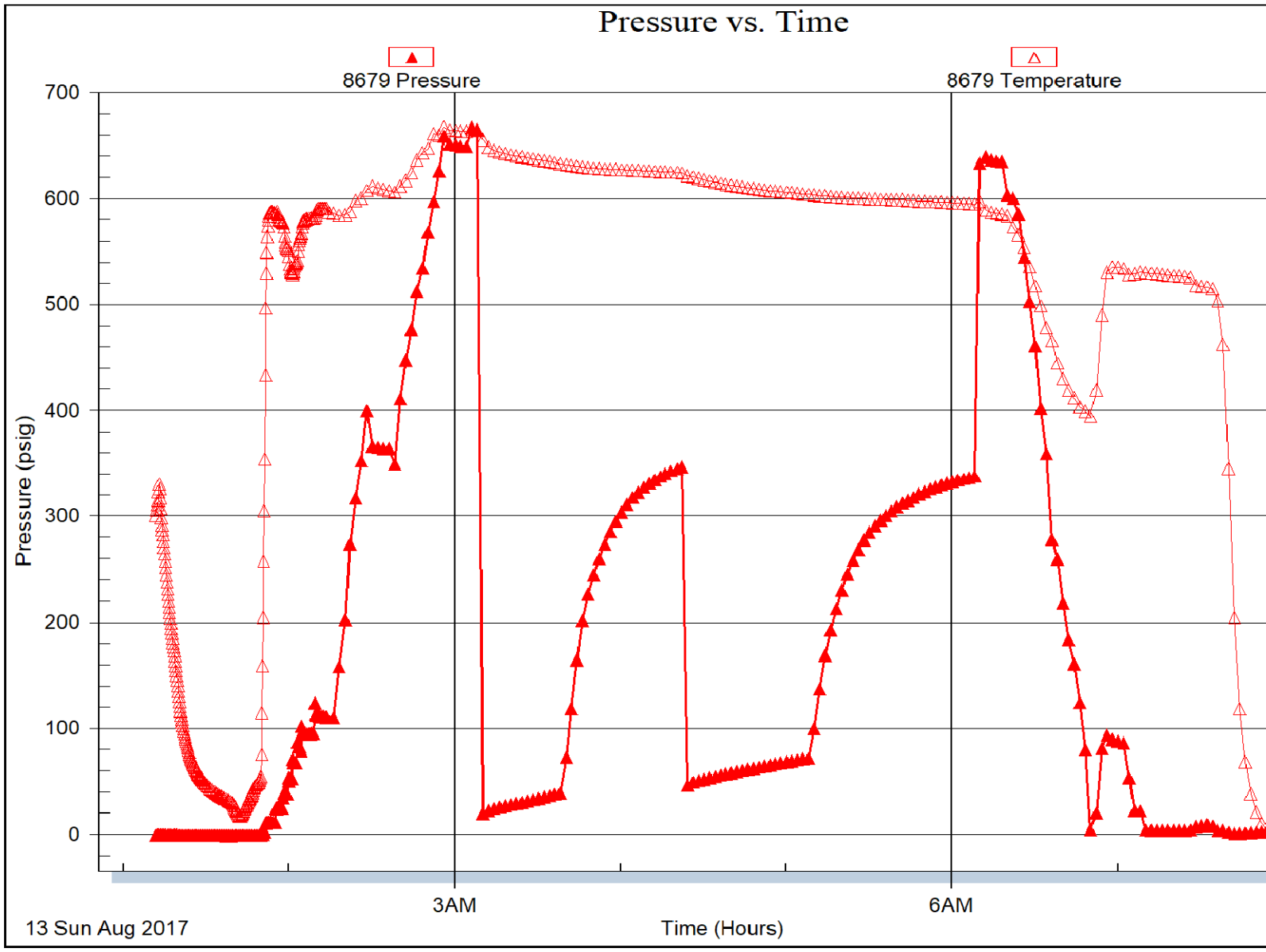
Serial #: 9124 **Inside** Vess Oil Corp. Chesney A #241 DST Test Nu



Trilobite Testing, Inc Ref. No: 63585 Printed: 2017.08.13 @ 09:42:33

Trilobite Testing, Inc Ref. No: 63585 Printed: 2017.08


95
90
85
80
75
70
65
Temperature (deg F)


Pressure vs. Time
8679 Pressure
8679 Temperature
700
600
500
400
300
200
100
0
Pressure (psig)
3AM
6AM
13 Sun Aug 2017
Time (Hours)

DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Vess Oil Corp.

1700 Waterfront Parkway
Building 5oo
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63586 **DST#: 2**

Test Start: 2017.08.15 @ 14:17:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:16:30
Time Test Ended: 21:39:30

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

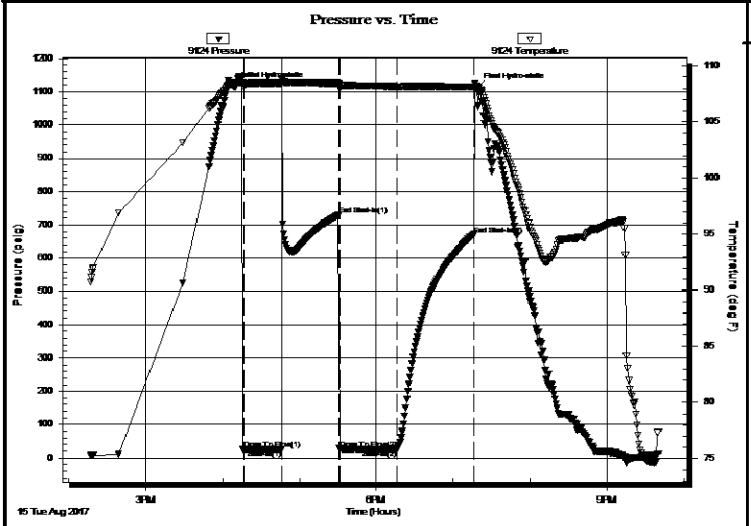
Interval: 2371.00 ft (KB) To 2401.00 ft (KB) (TVD)
Total Depth: 2401.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 9124 **Inside**
Press@RunDepth: 26.52 psig @ 2372.00 ft (KB)
Start Date: 2017.08.15 End Date: 2017.08.15
Start Time: 14:17:05 End Time: 21:39:29

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2017.08.15 @ 16:09:40
Time Off Btm: 2017.08.15 @ 19:18:09

TEST COMMENT: IF - Weak blow building to 1/4 inch initial flow period.
FF - No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1115.45	108.38	Initial Hydro-static
7	25.86	108.32	Open To Flow (1)
37	25.16	108.42	Shut-In(1)
81	730.66	108.43	End Shut-In(1)
82	26.35	108.28	Open To Flow (2)
127	26.52	108.16	Shut-In(2)
187	671.24	108.11	End Shut-In(2)
189	1112.47	108.08	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling mud 100% M	0.05

Gas Rates

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

DRILL STEM TEST REPORT

Vess Oil Corp.

1700 Waterfront Parkway
Building 5oo
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63586 **DST#: 2**

Test Start: 2017.08.15 @ 14:17:00

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 16:16:30
Time Test Ended: 21:39:30

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

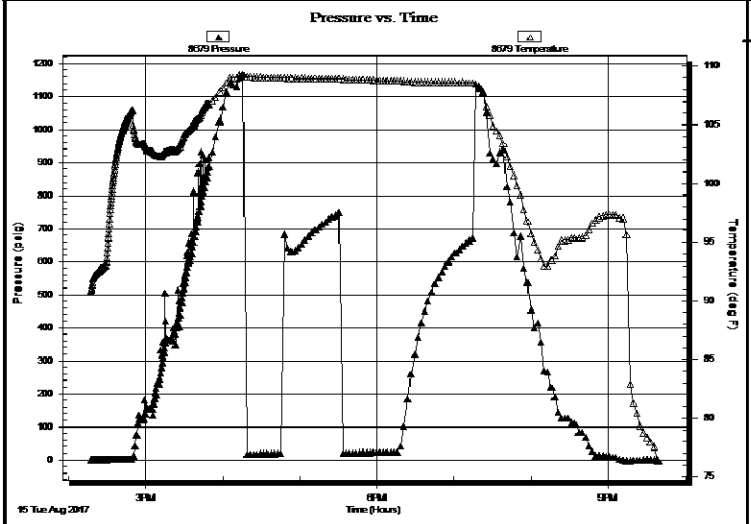
Interval: 2371.00 ft (KB) To 2401.00 ft (KB) (TVD)
Total Depth: 2401.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8679 **Outside**
Press@RunDepth: psig @ 2372.00 ft (KB)
Start Date: 2017.08.15 End Date: 2017.08.15
Start Time: 14:17:01 End Time: 21:39:30

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to 1/4 inch initial flow period.
FF - No blow.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Drilling mud 100% M	0.05

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

Vess Oil Corp.

1700 Waterfront Parkway
Building 5oo
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63586 **DST#: 2**

Test Start: 2017.08.15 @ 14:17:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.19 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	950.00 ppm				
Filter Cake:	inches				

Recovery Information

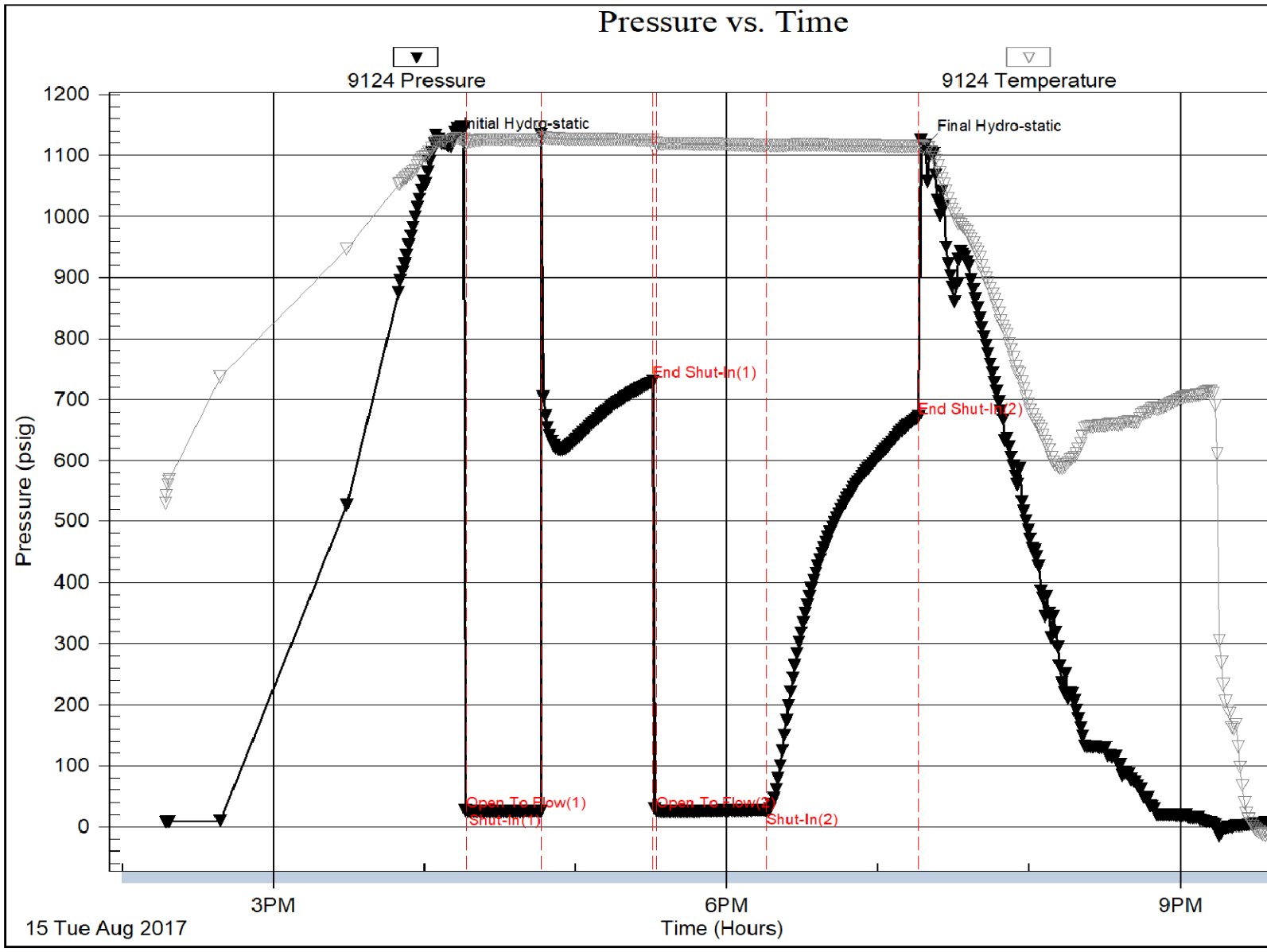
Recovery Table

Length ft	Description	Volume bbl
10.00	Drilling mud 100% M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

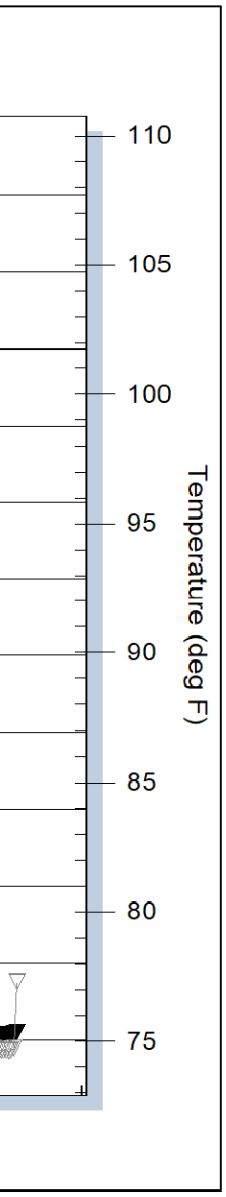
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

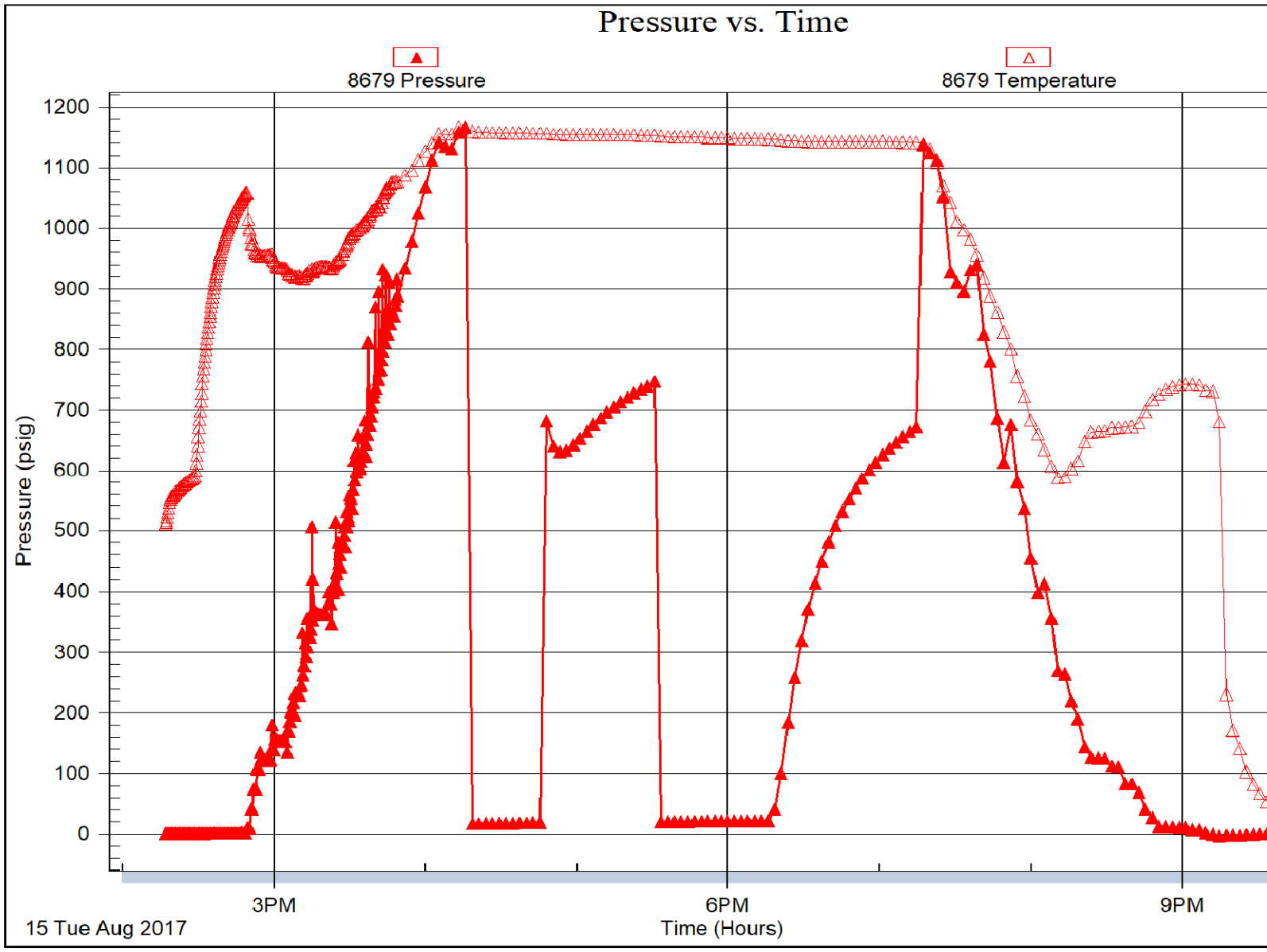
Serial #: 9124 **Inside** Vess Oil Corp. Chesney A #241 DST Test Nu

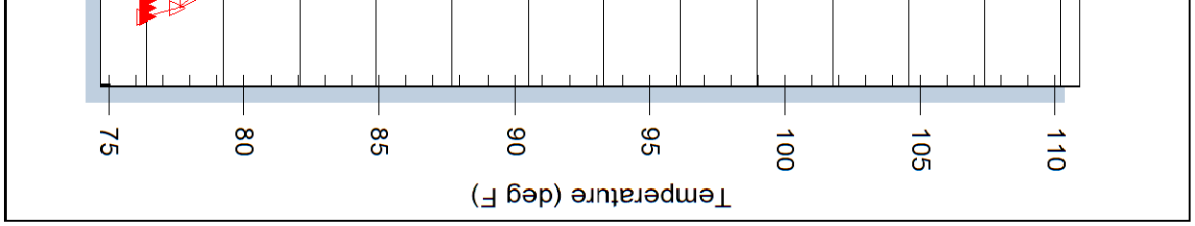


Trilobite Testing, Inc Ref. No: 63586 Printed: 2017.08

Printed: 2017.08.15 @ 22:39:33 Ref. No: 63586 Trilobite Testing, Inc


110
105
100
95
90
85
80
75
Temperature (deg F)


Pressure vs. Time
8679 Pressure
8679 Temperature
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
Pressure (psig)
3PM
6PM
9PM
Time (Hours)
15 Tue Aug 2017



DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Vess Oil Corp.

1700 Waterfront Parkway
Building 5oo
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63587 **DST#: 3**

Test Start: 2017.08.16 @ 04:59:05

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:00:00
Time Test Ended: 12:33:09

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

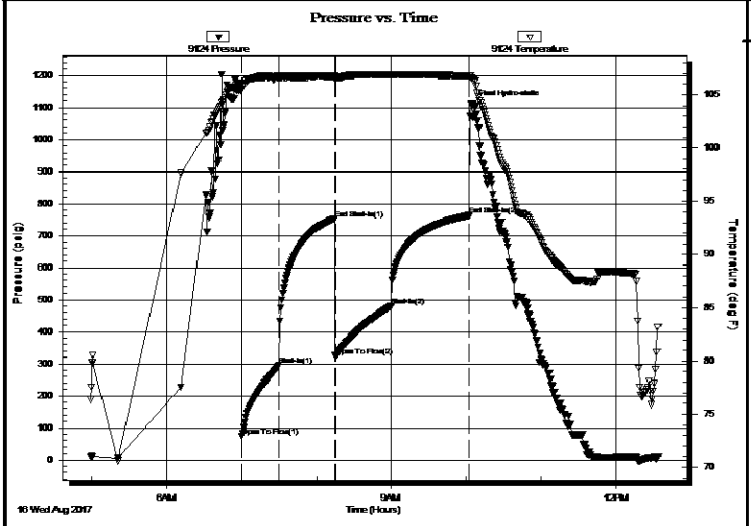
Interval: 2370.00 ft (KB) To 2410.00 ft (KB) (TVD)
Total Depth: 2410.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 9124 **Inside**
Press@RunDepth: 480.68 psig @ 2371.00 ft (KB)
Start Date: 2017.08.16 End Date: 2017.08.16
Start Time: 04:59:05 End Time: 12:33:10

Capacity: 8000.00 psig
Last Calib.: 2017.08.16
Time On Btm: 2017.08.16 @ 06:59:00
Time Off Btm: 2017.08.16 @ 10:04:50

TEST COMMENT: IF - Weak blow building to strong blow 2 minutes into initial flow period.
FF - Weak blow building to strong blow 3 minutes into final flow period.
TS - Mud cut water 7% M & 93% W.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1151.69	106.09	Initial Hydro-static
1	74.48	105.53	Open To Flow (1)
31	295.35	106.72	Shut-In(1)
76	752.25	106.73	End Shut-In(1)
77	322.86	106.62	Open To Flow (2)
121	480.68	106.86	Shut-In(2)
184	763.02	106.78	End Shut-In(2)
186	1107.04	106.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
520.00	Mud cut water 15% M & 85% W	4.24
530.00	Drilling mud 100% M	5.74

Gas Rates

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

0.00	Tool Sample - mud cut w ater 7%M & 93%0.00	

DRILL STEM TEST REPORT

Vess Oil Corp.

1700 Waterfront Parkw ay
Building 5oo
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63587 **DST#: 3**

Test Start: 2017.08.16 @ 04:59:05

GENERAL INFORMATION:

Formation: **Viola**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 07:00:00
Time Test Ended: 12:33:09

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

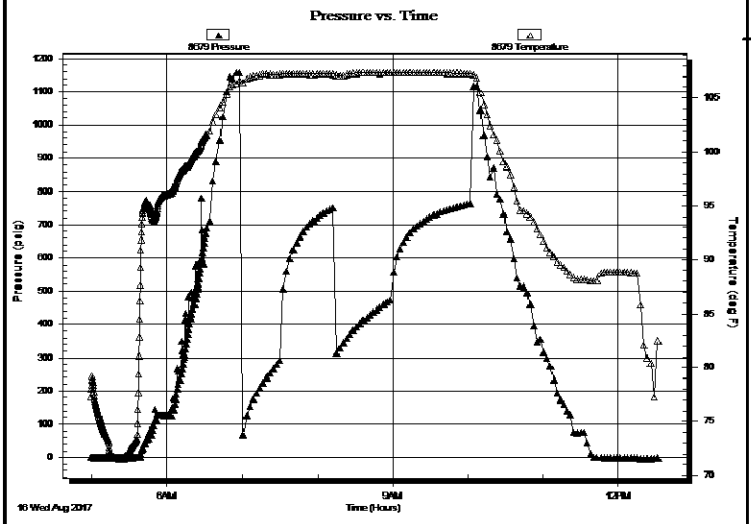
Interval: 2370.00 ft (KB) To 2410.00 ft (KB) (TVD)
Total Depth: 2410.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8679 **Outside**
Press@RunDepth: psig @ 2371.00 ft (KB)
Start Date: 2017.08.16 End Date: 2017.08.16
Start Time: 04:59:01 End Time: 12:33:20

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 2 minutes into initial flow period.
FF - Weak blow building to strong blow 3 minutes into final flow period.
TS - Mud cut w ater 7% M & 93% W.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
520.00	Mud cut w ater 15% M & 85% W	4.24
530.00	Drilling mud 100% M	5.74

Gas Rates

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

0.00	Tool Sample - mud cut w ater 7%M & 93%0.00	

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

FLUID SUMMARY

Vess Oil Corp.

1700 Waterfront Parkw ay
Building 5oo
Wichit, KS 67206

ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63587 **DST#: 3**

Test Start: 2017.08.16 @ 04:59:05

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	18000 ppm
Viscosity:	53.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.48 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1200.00 ppm				
Filter Cake:	inches				

Recovery Information

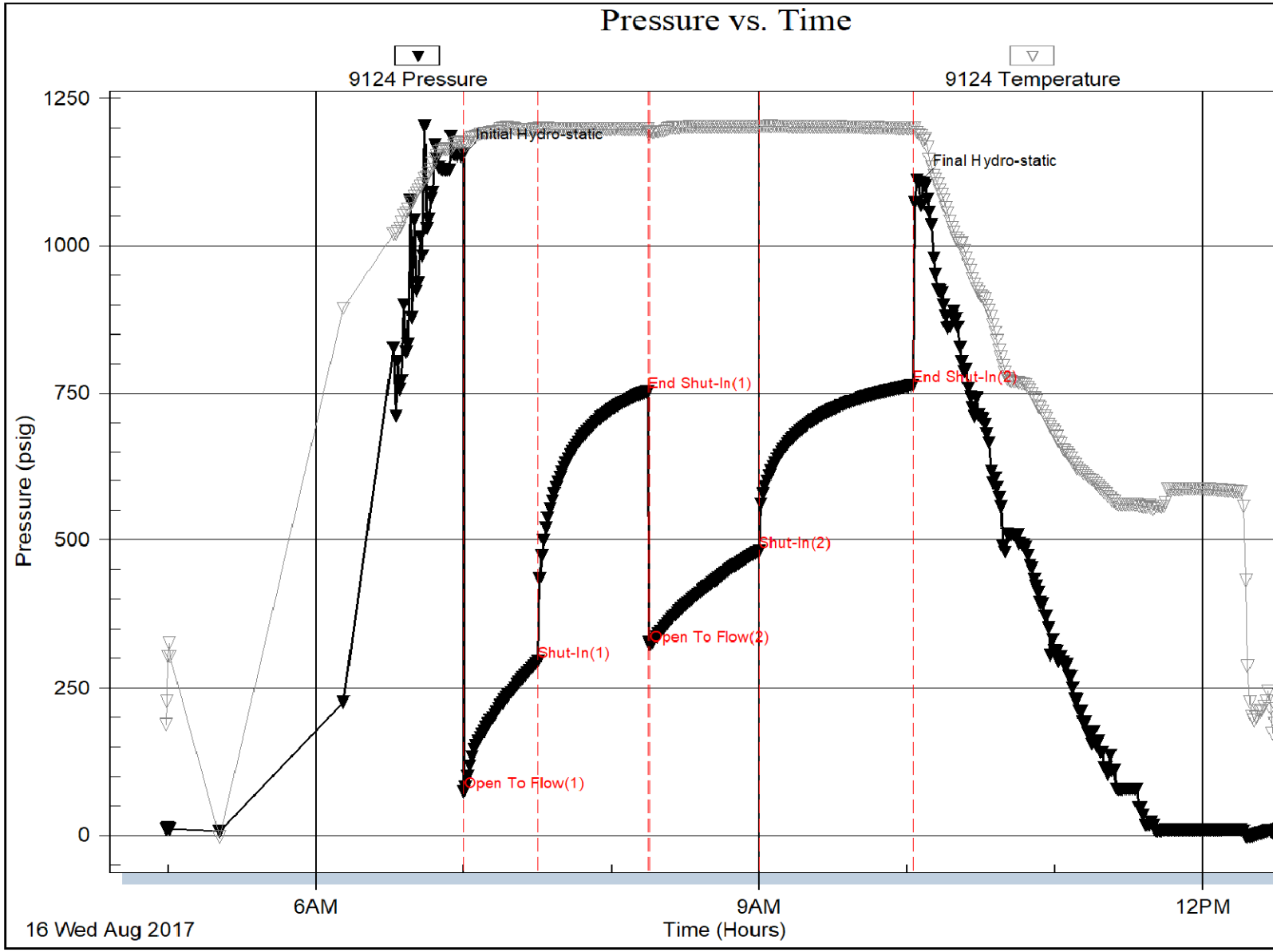
Recovery Table

Length ft	Description	Volume bbl
520.00	Mud cut w ater 15% M & 85% W	4.238
530.00	Drilling mud 100% M	5.744
0.00	Tool Sample - mud cut w ater 7%M & 93%W	0.000

Total Length: 1050.00 ft Total Volume: 9.982 bbl

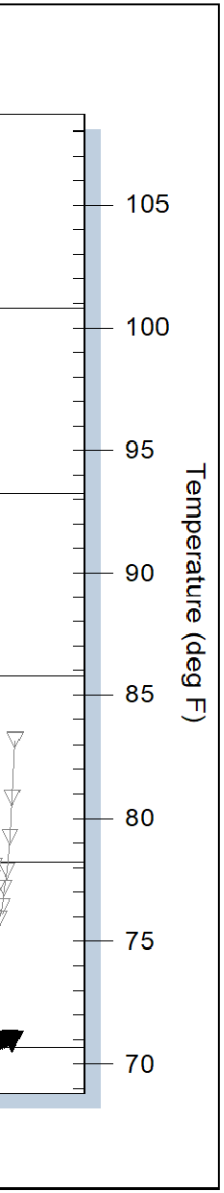
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

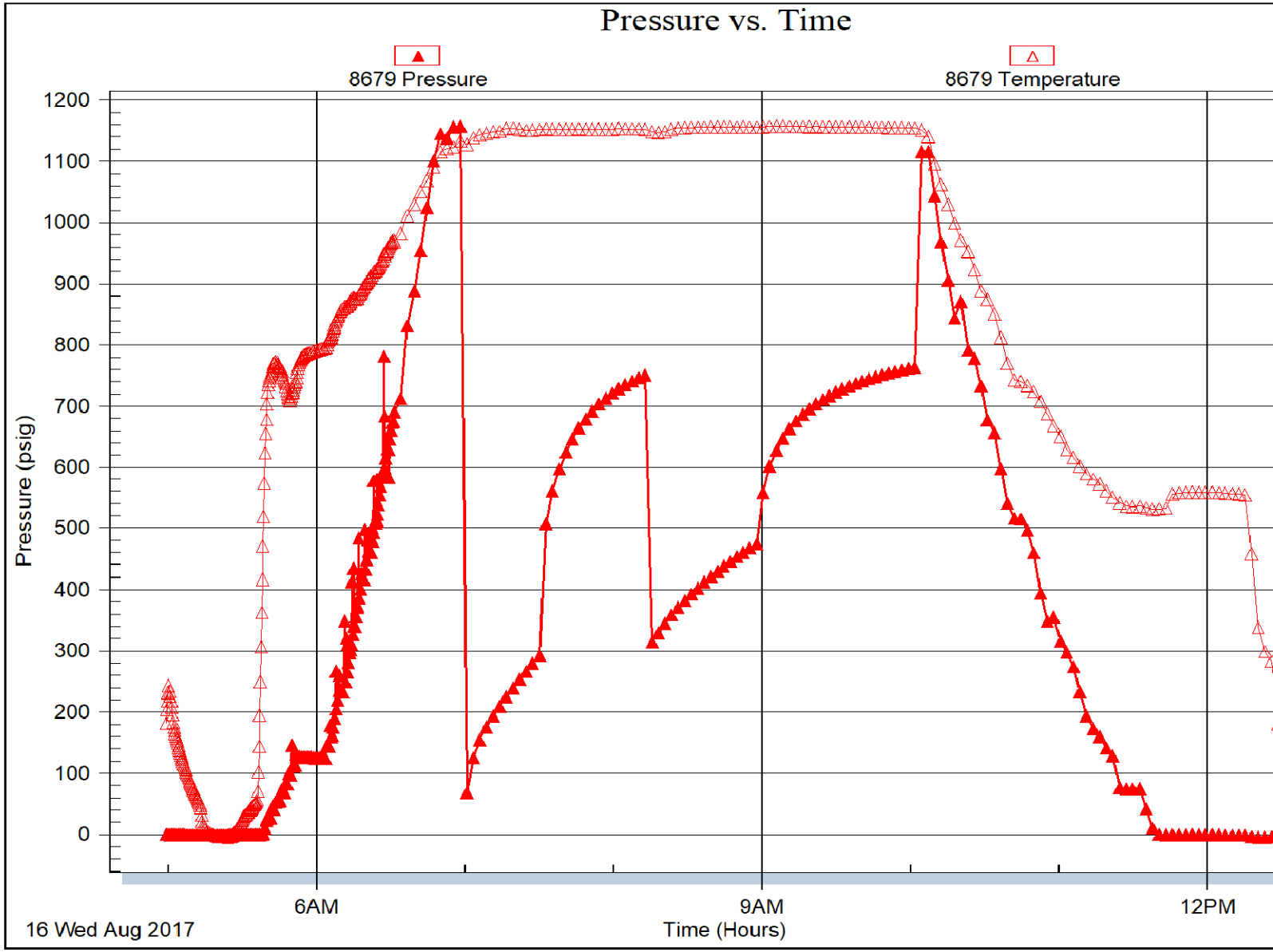
Serial #: 9124 **Inside** Vess Oil Corp. Chesney A #241 DST Test Nu

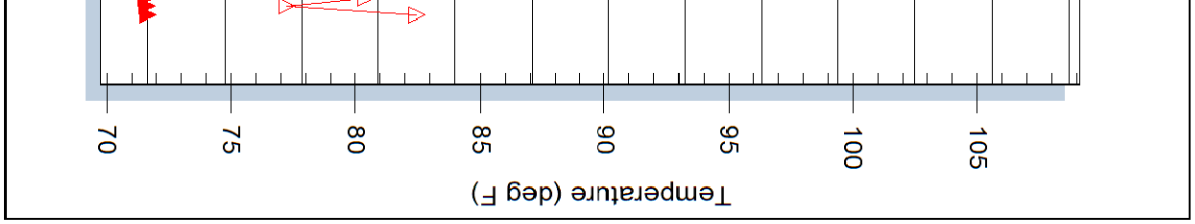


Trilobite Testing, Inc Ref. No: 63587 Printed: 2017.08

Printed: 2017.08.16 @ 13:22:29 Ref. No: 63587 Trilobite Testing, Inc


105
100
95
90
85
80
75
70
Temperature (deg F)


Pressure vs. Time
8679 Pressure
8679 Temperature
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
Pressure (psig)
6AM
9AM
12PM
16 Wed Aug 2017
Time (Hours)



DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Vess Oil Corp.

1700 Waterfront Parkway
Building 5oo
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63588 **DST#: 4**

Test Start: 2017.08.17 @ 08:58:00

GENERAL INFORMATION:

Formation: **Bsl Simpson Sand & A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:01:40
Time Test Ended: 17:31:30

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

Interval: 2474.00 ft (KB) To 2493.00 ft (KB) (TVD)
Total Depth: 2493.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

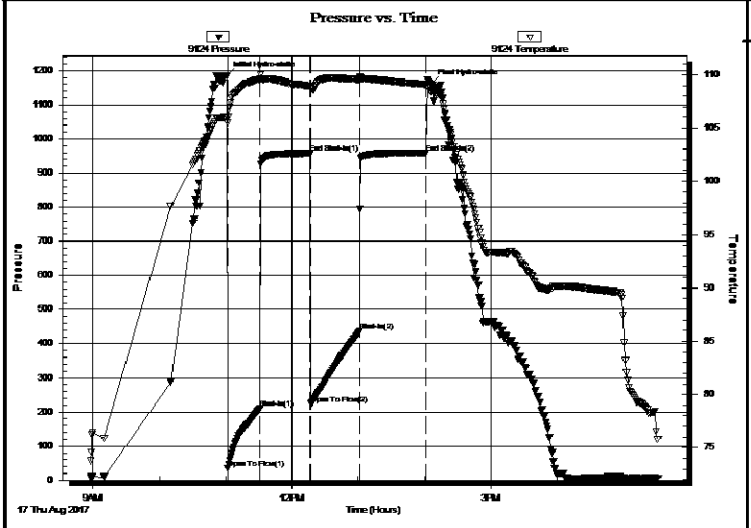
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 9124 **Inside**

Press@RunDepth: 436.54 psig @ 2475.00 ft (KB)
Start Date: 2017.08.17 End Date: 2017.08.17
Start Time: 08:58:05 End Time: 17:31:30

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm: 2017.08.17 @ 11:00:50
Time Off Btm: 2017.08.17 @ 14:05:20

TEST COMMENT: IF - Weak blow building to strong blow 5 minutes into initil flow period.
FF - Weak blow building to strong blow 5 minutes into final flow period.
TS - Oil and mud cut water 1% oil, 95% water & 4% mud.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1183.65	106.00	Initial Hydro-static
1	35.16	105.50	Open To Flow (1)
31	210.80	109.56	Shut-In(1)
76	957.86	108.92	End Shut-In(1)
77	223.68	108.69	Open To Flow (2)
121	436.54	109.55	Shut-In(2)
181	959.69	109.09	End Shut-In(2)
185	1160.50	108.41	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
575.00	Tr Oil & mud cut water tr O 95%W & 5%M	4.83
370.00	O & heavy M cut W 5%O 53%W & 42%	4.01

Gas Rates

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

10.00	Clean oil 100% O	0.11
0.00	TS O & M cut W 1%O 95%W & 4%M	0.00

DRILL STEM TEST REPORT

Vess Oil Corp.

1700 Waterfront Parkway
Building 5oo
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63588 **DST#: 4**

Test Start: 2017.08.17 @ 08:58:00

GENERAL INFORMATION:

Formation: **Bsl Simpson Sand & A**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 11:01:40
Time Test Ended: 17:31:30

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

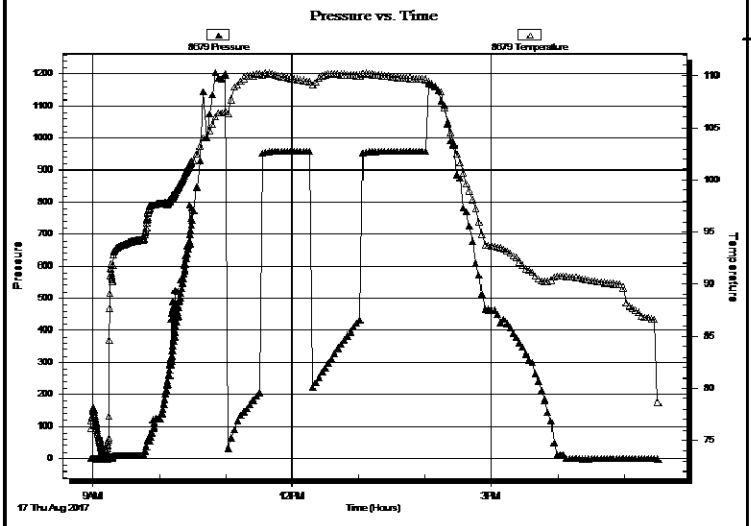
Interval: 2474.00 ft (KB) To 2493.00 ft (KB) (TVD)
Total Depth: 2493.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8679 **Outside**
Press@RunDepth: psig @ 2475.00 ft (KB)
Start Date: 2017.08.17 End Date: 2017.08.17
Start Time: 08:58:01 End Time: 17:31:40

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 5 minutes into initil flow period.
FF - Weak blow building to strong blow 5 minutes into final flow period.
TS - Oil and mud cut water 1% oil, 95% water & 4% mud.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
575.00	Tr Oil & mud cut water tr O 95%W & 5%M	4.83
370.00	O & heavy M cut W 5%O 53%W & 42%	4.01

Gas Rates

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

10.00	Clean oil 100% O	0.11
0.00	TS O & M cut W 1%O 95%W & 4%M	0.00

DRILL STEM TEST REPORT

FLUID SUMMARY

Vess Oil Corp.

1700 Waterfront Parkway
Building 5oo
Wichit, KS 67206

ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63588 **DST#: 4**

Test Start: 2017.08.17 @ 08:58:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	36.6 deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	26000 ppm
Viscosity:	57.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	8.29 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1200.00 ppm				
Filter Cake:	inches				

Recovery Information

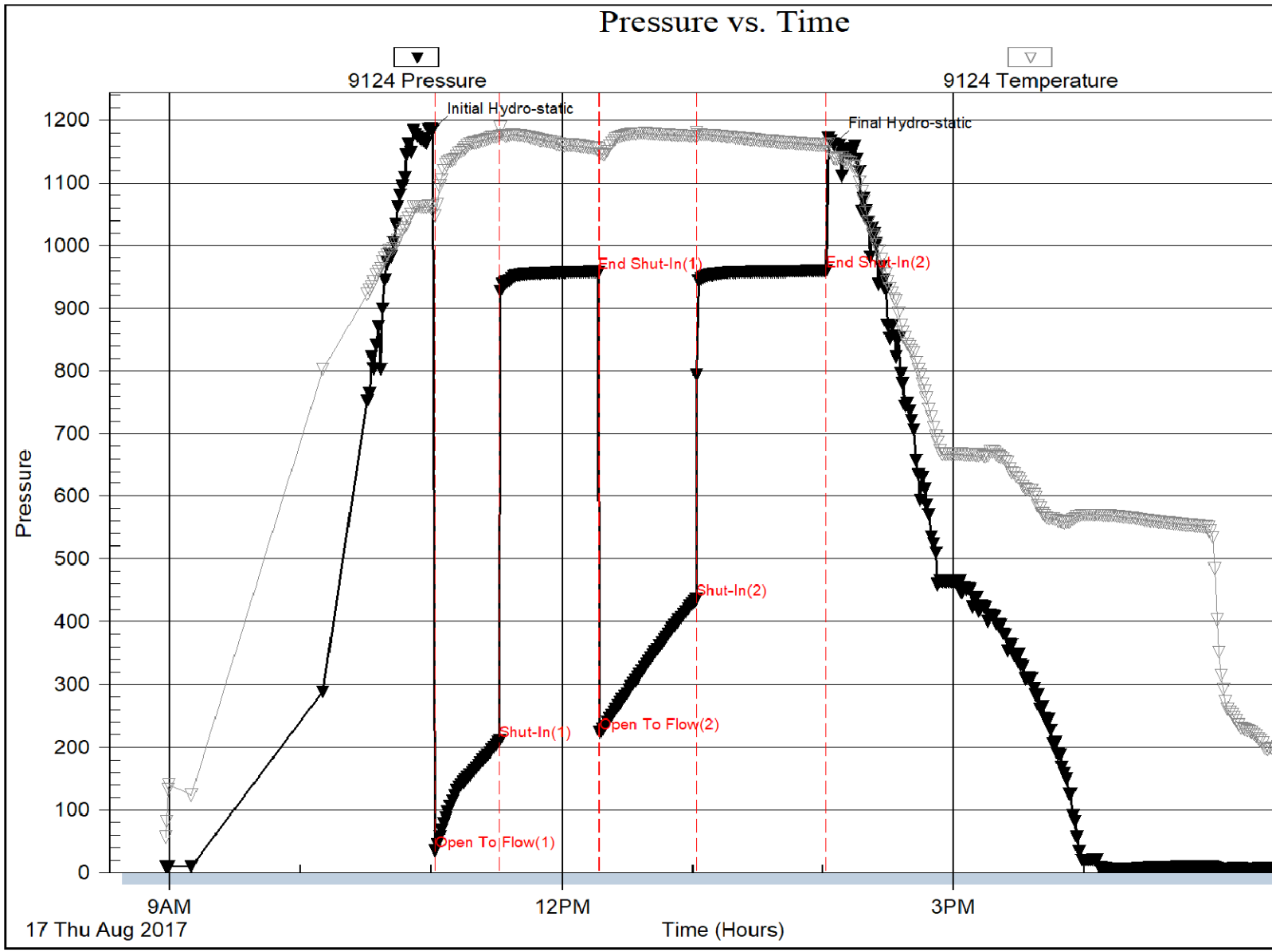
Recovery Table

Length ft	Description	Volume bbl
575.00	Tr Oil & mud cut water tr O 95%W & 5%M	4.834
370.00	O & heavy M cut W 5%O 53%W & 42%	4.010
10.00	Clean oil 100% O	0.108
0.00	TS O & M cut W 1%O 95%W & 4%M	0.000

Total Length: 955.00 ft Total Volume: 8.952 bbl

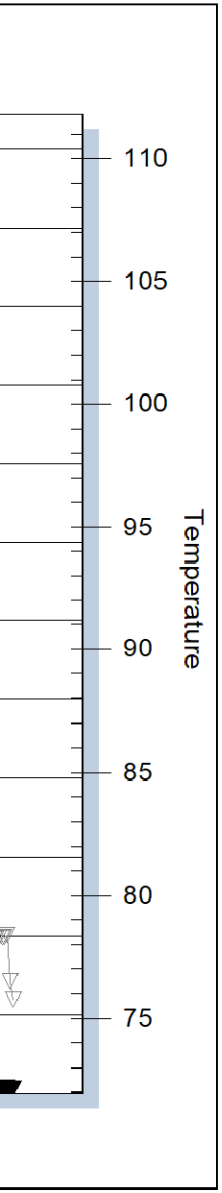
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

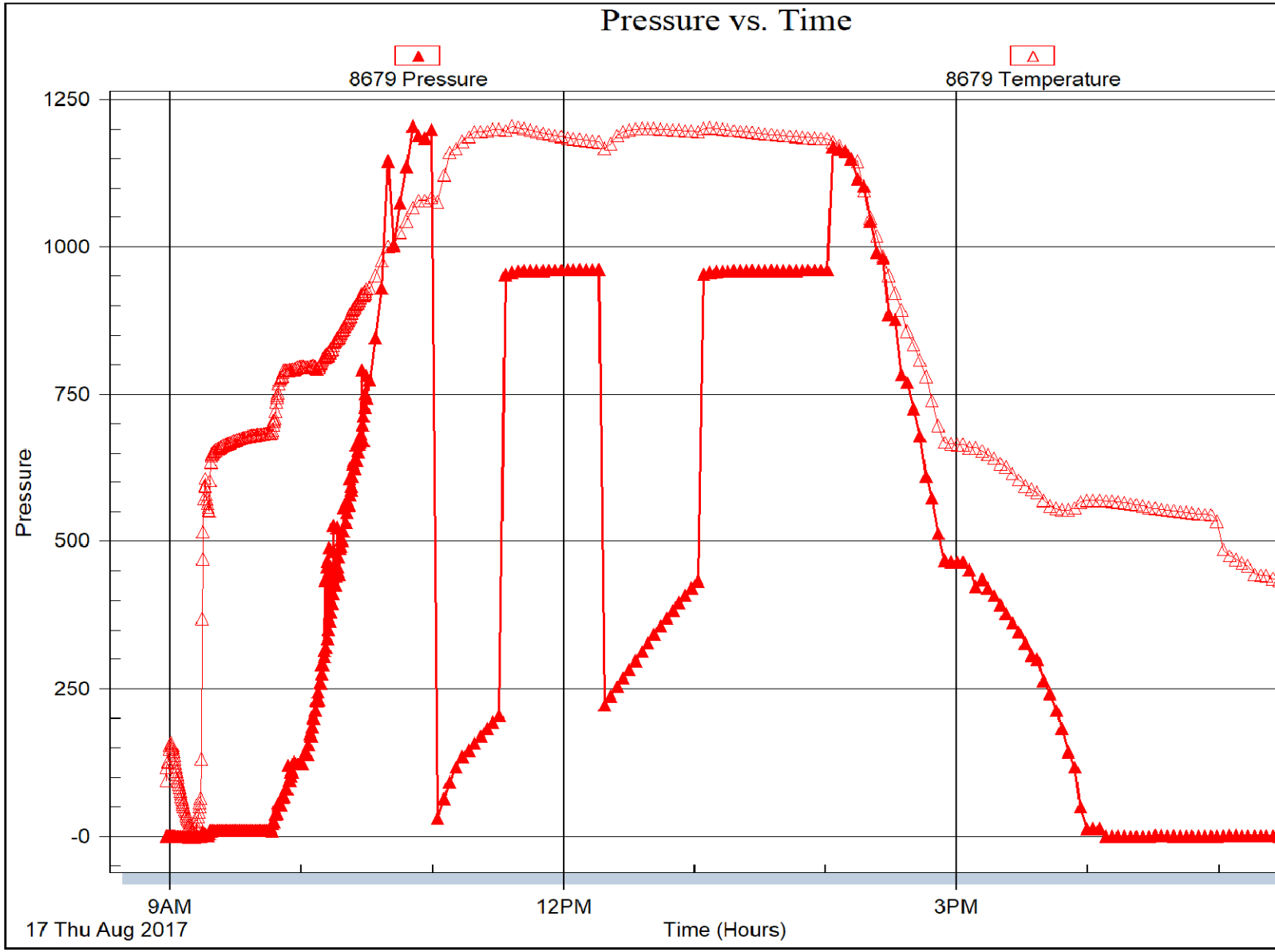
Serial #: 9124 **Inside** Vess Oil Corp. Chesney A #241 DST Test Nu

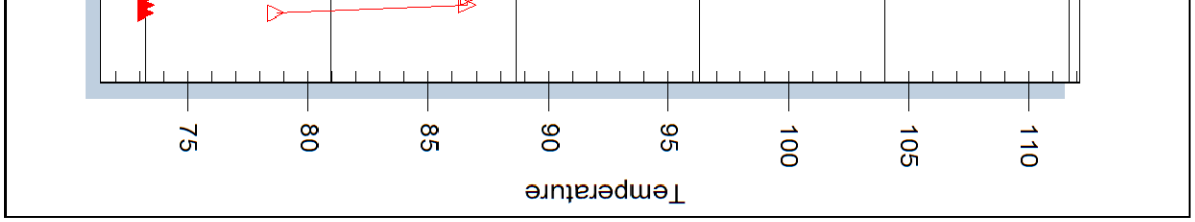


Trilobite Testing, Inc Ref. No: 63588 Printed: 2017.08

Trilobite Testing, Inc Ref. No: 63588 Printed: 2017.08.17 @ 22:07:10


110
105
100
95
90
85
80
75
Temperature


Pressure vs. Time
8679 Pressure
8679 Temperature
1250
1000
750
500
250
-0
Pressure
9AM
12PM
3PM
17 Thu Aug 2017
Time (Hours)



DRILL STEM TEST REPORT

TRILOBITE TESTING, INC

Vess Oil Corp.

1700 Waterfront Parkway
Building 5oo
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63589 **DST#: 5**

Test Start: 2017.08.18 @ 01:57:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:34:20
Time Test Ended: 09:59:30

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

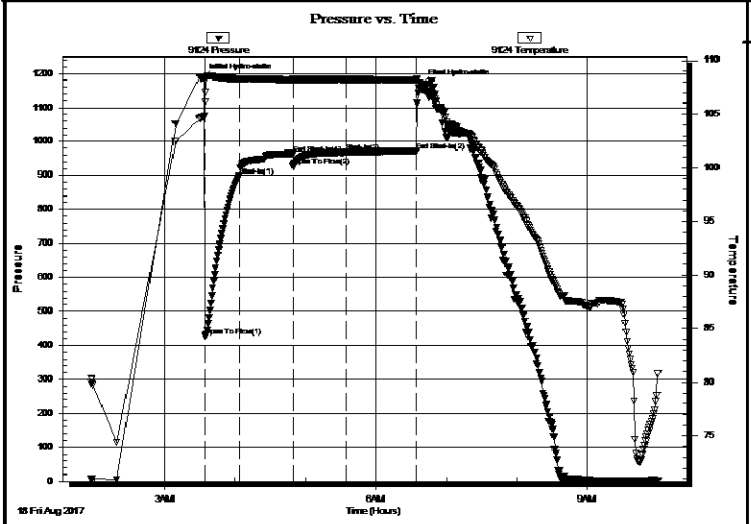
Interval: 2492.00 ft (KB) To 2499.00 ft (KB) (TVD)
Total Depth: 2499.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 9124 **Inside**
Press@RunDepth: 968.08 psig @ 2493.00 ft (KB)
Start Date: 2017.08.18 End Date: 2017.08.18
Start Time: 01:57:05 End Time: 09:59:29

Capacity: 8000.00 psig
Last Calib.: 2017.08.18
Time On Btm: 2017.08.18 @ 03:32:40
Time Off Btm: 2017.08.18 @ 06:38:39

TEST COMMENT: IF - Strong blow throughout initial flow period.
FF - Strong blow throughout final flow period. Blow stopped at 22 minutes into final flow period.
TS - Oil and mud cut water 5% Oil, 82% Water, and 13% Mud.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1187.06	104.76	Initial Hydro-static
2	425.81	106.10	Open To Flow (1)
31	898.87	108.28	Shut-In(1)
76	964.22	108.19	End Shut-In(1)
77	926.44	108.18	Open To Flow (2)
122	968.08	108.24	Shut-In(2)
182	972.96	108.17	End Shut-In(2)
186	1168.96	107.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1855.00	Oil & mud cut water 2%O 95%W & 3%M	18.71
125.00	Tr O heavy M cut W 61%W & 39%M	1.35

Gas Rates

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

185.00	Oil & heavy W cut M 1%O 25%W & 74%M	2.00
0.00	TS - O & M cut W 5%O 82%W & 13%M	0.00

TRILOBITE TESTING, INC

DRILL STEM TEST REPORT

Vess Oil Corp.

1700 Waterfront Parkway
Building 5oo
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63589 **DST#: 5**

Test Start: 2017.08.18 @ 01:57:00

GENERAL INFORMATION:

Formation: **Arbuckle**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:34:20
Time Test Ended: 09:59:30

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

Interval: 2492.00 ft (KB) To 2499.00 ft (KB) (TVD)
Total Depth: 2499.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

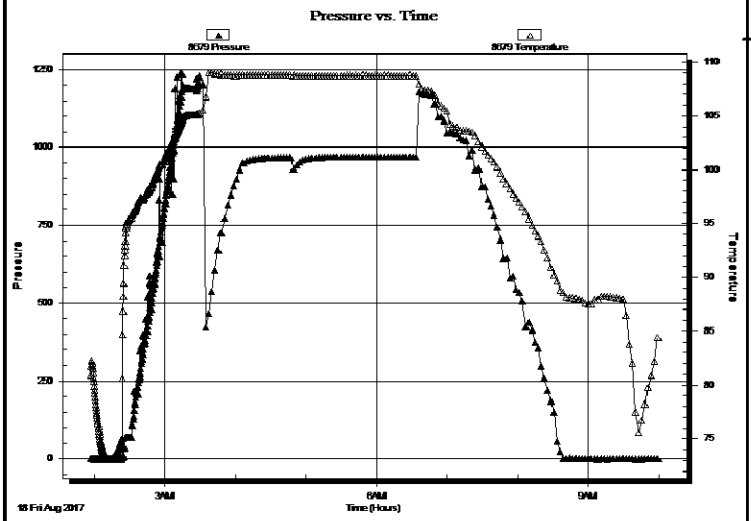
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 8679 **Outside**

Press@RunDepth: psig @ 2493.00 ft (KB)
Start Date: 2017.08.18 End Date: 2017.08.18
Start Time: 01:57:01 End Time: 09:59:30

Capacity: 8000.00 psig
Last Calib.: 1899.12.30
Time On Btm:
Time Off Btm:

TEST COMMENT: IF - Strong blow throughout initial flow period.
FF - Strong blow throughout final flow period. Blow stopped at 22 minutes into final flow period.
TS - Oil and mud cut water 5% Oil, 82% Water, and 13% Mud.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
1855.00	Oil & mud cut water 2%O 95%W & 3%M	18.71
125.00	Tr O heavy M cut W 61%W & 39%M	1.35

Gas Rates

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

185.00	Oil & heavy W cut M 1%O 25%W & 74%M	2.00
0.00	TS - O & M cut W 5%O 82%W & 13%M	0.00

DRILL STEM TEST REPORT

FLUID SUMMARY

Vess Oil Corp.

1700 Waterfront Parkway
Building 5oo
Wichit, KS 67206
ATTN: Casey Coats/Roger Ma

21/25S/5E Butler, KS

Chesney A #241

Job Ticket: 63589 **DST#: 5**

Test Start: 2017.08.18 @ 01:57:00

Mud and Cushion Information

Mud Type:	Gel Chem	Cushion Type:		Oil API:	deg API
Mud Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:	21000 ppm
Viscosity:	50.00 sec/qt	Cushion Volume:	bbl		
Water Loss:	9.09 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1580.00 ppm				
Filter Cake:	inches				

Recovery Information

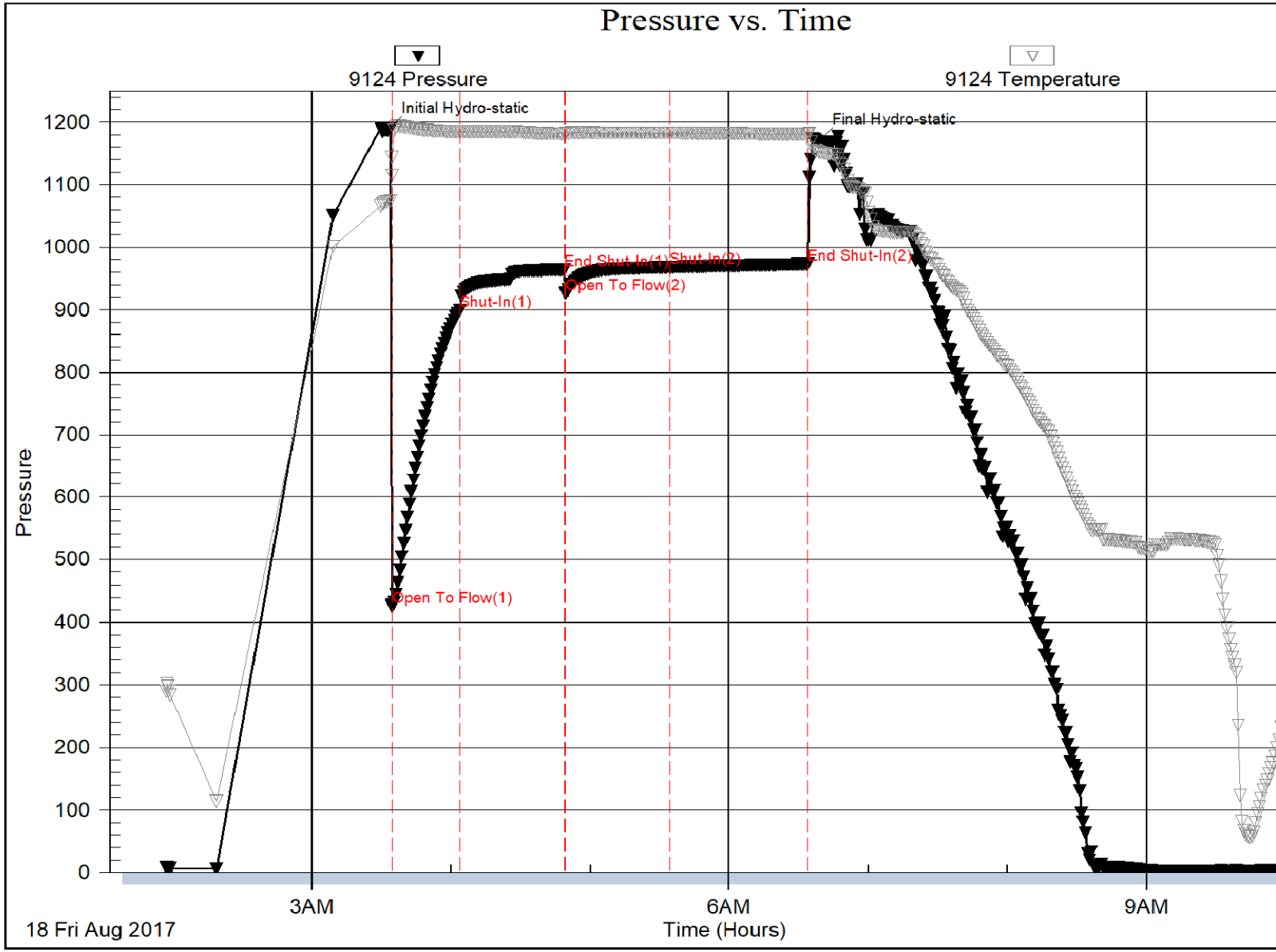
Recovery Table

Length ft	Description	Volume bbl
1855.00	Oil & mud cut water 2%O 95%W & 3%M	18.705
125.00	Tr O heavy M cut W 61%W & 39%M	1.355
185.00	Oil & heavy W cut M 1%O 25%W & 74%M	2.005
0.00	TS - O & M cut W 5%O 82%W & 13%M	0.000

Total Length: 2165.00 ft Total Volume: 22.065 bbl

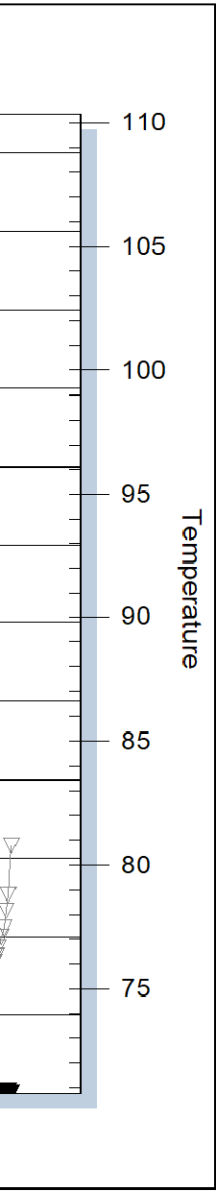
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

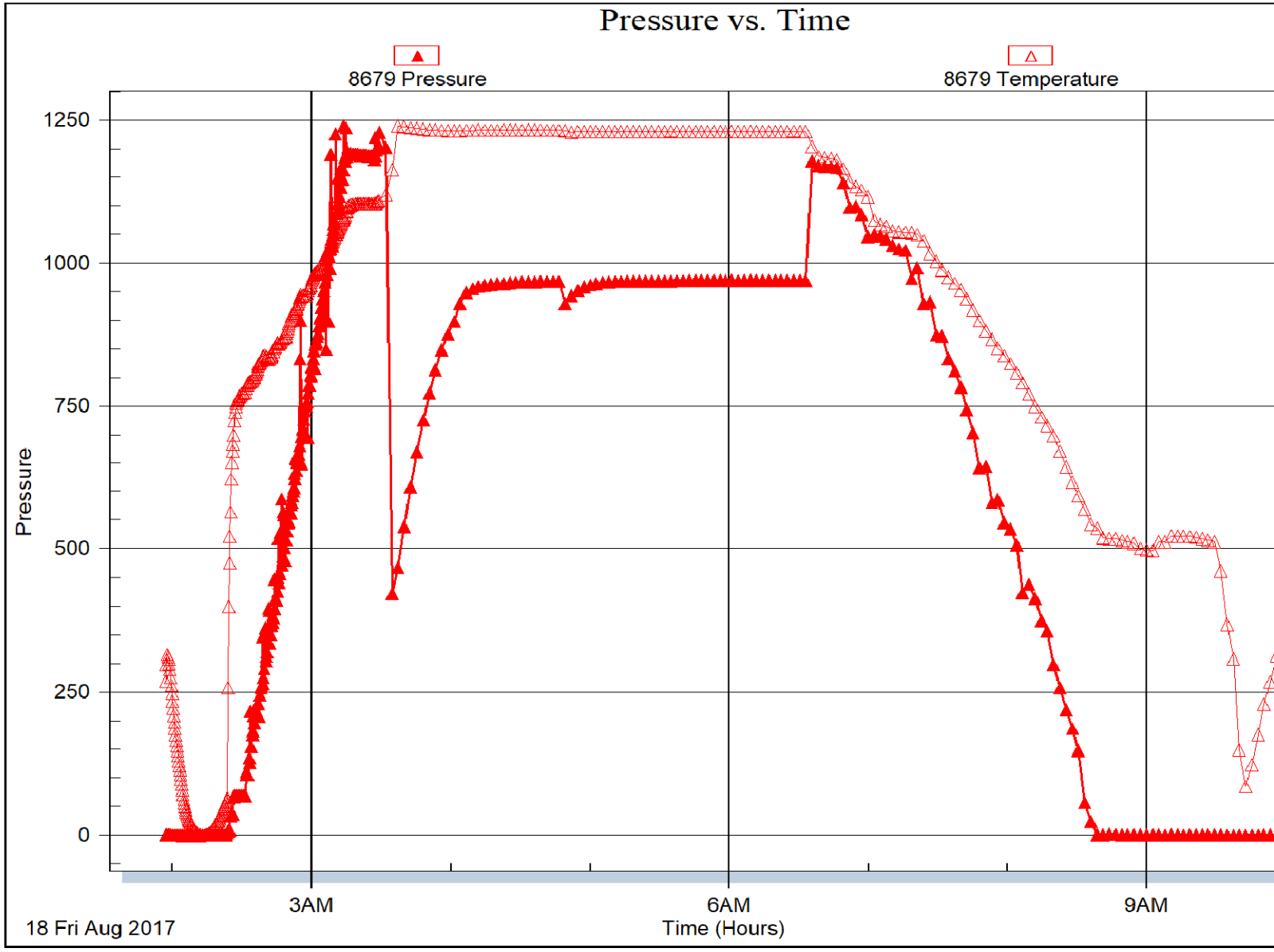
Serial #: 9124 **Inside** Vess Oil Corp. Chesney A #241 DST Test Nu



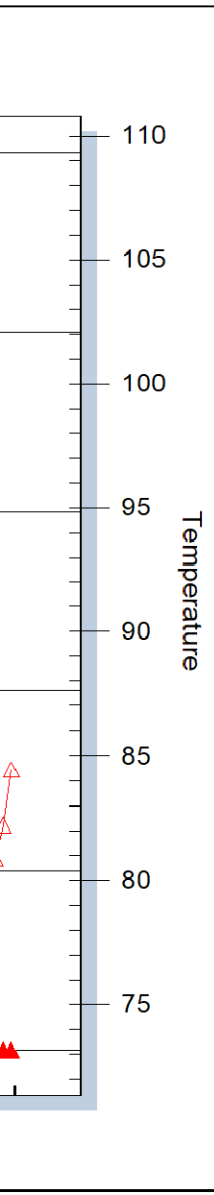
Trilobite Testing, Inc Ref. No: 63589 Printed: 2017.08.

Printed: 2017.08.18 @ 11:14:46 Ref. No: 63589 Trilobite Testing, Inc


110
105
100
95
90
85
80
75
Temperature


Pressure vs. Time
8679 Pressure
8679 Temperature
1250
1000
750
500
250
0
Pressure
3AM
6AM
9AM
Time (Hours)
18 Fri Aug 2017

mber: 5



18 @ 11:14:46