KOLAR Document ID: 1473049

Confident	tiality Re	equested:
Yes	No	

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1 January 2018 Form must be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM

WELL	HISTORY -		WELL &	IEASE
VVELL	nisioni ·	DESCRIP	WELL Q	LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
Address 2:	Feet from Dorth / South Line of Section
City: State: Zip:+	Feet from East / West Line of Section
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	
CONTRACTOR: License #	GPS Location: Lat:
Name:	(e.g. xx.xxxx) (e.gxxx.xxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well Re-Entry Workover	Field Name:
	Producing Formation:
	Elevation: Ground: Kelly Bushing:
Gas DH EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	Multiple Stage Cementing Collar Used? Yes No
Cathodic Other (Core, Expl., etc.):	
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	
Well Name:	feet depth to:w/sx cmt.
Original Comp. Date: Original Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Produc	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	
EOR Permit #:	
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	— Quarter Sec TwpS. R East West
Recompletion Date Recompletion Date	County: Permit #:

AFFIDAVIT

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

Submitted Electronically

KCC Office Use ONLY				
Confidentiality Requested				
Date:				
Confidential Release Date:				
Wireline Log Received Drill Stem Tests Received				
Geologist Report / Mud Logs Received				
UIC Distribution				
ALT I II III Approved by: Date:				

KOLAR Document ID: 1473049

Operator Name:	Lease Name: V	Nell #:
Sec TwpS. R East _ West	County:	

Page Two

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 (Attach Additional Sh	acate)	Y	′es 🗌 No			og Formatio	n (Top), Depth a	and Datum	Sample
Samples Sent to Geolo			⁄es 🗌 No	1	Name	Э		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:		□ Y □ Y	Yes ☐ No Yes ☐ No Yes ☐ No						
		Rep	CASING ort all strings set-c] Ne	w Used rmediate, productio	on. etc.		
Purpose of String	Size Hole Drilled	Siz	ze Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
[ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose:	Depth Top Bottom	Туре	e of Cement	# Sacks Use	d		Type and	Percent Additives	
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the Was the hydraulic fracture 	total base fluid of the	hydraulic fr	acturing treatment		-	☐ Yes ns? ☐ Yes ☐ Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Date of first Production/Inj Injection:	jection or Resumed Pr	oduction/	Producing Meth	iod:		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITIO	N OF GAS:		Ν	IETHOD OF COM	MPLE	TION:		PRODUCTIC Top	DN INTERVAL: Bottom
Vented Sold (If vented, Subn	Used on Lease		Open Hole		-	·	nit ACO-4)	юр	Bollom
	foration Perform Top Botto		Bridge Plug Type	Bridge Plug Set At		Acid,		ementing Squeezend of Material Used)	
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	Vess Oil Corporation
Well Name	ENYART A 117
Doc ID	1473049

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	23	254	Class A	150	3% cc

INDEPE		R L. MART eum geologist	
		FIST'S REF ME AND SAMPLE	
COMPANY VESS OIL COR	PORATION		ELEVATIONS
LEASE ENYART A 117	KB <u>1412'</u> GL <u>1403'</u>		
FIELD EL DORADO			
LOCATION 2160' FSL & 430' FWL			From KB
SECTION ¹² TOWNSHI	P <u>26S</u> F	ANGE <u>04E</u>	API # <u>15-015-24128-0000</u>
COUNTY BUTLER			
CONTRACTOR C&G DRI	CASING		
SPUD <u>08/15/2019</u>	SURFACE 6 jts 8 5/8" 23#/ft LS		
22901	COMP <u>08/18/20</u> LTD <u>N/A</u>		casing set @ 254' w/150 sx
RID	PRODUCTION N/A-P&A		
ELECTRIC No Open Hole E-logs	CAL SURVEYS		
FORMATION TOPS	LOG	SAMPLES	CHRONOLOGY
OREAD		1378' (+34)	08/14/2019- Finish MIRU C&G Drilling, Rig #2
HEEBNER		1417' (-5)	08/15/2019- SPUD well, DTD 268', CTCH, POOH. Run 6 jts 8 5/8", 23#/ft LS casing. Set casing @
LANSING		1676' (-264)	254', mixed & pumped 150 sx cement & Circ to pits. Plug down @ 5PM.
KANSAS CITY		1973' (-561)	08/16/2019- Drilled out under surface. DTD 935'
BASE KANSAS CITY		2138 (-726)	@ 7:40AM.
CHECKERBOARD		2205' (-793)	08/17/2019- DTD 2225' @ 7:45AM. Bit Trip @ 2274'. RIH w/ tri-cone bit. Mud wt 9.5 ppg,
HEPLER SAND		NONE	35 vis, 1# LCM.
ALTAMONT PAWNEE		2244' (-832) 2287' (-875)	08/18/2019- DTD 2380', Run DST #1- Arbuckle. Mud wt 9.3 ppg, 50 vis, 1# LCM. Prepare to P&A well. MIRU HSI.
CHEROKEE		2318' (-906)	weit. MIKU FISI.
ARDMORE		NONE	
ARBUCKLE		2375' (-963)	
RTD/LTD		2380' (-968)	
REMARKS:		#117 test well. pectfully submitted, ger L. Martin, Geologist (wellsite)	
LITH ROBOSTY DELLINGTIME DSI	SAMPL	E DESCRIPTION	REMARKS

5 10	1200	1231' SPL- SH: gy-blk, Vgt'd.	
5 10		LS: cm-tn, ux- fnx & Pkst- Wkst, sm wh-chlky, sm Pr- Fr Poro, VRr Gd Poro, NS.	
		SH: Vgt'd, AA, sm pyrtc, Pred gy-blk.	
		1262' SPL- LS: cm-bf-gy, ux & Mdst, sm argil- shly, Pred VPr- NV	
-C-		Poro, NS.	
		SH: Pred gy-blk, sm blk carb.	
Q	1250		
-c-		1294' SPL- Abndt SH: >50%, Pred gy-blk, sm calc & lmy.	
		& LS: cm-gy-tn, mot Pkst & Wkst, & semichlky w/VPr- NV Poro, NS.	
		sm blk carb SH.	
		1226'SPI IS: av argil Mdst Wkst Pkst	

-C-		sm blk carb SH. 1326' SPL- LS: gy, argil Mdst- Wkst, Pkst. & SH: gy, sm calc & lmy.		
0 5 10	1300	50% LS: cm-gy-tn, Pred mx- dn & Wkst w/Pr- NV Poro, NS. 1357' SPL- VAbndt LS: cm-tn-gy, mot Wkst- Pkst, sm wh-chlky, sm Pr- Fr Poro: pp Poro & uIGr Poro, NSO.		
-C-		sm LS, AA; NSO.		
5 10	1350	1389' SPL- Iners SH: Pred gy-blk, Rr pyrtc. (~40% SH) sm LS: cm-bf-tn, ux & Mdst- Wkst w/Pred Pr- NV Poro, NSO.		
-C-		1420' SPL- ~ 10% SH: AA.		
- <i>C</i> -		(OREAD) ~90% LS: wh-tn, prt chlky Wkst & Pkst & ux- fnxln- sm 2nd ReX, VRr mdx- 2 ReX, sm Pr- Fr Poro: uIGr & uIX Poro, NSO.	1378' (+34) OREAD	
d 5 10	1400	LS: cm-tn, ux- fnxln, sm wh- chlky & sm Wkst- Pkst, sm Pr- Fr visbl Poro: pp- vug Poro, IX Poro, IGr Poro, NSO.		
-0-		1452' SPL- (HEEBNER) sm blk carb & subcarb SH. sm gy, argil- dn LS- Mdst w/ NV Poro. Shrp Incrs gy-blk SH.	1417' (-5) HEEBNER	
	1450	1484' SPL- VAbndt LS: cm-bf-tn, ux- Rr fnx, sm fos- grnlr Pkst, sm semi chlky- wh; sm Pr- Fr Poro: pp- vug Poro, fos mold Poro, uIGr Poro, uIX Poro, NSO. (Rr LS: AA, NSO)		
• 5 - C - 10		1515' SPL- Abndt SH: dk gy- md gy, sm calc & lmy, sm blk carb SH.		
-C-		& LS: cm-gy-bf, ux, dn & Mdst w/ Pred Pr visbl Poro- NV Poro, NSO.		
0 5 10	1500	1547' SPL- VAbndt (~>95%) SH: dk gy-blk, sm pyrtc, Rr blk crb, sm calc & lmy SH.		
-C-		1578' SPL- SILTS & SILTY SH: dk-lt gy, micac, sm sndy: Vfn Gr'd, Abndt calc & Rr lmy SILTS & SHL. VRr argil- dn LS.		
-C-	1550			
o 5 10		1611' SPL- sm cale SILTS & SILTY SH, & Abndt SH: gy-blk, subcarb to carb fiss.		
-C-				
5 10 -c-	1600	 (IATAN) <10% LS; tn-wh, mot Wkst- Pkst, prt chlky, Pr- Fr Poro, NS. 1642' SPL- Abndt (>60%) LS: cm-tn & wh mot Wkst- Pkst & ux-Vfnxln, prt chlky, sm Pr IGr & IX Poro & pp Porp, NSO. & ~40% SH: gy-blk & gn-gy, Rr blk carb. 		
-C-				
-C-	1650	1674' DRLG SPL- LS: cm-tn, prt wh-chlky, Wkst- Pkst, ux- fnxln, sm Pr- Fr pp Poro, uIX Poro, IGr Poro, NSP, sm dn & Mdst w/ VPr- NV Poro, NS. sm SH: (~20%) gy-blk.		
5 10		sm SH: (~20%) gy-blk. 1674' 15 MIN CIRC SPL- VAbndt SH: (>80%) Pred gy-blk, sm calc & Imy, Rr LS, AA & tn-gy-bn, ux- fnx- dn & argil.		
-cCFS-15"		1706' DRLG SPL- (LANSING) Abndt LS: (~70%) wh-gy-bf w/ Tn STN, prt chlky, mot Wkst- Pkst & ux- fnxln, Pr- Fr Poro: uIGr Poro, IX Poro, pp Poro, ~ 30-40% w/ FLR Poro & Edgs- uFrc, VSI- SI SFO, SI- Fr mlky Cut, Fr odor, VRr mdx- crsx- 2nd ReX & VRr Gd Poro w/sat OSTN & FLR, Fr SFO & Cut.	1676' (-264) LANSING VSI- SI SFO	
⁰ .cĈFS-15" ¹⁰	1700	1706' 15 MIN CIRC SPL- LS: wh-gy-bf, Tn OSTN , prt chlky		
		1737' DRLG SPL~30% w/ spt'd- subsat FLR, STN, SI- Fr SFO, Fr mlky Cut. VRr Gd Poro: vug, moldc & IX Poro w/ subsat- sat STN- FLR, Fr SFO- Cut, Fr odor.		
-cCFS-15"		1737' 15 MIN CIRC SPL-~60% LS: wh-gy-tn, Wkst-Pkst & ux- fnxln w/Pred Pr- NV Poro. ~25% w/spt'd- subsat FLR- STN & SI- Fr SFO & Cut w/ Pr- Fr Poro: IX Poro, IGr Poro, pp Poro. Trc sat STN- Fr SFO- Cut. 1760' DRLG SPL-~80% LS: wh-bf-gy, prt chlky, Wkst-Pkst & ux- fnxln, Pred Pr- Fr Poro: pp Poro, IGr Poro, IX poro, VRr Gd visbl Poro. 1760' 15 MIN CIRC SPL-~10% w/ subsat FLR &	Sl- Fr SFO	
5 10	1750	visbl Poro. 1760' 15 MIN CIRC SPL- ~10% w/ subsat FLR & STN, SI SFO & SI Odor, Trc VGd IX Poro & vug Poro w/ SFO- sat STN & Cut. 1801' SPL- LS: Rr Pkst- fos & ux- fnxln w/ Pr- Fr Poro, AA. <5%	SI SFO	
-C-		w/ FLR- SFO & spt'd- sat STN, AA. Pred LS: tn-gy-wh, dn- ux & prt chlky w/ VPr- NV Poro & barren.		
	1800	 1832' SPL- LS: AA, Pred dn, VPr- NV Poro, Pred >95% barren. LS: VRr Tn OSTN & gy-wh, ux- Vcrsx- 2Rx, <5% w/spt'd-subsat FLR, subsat- sat STN, VSI SFO, VSI- Fr Cut, VSI Odor . 	VSI SFO	
		Pred LS: gy-tn-wh, dn Mdst- Wkst & ux- fnx w/ Pred Pr- NV Poro & barren.		
-c-		1864' SPL- ~40% LS: AA, Trc LS, AA w/ Poro, SFO- STN- FLR- Cut. Abndt (~60%) SH: Pred dk-md gy, sm cale & silty.		
0 5 10 -c-	1850	1895' SPL- >80% SH: Pred dk gy, sm calc. (sm LS, AA)		
- c - 0 5 10	1900	1927' SPL- >90% SH: Pred dk gy, sm calc. (Rr LS, AA)		
-C-		1958' SPL- >95% SH: md-dk gy, sm calc.		
	1950			
0 5 10 -c-	1950	1990' DRLG SPL- >90% SH: AA, Pred gy-blk, sm calc.		
		10% (KANSAS CITY) LS: gy-wh, sm w/ Tn OSTN, Wkst-Pkst, fos & ux- mdx- 2Rx, Pr- Fr Poro, sm IX Poro, IGr Poro, ~5% LS w/ FLR, VSI SFO, spt's- sat STN, VSI- Fr Cut, Odor, sm chlky & sm dn. 1990' 15 MIN CIRC SPL- SI Incrs LS: >10% <20% w/ FLR, VSI SFO, SI Odor, spt'd- sat OSTN, SI- Fr Cut, Odor.	1973' (-561) KANSAS CITY VSI SFO VSI SFO	
e- - CFS-15'' 0 5 10	2000	 2022' DRLG SPL-~50% LS: wh-gy, sm Tn OSTN, ~20% w/ Fr-Gd Poro: IX Poro, IGr Poro, pp Poro, ux-fnxln & Vfnly Gr'd Pkst-Trc Grst, sm chlky, Sl Cherty, >10% <20% w/ spt'd- sat STN. 50% LS: ~10% w/ spt'd- sat FLR, VSI SFO, Sl- Gd Cut, Odor. LS: AA, Pred chlky & subchlky & barren. VRr Pr- Gd Poro: IGr Poro, IX Poro, pp Poro. ~60% LS, ~5% w/ FLR, spt'd- sat lt Tn Prov. Mark and Mark a	VSI SFO	
-CFS-15"		STN, VSI- SI SFO, VSI Odor, SI- Gd Cut Abndt barren LS, SI Cherty. 2022' 15 MIN CIRC SPL- LS: wh-bf-gy w/ Rr Tn OSTN, prt chlky & subchlky Wkst- Pkst & ux- fnx w/ VRr Fr- Gd Poro: pp Poro, IGr Poro, IX Poro, >60% LS w/ <10% w/ spt'd- sat STN, FLR, VSI SFO, VSI Odor, SI- Gd Cut.	VSI- SI SFO VSI SFO	
	00-	2053' DRLG SPL- LS: AA, prt chlky Wkst- Pkst. ~70% LS, ~10% Pr- Fr vibl Poro: pp Poro, IGr Poro, IX Poro, w/ subsat- sat FLR- STN- SI- Gd Cut- VSI- SI SFO, VSI Odor, Trc sat STN. 2085' DRLG SPL- ~40% LS: wh-gy-tn, prt chly Wkst- Pkst, Pr- Fr	VSI- SI SFO	
0 cCFS-15" 10	2050	2085' DRLG SPL- ~40% LS: wh-gy-tn, prt chly Wkst- Pkst, Pr- Fr Poro, Trc Gd Poro: pp Poro, IGr Poro, mldc Poro, <5% w/ spt'd STN- FLR- VSI SFO . ~60% SH: gy, sm blk carb (~10%). 2085' DRLG SPL- ~40% LS: wh-gy-tn, prt chly Wkst- Pkst, Pr- Fr Poro, Trc Gd Poro: pp Poro, IGr Poro, mldc Poro, <5% w/ spt'd STN- FLR- VSI SFO . ~60% SH: gy, sm blk carb (~10%). 2085' 15 MIN CIRC SPL- ~50% SH, AA. ~50% LS: ~5% w/ FLR- VSI SFO , AA. sm blk carb SH. 2116' DRLG SPL- (STARK) SH:	VSI SFO VSI SFO	
		~20% Frly abndt blk carb SH. Abndt LS: ~70%. ~30% w/ Poro, spt'd- sat FLR, VS- SI SFO & Cut. Abndt (~70%) LS: ~30% w/ Poro, spt'd- sat FLR- VSI- SI SFO & Cut. LS: wh-gy-bf, sm chlky Wkst- Pkst, fos & ux- fnx, pp Poro, IGr Poro, IX Poro, VRr mldc Poro, ~10% w/ spt'd- sat Lt Tn STN, Trc Gd Poro, sm barren Poro. 2116' 15 MIN CIRC SPL-	VSI SFO VSI SFO	
d	2100	25% SH: AA, sm blk carb. 75% LS: wh-bf-gy, ~30% w/ Lt Tn OSTN, Wkst- Pkst, ux- fnx, VRr Mdx- crsX- 2ReX, Pr- Fr IX Poro, IGr Poro, pp Poro, Rr Gd- VGd oomldc Poro, spt'd- sat FLR, VSI- Fr SFO, SI- Gd Cut, Fr odor.	VSI- SI SFO VSI- Fr SFO	
		 2148' DRLG SPL- <5% LS AA w/ FLR- SFO. SI Cherty: cm-blu-shrp. 2148' 15 MIN CIRC SPL- LS: AA, Pred chlky & Pr- NV Poro, VRr Wkst- Pkst & mldc Poro, AA w/ spt'd- sat STN. VAbndt SH- SILTS: (~80%) gy-blk, sm calc, sm carb. 		
-cCFS-15"		 vAbidi SH- SILTS: (~80%) gy-bik, sin care, sin care. sm argil- shly LS. (BASE KANSAS CITY) VAbndt SH- SILTS: (~80%) gy-blk, sm cale, sm carb. 	2138' (-726) BASE KANSAS CITY	
-c- - CFS-15 "	2150	2179' SPL- SH- SILTS: gy- blk, micac & sm calc. (>95% SH- SILTS, <5% LS, AA)		
- <u>C</u> -				
d. 5 10	2200	2211' SPL- sm SH- SILTS, AA, sm calc. sm blk carb SH. (CHECKERBOARD) ~80% LS: wh-gy-tn, prt chlky & prt dn- ux, fnx & sm Wkst. Plst sm argil. sbly. Pred VPr. NV Poro. NSO	2205' (-793) CHECKERBOARD	
-C-		 (CHIECKERBOARD) ¹⁰⁰/0 LS, Wiegy-us, predikty & predikty	NOVAKD	
-C-		2274' DRLG SPL- (ALTAMONT) Abndt LS: gy-tn-wh, Pred dn- ux Mdst- Wkst, Rr Pkst, sm chlky, Pred VPr- NV Poro w/ NSP. SI fos, sm argil- shly.	2244' (-832) Altamont	
5 10	2250	fos, sm argil- shly. & SH- SILTS: AA & gy-blk pyrtc. (sm LS, AA, Pred VPr- NV Poro, NSO) Abndt SH- SILTS: gn-gy, sm calc & lmy & gy- blk SH.		
		VAbndt SH: Pred gy- blk, sm blk carb, sm calc, & lmy- fos SH.	**BIT TRIP** 2287' (-875)	
0 5 -c- 10	2300	 (PAWNEE) VAbndt (~75%) LS: dk gy- tn, prt wh, Pred dn Mdst-Wkst, sm argil- shly, Pred VPr- NV Poro w/ NSO. sm SH: AA, pred gy-blk. Abndt LS: dk gy-tn-bn, dn- ux- fnx- sm 2ReX, sm wh-chlky, sm argil- shly Mdst- Wkst, Pred VPr- NV Poro w/ NS. 	2287' (-875) PAWNEE	
		LS: AA, Incrs tn-gy-wh, dn to chlky LS w/ VPr- NV Poro, NSO. (CHEROKEE) SH: blk carb- Vcarb. LS: gy-tn, cryptox- ux, dn & argil Mdst. gy-blk pyrte SH.	2318' (-906) CHEROKEE	DST #1- ARBUCKLE 2314'-2380'
-C-		SH- SILTS: lt- dk gy. SH- SILTS: lt- dk gy. (Rr LS, AA) SH: AA, Sl Incrs dk gy- blk, sm carb.		1st Op: Wk blo, bldg to strng blo in 4 min, blt 81" 2nd Op: Wk blo, bldg to strng blo in 6 min, blt 129"
0 5 SI R 10 vis 38 wt 9,3 LCM 2# CFS-20/40"	2350	(ARDMORE) LS: tn-gy, dn, ux- fnx w/ VPr- NV Poro, NSO. LS: dk gy- blk, dn hd- ux & Mdst, sm argil. SH: dk gy- blk carb, pyrtc.		Rec: 1040' TF: 100' SO&SWCM (2%O,1%W, 97%M) 565' O&HWCM (10%O,38%W, 52%M)
CFS-20/40" CFS-20/40" -CFS 20/40/60" -CFS 20/40/60"		Pred SH: AA & Rr argil dn LS, AA. SH: Pred gy-blk, Vpyrtc, sm calc & lmy. 2378' CIRC SPLS- (ARBUCKLE) DOLO: gy-bf-tn, sm ux- fnxln- dn to Pr Poro w/Edg w/ FLR & SISFO; ~40% DOLO- fnxln- mdxln, sm 2nd ReX, Fr- Gd visbl Poro: IX poro, IGr Poro, pp- vug Poro, spt'd- sat Rich Tn-bn OSTN, Fr- Gd SFO, SI- Gd mlky Cut, Frly strng Odor . 2380' CIRC SPLS- Incrs DOLO: cm-bf-gy w/Tn-bn OSTN; Incrs fnxln to mdxln, sucro to rhombic	2375' (-963) ARBUCKLE Fr- Gd SFO RTD 2380' (-968)	375' O&HMCW (6%O,71%W 23%M) IHP: 1128 IFP: 36-273 ISIP: 902 FFP: 275-478
0 5 10	2400	cm-bf-gy w/ In-bn OSTN ; Incrs fixIn to mdxln, sucro to rhombic & sm VCHERTY & grnlr texture. ~60% w/ Fr- Gd Poro: IX Poro, IGr Poro, pp- vug Poro, subsat- sat OSTN & FLR, Fr- Gd Lively SFO, Fr- Gd strmg mlky Cut, Frly Strng Odor.	VESS OIL CORP ENYART A #117 2160'FSL & 430'FWL Sec 12-26S-04E BUTLER CO., KS 15-015-24128	FSIP: 903 FHP: 1096 BHT: 104 F

RILOBITE	DRILL STEM TES	T REPO	ORT				
	Vess Oil Corporation		12/2	26S/4E	Butle	er, KS	
	1700 N. Waterfront Parkw ay Bullding 500 Wichita, KS. 67206-6619 ATTN: Dylan Klaus/Roger Ma		Enyart A #107 Job Ticket: 63948 DST Test Start: 2019.08.18 @ 06:15:0				
GENERAL INFORMATION:							
Formation:ArbuckleDeviated:NoWhipstock:Time Tool Opened:07:54:00	ft (KB)		Test Test			ntional Bottom Ricketts	n Hole (Initial)
Time Test Ended: 14:04:09 Interval: 2314.00 ft (KB) To 2380 Total Depth: 2380.00 ft (KB) (TVD) Hole Diameter: 7.88 inchesHole C)		Unit Refe	erence Ele	65 evatior to GR/0	1403	2.00 ft (KB) 3.00 ft (CF) 9.00 ft
Serial #: 8369 Press@RunDepth: 477.69 psig @ Start Date: 2019.08.18 Start Time: 06:15:01 TEST COMMENT: IF - Weak blow build FF - Weak blow build	End Date: End Time:			o.: 3tm: 2 Btm: 2 uing to bu	2019.0 uild to 8	1899.12 08.18 @ 07:52 08.18 @ 11:03 81 Inches.	::30
Pressure vs. Time			PF	RESSUF	RE SI	JMMARY	
S339 Pressare S339 Pressare S349 Pressare S340 P	Stor Torperature Stor Torperature The Hydrometry (Ger C) The Hydrometry (Ge	Time (Min.) 0 2 32 77 77 122 185 191	Pressure (psig) 1128.28 36.15 273.48 902.04 275.44 477.69 902.80 1096.14	Temp (deg F) 100.07 99.52 103.43 103.04	Ani Initial Oper Shut End S Oper Shut End S	notation I Hydro-static n To Flow (1) -ln(1) Shut-ln(1) n To Flow (2)	
Recovery			·	Ga	s Rat	es	
Length (ft) Description 375.00 O&HMCW 6%O 71%W &23 565.00 O&HWCM 10%O 38%W & 5 100.00 SO&SWCM 2%O 1% W & 9	52%M 7.93			Choke (i	inches)	Pressure (psig)	Gas Rate (Mcf/d)

	DRILL STEM TES	T REP	ORT				
	Vess Oil Corporation		12/2	26S/4E	Butle	er, KS	
	1700 N. Waterfront Parkw ay Bullding 500 Wichita, KS. 67206-6619 ATTN: Dylan Klaus/Roger Ma	Enyart A #107 Job Ticket: 63948 DS Test Start: 2019.08.18 @ 06:15:0			T#: 1 00		
GENERAL INFORMATION:							
Formation:ArbuckleDeviated:NoWhipstock:Time Tool Opened:07:54:00Time Test Ended:14:04:09	ft (KB)		Test Test Unit	er:		ntional Bottom Ricketts	n Hole (Initial)
Interval:2314.00 ft (KB) To2380Total Depth:2380.00 ft (KB) (TVDHole Diameter:7.88 inches Hole C))		Refe	erence Ele KB t	evatior to GR/0	1403	2.00 ft (KB) 3.00 ft (CF) 9.00 ft
Serial #: 8369 Press@RunDepth: 477.69 psig @ Start Date: 2019.08.18 Start Time: 06:15:01 TEST COMMENT: IF - Weak blow buik FF - Weak blow buik	End Date: End Time:			o.: 3tm: : Btm: : uing to bu	2019.0 uild to 8	1899.12)8.18 @ 07:52)8.18 @ 11:03)8 lnches.	::30
Pressure vs. Tim			PF	RESSUF	RE SI	JMMARY	
STOR AG 259	339 Impendate Teal periods Teal periods T	Time (Min.) 0 2 32 77 77 122 185 191	Pressure (psig) 1128.28 36.15 273.48 902.04 275.44 477.69 902.80 1096.14	Temp (deg F) 100.07 99.52 103.43 103.04	Ani Initial Oper Shut End S Oper Shut End S	Hydro-static To Flow (1) -ln(1) Shut-ln(1) To Flow (2)	
Recovery	Gas Rates						
Length (ft) Description 375.00 O&HMCW 6%O 71%W &23 565.00 O&HWCM 10%O 38%W & 100.00 SO&SWCM 2%O 1% W & 9	52%M 7.93			Choke (i	inches)	Pressure (psig)	Gas Rate (Mcf/d)

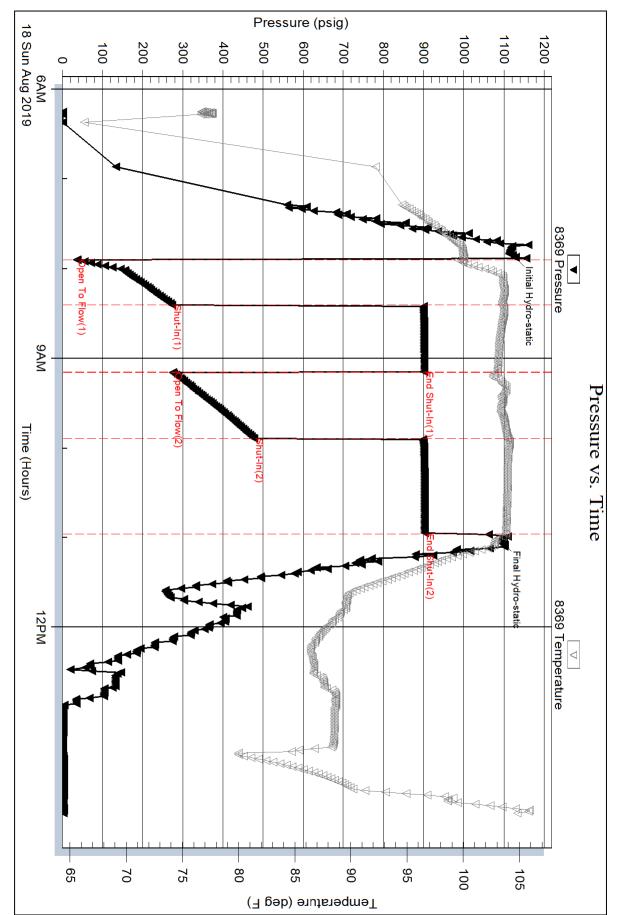
RILOBITE	DRILL STEM T	EST REP	ORT				
	Vess Oil Corporation	12/265/4	12/26S/4E Butler, KS				
ESTING , IN	C 1700 N. Waterfront Parkw a Bullding 500	у	Enyart A				
	Wichita, KS. 67206-6619		Job Ticket:		DST#:1		
	ATTN: Dylan Klaus/Roger	Ma	Test Start:	2019.08.18 (@ 06:15:00		
GENERAL INFORMATION:	•						
Formation:ArbuckleDeviated:NoWhipstockTime Tool Opened:07:54:00Time Test Ended:14:04:09	ft (KB)		Test Type: Tester: Unit No:	Convention Jimmy Rick 65	nal Bottom Hole retts	(Initial)	
Interval: 2314.00 ft (KB) To	2380.00 ft (KB) (TVD)		Reference I	Elevations:	1412.00 f	t (KB)	
Total Depth: 2380.00 ft (KB)	-		1403.00 ft				
Hole Diameter: 7.88 inches	ole Condition: Fair		K	B to GR/CF:	9.00 f	t	
Serial #: 8846 Inside Press@RunDepth: psig Start Date: 2019.08.13 Start Time: 06:15:0		2019.08.18 14:03:00	Capacity: Last Calib.: Time On Btm:		8000.00 p 1899.12.30	osig	
			period. Continuing to				
Pressare v			PRESSU	JRE SUMM	MARY		
Pressure v	5. Time 896 Vergenate 1000 1000 1000 1000 1000 1000 1000 100	Time (Min.)		JRE SUM	MARY		
Pressure v Boli Pressure 000 000 000 000 000 000 000 000 000 0	s. Time BHO Tempenaux CENA	Time (Min.)	PRESSU Pressure Temp (psig) (deg F	JRE SUM	MARY		
Pressure v Boli Pressure 000 000 000 000 000 000 000 000 000 0	s. Time BHO Tempenaux CENA	Time (Min.)	PRESSU Pressure Temp (psig) (deg F	JRE SUMN Annotat	MARY tion	Rate (Mcf/d)	
Pressure v BHO Presue 100 100 100 100 100 100 100 10	s. Time BP0 Tempenare	Time (Min.)	PRESSU Pressure Temp (psig) (deg F	JRE SUMN Annotat	MARY tion	Rate (Mcf/d)	
Pressure v Bill Pressure Difference Dif	s. Time BM Formation The second sec	Time (Min.)	PRESSU Pressure Temp (psig) (deg F	JRE SUMN Annotat	MARY tion	Rate (Mcf/d)	
Pressure v Bill Pressure Difference Dif	5. Time BHO Temperature The temperatur	Time (Min.)	PRESSU Pressure Temp (psig) (deg F	JRE SUMN Annotat	MARY tion	Rate (Mcf/d)	
Pressure v Montenance Pressure v Montenance Pressure v Montenance Pressure v Montenance Monten	5. Time BHO Temperature The temperatur	Time (Min.)	PRESSU Pressure Temp (psig) (deg F	JRE SUMN Annotat	MARY tion	Rate (Mcf/d)	
Pressure v BUPResue Contraction Solution S	5. Time BHO Temperature The temperatur	Time (Min.)	PRESSU Pressure Temp (psig) (deg F	JRE SUMN Annotat	MARY tion	Rate (Mcf/d)	

RILOB		s Oil Corporation	12/26S/4F	Butler, KS		
EST.	ING INC					
) N. Waterfront Parkw ay ing 500	Enyart A			
	Wich	ita, KS. 67206-6619	Job Ticket: 6		DST#:1	
	ATT	N: Dylan Klaus/Roger Ma	Test Start: 2	2019.08.18 @ 06:1	5:00	
lud and Cushion Info	ormation					
lud Type: Gel Chem		Cushion Type:		Oil API:	deg API	
lud Weight: 9.00 ll	-	Cushion Length:	ft	Water Salinity:	9000 ppm	
iscosity: 46.00 s		Cushion Volume:	bbl			
/ater Loss: 7.99 in		Gas Cushion Type:				
,	ohm.m	Gas Cushion Pressure:	psig			
alinity: 1000.00 p ilter Cake: ir	opm nches					
ecovery Information	1					
		Recovery Table				
	Length ft	Description	Volume bbl			
	375.00	O&HMCW 6%O 71%W &23%M	3.02	8		
	565.00	O&HWCM 10%O 38%W & 52%M	7.92	5		
	100.00	SO&SWCM 2%O 1% W & 97%M	1.403	3		
	m Fluid Samples: 0	Num Gas Bombs: 0	Serial #			
Lal	boratory Name: covery Comments:	Laboratory Location:				
Lal	boratory Name:					
Lal	boratory Name:					
Lal	boratory Name:					
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Printed: 2019.08.18 @ 18:54:43

Ref. No: 63948

Trilobite Testing, Inc



Serial #: 8369

Vess Oil Corporation

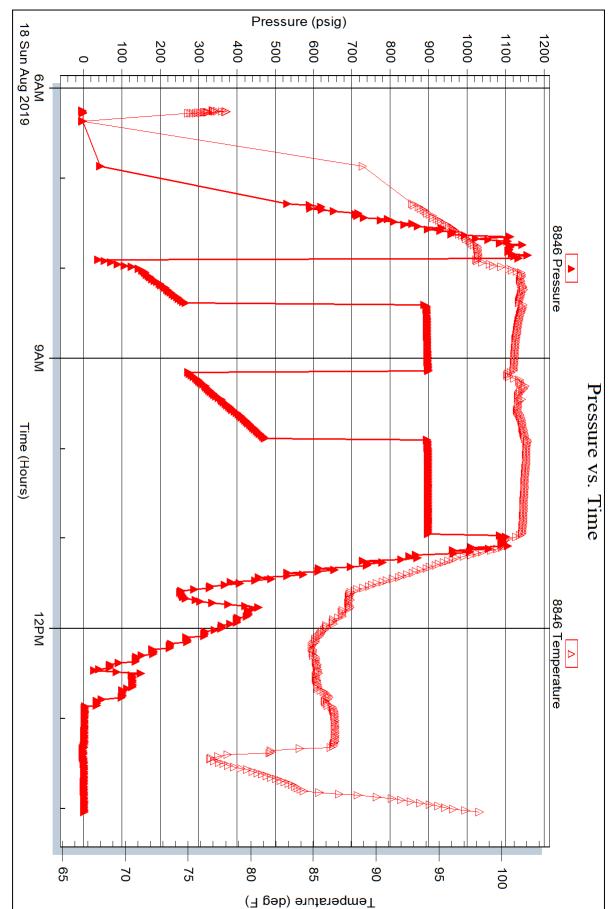
Enyart A #107

DST Test Number: 1

Printed: 2019.08.18 @ 18:54:43

Ref. No: 63948

Trilobite Testing, Inc



Enyart A #107

Serial #: 8846

Inside

Vess Oil Corporation

DST Test Number: 1

Suite #200



HURRICANE SERVICES INC

Customer	Vess Oil		Lease & We	Enyart A #117				Date		8/15/2	010
Service District	Madison		County & St	ate Butler Co., KS	Legals S/T/F	R 12-	26s-4e	Job #		22.2	_
Job Type	Surface	PROD	∐INU	SWD	New Well?	VES	No	Ticket #		ICT 2	
Equipment #	Driver			Job Safety A	nalysis - A Discu	and the second				101 22	
271	Kevin	Hard hat		Gloves		Lockout/			and the set		
241	T.C	H2\$ Monitor		Eye Protection	3	Required		Warning Sit		ng	
77	Jake H	Gafety Footw	ear	Respiratory Pr	otection	Slip/Trip/I		Specific Job		un antaŭ	
		FRC/Protecti		Additional Che	emical/Acid PPE	Dverhead		Muster Poir			
		Hearing Prot	ection	Fire Extinguish	er			issues noted below	w	scations	
		Cement 250' of	8 5/8" surface ca	sing inside 12.25" hol	le Caculated exc	ess: 100%. Wa	ter available	on the rig.			
roduct/ Service Code					6 17-1		67.00			100	-
Lode	Una Carlona		ription		Unit of Measur		10,0-0-0			Ne	at Amour
	Heavy Equipmen	it Mileage			៣រ	30.0	0				\$108,
020	Ton Mileage				lm	220.0	0			_	\$297.
110	Cement Pump				ea	1.0)			-	\$675.
015	H-325				sack	150.00	×		-		\$2,700.
			-				+				-
							1	1			
							-				
						-					
							1				
						-			1		
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							1			-	
										1.0	
	Constraint State	Van Haller		and the second							
Gustom	er Section; On th	te following scale in	W would you rate	Hurricane Services	fnc ?				Net:		\$3,780.0
Base	d on this int he	u likelu ie it u		1.1.0.		Total Taxable	s -	Tax Rate:			\sim
Dase			ould recommend	HSI to a colleague	?	used on new well Services relies on	s to be sales tax the customer p	ucts and services exempt. Hurricane provided well	Sale Tax:	s	
(Jul)	,12	345	6 7 8	9 10 er	termine to mark	information above services and/or pr	to make a dete	simination if	Total:	5	3,780.01
						HSI Represe	entative:	Jake Hea	_	÷	-,,,

TERMS: Cash in advance unless Humcane Services Inc. (HSI) has approved credit prior to sale. Credit terms of sale for approved accounts are total invoice due on or before the 30th day from the date of invoice. Past due accounts shall pay interest on the balance past due at the rate of 1.15% per month or the maximum allowable by applicable state or federal taws. In the event it is necessary to employ an agency and/or atomey to providely applied in artiving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and bubget to cellection. Proces quicted are estimates only and are good for 20 days from the equation to express the sale of federal taws. In the event this necessary to employ an agency and/or atomey to providually applied in artiving at net invoice price. Upon revocation, the full invoice price without discount is immediately due and subject to cellection. Proces quicted are estimates only and are good for 20 days from the adjustments. Actual charges may vary depending upon time, equipment, and material ultimately required to parform these services. Any discount is based on 20 days net payment terms or cash. <u>DISCLAINER NOTICE</u>: Technical data is presented in good faith, but no warranty is stated or implied. HSI assumes no fability for advice or and HSI makes no guarantee of faure production performance. Customer represents and warrants that well and all associated equipment in acceptable conduito to receive anylices by HSI. Likewise, the customer organizes proper operational care of all customer orwards quicteent and property while HSI is on location performance. Customer persented and and all associated equipment in acceptable conduito to receive anylices by HSI. Likewise, the customer formation presented in above, and Hurrican has been provided accurate well information in determining laxable services. The authorization below acknewledges the receipt and acceptance of all terms/conditions stated above, and Hurrican has been provided accurate well information

1 and the second s

CUSTOMER AUTHORIZATION SIGNATURE

ATTACHMENT TO ACO-1

Enyart A #117 – API #15-015-24128-0000 2160' FSL & 430' FWL

Sec 12-26S-4E Butler Co, KS

DST #1:	Arbı	ıckle						
Depth:	2314	2314 - 2380'						
1st Open:	Wea	Weak blow building to strong blow 4 min. Built to 81".						
2nd Open:	Wea	Weak blow building to strong blow in 6 min. Built to 129".						
Rec:			WCM (2%O, 1%W, 97%M), 565' O&HWCM (10%O, 38%W, O&HMCW (6%O, 71%W, 23%M)					
IHP:	11	28		FHP:	1096 psi			
IFP:	36-27	73 psi		FFP:	275-478 psi			
ISIP:	902	psi		FSIP:	903 psi			
Temp:	10	104*						
	Enyart A #	117 (sample)						
Estimated Tops	КВ	1412						
Zone	Depth	(Datum)						
OREAD	1380	(+32)						
HEEBNER	1417	(-5)						
LANSING	1676	(-264)						
KANSAS CITY	1973	(-561)						
B/KANSAS CITY	2138	(-726)						
CHECKERBOARD	2205	(-793)						
HEPLER SAND	NONE	NA						
ALTAMONT	2244	(-832)						
PAWNEE	2287	(-875)						
CHEROKEE	2318	(-906)						
ARDMORE	NONE	NA						
ARBUCKLE	2375	(-963)						
PTD	2380	(-968)						