Confidentiality Requested:
☐ Yes ☑ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1370989

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 # 5030
Name: Vess Oil Corporation
Address 1: 1700 WATERFRONT PKWY BLDG 500
Address 2:
City: WICHITA State: KS Zip: 67206 + 6619
Contact Person: Casey Coats
Phone: (316) 682-1537
CONTRACTOR: License # 32701
Name: C & G Drilling, Inc.
Wellsite Geologist: Roger Martin
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 #:

08/11/2017 Spud Date or Recompletion Date
08/18/2017 Date Reached TD
08/18/2017 Completion Date or Recompletion Date

API No.: 15-015-24087-00-00
Spot Description: 30'E 10'N S/2 N/2 N/2
SW- SW- NW- NE Sec. 21 Twp. 25 S. R. 5 ☑ East ☐ West
1000 Feet from ☑ North / ☐ South Line of Section
2610 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Butler
Lease Name: CHESNEY A Well #: 241
Field Name:
Producing Formation: Arbuckle
Elevation: Ground: 1344 Kelly Bushing: 1350
Total Vertical Depth: 2499 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 262 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: 1220 ppm Fluid volume: 600 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Vess Oil Corporation
Lease Name: Robinson A #70 License #: 5030
Quarter SW Sec. 25 Twp. 25 S. R. 05 ☑ East ☐ West
County: Butler Permit #: D24116

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:** Karen Ritter **Date:** 12/13/2017

1370989

Operator Name: Vess Oil Corporation Lease Name: CHESNEY A Well #: 241

Sec. 21 Twp. 25 S. R. 5 ☑ East ☐ West County: Butler

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 ☑ Yes ☐ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

TCores aken ☐ Yes ☑ No

Electric Log Run ☐ Yes ☑ No

Geologist Report / Mud Logs ☑ Yes ☐ No

List All E. Logs Run:

☐ Log Formation (Top), Depth and Datum ☑ Sample

Name	Top	Datum
Admire 550	520	+830

CASING RECORD ☑ New ☐ 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
Surface	12.25	8.625	23	262	Class A	150	3% cc

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ 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: ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other *(Explain)*

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

DISPOSITION OF GAS:	METHOD OF COMPLETION:	PRODUCTION INTERVAL:
☐ Vented ☐ Sold ☐ Used on Lease *(If vented, Submit ACO-18.)*	☐ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*	Top / Bottom

Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record *(Amount and Kind of Material Used)*

TUBING RECORD: Size: Set At: Packer At:

Mail to: KCC - Conservation Division, 266 N. Main, Suite 220, Wichita, Kansas 67202

Form	ACO1 - Well Completion
Operator	Vess Oil Corporation
Well Name	CHESNEY A 241
Doc ID	1370989

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	262	Class A	150	3% cc

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

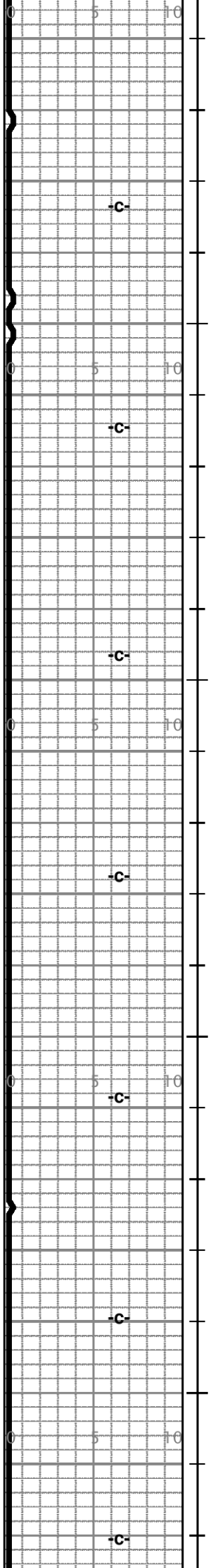
FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
			08/09/2017- MIRU C&G Rig #1. Perform rig repairs.
			Hogoboom hauled spud mud from Scully #25.
ADMIRE 550'	--	520' (+830)	
ADMIRE 650'	--	619' (+731)	08/10/2017- C&G on location, making repairs to rig.
WHITE CLOUD LS	--	860' (+490)	
WHITE CLOUD SD	--	871' (+477)	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-				
		-350		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)	
		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;

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

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.

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.

{SI 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.

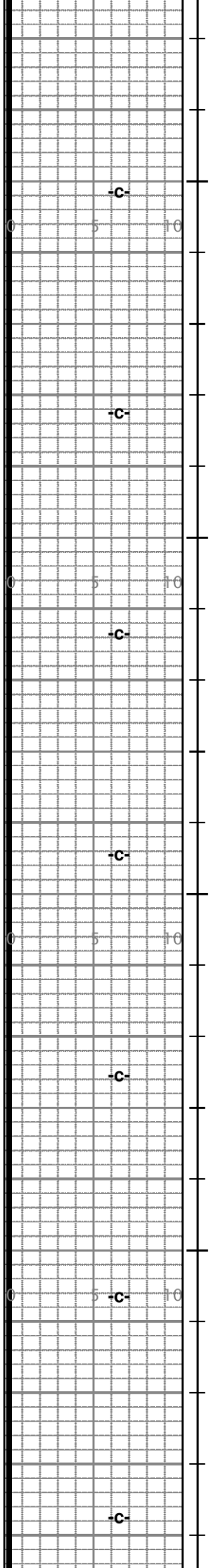
{VSI SFO)

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.

{VSI SFO)

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



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).

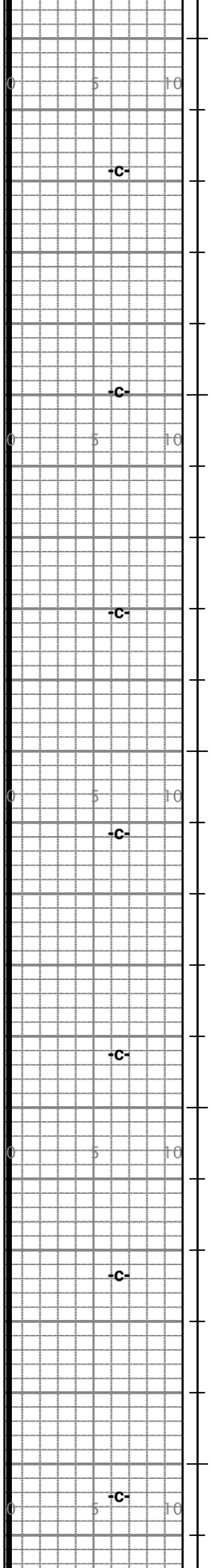
{VSl SFO)

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)

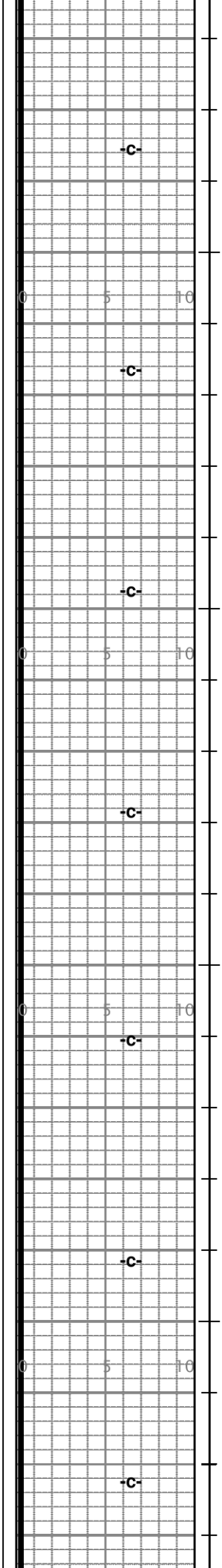
1055'spl} Vrr LS: gy-wh & tn, dn & argil & sm chlky, & ux-fnX; Vpr-NVP; NS; Pred silty SH: md-dk-gy, micac; (Trc Sd Clust:AA w/ FLR-SFO-STN-Cut).

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.

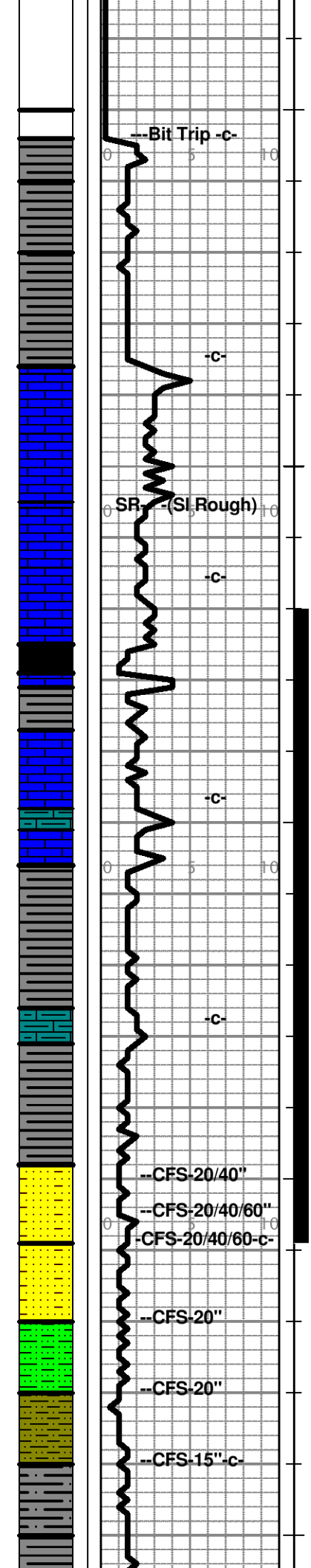
{Trc SFO)

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 & VSI SFO

{VSI SFO)

1375' (-25)
HEEBNER

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

1387'(-37)
TORONTO
{SI-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

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

{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)

{Fr-Gd SFO)

ISIP: 341
FFP: 43
FSIP: 339
FHP: 630
BHT: 96F

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

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

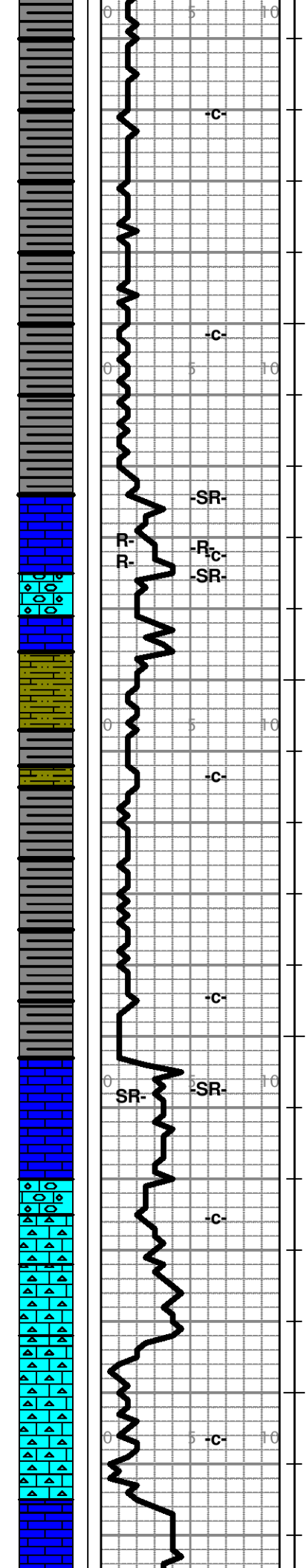
{Fr-Gd SFO)

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.

{SI SFO)

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



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.

{VSI- SISFO)

SH: gy-blk subcarb.

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 & SI mldc Pkst, ~30% w/Pr- Fr Poro, VRr Gd Poro, spt'd- sat FLR & STN, VSI - SI SFO, SI- Fr mlky Cut, Odor, sm wh chlky, sm dn.

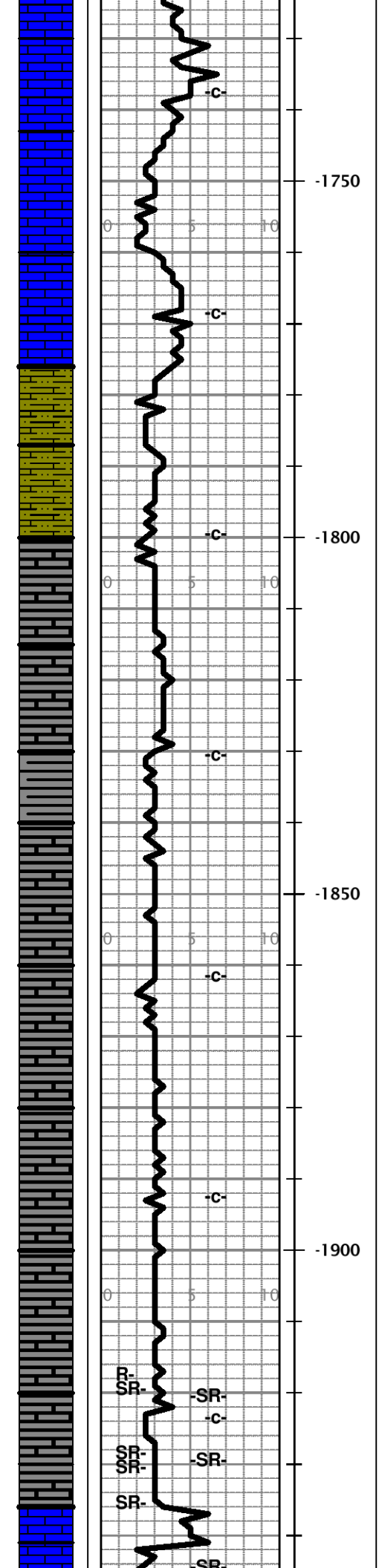
{VSI- SI SFO)

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, SI SFO- Gsy & flmy w/Fr- Gd Cut, Frly strng Odor, SI- 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.

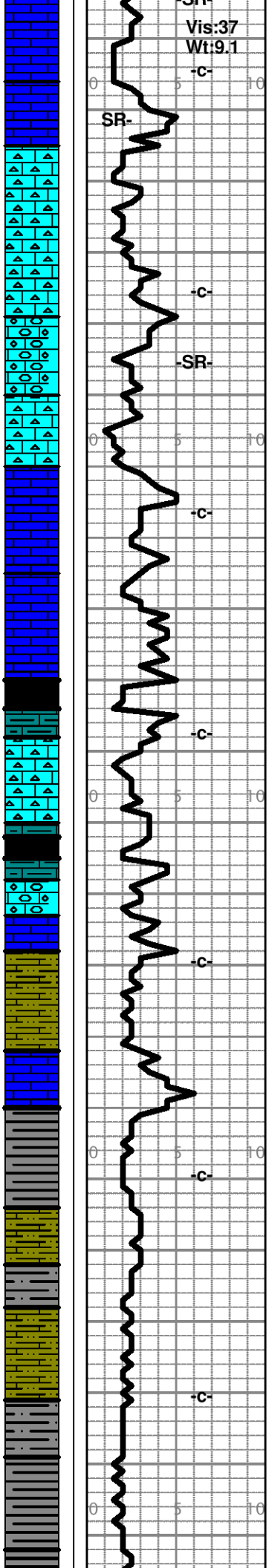
SH: dk gy, sm calc, Rr blk fis.

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.

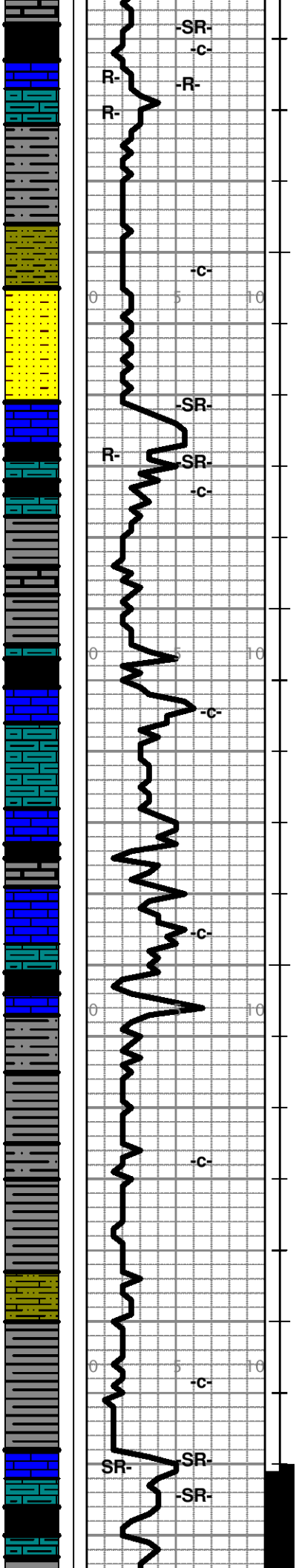
SILTS: gy, calc, micac.

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.

2173' (-823)
CHECKERBOARD

{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.

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

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

2221' (-871)
ALTAMONT

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.

2301' (-951)
CHEROKEE

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.

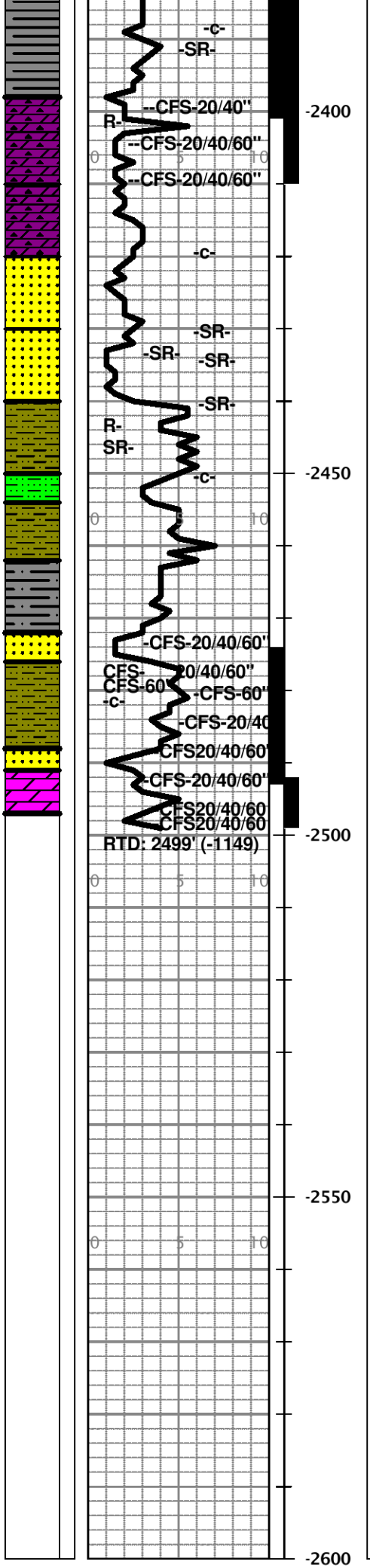
SH: blk subcarb- carb & pyrtc & dk gy, sm micac.

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

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

2368' (-1018)
ARDMORE

SH: blk carb- Vcarb & Vpyrtc.



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.

FSIP: 671
FHP: 1112
BHT: 108F

DST #3 VIOLA
2370'-2410'

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

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

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

{Fr SFO)

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

{Sl SFO)

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

FSIP: 960
FHP: 1160
BHT 110F

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

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

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

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

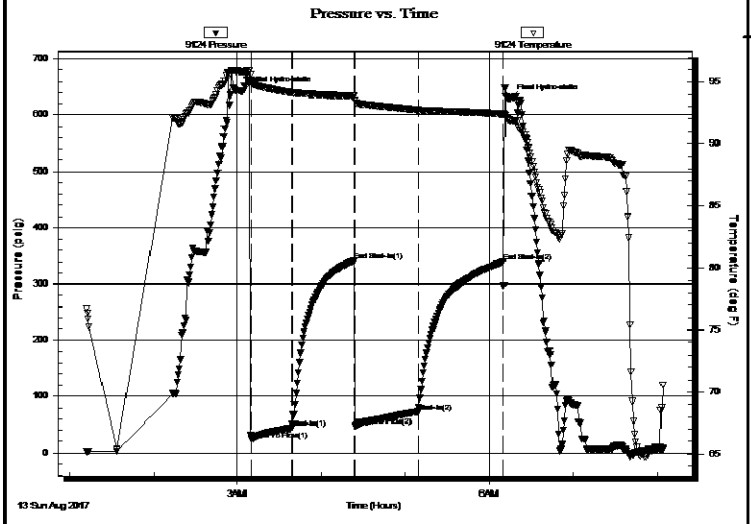
Interval: 1370.00 ft (KB) To 1459.00 ft (KB) (TVD)
Total Depth: 1459.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

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

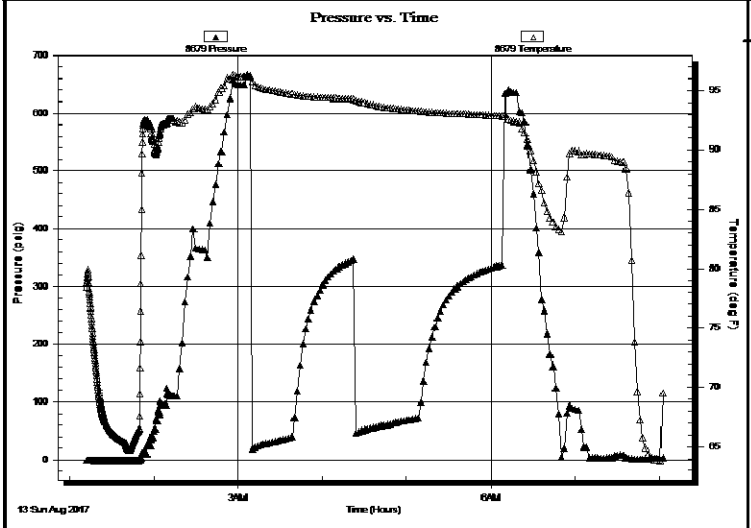
Interval: 1370.00 ft (KB) To 1459.00 ft (KB) (TVD)
Total Depth: 1459.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

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				

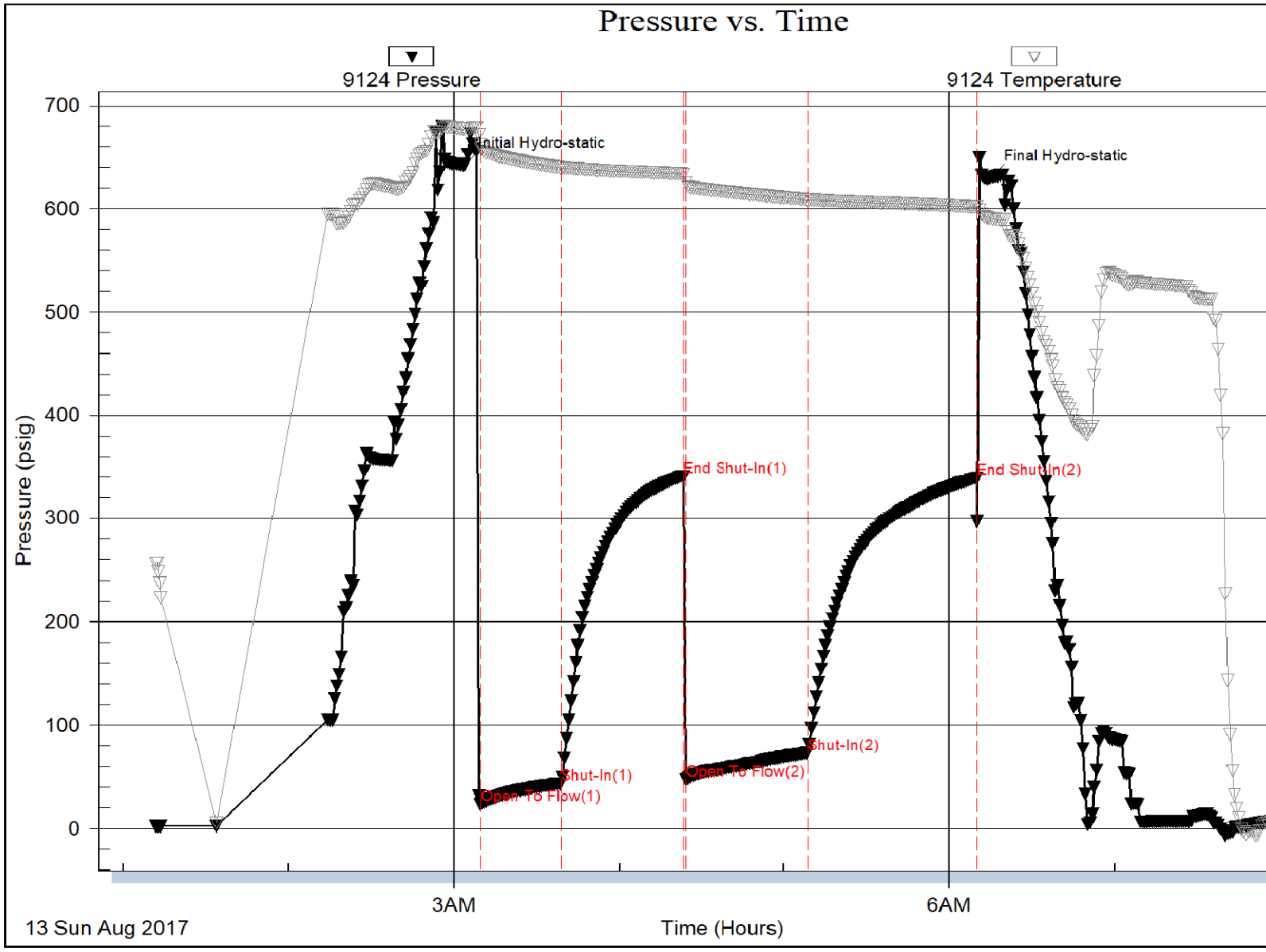
Recovery Information

Recovery Table

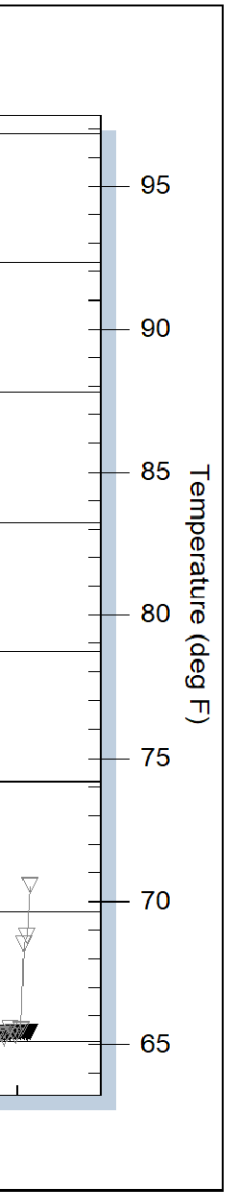
Length ft	Description	Volume bbl
130.00	Slight oil spotted mud trace O & 100% M	0.639
0.00	115; Gas in pipe 100% G	0.000
0.00	Tool Sample Oil cut mud 4% O & 96% M	0.000

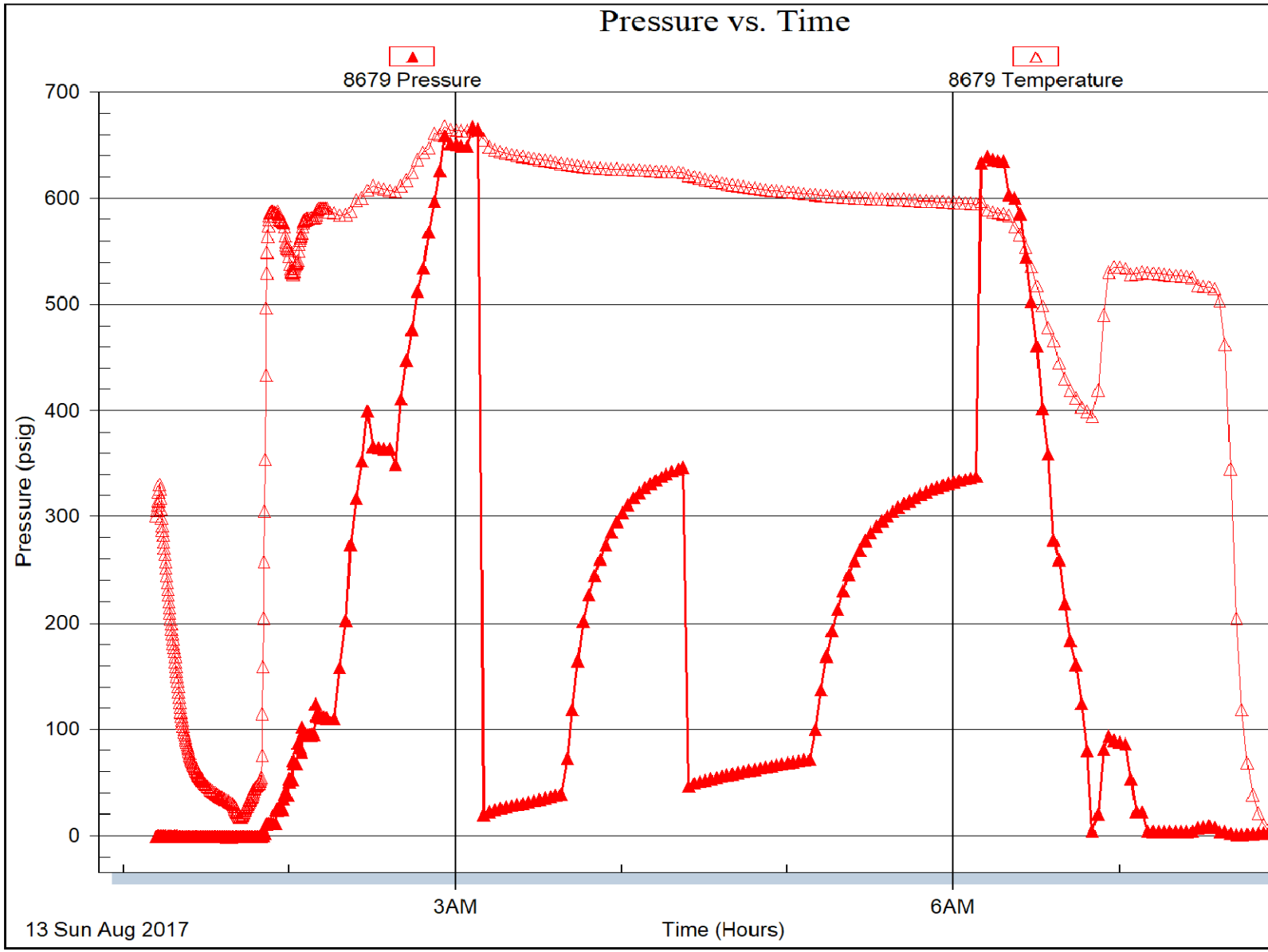
Total Length: 130.00 ft Total Volume: 0.639 bbl

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



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


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

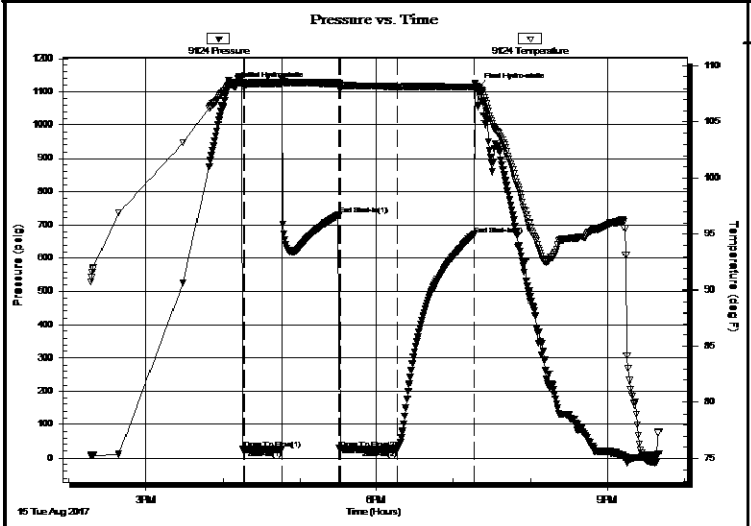
Interval: 2371.00 ft (KB) To 2401.00 ft (KB) (TVD)
Total Depth: 2401.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

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

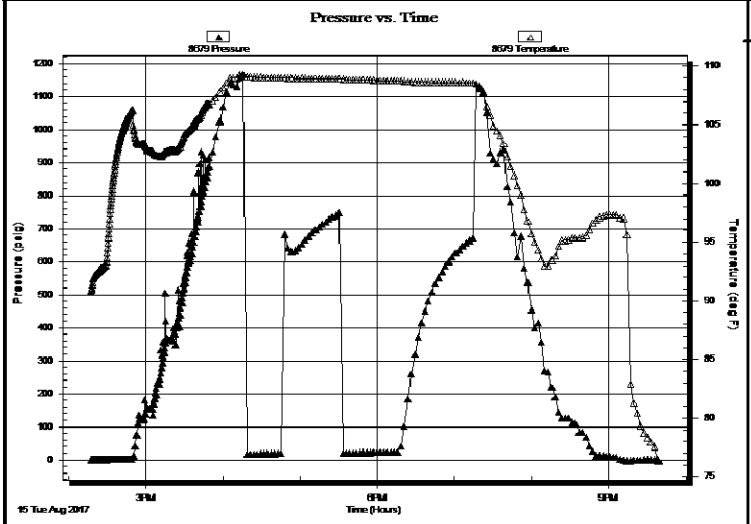
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

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

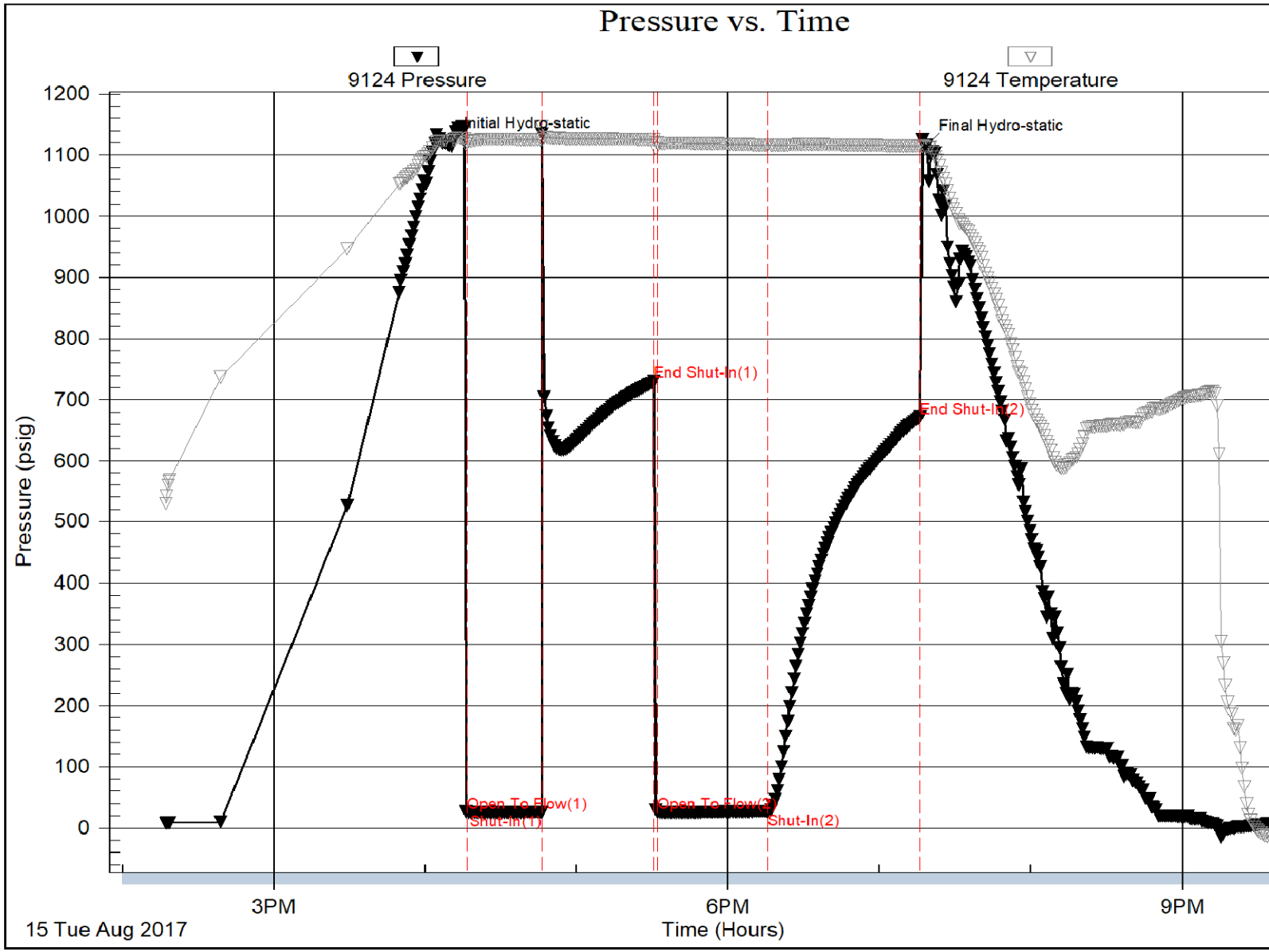
Recovery Table

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

Total Length: 10.00 ft Total Volume: 0.049 bbl

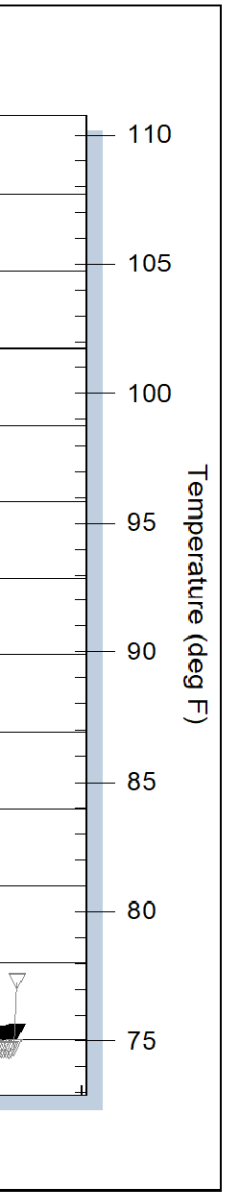
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

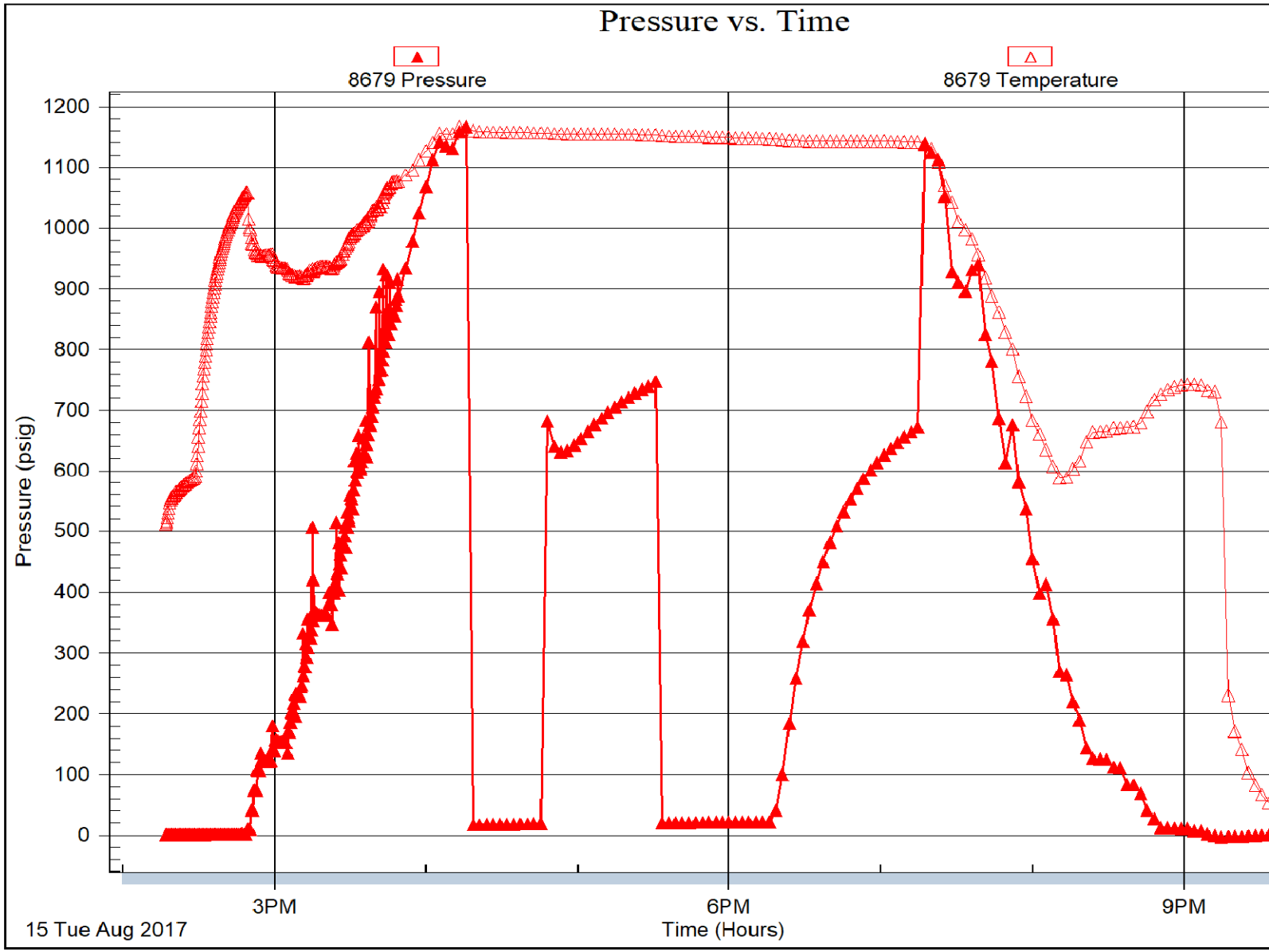
Serial #: 9124 **Inside** Vess Oil Corp. Chesney A #241 DST Test Nu

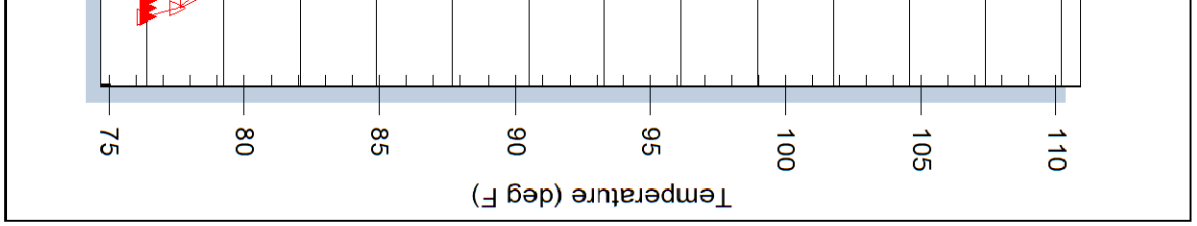


Trilobite Testing, Inc Ref. No: 63586 Printed: 2017.08

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

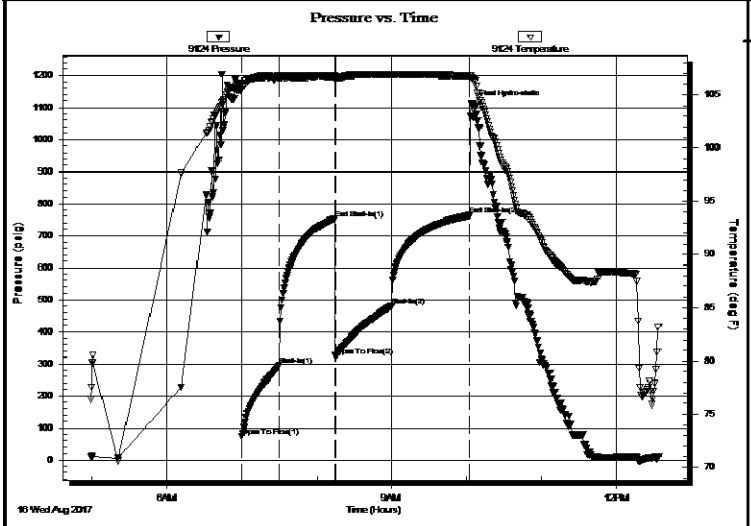
Interval: 2370.00 ft (KB) To 2410.00 ft (KB) (TVD)
Total Depth: 2410.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

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

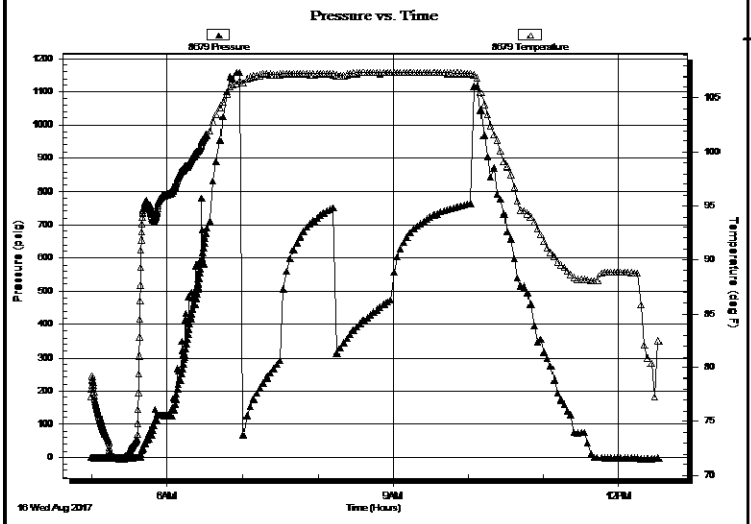
Interval: 2370.00 ft (KB) To 2410.00 ft (KB) (TVD)
Total Depth: 2410.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

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				

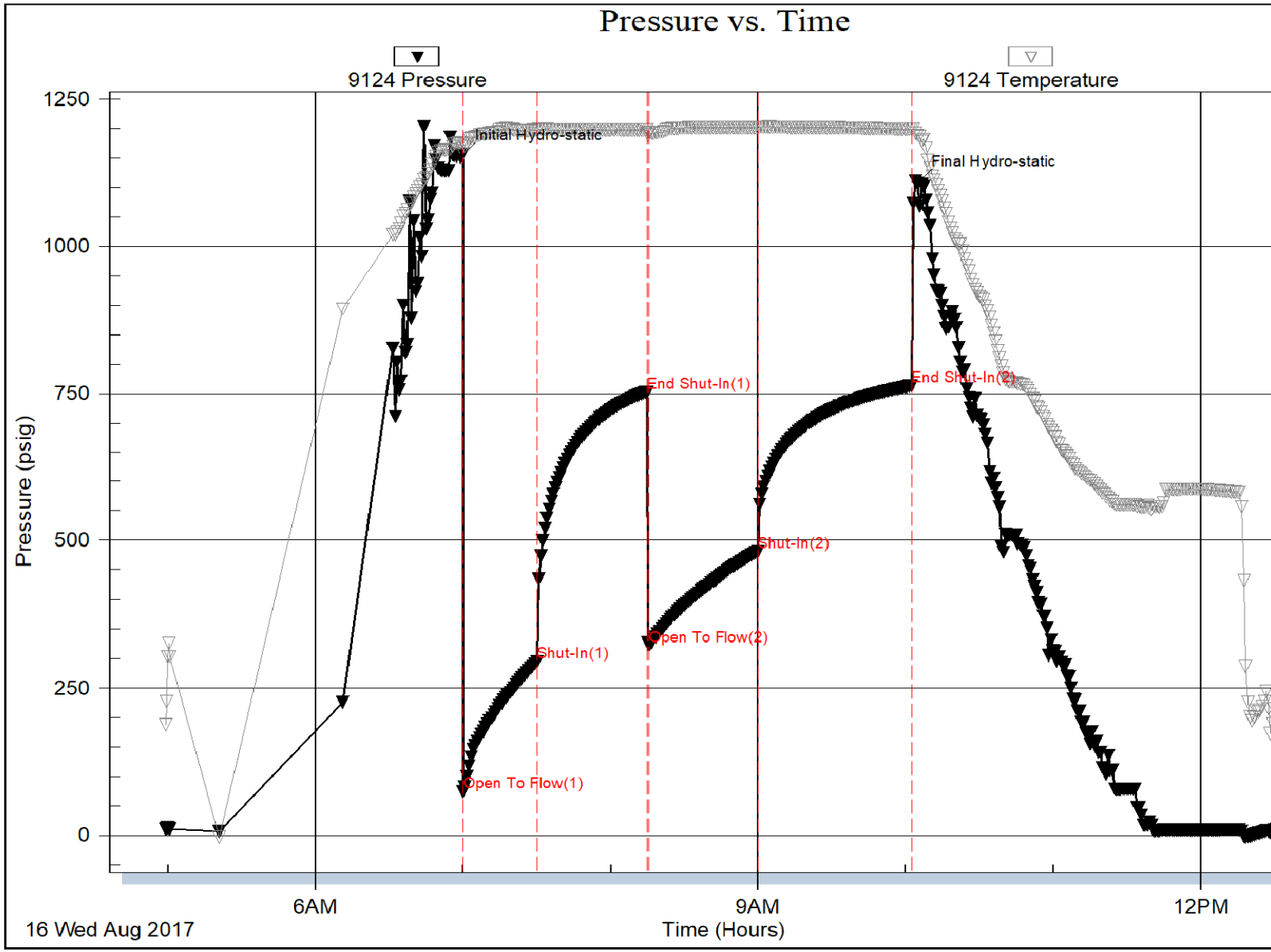
Recovery Information

Recovery Table

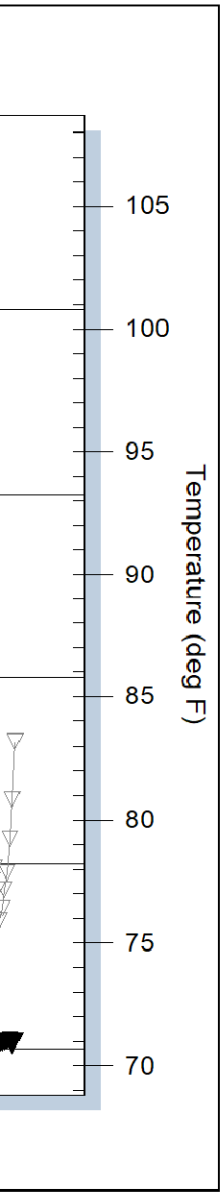
Length ft	Description	Volume bbl
520.00	Mud cut w ater 15% M & 85% W	4.238
530.00	Drilling mud 100% M	5.744
0.00	Tool Sample - mud cut w ater 7%M & 93%W	0.000

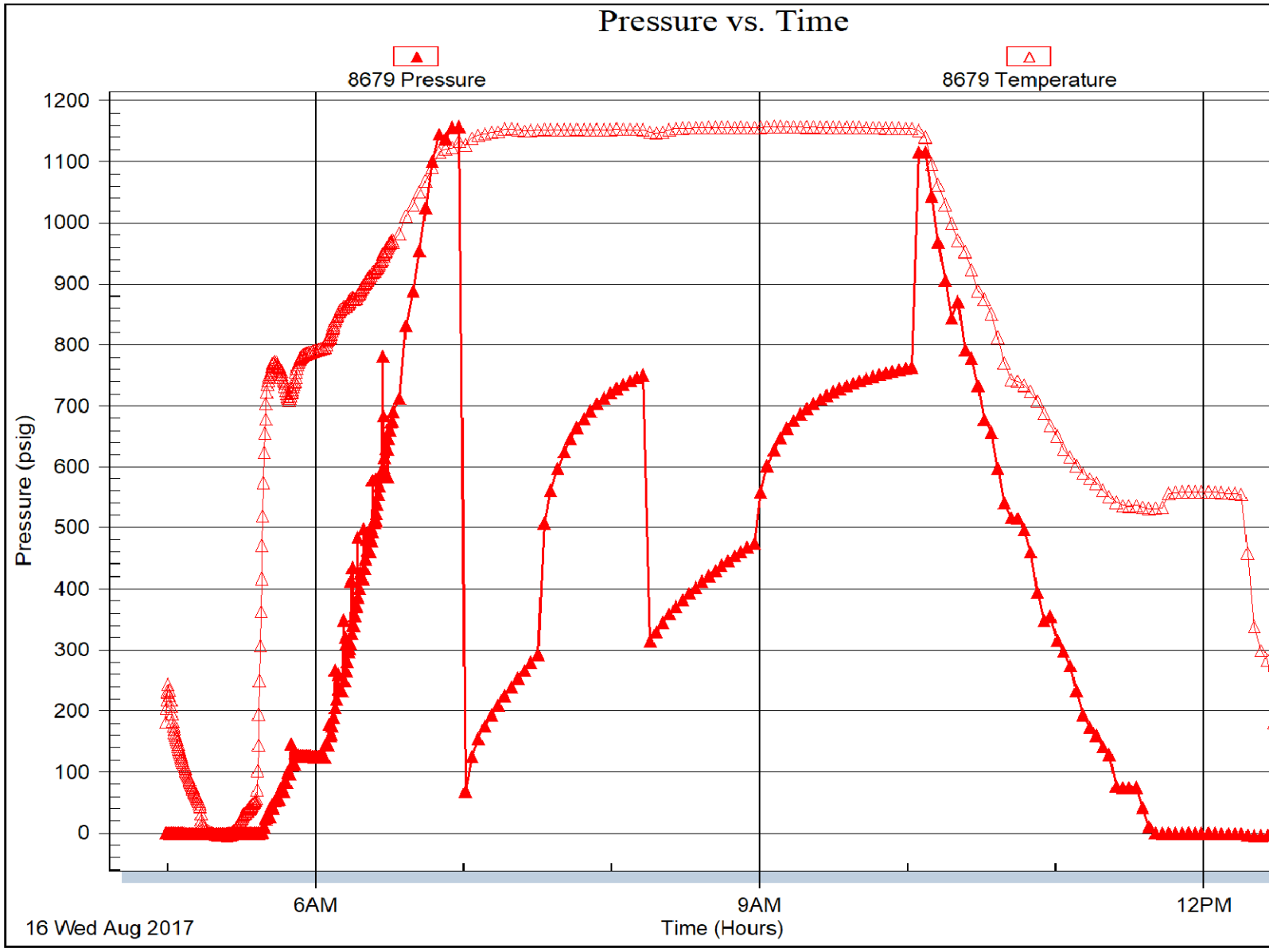
Total Length: 1050.00 ft Total Volume: 9.982 bbl

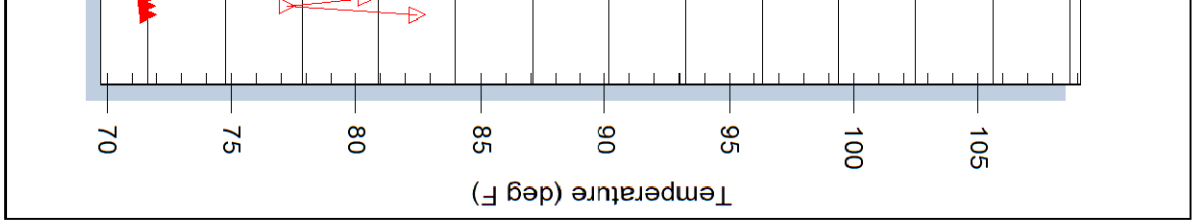
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:



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


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

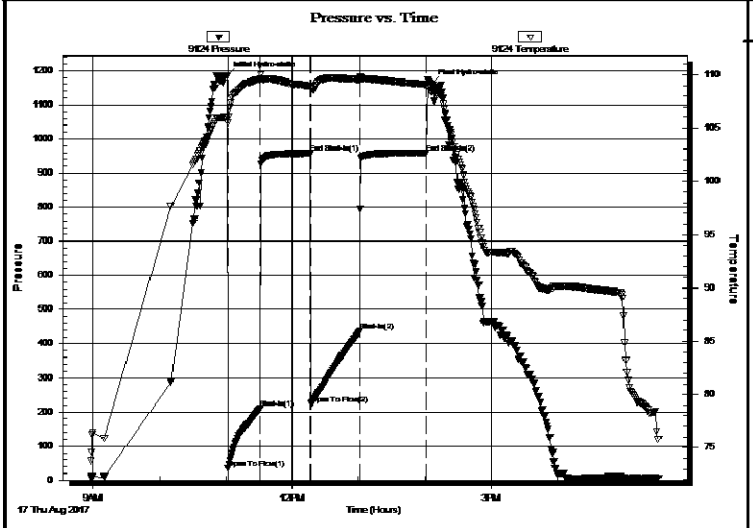
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

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

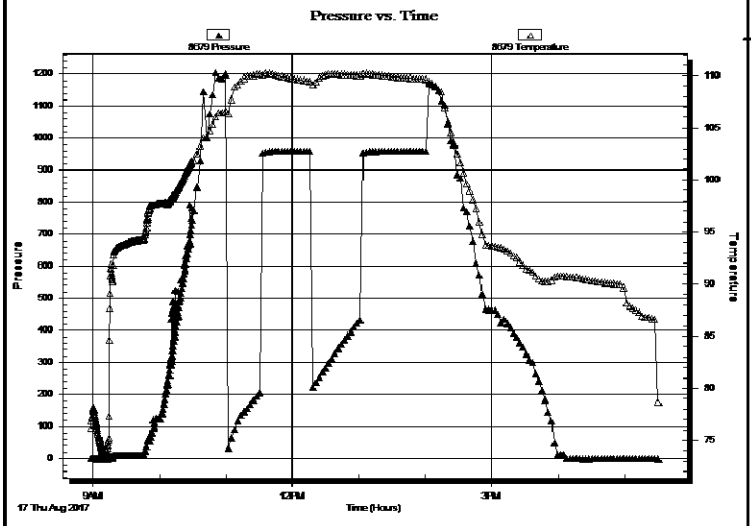
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

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

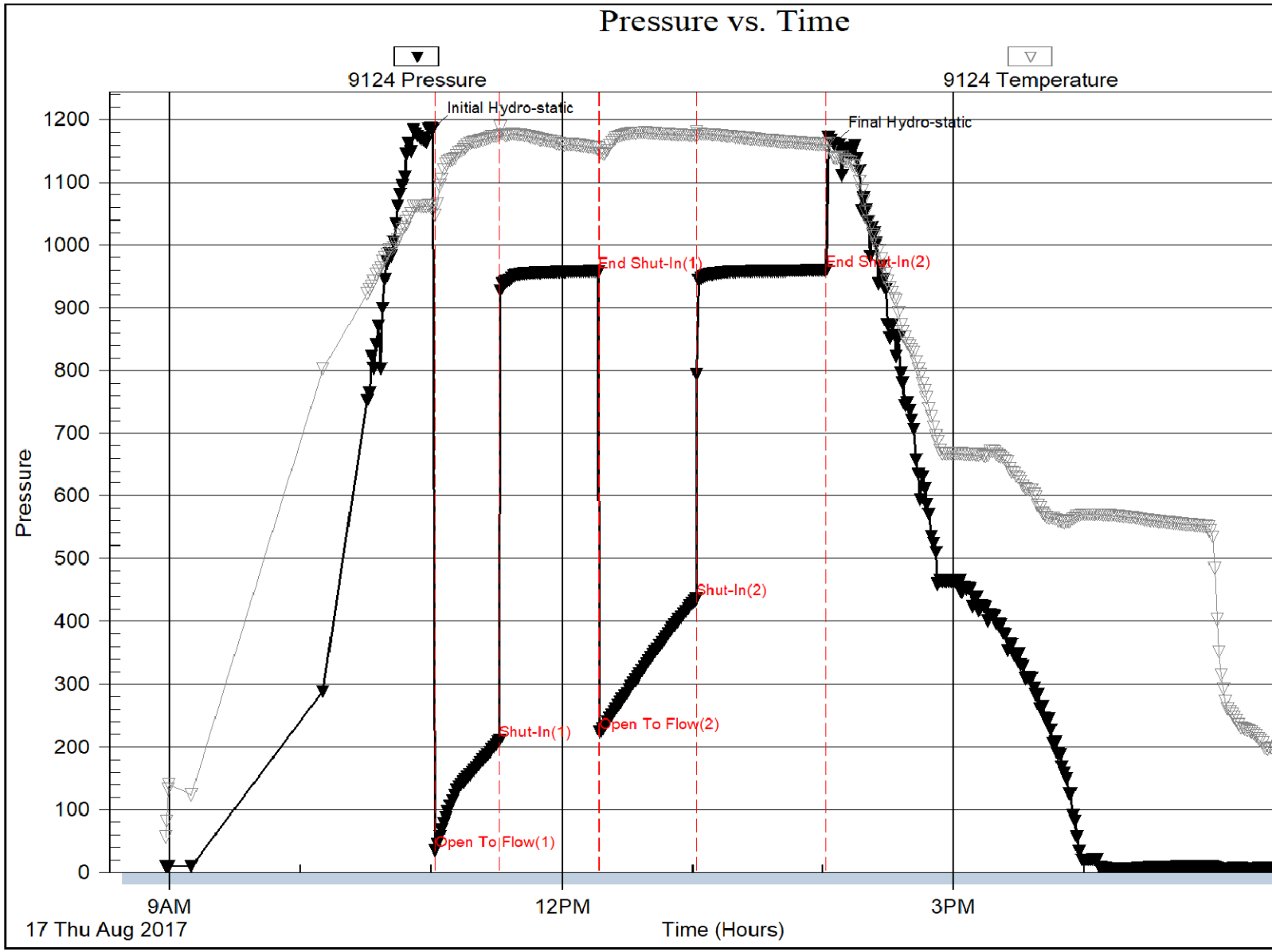
Recovery Table

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

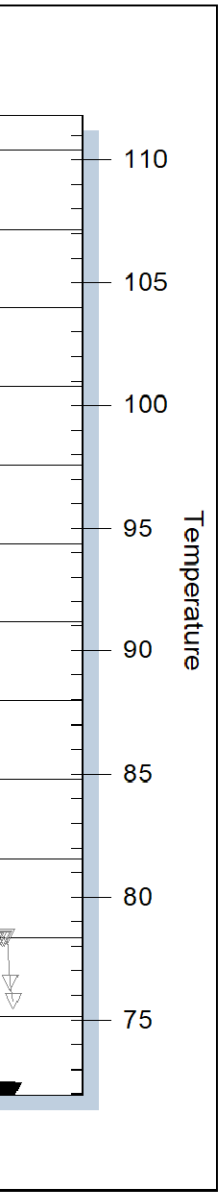
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

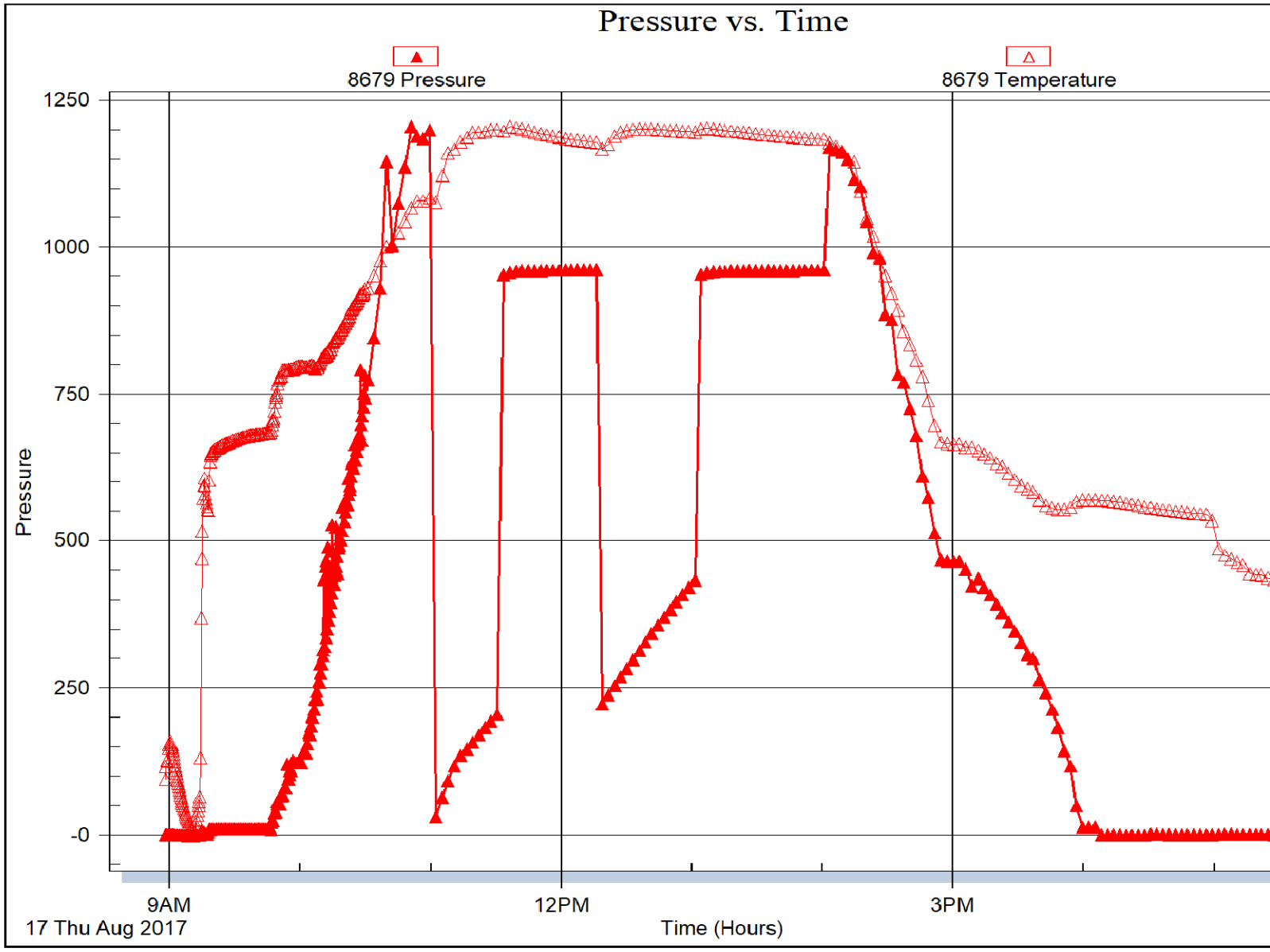
Serial #: 9124 **Inside** Vess Oil Corp. Chesney A #241 DST Test Nu

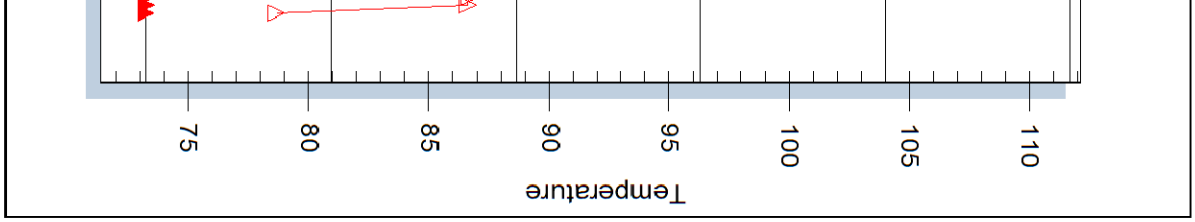


Trilobite Testing, Inc Ref. No: 63588 Printed: 2017.08

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

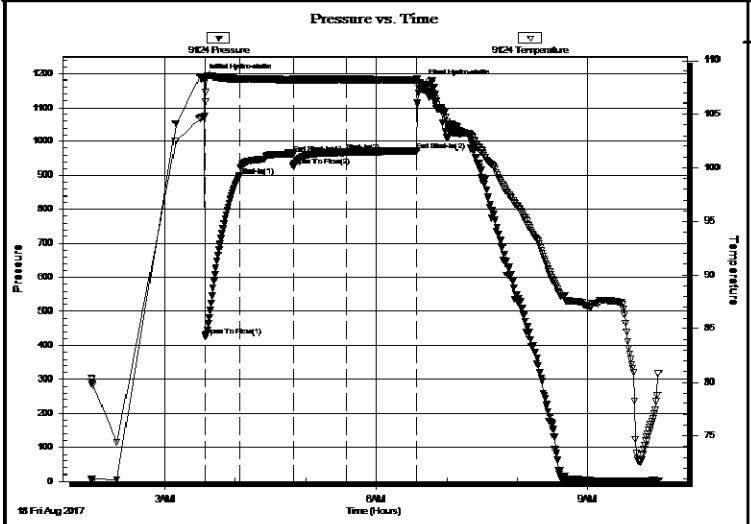
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

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

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

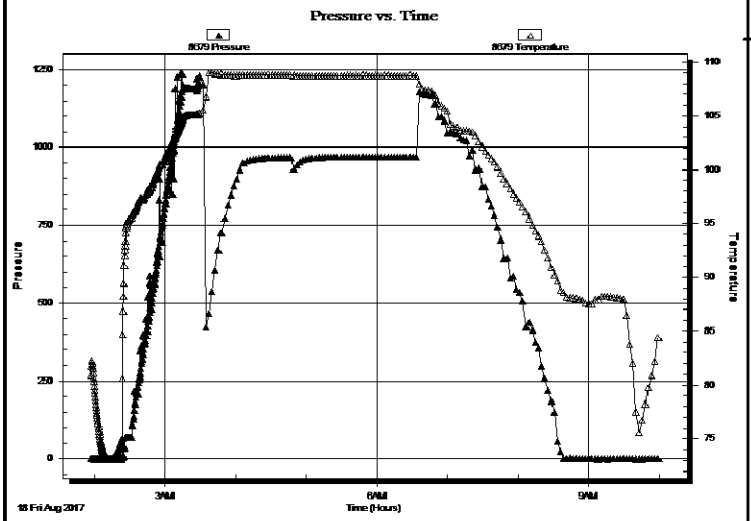
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

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

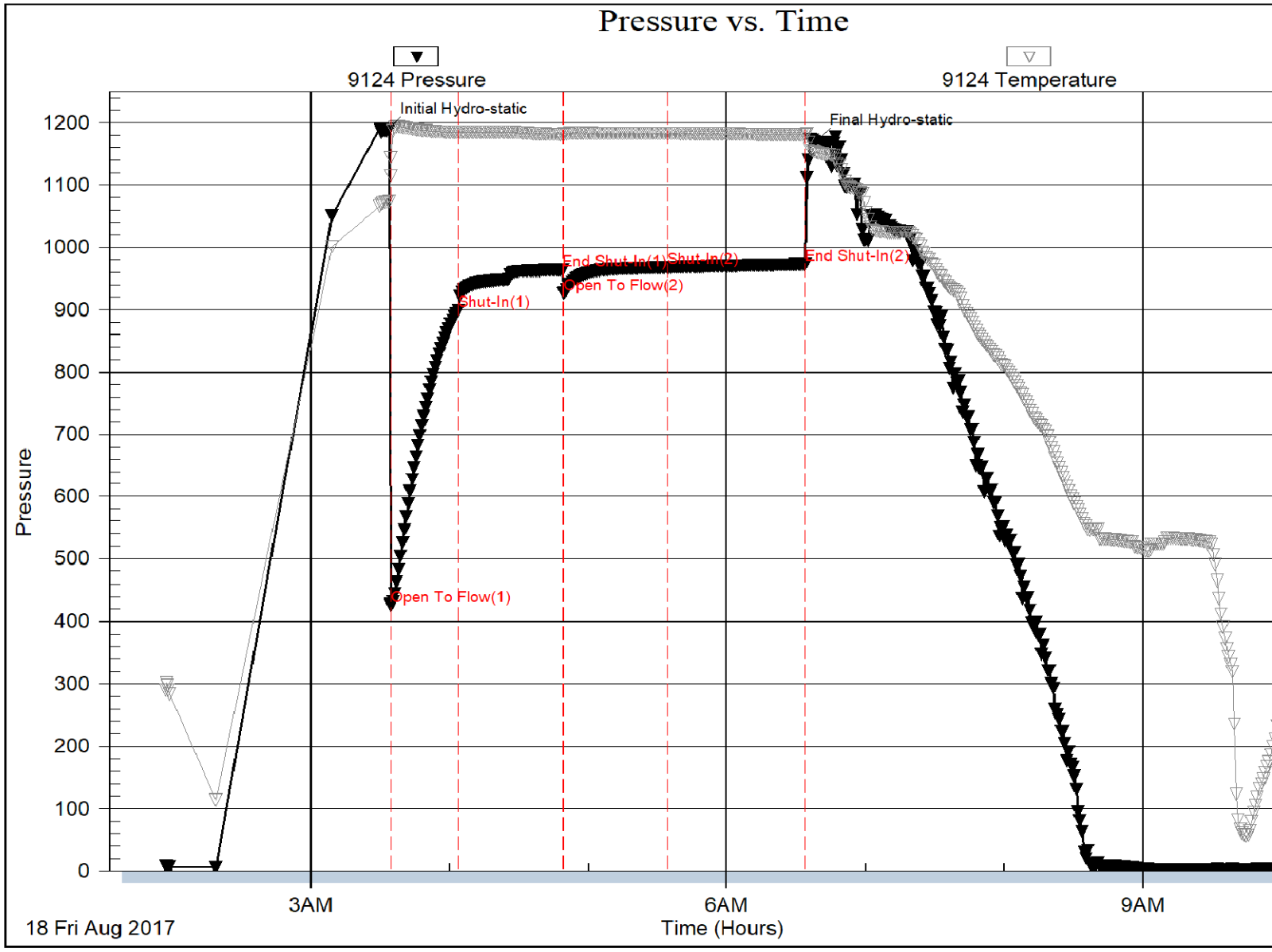
Recovery Table

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

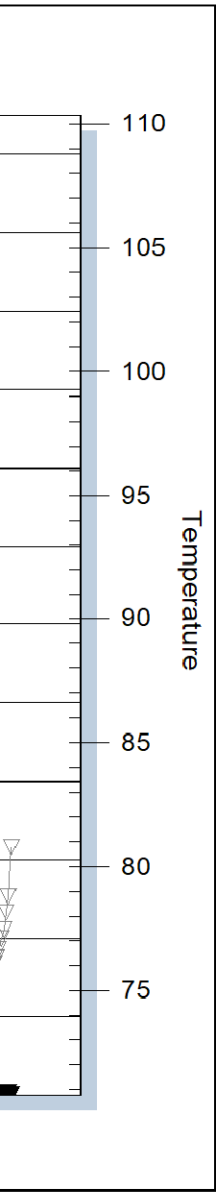
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

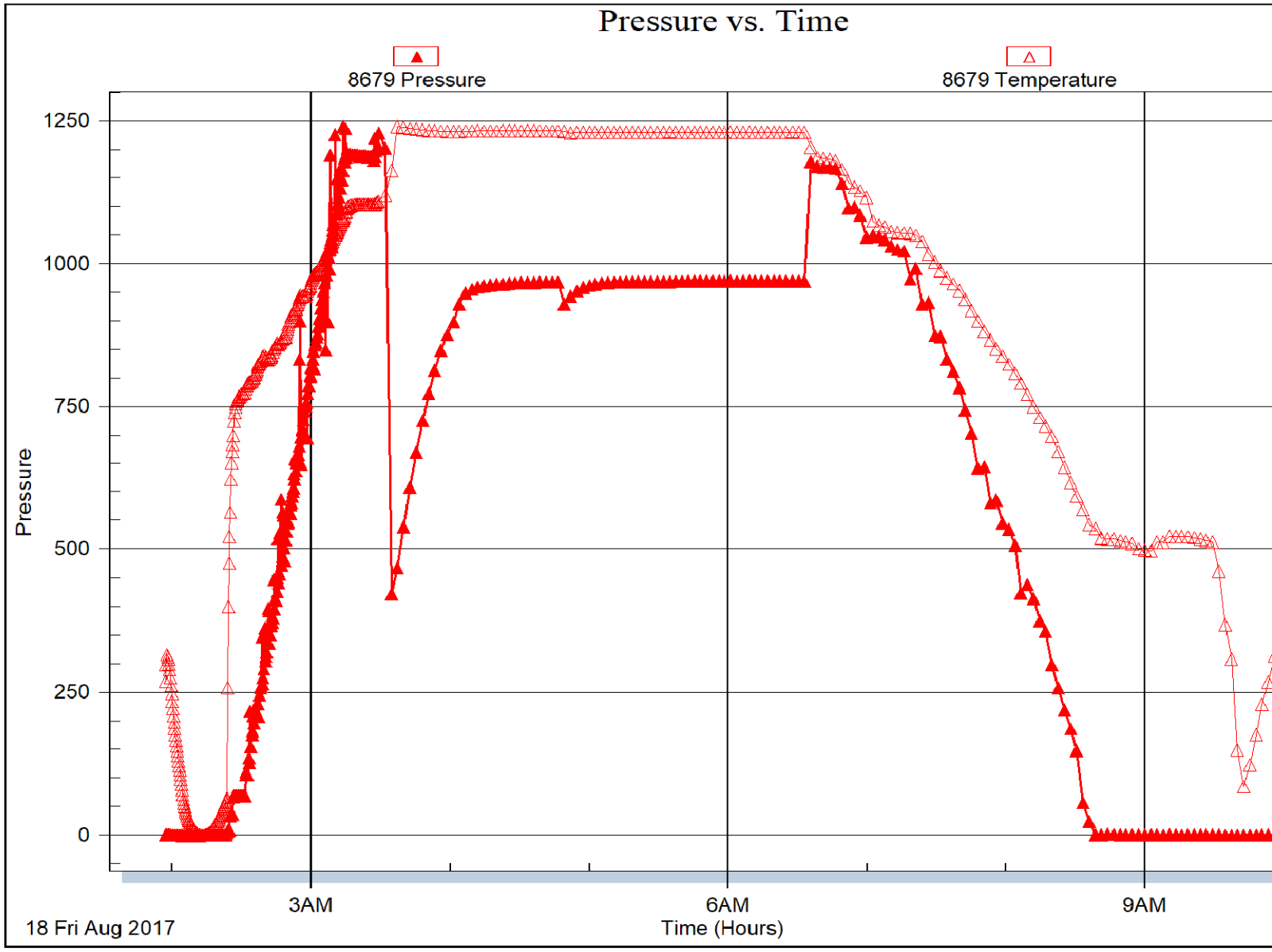
Serial #: 9124 **Inside** Vess Oil Corp. Chesney A #241 DST Test Nu



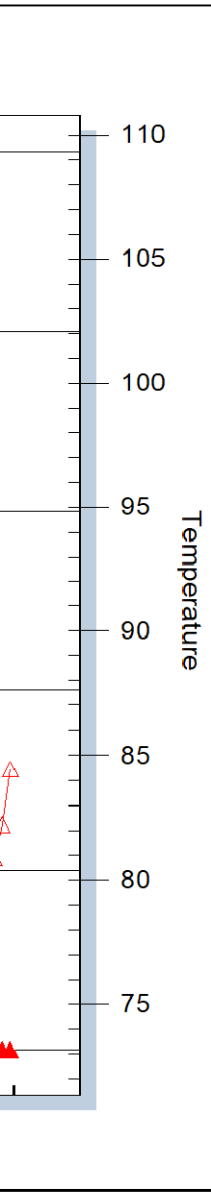
Trilobite Testing, Inc Ref. No: 63589 Printed: 2017.08.

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

QES

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

8841 / 873

TICKET NUMBER 54698
LOCATION El Dorado
FOREMAN Brad Butler

FIELD TICKET & TREATMENT REPORT
CEMENT

INVOICE # 91026

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-11-17	8511	Chesney A #241	21	25S	5E	Butler

CUSTOMER: Vess Oil Corporation
MAILING ADDRESS: 1700 Waterfront Pkway Bld. 500
CITY: Wichita | STATE: Ks. | ZIP CODE: 67206

TRUCK #	DRIVER	TRUCK #	DRIVER
446	Jeremy M.		
681	Tracy		
702	Brad		

JOB TYPE Surface HOLE SIZE 12¼" HOLE DEPTH 263' CASING SIZE & WEIGHT 8⅝" 23lb
CASING DEPTH 262' DRILL PIPE TUBING OTHER
SLURRY WEIGHT 15.2lb SLURRY VOL 32 Bbls WATER gal/sk 5.2 CEMENT LEFT in CASING 20'
DISPLACEMENT 15.3 Bbls DISPLACEMENT PSI MIX PSI RATE

REMARKS: Safety Meeting: Rig up to 8⅝" casing, break circulation with fresh water. Mixed 150 sks. Regular cement w/ chemicals, displace cement with 15.3 Bbls water. Shut down. Closed casing in with good cement returns - 7 Bbls slurry. Job complete. Tear down.

"Thank You"

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE 0450	1	PUMP CHARGE	1500.00	1500.00
CE 0002	4	MILEAGE	7.15	N/C
CE 0711	M/C	Bulk Truck charge	660.00	660.00
CC 5800A	150 sacks	Regular - class A	20.00	3000.00
CC 5325	425 lbs.	CaCl2 3%	1.25	531.25
CC 6075	75 lbs	Poly Flake ½ lb per/SK	2.00	150.00
				5841.25
		45% Discount		2628.56
				3212.69
		6.75%	SALES TAX	136.66
			ESTIMATED TOTAL	3349.35

Ravin 3737

AUTHORIZTION _____ 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.

QES

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

TICKET NUMBER 54657
LOCATION Eldorado, KS
FOREMAN Jeremy Austin

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
8-18-14	8511	Chesney A 241	21	25	05	Butler

CUSTOMER: Jess oil Co
MAILING ADDRESS: 1700 waterfront Pkwy Bld 500
CITY: wichita | STATE: KS | ZIP CODE: 67206

TRUCK #	DRIVER	TRUCK #	DRIVER
866	Jeremy A		
446	Jeremy M		
667	Jude		

JOB TYPE Plug | HOLE SIZE | HOLE DEPTH | CASING SIZE & WEIGHT
CASING DEPTH | DRILL PIPE | TUBING | OTHER
SLURRY WEIGHT | SLURRY VOL | WATER gal/sk | CEMENT LEFT in CASING
DISPLACEMENT | DISPLACEMENT PSI | MIX PSI | RATE

REMARKS: Safety meeting hooked up to drill pipe pumped 35 sks on bottom then pulled up to 350' pumped another 35 sks then pumped 20 sks from 60' to surface then 20 sks in rat hole

ACCOUNT CODE	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CE0451	1	PUMP CHARGE	1900.00	1900.00
CE0002	4	MILEAGE	7.15	N/C
CE0411	1	min bulk delivery	660.00	660.00
CC5829	110	60/40 4%	16.00	1760.00
		Subtotal	=	4320.00
		Discount	45%	1944.00
		Total	SALES TAX	=
			ESTIMATED TOTAL	2376.00

Ravin 3737

AUTHORIZTION _____ 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.

ATTACHMENT TO ACO-1

Chesney A-241 – API #15-015-24087-0000
1000'FNL,2610'FEL
Sec. 21-25S-05E
Butler County, KS

DST#1 1370'-1459' Zone: Upper Douglas Sand
Times: 30-45-45-60
1st open: Weak blow building to Strong blow in 90 sec, BOB in 1-1/2 minutes- NO BB
2nd open: Weak blow building to Strong blow in 1 min. BOB in 1 minute (FS surface blowback during final shut-in period).
Rec.: 115' GIP (100% gas), 130' Oil spec Mud (100% mud, trace oil)
Tool: 4 % Oil, 96 % mud.
IHP: 643 FHP: 630
IFP: 23 FFP: 43
ISIP: 341 FSIP: 339 Temp: 96 degrees F

DST#2 2371'-2401' Zone: Uppermost Viola
Times: 30-45-45-60
1st open: ¼" in 30 min, ISI: No BB
2nd open: NO BLOW FSI: No BB
Rec.: 10' MUD
IHP: 1115 FHP: 1112
IFP: 26-25 FFP: 26-27
ISIP: 731 FSIP: 671 Temp: 108 degrees F

DST#3 2370'-2410' Zone: Upper Viola
Times: 30-45-45-60
1st open: BOB in 2 min.
2nd open: BOB in 3 min.
Rec: 1050' TF: 520' MCW (85% W) + 530' DM
TOOL: 7% mud & 93% water.
IHP: 1152 FHP: 1107
IFP: 74-295 FFP: 323-481
ISIP: 752 FSIP: 763 Temp: 107 degrees F

DST#4 2474'-2493' Zone: Lower Simpson & Uppermost Arbuckle

Times: 30-45-45-60

1st open: Weak Blow, bldg. to strong blow, BOB in five minutes. ISI: No BB

2nd open: Weak Blow, bldg. to strong blow, BOB in five minutes FSI: No BB

Rec: 955' TF; 10' oil on top, OCW and wtr below.

Tool: Oil & mud cut wtr. 1% oil, 95% water, 4% mud

IHP: 1184 FHP: 1160

IFP: 35 -211 FFP: 224 - 437

ISIP: 958 FSIP: 960 Temp: 110 degrees F

DST#5 2492'-2499' Zone: Arbuckle

Times: 30-45-45-60

1st open: BOB in 15 seconds . ISI: No BB

2nd open: BOB in 20 seconds FSI: No BB

Rec: TF 2165': 1855' O&MCW 2% oil, 95% water, 3% mud + 125' HMCW tr oil, 61% water, 39% mud + 185' oil & HWCM, 1% oil, 25% water, 74% mud.

Tool: 5% oil, 82% water, 13% mud.

IHP: 1187 FHP: 1169

IFP: 426 FFP: 899

ISIP: 964 FSIP: 973 Temp: 108 degrees F

Geo Samples

Admire 550'	520 +830
Admire 650'	619 +731
White CD LM	860 +490
White CD SD	871 +477
Oread	1336 +14
Heebner	1375 -25
Douglas SD	1448 -98
Iatan	1574 -224
Lansing	1653 -303
KC	1936 -586
Stark	2040' -690
B/KC	2100' -750
Checkerboard	2173' -823
Hepler SD	2205' -855
Altamont	2221' -871
Cherokee	2301' -951
Ardmore LM	2368'-1018
Viola	2398 -1048
Simpson SD	2420 -1070
Basal Simp SD	2488 -1138
Arbuckle	2491 -1141
PTD	2499 - 1150

TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Prepared For: **Vess Oil Corp.**

1700 Waterfront Parkway
Building 500
Wichit, KS 67206

ATTN: Casey Coats/Roger Ma

Chesney A #241

21-25S-5E Butler, KS

Start Date: 2017.08.13 @ 01:12:00

End Date: 2017.08.13 @ 08:03:20

Job Ticket #: 63585 DST #: 1

Trilobite Testing, Inc

1515 Commerce Parkway Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620

Printed: 2017.08.18 @ 14:37:58

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

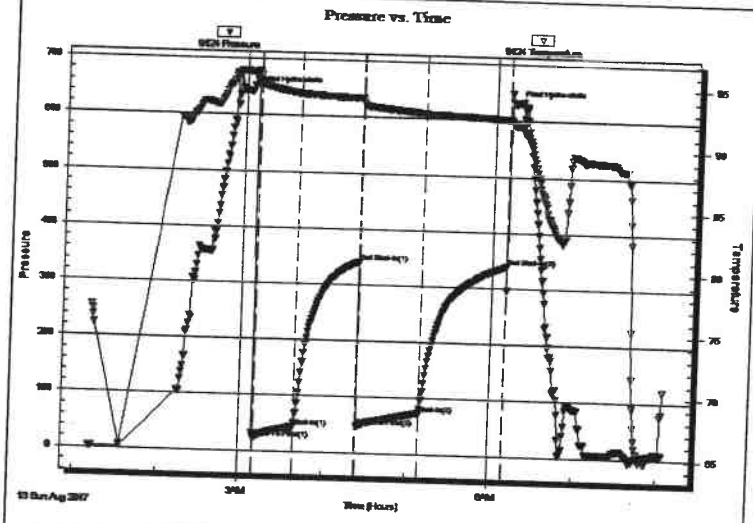
Interval: 1370.00 ft (KB) To 1459.00 ft (KB) (TVD)
Total Depth: 1459.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

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 in 90 seconds
FF - Weak blow building to strong blow in 1 minute
FS - Surface blow back during final shut-in period.



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' GIP 100% G	0.00
0.00	Tool Sample Oil cut mud 4% O & 96% M	0.00

Gas Rates

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

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

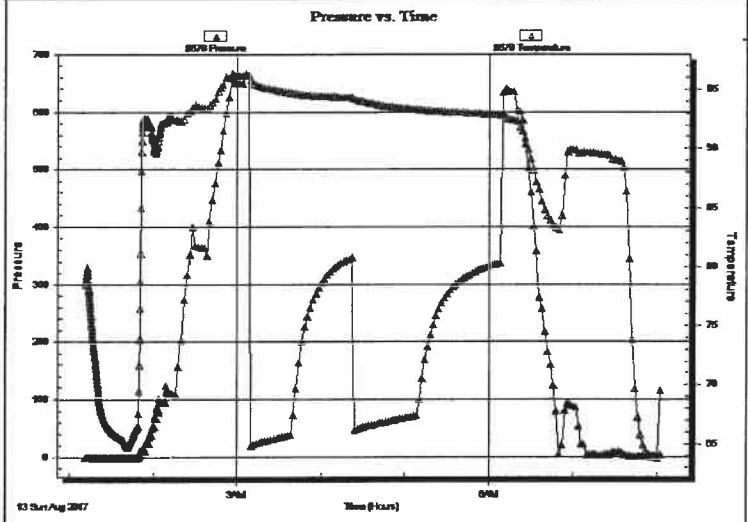
Interval: 1370.00 ft (KB) To 1459.00 ft (KB) (TVD)
Total Depth: 1459.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair

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 in 90 seconds
FF - Weak blow building to strong blow in 1 minute
FS - Surface blow back during final shut-in period.



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' GIP 100% G	0.00
0.00	Tool Sample Oil cut mud 4% O & 96% 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.

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

Tool Information

Drill Pipe:	Length:	1183.00 ft	Diameter:	3.34 inches	Volume:	12.82 bbl	
Heavy Wt. Pipe:	Length:	0.00 ft	Diameter:	inches	Volume:	0.00 bbl	
Drill Collar:	Length:	177.00 ft	Diameter:	2.25 inches	Volume:	0.87 bbl	
					Total Volume:	13.69 bbl	

Drill Pipe Above KB:	18.00 ft
Depth to Top Packer:	1370.00 ft
Depth to Bottom Packer:	ft
Interval betw een Packers:	89.00 ft
Tool Length:	117.00 ft
Number of Packers:	2 Diameter: 6.75 inches

Tool Weight:	2400.00 lb
Weight set on Packer:	24000.00 lb
Weight to Pull Loose:	36000.00 lb
Tool Chased	1.00 ft
String Weight: Initial	34000.00 lb
Final	36000.00 lb

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			1343.00		
Shut In Tool	5.00			1348.00		
Hydraulic tool	5.00			1353.00		
Jars	5.00			1358.00		
Safety Joint	3.00			1361.00		
Packer	4.00			1365.00	28.00	Bottom Of Top Packer
Packer	5.00			1370.00		
Stubb	1.00			1371.00		
Recorder	0.00	8679	Outside	1371.00		
Recorder	0.00	9124	Inside	1371.00		
Perforations	20.00			1391.00		
Change Over Sub	1.00			1392.00		
Blank Spacing	59.00			1451.00		
Change Over Sub	1.00			1452.00		
Perforations	2.00			1454.00		
Bullnose	5.00			1459.00	89.00	Bottom Packers & Anchor
Total Tool Length:	**117.00**					

DRILL STEM TEST REPORT

FLUID SUMMARY

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

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:	8.75 in³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psig		
Salinity:	1320.00 ppm				
Filter Cake:	inches				

Recovery Information

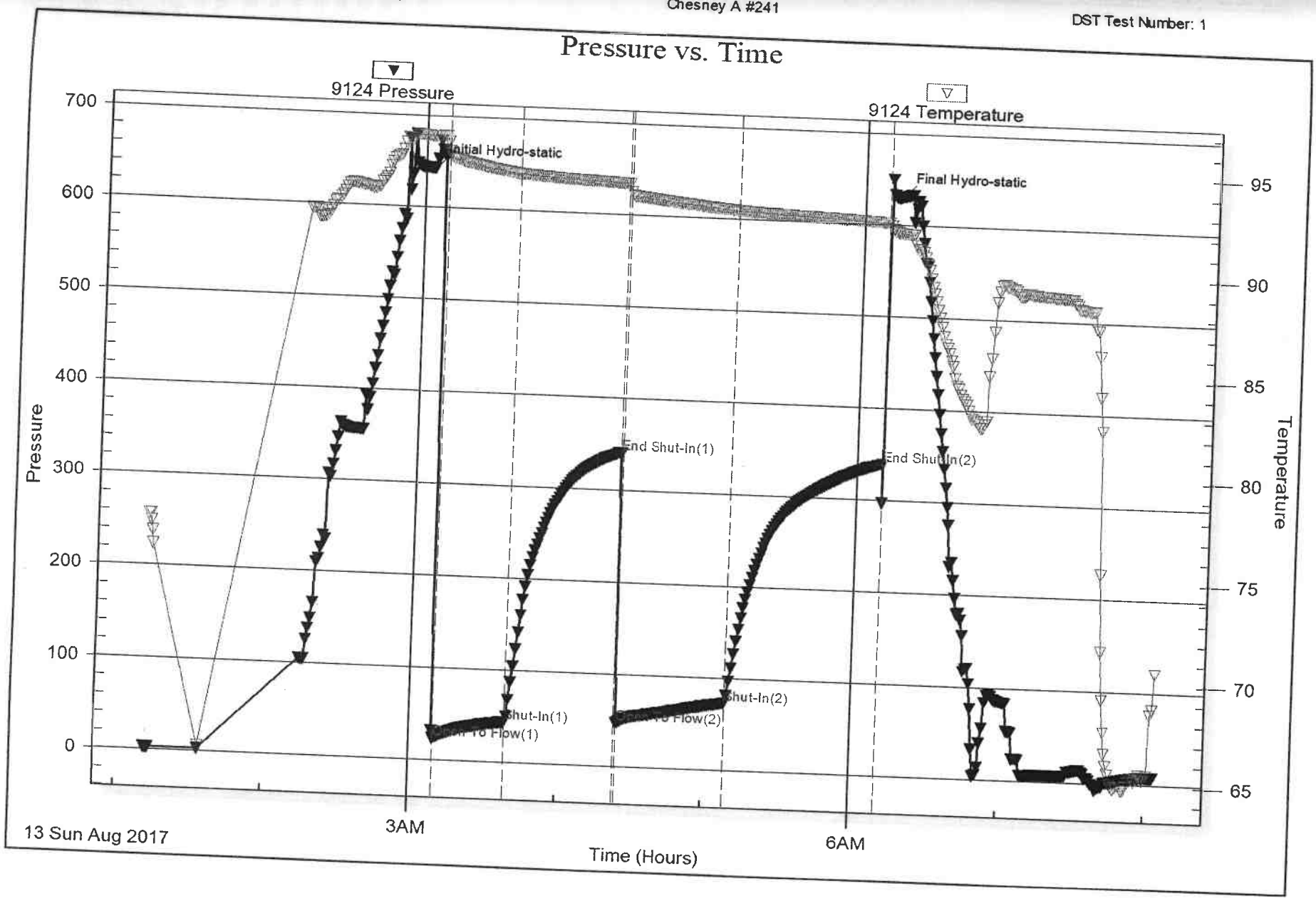
Recovery Table

Length ft	Description	Volume bbl
130.00	Slight oil spotted mud trace O & 100% M	0.639
0.00	115' GIP 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:

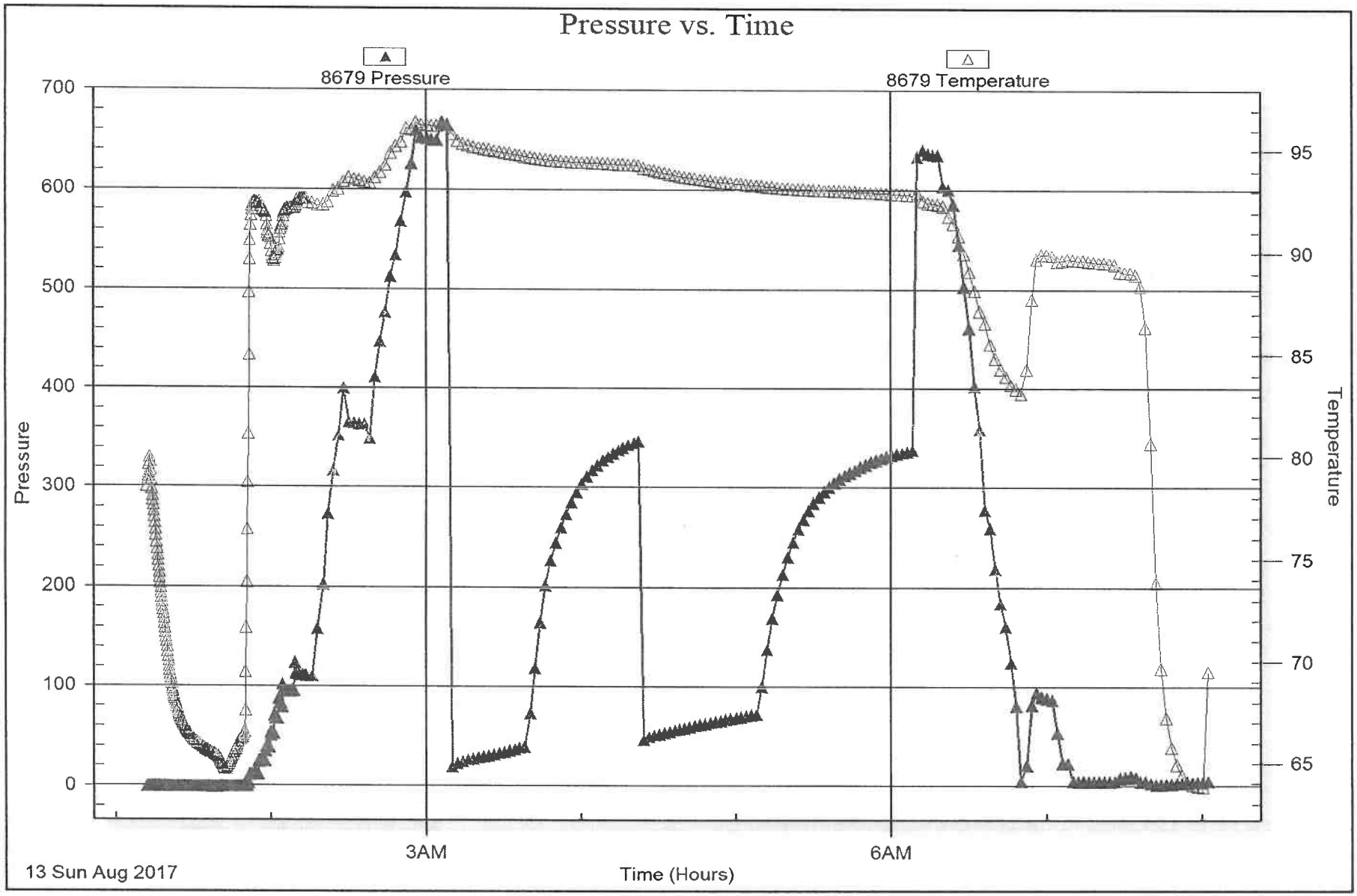
Serial #: 9124 Inside Vess Oil Corp. Chesney A #241 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63585

Printed: 2017.08.18 @ 14:37:59

Serial #: 8679 **Outside** Vess Oil Corp. Chesney A #241 DST Test Number: 1



Trilobite Testing, Inc Ref. No: 63585 Printed: 2017.08.18 @ 14:37:59

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

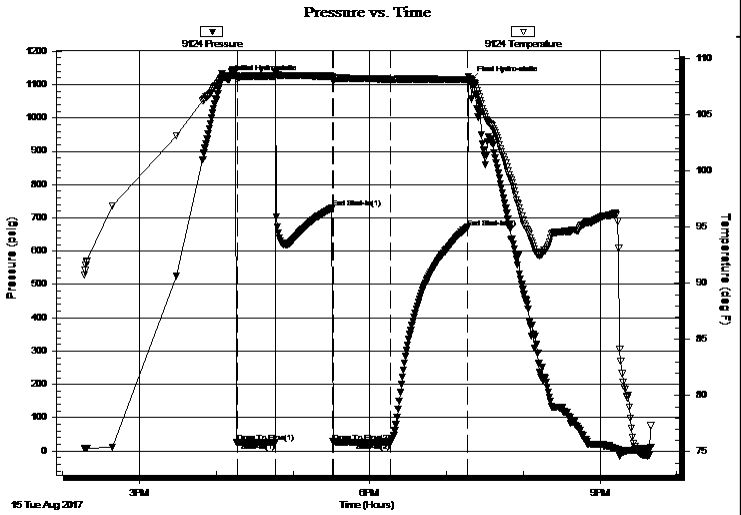
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 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

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

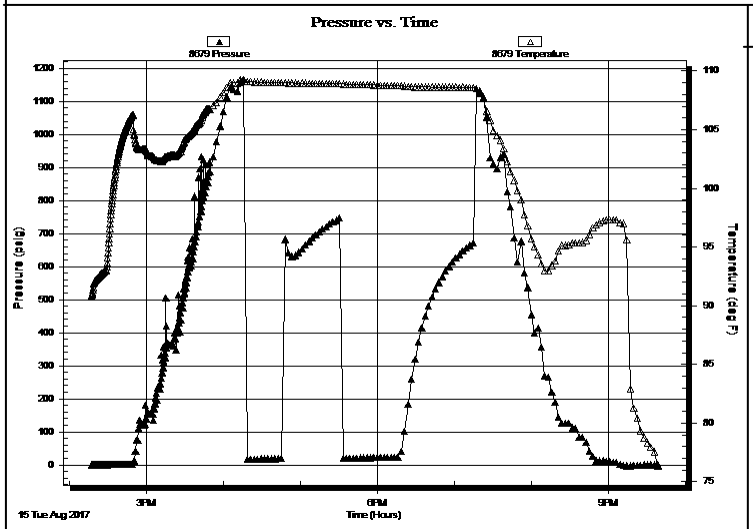
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 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

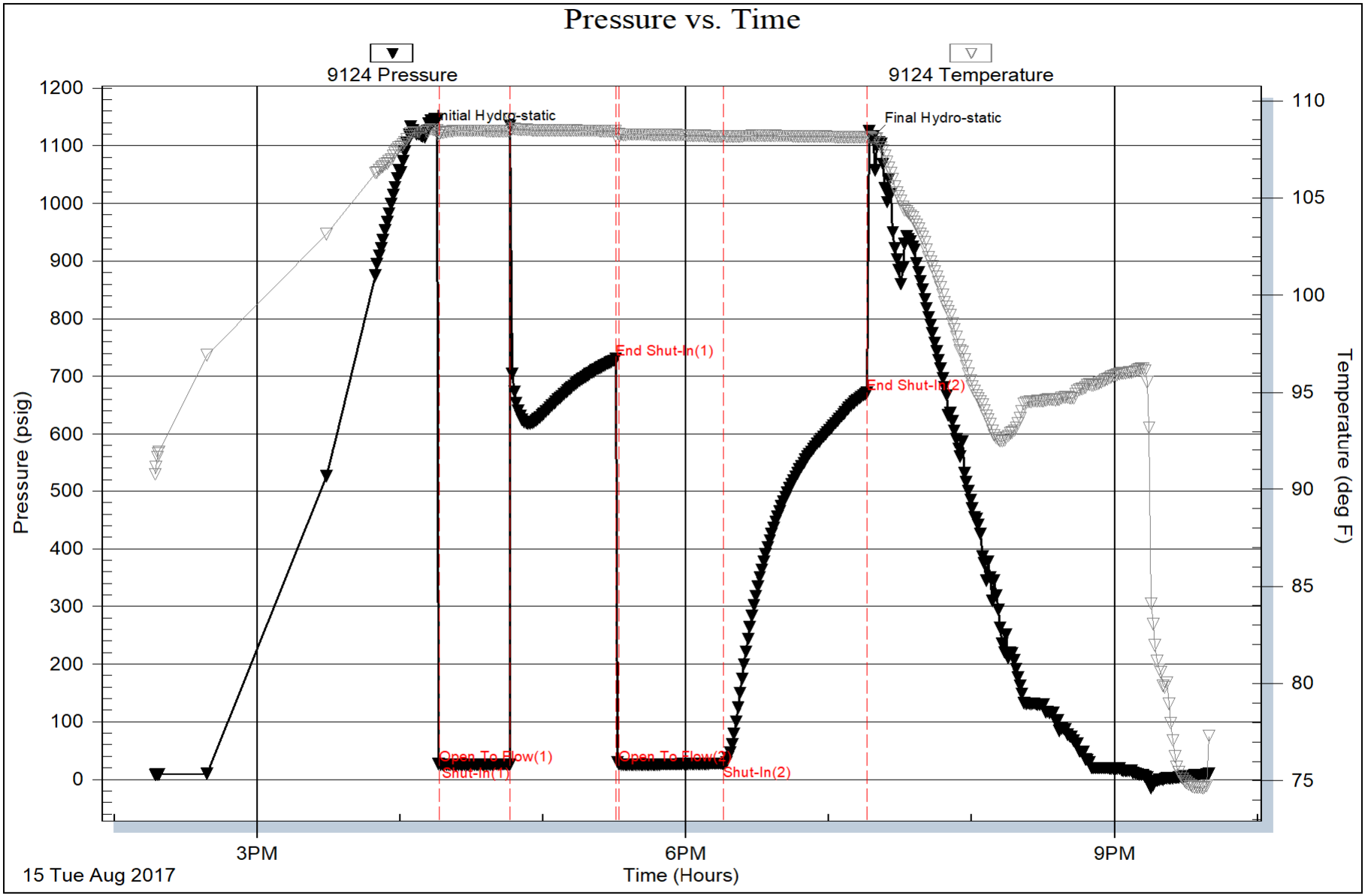
Recovery Table

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

Total Length: 10.00 ft Total Volume: 0.049 bbl

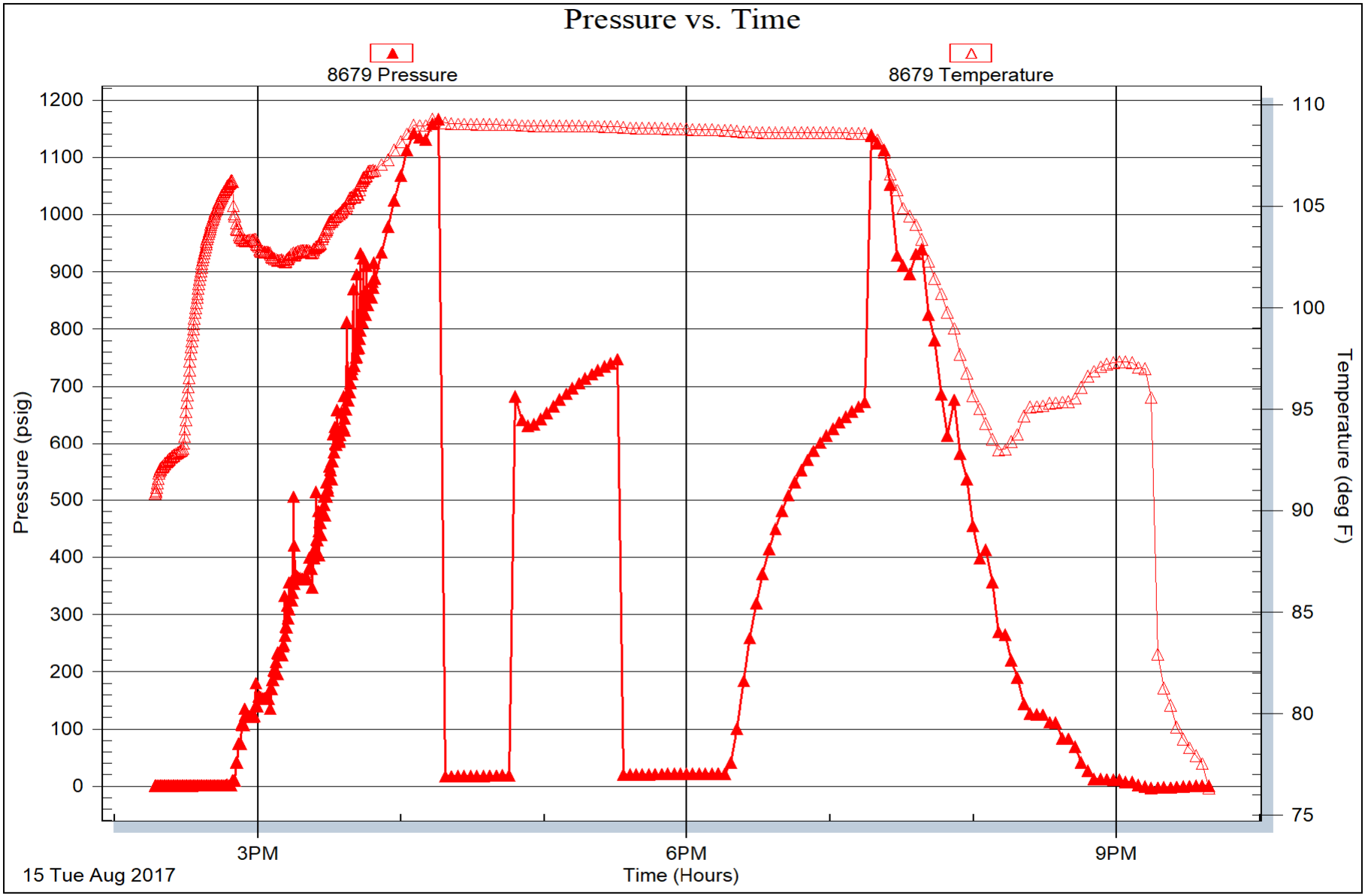
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 9124 **Inside** Vess Oil Corp. Chesney A #241 DST Test Number: 2



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

Serial #: 8679 **Outside** Vess Oil Corp. Chesney A #241 DST Test Number: 2



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

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: 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

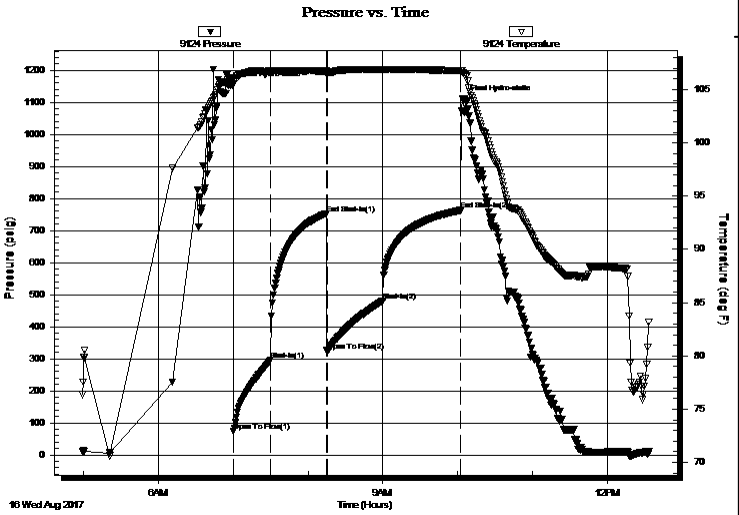
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

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
0.00	Tool Sample - mud cut water 7%M & 93%W	0.00

Gas Rates

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

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: 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

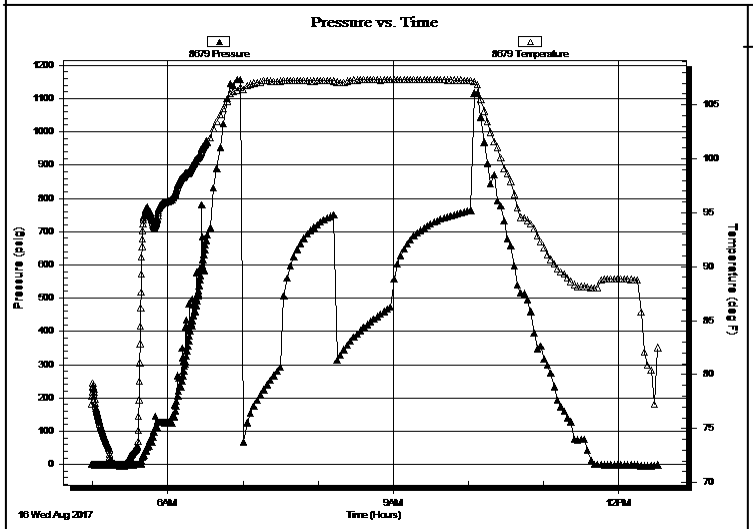
Interval: 2370.00 ft (KB) To 2410.00 ft (KB) (TVD)
Total Depth: 2410.00 ft (KB) (TVD)
Hole Diameter: 6.88 inches Hole Condition: Fair

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 water 7% M & 93% W.



PRESSURE SUMMARY

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

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
0.00	Tool Sample - mud cut water 7%M & 93%W	0.00

Gas Rates

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

DRILL STEM TEST REPORT

FLUID SUMMARY

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: 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 water 15% M & 85% W	4.238
530.00	Drilling mud 100% M	5.744
0.00	Tool Sample - mud cut water 7%M & 93%W	0.000

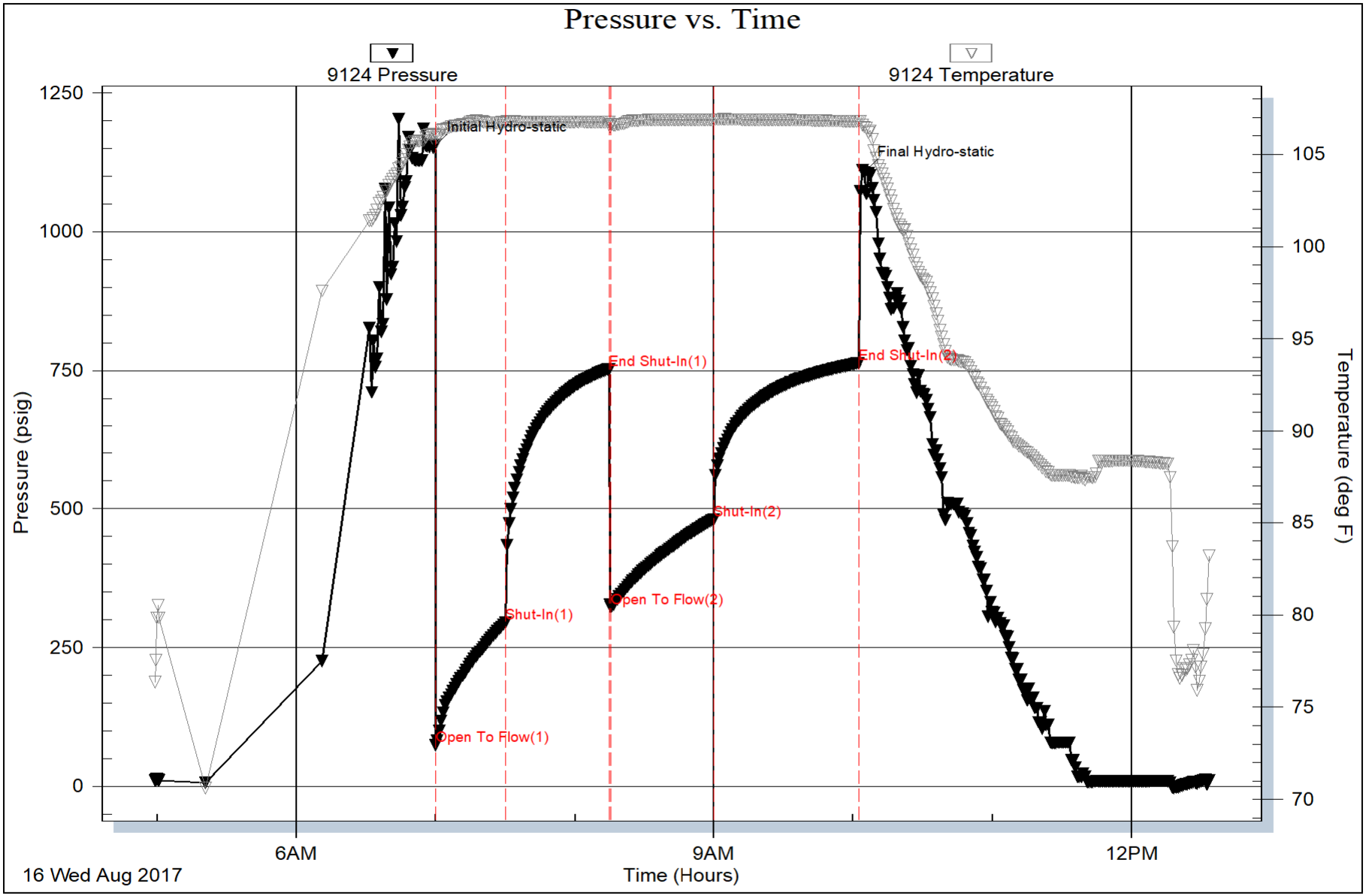
Total Length: 1050.00 ft Total Volume: 9.982 bbl

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

Laboratory Name: Laboratory Location:

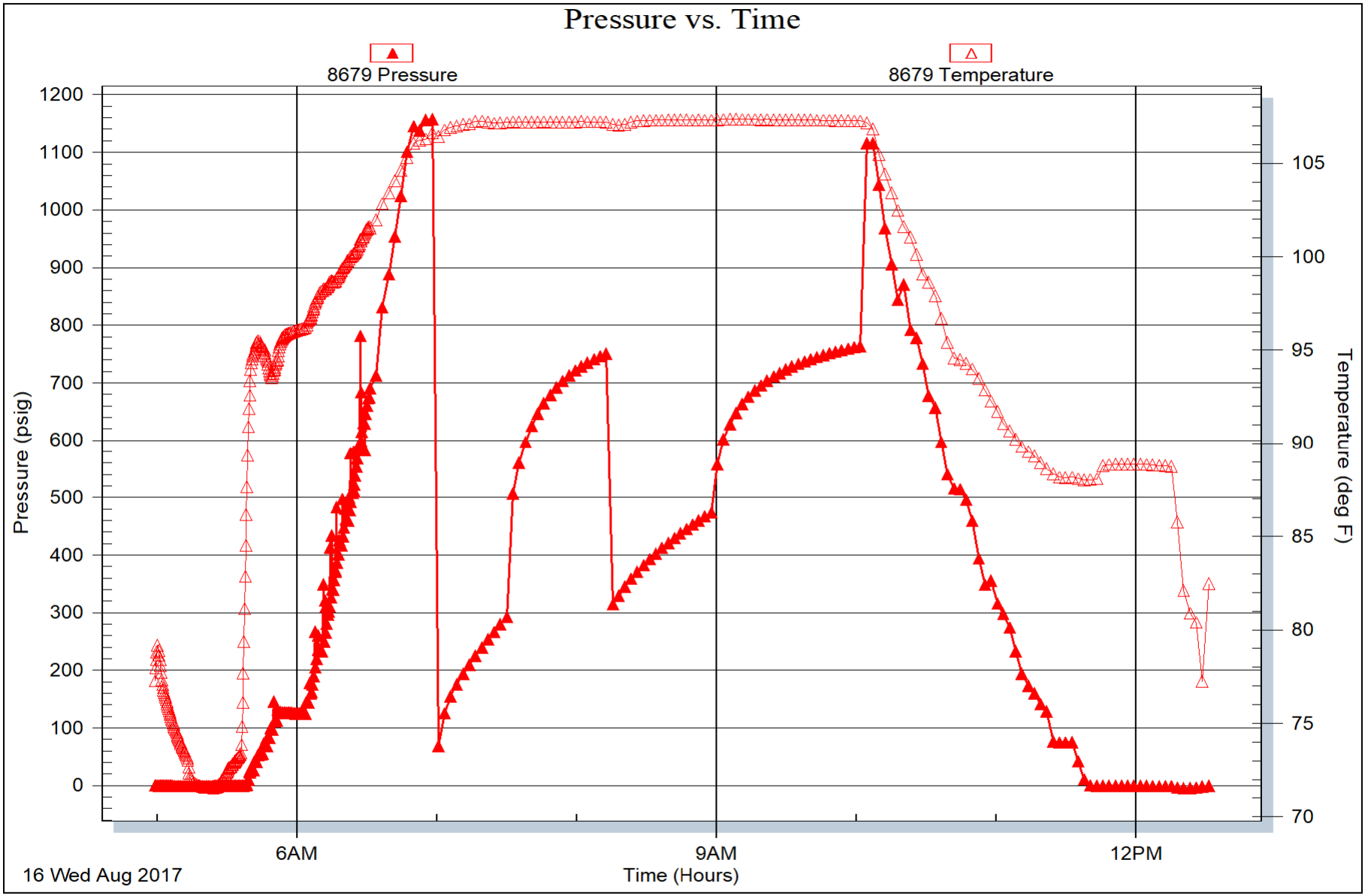
Recovery Comments:

Serial #: 9124 **Inside** Vess Oil Corp. Chesney A #241 DST Test Number: 3



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

Serial #: 8679 **Outside** Vess Oil Corp. Chesney A #241 DST Test Number: 3



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

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

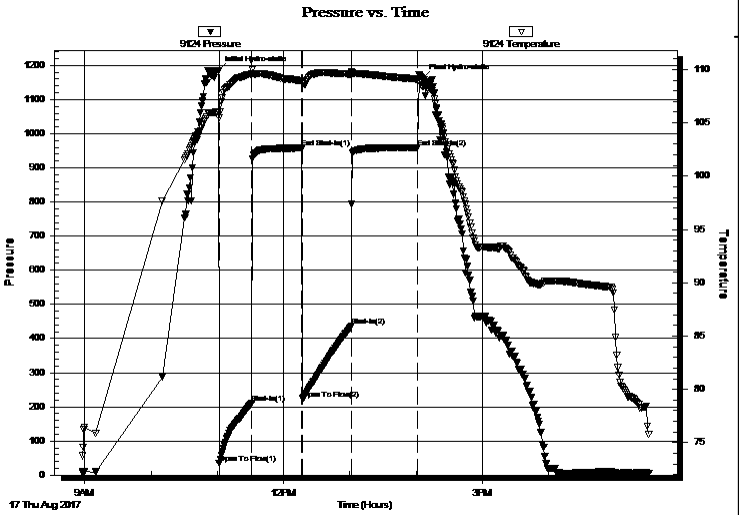
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

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

Gas Rates

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

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

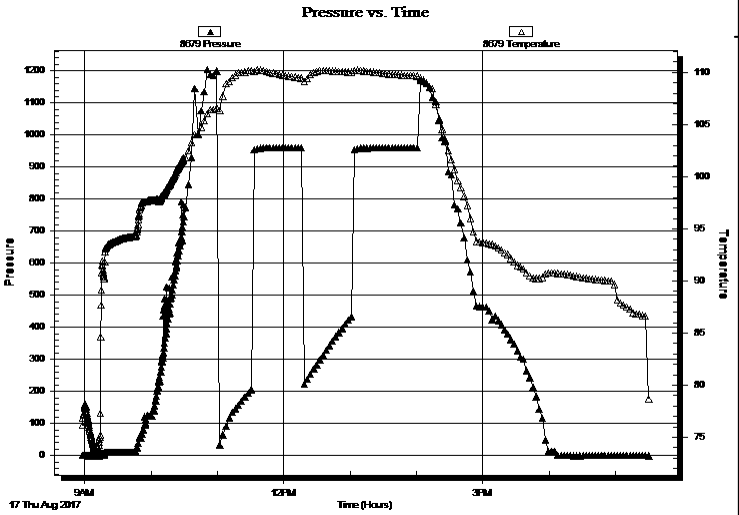
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

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

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: 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

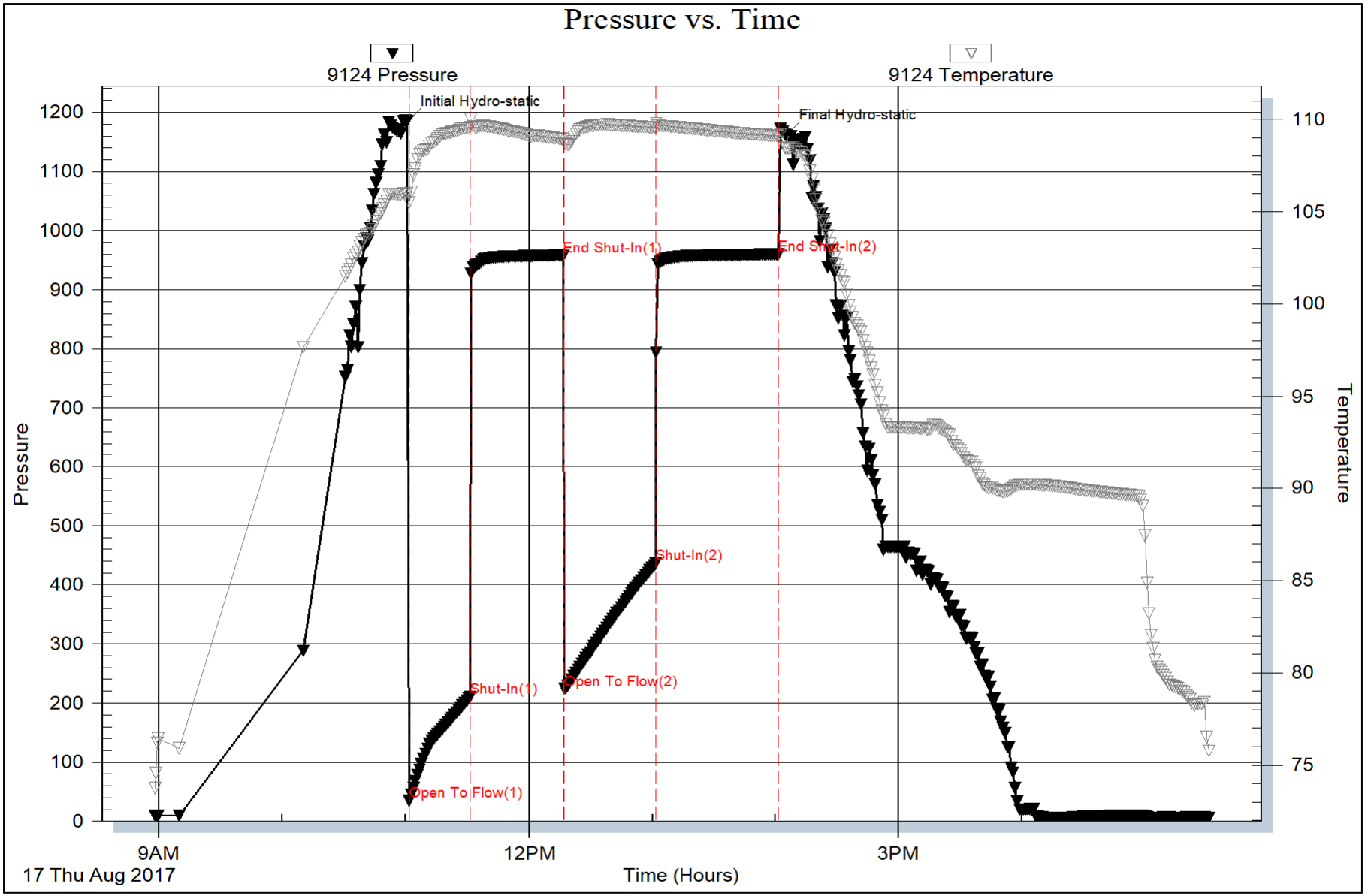
Recovery Table

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

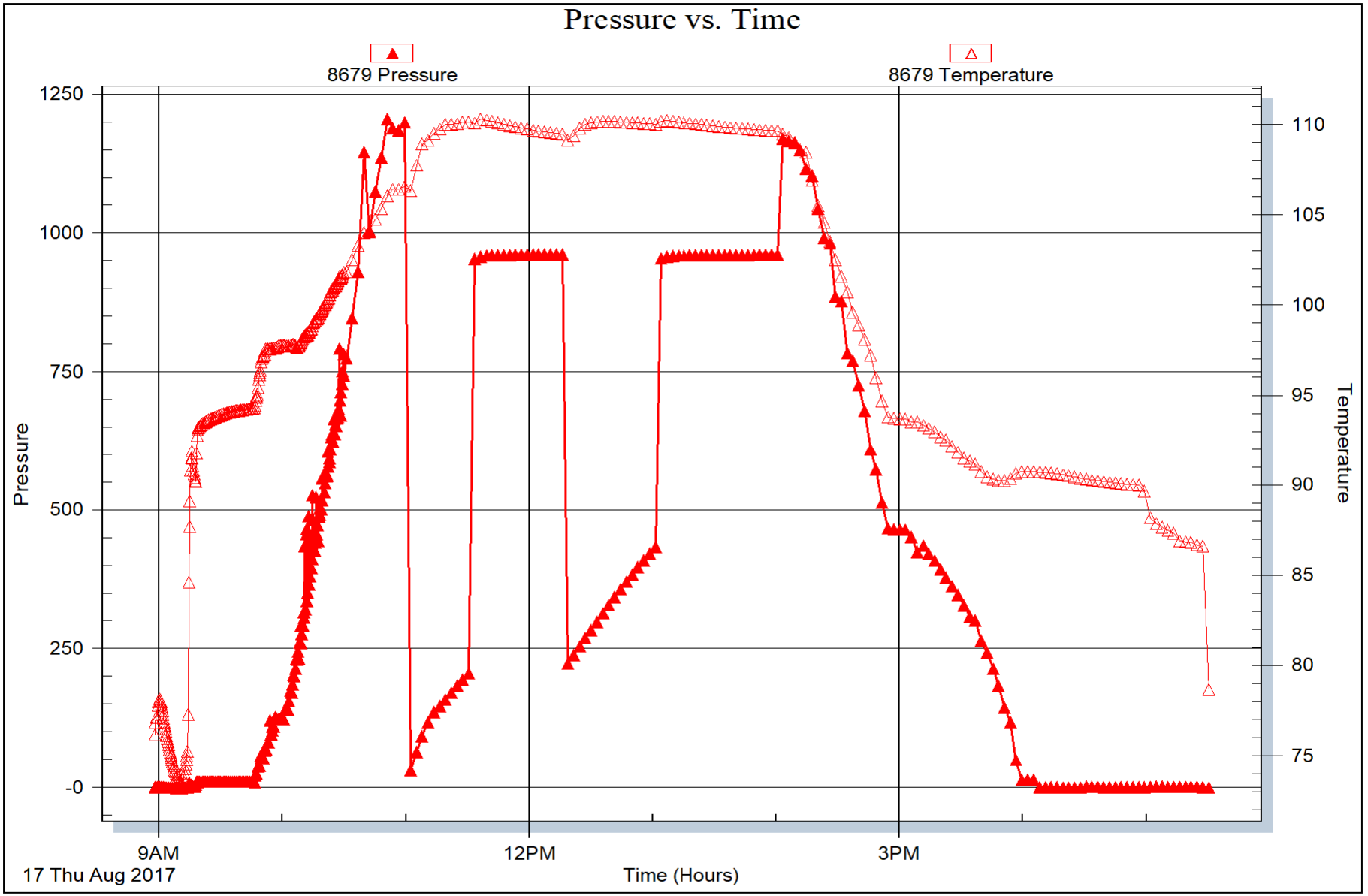
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 9124 **Inside** Vess Oil Corp. Chesney A #241 DST Test Number: 4



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

Serial #: 8679 **Outside** Vess Oil Corp. Chesney A #241 DST Test Number: 4



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

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

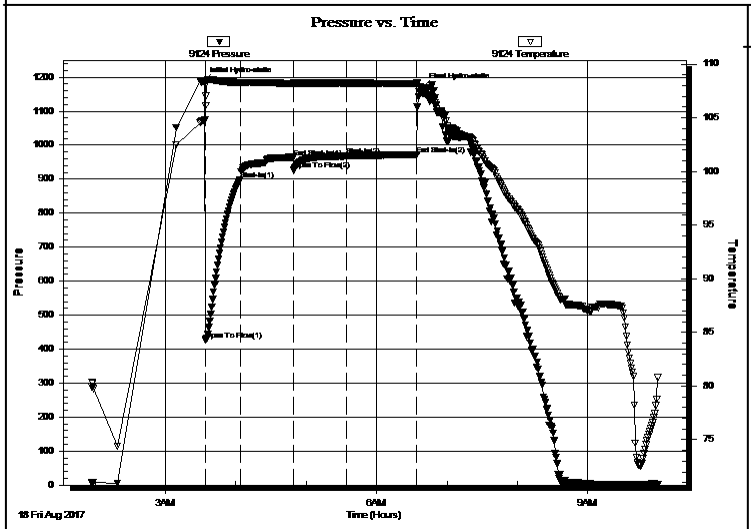
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

Serial #: 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
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

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: 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

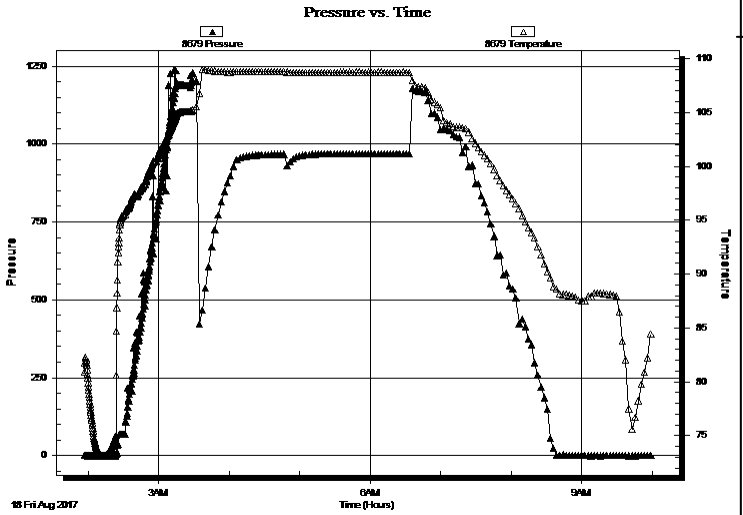
Reference Elevations: 1353.00 ft (KB)
1347.00 ft (CF)
KB to GR/CF: 6.00 ft

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
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

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: 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

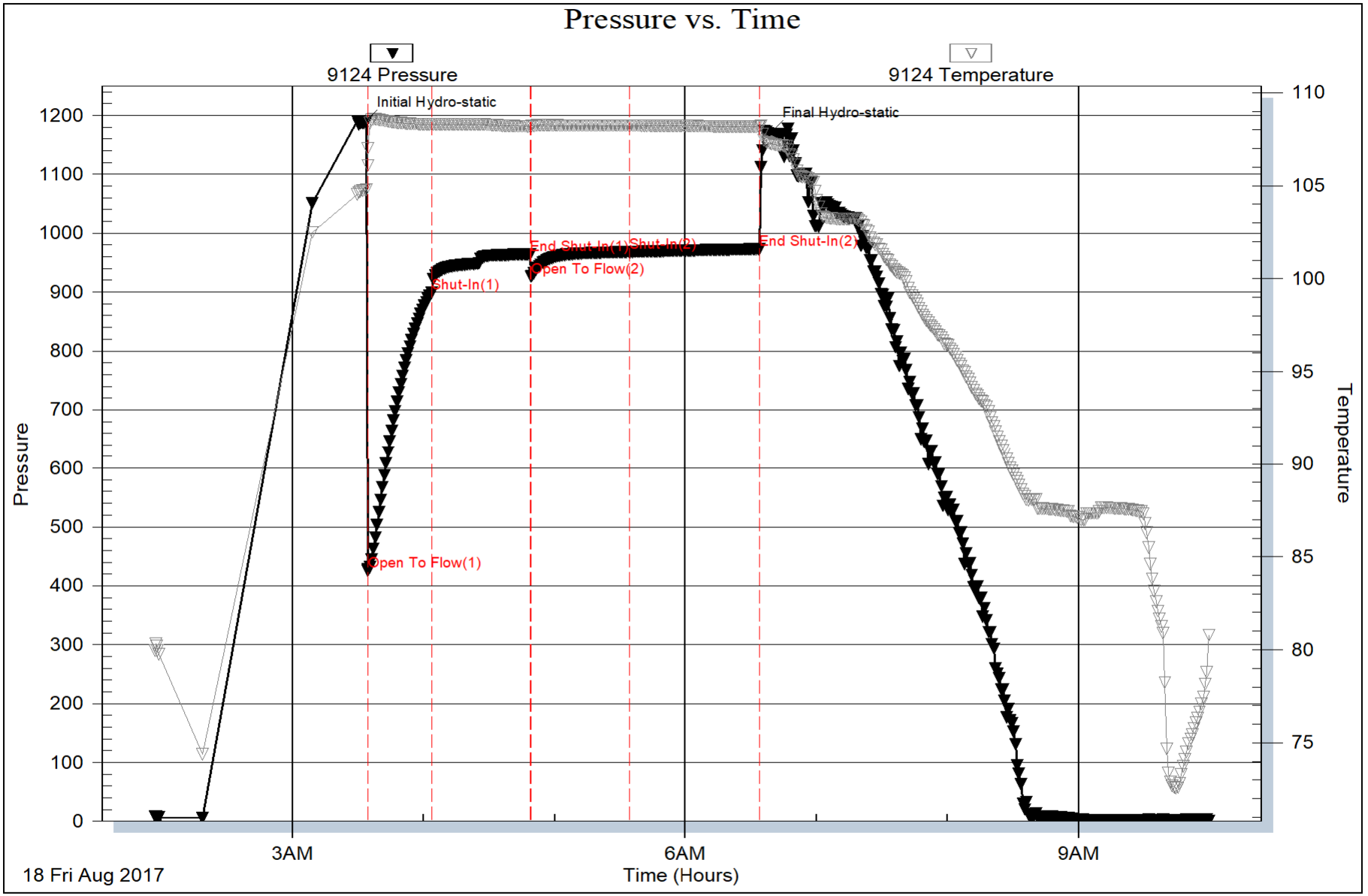
Total Length: 2165.00 ft Total Volume: 22.065 bbl

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 Number: 5



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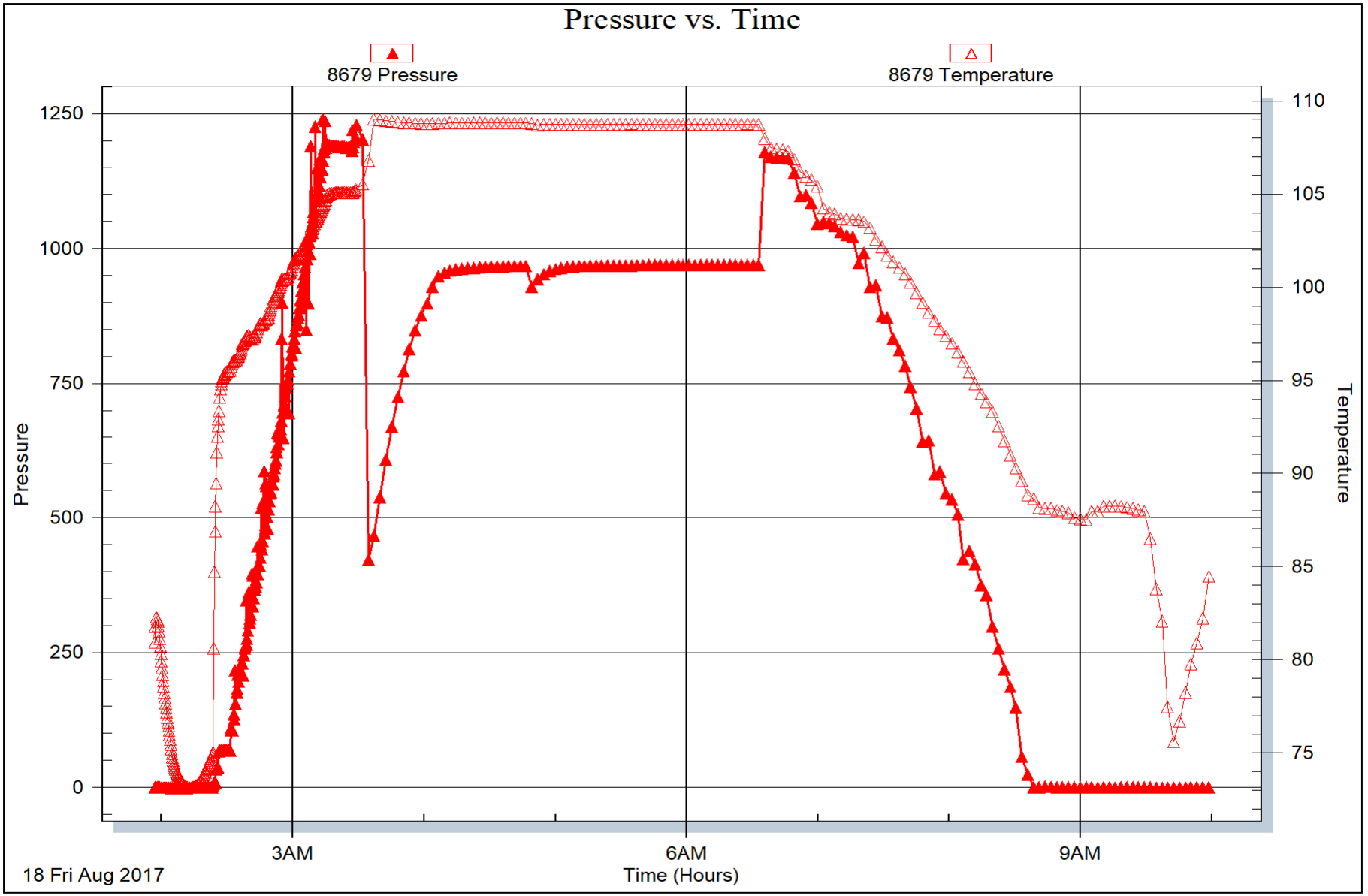
Serial #: 8679 **Outside** Vess Oil Corp. Chesney A #241 DST Test Number: 5



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