KOLAR Document ID: 1550366

Confidentiality Requested:

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 - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	SecTwpS. REast _ West
Address 2:	Feet from North / South Line of Section
City: State: Zip:+	Feet from
Contact Person:	Footages Calculated from Nearest Outside Section Corner:
Phone: ()	□NE □NW □SE □SW
CONTRACTOR: License #	GPS Location: Lat:, Long:
Name:	(e.g. xxxxxxxx) (e.gxxxx.xxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
New Well ☐ Re-Entry ☐ Workover	Field Name:
☐ Oil ☐ WSW ☐ SWD	Producing Formation:
Gas DH EOR	Elevation: Ground: Kelly Bushing:
□ OG □ GSW	Total Vertical Depth: Plug Back Total Depth:
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?
If Workover/Re-entry: Old Well Info as follows:	If yes, show depth set: Feet
Operator:	If Alternate II completion, cement circulated from:
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 Producer	(Data must be collected from the Reserve Pit)
Commingled Permit #:	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:  Dual Completion Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	·
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec. Twp. S. 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 Approved by: Date:							

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#### Page Two

Operator Name: _				Lease Name:			Well #:		
Sec Twp.	S. R.	E	ast West	County:					
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,	
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log	
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample	
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum	
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No						
		B	CASING eport all strings set-c		New Used	ion, etc.			
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD				
Purpose:		epth T Bottom	ype of Cement	# Sacks Used	Used Type and Percent Additives				
Perforate Protect Casi Plug Back T									
Plug Off Zor									
Did you perform a     Does the volume     Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,	
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	on	Oil Bbls.					Gas-Oil Ratio	Gravity	
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom	
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT	
,	,			B.11 B1					
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record	
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:					
TODING RECORD:	. 3126.	Set	n.	i donei Al.					

Form	ACO1 - Well Completion		
Operator	Raney Oil Company, LLC		
Well Name	HOUSE 2A		
Doc ID	1550366		

# Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.125	8.625	24	348	comm	225	3%cal2%g el

COMPANY  RATERERGY,  LEASE  HOUSE 2A  RAHN  LOCATION  330' FSL& 2310  SECTION  TOWNS		TIME AND SAMPI	ELEV  KB 1131'  Measurements Are From KB	ATIONS  GL 1123' 2 All 4726-00-00
COUNTY COWLEY  CONTRACTOR DUKE D  SPUD 12/21/2020  RTD 3376' (-2245)	STATE  ORILLING, RIG #2  COMP 01/05/2  LTD 3374' (-22	KANSAS  2021	API #	NG @ 348' KB w/225 sx % gel
ELECTR ELI: DIL, CDL/CNL/PE, MEL,SO  FORMATION TOPS  HEEBNER SHALE  IATAN  STALNAKER SS	LOG  1340' (-209)  1652' (-521)  1709' (-578)	SAMPLES  1347' (-216)  1656' (-525)  1716' (-585)	12/21/2020- MIRU Duke Drilling 12 1/4" hole @ 7:30 PM.	
LAYTON ZONE (T/LANSING) UPPER LAYTON SS  KANSAS CITY DODDS CREEK SS DENNIS SWOPE HERTHA  MARMATON ALTAMONT PAWNEE FORT SCOTT	2099' (-968) 2127' (-996) 2289' (-1158) 2306' (-1175) 2365' (-1234) 2385' (-1254) 2440' (-1309) 2538' (-1407) 2557' (-1426) 2602' (-1471) 2641' (-1510)	2104' (-973) 2131' (-1000) 2292' (-1161) 2309' (-1178) 2367' (-1236) 2389' (-1258) 2441' (-1310) 2540' (-1409) 2561' (-1430) 2603' (-1472) 2646' (-1515)	12/22/2020- WOC @ 348'. Set 8 w/225 sx Class A, 3% cc 2% gel.  12/29/2020- Drlg @ 1375' @ 7Al  12/30/2020- Drlg @ 2089' @ 7Al system @ 1405'  12/31/2020- CFS @ 2152' after I SHS @ 2140' = 1/2 deg  01/01/2021- Drlg @ 2575' @ 7Al  01/02/2021- Make up tool @ 290	SHS @ 348'= 3/4 deg.  M.  M. Displace mud  DST #1.
CHEROKEE SH BARTLESVILLE SD  MISSISSIPPIAN CHERT MISSISSIPPIAN LS  KINDERHOOK SH CHATT/WOODFORD  ARBUCKLE  RTD/LTD	2678' (-1547) 2880' (-1749)  2933' (-1802) 2948' (-1817)  3316' (-2185) 3340' (-2208)  NDE  3374' (-2243)	2682' (-1551) 2883' (-1752) 2937' (-1806) 2954' (-1823) 3318' (-2187) 3340' (-2209) 3375' (-2244)	DST #2 @ 7 AM.  01/03/2021- Wiper trip @ 3063' SHS @ 2900' = 1 deg.  01/04/2021- Drlg @ 3156' @ 7Al  01/05/2021- WO Loggers @ RTI @ 7AM. SHS @ 3376'= 1 deg.	@ 7AM. M.
01/05/2021- ELITE (	de to P&A the Raney Oil Comp CEMENTING: 125 sx 60/40 Po @ 350', 25 sx @ 60', 30 sx RH. 21. Respectfully submitted, Roger L. Martin, Geolog	ozmix, 4% gel: Plug down		
art ark rest	SAMP	PLE DESCRIPTION	RI	EMARKS
PROBERTY DEBLINGTINE DEST		& ux- Vfnxln, Pred Pr- NV P		emarks /N SAMPLES**
-c- 0 5 10	GIEEDNED GIL I	tn-gy, ux- finxln, Pr- NV Porc /Abndt SH: blk carb- Vcarb.	1347' (-216)	
-с-	SH: Vgt'd bn-blk & r & gn-gy SH & SILTS:sm sndy, N			
-c- 0 5 10	Abndt LS: cm-tn-gy, Poro, NS.	gy-blk & mrn-rd SH.  ux- Vfnxln & fos Wkst- pkst	t, Pred Pr visbl	
0 5 10 Geolograph kicked out -c-		dt brick rd & mrn, & gn-gy S	SH.	
-c- 0 5 10	Sndy SILTS & Silty w/ Fr- Gd Poro, NSF	SS- Sd Clust: bf-gy, Vfn Gr'o O, NC in >90%. : gy-wh, gy-bf, Vfn- fn Gr'd,		
-c- 1550	w/ Pr- Fr & Tre Gd H Conds w/ Odor on I sm LS: tn-gy-bn, dn to Pred SH: >90% SH:	Poro, VRr FLR & Trc SFO	- Gs Bbls & Gs	
0 5 -c- 10 -cc-	SH: dk- lt gy, sm silt	y.		
1600 0 5 10	SH: Pred dk gy- blk.			
-c- 0 5 10		& cm, dn- ux- fnx, sm S1 fos	Wkst, VPr- NV 1656' (-525) IATAN	
vis 52 wt 8.9 LCM 2# -c- 1700 vis 52 wt 8.9 LCM 2#	SH: pred dk gy- blk.			
-c- 1750	subfribl w/VPr- Fr vi	lty SS- Sd Clust: lt bf-gy, Vfr isbl Poro, NSO. y, Vfn- fn Gr'd, Rnd'd- sbang oro w/ NF. NSO. sm silty & 1	glr, well cmt'd-	
vis 50 wt 9.0 LCM 2#c-	SILTS: gy,sm sndy, i VRr LS: gy, argil dn Pred SH: gy-blk & g	Mdst.		
vis 48 wt 9.1 LCM 2#	SS- Sd Clust: gy, Vfi fribl w/ Fr- VGd Pore	n Gr'd, silty, micac, & sndy S o, NSO.	ilts: NSO. NF. sm	
LCM 2#  -c-  1850	SS- Sd Clust: bf- lt g	m Sd Clust, A. NSO. y, Vfn- fn Gr'd, well cmt'd to O, NC. sm sndy Silts.	fribl w/ sm Fr-	
vis 48 wt 9.1 LCM 3#	w/VPr- Fr visbl Poro & Sndy Silts w/VPr v Silts: AA & Silty SS-	- Sd Clust: It gy-bf, Vfin Gr'd,	SO. NF.	
-c-	Gr'd, sm Fr- Gd Poro sm SS- Sd Clust: AA Pred dk gy- blk, gn-g	o, VRr dull FLR.  L, Pred silty SS & Sndy Silts.		
0 vis 50 10 10 wt 9.1 LCM 2#	Pred SH: AA, Rr Sd	Clust: AA. NSO.		
-c- 0 5 10	Tre LS: tn-gy-bn.  SH: Pred dk gy- blk.		**20 FOOT DRI	ILLING SAMPLES**
vis 50 wt 9.1 LCM 2# 2050	SH: Pred dk gy- blk,	sm carb.		
vis 50 wt 9.4 LCM 2# 0 5 10	Fr Poro, NSO.  SH: dk gy- blk, VRr	ON ZN} LS: gy-bn, ux- fnxlr	2104' (-973)	TON ZN
-c- CFS 20/40/60" 	SILTS: lt- md gy, sm  SILTS: sndy & sndy Pr- VPr Poro, well cr  {LAYTON} SS- Sd	Clust: lt gy-wh, bf-Tn STN, 0% Fr- Gd Poro, sat & sul	Vfn- fn Gr'd, Pred  2131' (-1000)  Vfn- fn Gr'd, LAYTON SD	DST #1 LAYTON SD 2123'-2140' 30-45-60-90 1st Op: Wk blo, blt to 3" 2nd Op: Wk blo, blt to 2" Rec: 55' TF:
vis 48 wt 9.5	md Gr'd, well cmt'd t FLR- SFO- STN- C  VAbndt SS- Sd Clust Gr'd w/ Pr- Gd visbl  SS- VAbndt Sd Clust	t: lt gy, Rr bf-Tn OSTN, Vfn to fribl w/ sm Fr- Gd Poro, Pr cut. sm silty & micac.  t: Pred Vfn Gr'd & silty, mica Poro, Pred barren.  t: lt gy- bf, Vfn- fn Gr'd, Pred	ac, sm Vfn- fn	55'VSIOCM (2%O.98%M) 20' GIP TOOL SPL: 4%O,96%M IHP: 1054 IFP: 17-28 ISIP: 761 FFP" 29-43 FSIP: 760 FHP: 1045 BHT: 97 F
2200 0 5 10	SS- VAbndt Sd Clust w/ NSO. Pred micac	t: AA, Rr fribl w/ Fr- Gd Por	r, well cmt'd to	MUD CHECKS by MUD-CO: 12/30/2020 Short Trip @2140' WT 9.6, VIS 52 PV 14, YP 15 pH 11.5, WL 8.0 CI 1500, LCM 3# ECD 9.97
-c- 0 5 10	Abndt silty, micac, si	n- fn Gr'd, Rr prt md Gr'd, A mt, Pr- gd Poro, NSO. m Vwell cmt'd calc & lmy So		12/31/2020 CFS @2152'' WT 9.5, VIS 47 PV 15, YP 14 pH 10.5, WL 6.4 CI 1400, LCM 2# ECD 10.17
-c- 2300 0 5 10				
-с-	angir, well cmt'd- sul prt md Gr'd w/ Fr- G	SS- Sd Clust: lt-md gy, Vfn- panglr, micac, silty, Pr- Gd Pd d Poro, NSO, sm calc cmt.	- fn Gr'd, rnd'd- oro w/ NSO, VRr    2309' (-1178)   DODDS CREEK	
2350 0 5 10 -c- vis 54 wt 9.4	SH: gy- blk, sm blk o	earb. tn-gn-bn, dn- hd, ux Mdst, Rr		
Vis 52 wt 9.4	VPr- NV Poro, NSO	& lmy & blk carb SH & Vcar		
LCM 2#  -c-  2450  vis 54  wt 9.4  LCM 2#  -c-	argil, VPr- NV Poro, & SH: AA.	ot Pkst, sm wh-chlky, Pr- NV		
-c- 0 5vis 54 wt 9.4 10	SH: dk-lt gy, sm calc	<b>:</b> .		
-c- vis 51 wt 9.5	SH: Pred dk gy- blk.  {MARMATON} LS subchlky, sm ux- fnx	S: cm-tn-gy, sm SI fos Wkst, l r, Pred VPr- NV poro, NSO.	2540' (-1409) MARMATON	
LCM 2# 2550 0 5 10	SH: blk carb & calc-  {ALTAMONT} LS: granlr & ux- fnxln, > Odor, VRr md- Vci Poro: IGr Poro, pp	lmy. gy-wh, sm tn-bn STN, Wkst 10% <20% Fr- Gd SFO G rs- 2Rx, Pred Pr- Fr Poro, vug Poro, u-mldc Poro w bndt dn & argil w/ Pr- NV Po	GS Conds, Fr Rr Gd visbl // spt'd STN, SI-	Conds)
-c- vis 52 wt 9:5 0 5 LCM 1# 10	{PAWNEE} LS: tn-v Wkst- Pkst, SI fos, R Poro w/ spt'd- subsa SFO & Cut, SI- Fr (	, sm calc. wh-gy, cryptox- fnxln, VRr m r Pr- Fr visblk Poro: pp Poro at Lt OSTN & FLR in ~10< Odor.	, uIX Poro, uIGr <20%, Trc- Sl -32 UGK	
vis 52 wt 9.5 0 5 -c- 10 vis 51 wt 9.4	FORT SCOTT} L  2Rx, sm Wkst- Pkst- mdxln- 2Rx, Pr- Fr v 10% w/ spt'd- sat L Odor, LS: tn-gy-bn, dn hd u	S & sm argil w/ Pr- NV Poro arb, SI pyrtc, sm Imy. S: gy-tn-wh, Pred dn to chlky fos & oolc, SI CHERTY: cn isbl Poro: pp Poro, IGr Poro, at STN & FLR, VSI- SI SFC ix & dn Mdst w/ Pred VPr- N gil- shly & blk carb- subcrb S	2646' (-1515) FORT SCOTT  NV Poro. ~5%-  V. Silver (VSI- SI SFO)  V. Silver (VSI- SI SFO)	
-c- vis 50 wt 9.1 LCM 2# 2700 vis 50	LS: gy-tn-wh, Pred d  {CHEROKEE} SH  SH- SILTS: dk gy- b lmy.	gil- shly & blk carb- subcrb S in, sm Wkst- Pkst, fos, VPr- N : blk carb- Vcarb, Tre coal. olk & md gy, sm pyrtc & mica	NV Poro.  2682' (-1551)  CHEROKEE SH	01/01/2021 Drlg@ 2671' WT 9.1, VIS 50 PV 15 YP 15 pH 11.0, WL 7.2 Cl 1400, LCM 2# ECD 9.81
wt 9.1 LCM 2# c-	SILTS: gy, cale & ln	rb & sm calc lmy SH & Silts	S	
vis 47 wt 9.7 LCM 1#	SH: AA, Pred gy-blk sm LS: tn-gy-bn-blk, LS: tn-gy-bn, dn- ux,	dn Mdst & argil, VPr- NV P , VPr- NV Poro, NS. cearb, sm calc & lmy w/ VPr-		X**
2800 0 5 10 -c- vis 60 wt 9.4 LCM 2#	SH: blk Vcarb & car & gn-gy SH & Silts. sm LS: tn-gy-bn, dn-	b, sm cale & lmy SH ux- fnx & Mdst- argil- shly,		
-c- 2850	sm cale & lmy SH: A	AA. gy-blk, smc calc & lmy. , sm calc & sndy.		ILLING SAMPLES**
-c- Vis 6.2 Wt 9.4 LCM 4# CFS 20/40/60" 0 5 10	SILTS: gy-blk.  {BARTLESVILLE well rnd'd to subangl shly, sat & subsat S' Cut, Strng Odor.  SILTS: & Silty Sd: h AA w/ Poro, SFO-ST	} SS- Sd Clust: gy-bn & dk b r, well cmt'd to fribl, Fr- VGo TN- FLR, Fr- Gd SFO- Gs t- dk gy, well cmt'd Sd Clust. TN- FLR- Cut)	d Poro, sm silty- Bbls, Fr-Gd Fr- Gd SFO- G: ~100 UGK	2nd Op: Wk blo, blt to SB in 3", blt to 177" REC: 1275' TF: 615' GOSMCW
vis 52 wt 9.4 LCM 2#	FLR- Cut)  SH: gy- blk, sm calc  {MISSISSIPPIAN} frsh, prt wthr'd, Rr < Poro, IGP Poro, spt Gd SFO- Gs Bubls,	CHERT: cm-bf-tn, gy, Pred 10% subtripole to tripole w/ t'd- subsat Lt Tn-bn STN, l	opq, shrp, Tre prt sm Fr- Gd pp brt FLR, Rr Fr- -55 UGK	(9%G, 2%O 70%W,19%M) 560' GOSWCM (7%G,2%O 22%W,69%M) 100'DM TOOL SPL: 3%O, 5,%M 93%W IHP: 1369 -GsBb)IFP: 167-372 ISIP: 1293 FFP: 377-656
SI Rgh 2950  CFS 20/40/60"  vis 50 wt 9.4 LCM 3#  vis 46 wt 9.3 LCM 4#	{MISSISSIPPIAN} Wkst- Pkst w/ sm VF FLR- Trc SFO & re Pred frsh,Sl wthr'd, T  LS: dk gy & gy-bn-b shrp & md gy- blu-gr FLR- Trc SFO on b Mdst.	LS: tn-gy-bn, dn- ux- crypto Pr- Pr visbl Poro: pp Poro, ule esid Cut VCHERTY: cm-bf Frc uFrc-Edg FLR- Trc SF lk, ux- argil, sm silic, VCHE y, VPr Poro- NV Poro, Trc urk, VRr ux- fnxln- 2nd Rx, st	ox & Mdst & sm Gr Poro, VRr f-gy-tn, opq, shrp, FQ  CRTY: gy-blk, vit- uFrc & Edg w/	FFP: 377-656 FSIP: 1300 FHP: 1295 BHT: 110F  DST #3 UPPER MISS 2942'- 3063' 30-45-60-90 1st Op: Wk blo, blt to 3"
LCM 4#  3000 0 5 10	shrp Incrs Mdst- dk- LS: dk gy-bn & dk- r sm argil- Sl shly, VR	nd gy, Mdst, sm silic & ux- c tr VPr visbl Poro, <b>uFrc &amp; Ed</b> <b>c FLR &amp; Trc SFO- uspts</b> F	lgs & uIX Poro	blt to 3" 2nd Op: Wk blo, blt to 2" Rec: 25' TF: 25' DM/TrcO (Trc O, 100%M) TOOL SPL: 4%O, 96% M IHP: 1473 IFP: 29-22 ISIP: 92 FFP: 17-24 FSIP: 137
-c- 3050 0	LS: gy-bn, gy-blk, sn w/ VPr visbl Poro: ul FLR- SFO & uspts	IX Poro & uIGr Poro, <b>uFra</b> e	n silic, sm Sl {Trc SFO}	FHP: 1357 BHT: 110 F 01/03/2021 DST #3 @ 3063'' WT 9.5, VIS 46
vis 52 wt 9.4 LCM 2# vis 58 wt 9.3 LCM 4#	dolome, Sl Cherty, T  LS: AA, Pred dn- ux  Trc uFrc- Edg & ul  Poro w/ FLR- Trc S	erc uFrc & Edgs, Trc FLR- & Mdst w/ VPr- NV Poro,> IX Poro, uIGr Poro w/ uIX	Tre SFO  99% barren. (Poro, uIGr  st, sm silie, sm  {Tre SFO}	
vis 56 wt 9.3 LCM = -c-	LS: AA, Incrs in argibarren. (Abndt SH ca	il Mdst w/ VPr- NV Poro, sm	n shly, >99%	
3150 0 5 -c- 10	(Pr Smpls) LS: sm cr SH cavings)  AA, Incrs cavings LS: cm-tn-gy, ux & M	LR (Iners SH cavings)  m-gy-tn, Wkst- Pkst, VSI Cho	erty AA. (Abndt    Trc SFO	
-c- vis 58 wt 9.6+ LCM 35 0 5 10	LS: cm-tn-gy, ux & N uFrc & Edgs w/ FL Cherty; >99% barrer  LS: tn-gy-bn, dn- ux	Mdst- Wkst w/ Pred VPr visb R, Trc SFO- uspts F.Oil or 1. (Abndt SH cavings)  & Mdst w/ VPr- NV Poro, > mc, VSI Cherty, Trc uFrc w/	ol- NV Poro, Tre n brk VSI  99% barren, sm	
0 -c- 10 3250 vis 54	NV Poro.  Rr LS: AA, Tre uFre	I cavings) rgil w/ VPr- NV Poro. >99% - Edg FLR- Trc SFO. >99% pyrtc w/ VPr- NV Poro.		
vis 54 wt 9.4	Incrs argil Mdst, sm	pyrte w/ VPr- NV Poro. n- ux Mdst, Vargil w/ VPr- N	IV Poro.	
Vis 54 wt 9.4 0 LCM 3#5	Incrs SH: blk & dk g Vargil w/ VPor- NV			01/04/2021 Drlg @ 3290' WT 9.6, VIS 40 PV 12, YP 12 pH 8.5 WL 13.2
LCM 3#  -c-  vis 54  wt 9.4  3300	Incrs SH: blk & dk g Vargil w/ VPor- NV SH: AA & DLS- LS- LS: lt-md gy to wh, o NSO. {KINDERHOOK}	y, sm lmy & dolomc & DLS	WPr NV Poro, y, sm calc & lmy.  3318' (-2187) KINDERHOOK	Drlg @ 3290' WT 9.6, VIS 40 PV 12, YP 12 pH 8.5, WL 13.2 CI 5600, LCM 3# ECD 10.23



Raney Oil Company, LLC

32/33S/6E/Cowley, KS

Test Start: 2020.12.30 @ 19:14:00

80

House #2A

4665 Bauer Brook Court Law rence, KS

Job Ticket: 66623 66049-9013

ATTN: Tom Raney/Roger Mart

DST#: 1

#### **GENERAL INFORMATION:**

Formation: **Layton Sand** 

Conventional Bottom Hole (Initial) Deviated: Whipstock: ft (KB) Test Type:

Time Tool Opened: 20:52:00 Tester: Jimmy Ricketts Unit No:

Time Test Ended: 02:13:20

2123.00 ft (KB) To 2140.00 ft (KB) (TVD) Reference Elevations: 1131.00 ft (KB) Interval:

Total Depth: 2140.00 ft (KB) (TVD) 1123.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 8.00 ft

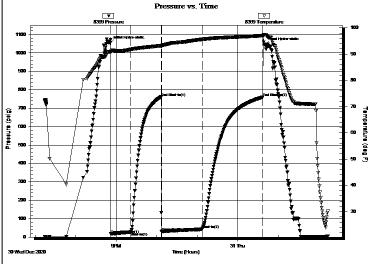
Serial #: 8369 Outside

Press@RunDepth: 2124.00 ft (KB) Capacity: 8000.00 psig 42.60 psig @

Start Date: 2020.12.30 End Date: 2020.12.31 Last Calib.: 1899.12.30 Start Time: 19:14:01 End Time: 02:13:20 Time On Btm: 2020.12.30 @ 20:51:00 2020.12.31 @ 00:40:50 Time Off Btm:

TEST COMMENT: IF - Weak blow building to 3 inches of water during initial flow period.

FF - Weak blow building to 2 inches of water during final flow period.



PRESSURE SUMMARY						
	Time	Pressure	Temp	Annotation		
	(Min.)	(psig)	(deg F)			
	0	1053.86	90.83	Initial Hydro-static		
	1	16.92	90.64	Open To Flow (1)		
	31	27.74	91.75	Shut-In(1)		
-	76	760.99	93.15	End Shut-In(1)		
Temperature (deg	76	28.98	92.93	Open To Flow (2)		
eture	136	42.60	95.59	Shut-ln(2)		
9	226	759.99	96.97	End Shut-In(2)		
J	230	1045.10	97.37	Final Hydro-static		

#### Recovery

Length (ft)	Description	Volume (bbl)
55.00	VSOCM 2%O & 98%M	0.27
20.00	GIP 100% G	0.10
0.00	TS VSOCM 4%O & 96%M	0.00

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

Trilobite Testing, Inc Ref. No: 66623 Printed: 2020.12.31 @ 03:26:43



**FLUID SUMMARY** 

deg API

ppm

Raney Oil Company, LLC

32/33S/6E/Cowley, KS

4665 Bauer Brook Court Lawrence, KS House #2A

Job Ticket: 66623

DST#:1

ATTN: Tom Raney/Roger Mart

Test Start: 2020.12.30 @ 19:14:00

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API:

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity:

Mud Weight: 9.00 lb/gal Cushion Length: ft Viscosity: 48.00 sec/qt Cushion Volume: bbl

66049-9013

Water Loss: 7.99 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1300.00 ppm Filter Cake: inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
55.00	VSOCM 2%O & 98%M	0.270
20.00	GIP 100%G	0.098
0.00	TS VSOCM 4% O & 96% M	0.000

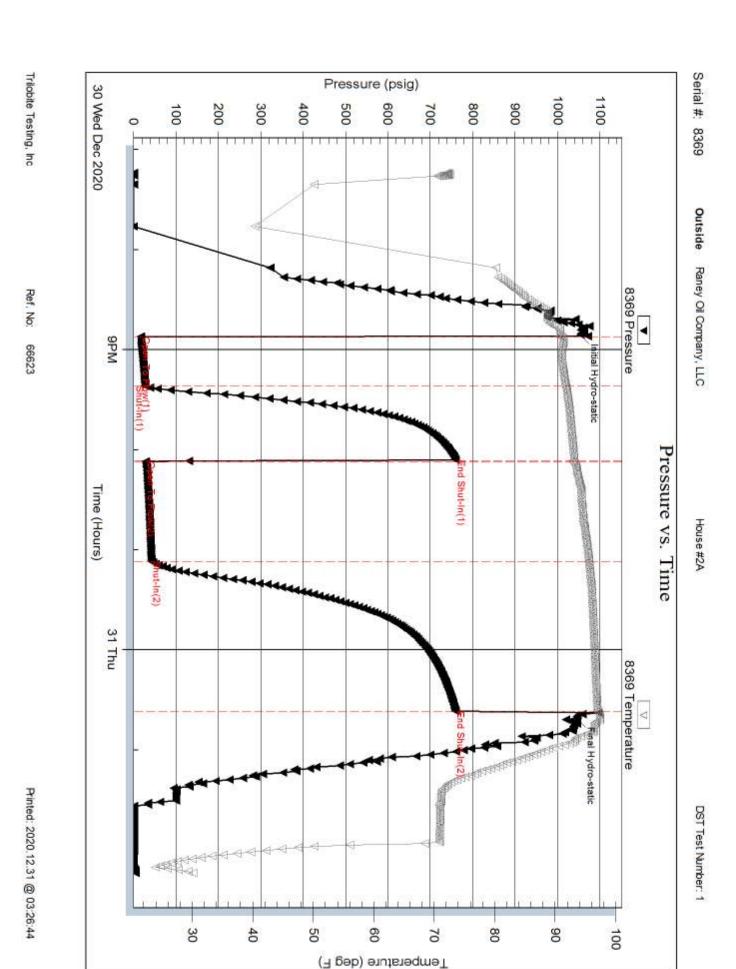
Total Length: 75.00 ft Total Volume: 0.368 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 66623 Printed: 2020.12.31 @ 03:26:44





Raney Oil Company, LLC

32/33S/6E/Cowley, KS

House #2A

Tester:

Unit No:

Job Ticket: 66624

4665 Bauer Brook Court Law rence, KS

66049-9013

80

ATTN: Tom Raney/Roger Mart

Test Start: 2021.01.02 @ 06:32:00

# **GENERAL INFORMATION:**

Formation: Bartleville Sans

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 08:32:20 Time Test Ended: 14:58:39

Interval: 2665.00 ft (KB) To 2900.00 ft (KB) (TVD)

Total Depth: 2900.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1131.00 ft (KB)

Jimmy Ricketts

1123.00 ft (CF)

DST#: 2

KB to GR/CF: 8.00 ft

Serial #: 8369 Outside

Press@RunDepth: 656.44 psig @ 2666.00 ft (KB) Capacity: 8000.00 psig

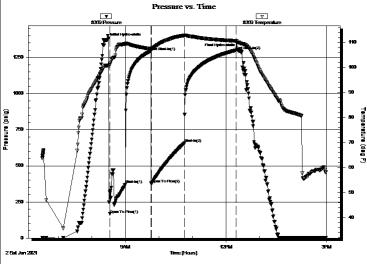
 Start Date:
 2021.01.02
 End Date:
 2021.01.02
 Last Calib.:
 1899.12.30

 Start Time:
 06:32:01
 End Time:
 14:58:40
 Time On Btm:
 2021.01.02 @ 08:27:30

Time Off Btm: 2021.01.02 @ 12:22:30

TEST COMMENT: IF - Weak blow building to strong blow 3 minutes into initial flow period. Continuing to build to 96 inches of water.

FF - Weak blow building to strong blow 3 minutes into final flow period. Continuing to build to 177 inches of water.



	PRESSURE SUMMARY						
1	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
	0	1369.49	100.81	Initial Hydro-static			
	5	167.03	101.11	Open To Flow (1)			
	33	371.99	109.46	Shut-In(1)			
	79	1292.83	107.56	End Shut-In(1)			
	79	377.37	107.41	Open To Flow (2)			
	139	656.44	112.84	Shut-In(2)			
,	231	1300.01	110.68	End Shut-In(2)			
9	235	1295.15	110.02	Final Hydro-static			

#### Recovery

Length (ft)	Length (ft) Description	
615.00	GOSMCW 9%G 2%O 70%W 19%M	7.02
560.00	GOSWCM 7% G 2% O 22% W 69% M	7.86
100.00	DM 100%M	1.40
0.00	TS VSO&VSMCW 3%O 93%W 5%M	0.00

Gas Rat	es	
Choke (inches)	Pressure (noid)	Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 66624 Printed: 2021.01.02 @ 18:10:31



Raney Oil Company, LLC

32/33S/6E/Cowley, KS

4665 Bauer Brook Court Law rence, KS

66049-9013

Job Ticket: 66624

House #2A

DST#: 2

ATTN: Tom Raney/Roger Mart

Test Start: 2021.01.02 @ 06:32:00

# **GENERAL INFORMATION:**

Formation: **Bartleville Sans** 

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) ft (KB)

Time Tool Opened: 08:32:20 Time Test Ended: 14:58:39

Tester: Jimmy Ricketts

Unit No: 80

1131.00 ft (KB)

1123.00 ft (CF)

2665.00 ft (KB) To 2900.00 ft (KB) (TVD) 2900.00 ft (KB) (TVD)

Reference Bevations:

KB to GR/CF: 8.00 ft

7.88 inches Hole Condition: Fair Hole Diameter:

Serial #: 8846 Inside

Interval:

Total Depth:

Press@RunDepth: psig @

2666.00 ft (KB)

Capacity: Last Calib.: 8000.00 psig

1899.12.30

Start Date: 2021.01.02 Start Time: 06:32:01

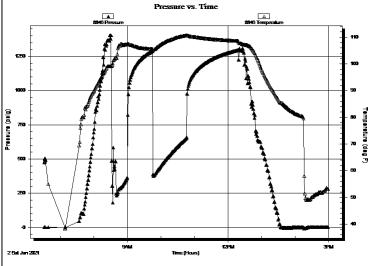
End Date: 2021.01.02 End Time: 14:58:50

Time On Btm:

Time Off Btm:

TEST COMMENT: IF - Weak blow building to strong blow 3 minutes into initial flow period. Continuing to build to 96 inches of water.

FF - Weak blow building to strong blow 3 minutes into final flow period. Continuing to build to 177 inches of water.



Ы	RESSUF	RE SU	MMARY

#### Recovery

Length (ft)	Description	Volume (bbl)
615.00	GOSMCW 9%G 2%O 70%W 19%M	7.02
560.00	GOSWCM 7% G 2% O 22% W 69% M	7.86
100.00	DM 100%M	1.40
0.00	0.00 TS VSO&VSMCW 3%O 93%W 5%M	

#### Gas Rates

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

Ref. No: 66624 Printed: 2021.01.02 @ 18:10:32 Trilobite Testing, Inc



**FLUID SUMMARY** 

Raney Oil Company, LLC

32/33S/6E/Cowley, KS

4665 Bauer Brook Court Law rence, KS

ATTN: Tom Raney/Roger Mart

66049-9013

House #2A

Job Ticket: 66624 DST#: 2

Test Start: 2021.01.02 @ 06:32:00

#### **Mud and Cushion Information**

Mud Type: Gel Chem Cushion Type: Oil API: deg API Cushion Length: Mud Weight: ft Water Salinity: 58000 ppm

9.00 lb/gal Viscosity: 61.00 sec/qt Cushion Volume: bbl

> 7.20 in<sup>3</sup> Gas Cushion Type:

Resistivity: Gas Cushion Pressure: ohm.m psig

Salinity: 1400.00 ppm Filter Cake: inches

# **Recovery Information**

Water Loss:

#### Recovery Table

Length ft	Description	Volume bbl
615.00	GOSMCW 9%G 2%O 70%W 19%M	7.024
560.00	GOSWCM 7%G 2%O 22%W 69%M	7.855
100.00	DM 100%M	1.403
0.00	TS VSO&VSMCW 3%O 93%W 5%M	0.000

Total Length: 1275.00 ft Total Volume: 16.282 bbl

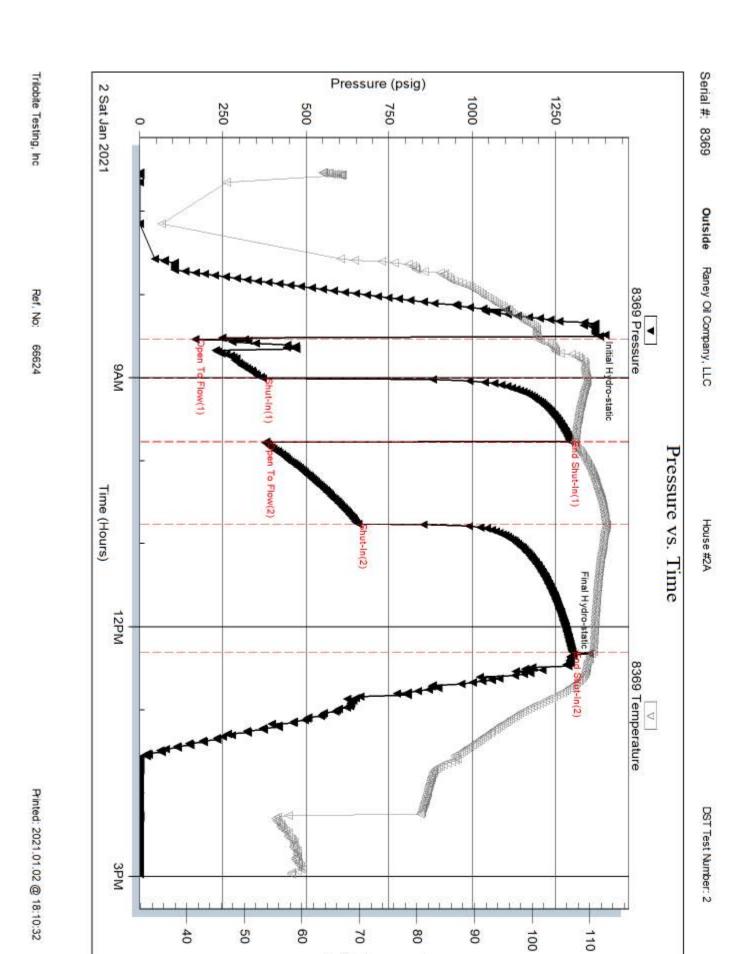
Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

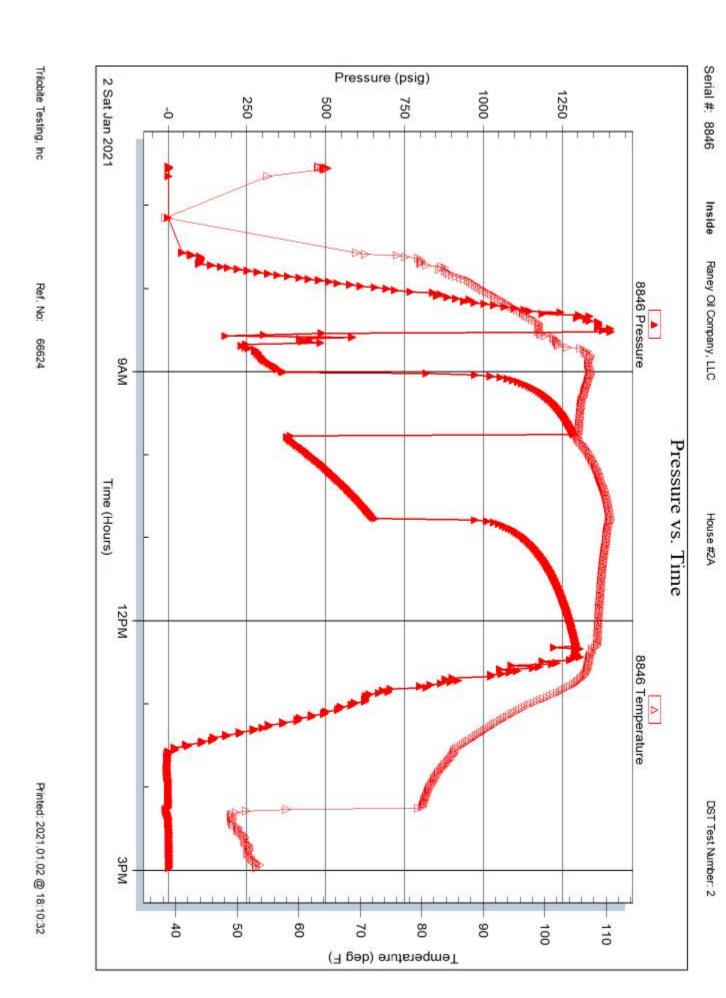
Serial #:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 66624 Printed: 2021.01.02 @ 18:10:32



Temperature (deg F)





Raney Oil Company, LLC

32/33S/6E/Cowley, KS

House #2A

Unit No:

Job Ticket: 66625

4665 Bauer Brook Court Law rence, KS

66049-9013

Test Start: 2021.01.03 @ 11:04:00

80

Reference Bevations:

ATTN: Tom Raney/Roger Mart Test

**GENERAL INFORMATION:** 

Formation: Upper Mississippian

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 12:46:10
Time Test Ended: 18:27:30

Interval: 2942.00 ft (KB) To 3063.00 ft (KB) (TVD)

Total Depth: 3063.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Tester: Jimmy Ricketts

1131.00 ft (KB)

DST#: 3

1123.00 ft (CF) KB to GR/CF: 8.00 ft

Serial #: 8369 Outside

Press@RunDepth: 24.45 psig @ 2943.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2021.01.03
 End Date:
 2021.01.03
 Last Calib.:
 1899.12.30

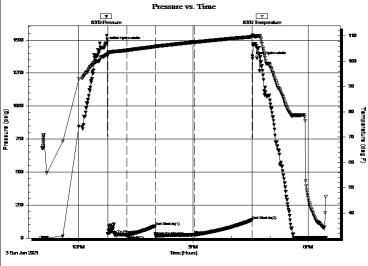
 Start Time:
 11:04:01
 End Time:
 18:27:30
 Time On Btm:
 2021.01.03 @ 12:44:30

Time Off Btm: 2021.01.03 @ 16:32:50

PRESSURE SUMMARY

TEST COMMENT: IF - Weak blow building to 3 inches of water during initial flow period.

FF - Weak blow building to 2 inches of water during final flow period.



1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1472.98	102.60	Initial Hydro-static
	2	28.64	102.41	Open To Flow (1)
	32	21.66	104.34	Shut-In(1)
	77	91.68	105.81	End Shut-In(1)
	77	17.00	105.81	Open To Flow (2)
	138	24.45	107.55	Shut-In(2)
,	228	137.28	109.68	End Shut-In(2)
,	229	1356.63	110.31	Final Hydro-static
				-

#### Recovery

Length (ft)	Description	Volume (bbl)
15.00	DMWTrO TrO & 100%M	0.21
0.00	TS VSOCM 4%O & 96%M	0.00
ļ		

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

Trilobite Testing, Inc Ref. No: 66625 Printed: 2021.01.03 @ 19:20:43



Raney Oil Company, LLC

32/33S/6E/Cowley, KS

4665 Bauer Brook Court Law rence, KS

66049-9013

Job Ticket: 66625

House #2A

DST#: 3

ATTN: Tom Raney/Roger Mart

Test Start: 2021.01.03 @ 11:04:00

# **GENERAL INFORMATION:**

Formation: Upper Mississippian

Deviated: Whipstock: Test Type: Conventional Bottom Hole (Initial) ft (KB)

Time Tool Opened: 12:46:10

Unit No: 80

Tester:

Jimmy Ricketts

Time Test Ended: 18:27:30

Interval: 2942.00 ft (KB) To 3063.00 ft (KB) (TVD) Reference Bevations:

1131.00 ft (KB) 1123.00 ft (CF)

Total Depth: 3063.00 ft (KB) (TVD)

KB to GR/CF:

8.00 ft

Hole Diameter: 7.88 inches Hole Condition: Fair

Serial #: 8846 Press@RunDepth: Inside

2943.00 ft (KB) psig @

Capacity: Last Calib.: 8000.00 psig

1899.12.30

Start Date: 2021.01.03 End Date: 2021.01.03 18:27:40

Time On Btm:

Temp

Start Time:

11:04:01

End Time:

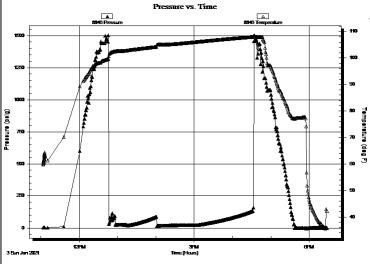
Time Off Btm:

Pressure

Time

TEST COMMENT: IF - Weak blow building to 3 inches of water during initial flow period.

FF - Weak blow building to 2 inches of water during final flow period.



(Min.)	(psig)	(deg F)

PRESSURE SUMMARY

Annotation

Recovery

Length (ft)	Description	Volume (bbl)
15.00	DMWTrO TrO & 100%M	0.21
0.00	TS VSOCM 4%O & 96%M	0.00

Gas Rates

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

Ref. No: 66625 Printed: 2021.01.03 @ 19:20:43 Trilobite Testing, Inc



**FLUID SUMMARY** 

Raney Oil Company, LLC

32/33S/6E/Cowley, KS

4665 Bauer Brook Court Law rence. KS House #2A

Job Ticket: 66625

DST#: 3

66049-9013

Test Start: 2021.01.03 @ 11:04:00

ATTN: Tom Raney/Roger Mart

**Mud and Cushion Information** 

Mud Type:Gel ChemCushion Type:Oil API:deg APIMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 46.00 sec/qt Cushion Volume: bbl

Water Loss: 9.59 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 5000.00 ppm Filter Cake: inches

# **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl	
15.00	DMWTrO TrO & 100%M	0.210	
0.00	TS VSOCM 4%O & 96%M	0.000	

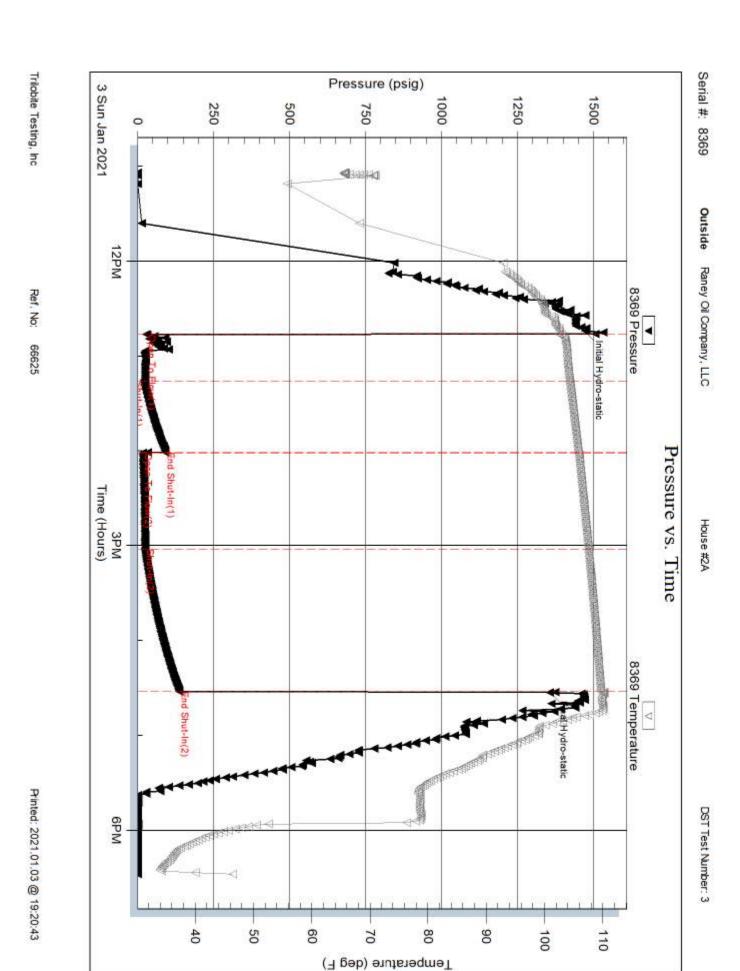
Total Length: 15.00 ft Total Volume: 0.210 bbl

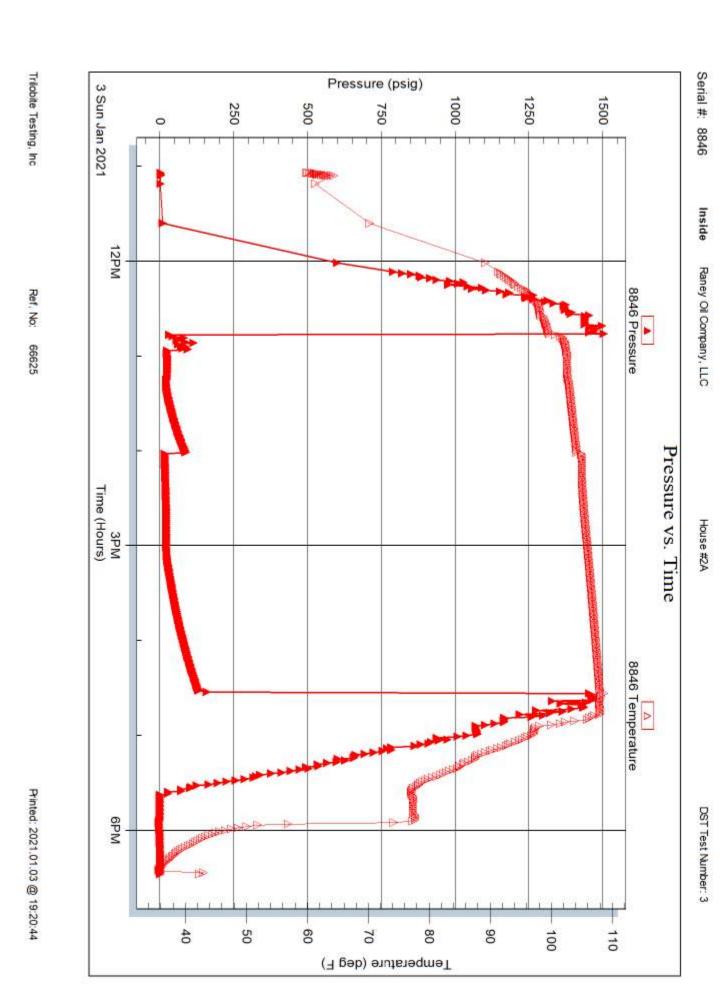
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 66625 Printed: 2021.01.03 @ 19:20:43





810 E 7<sup>TH</sup> PO Box 92 EUREKA, KS 67045 (620) 583-5561



Ticket No. 5370

Foreman David Gardner

Camp Eureka

API #15-0	35-247	726	MENTING		ZN	L		24,024	
Date	Cust. ID#		ase & Well Number		Section	Township	Range	County	State
12-22-20	1375	Hous	e # 2-A		32	33 S.	6E	Cowler	KS
Customer				Safety	Unit#	_	iver	Unit#	Driver
RA	Energy	1110		Meeting	105	Ja	Son		
Mailing Address				JH JH	H 112		eve		
11615 R	osewood	1 St. Si	te 100	SM		-	-		
City		State	Zip Code						
Leawo	od	KS	66211						
Job Type _ Se	urface	Hole D	epth 3481 /	K.B.	Slurry Vol	54 Bb1	Tu	ubing	
Casing Depth 347.95' K.B. Hole Size 12 1/4"					Slurry Wt				

Casing Size & Wt. 8 18 49				
Displacement Z1 Bbl	Displacement PSI	Bump Plug to	BPM	
Remarks: Safety Meeti	ng. Rig up to 8 %"	casing. Break	circulation w/ 10	Bbl fresh
water. Mixed 225	SKS Class A Cement	w/ 3% caclz,	2% Gel, 1/4" Flasca	1/sk @
15"/gal, vield 1.35 =	54 Bbl Slurry. D	isplace w/ 21	Bbl fresh water.	Shut down.
Close casing in Bood	I cement returns to .	surface = lo	Bbl to pit. Job	complete.
Rig down.				
3				TO A A STATE OF

	Qty or Units	Description of Product or Services	Unit Price	Total
0101	1	Pump Charge	890.00	890.00
C107	60	Mileage	4.20	252.00
C200 .	225 SKS	Class A' Cement	15.75	3543.75
CZO5	635#	Cac/2 3%	,63	400.05
C2060 1	425#	601 2%	.21	89.25
C209	55#	Floseal 1/4 4/sk	2.35	129.25
C108B	10.57 Tow	Ton Mileage - Bulk Truck	1.40	887.88
		Thank You	Sub Total	6.192.18
			Less 5%	323,14
	0	6.5 %	Sales Tax	270.55

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.

810 E 7<sup>TH</sup> PO Box 92 EUREKA, KS 67045 (620) 583-5561



Ticket No. 5356

Foreman Kevin MacCoy

Camp EureKa

20-27/26								
Cust. ID#	Lea	ase & Well Number		Section	Township	Range	County	State
1375	House	# 2-A		32	335	6E	Cowley	Ks
			Safety	Unit#	Dr	river	Unit#	Driver
ENERGY	110			101				
1/		78 1 1 1 1 1 1 1 1		110	Zevi	A.		
	d 57. 5	re 100						
			7 211			-		
od								
Job Type P.T.A. Hole Depth 3376  Casing Depth Hole Size 778  Casing Size & Wt. Cement Left in Casing  Displacement Displacement PSI			Slurry Wt Water Gal/SK Bump Plug to			Drill Pipe 41/2 Other		
AFETY MI	eeting:	Kig up to 4	1/2 DRI	LL Pipe, S	pot Cen	Pent Plug	5 AS Follow	uing.
	35 s/s	@ 3375						
	35 SKS	@ 350'						
	25 SK5	60' to SUA	FACE					
	30 SKS	IN RAT HOL	le.					
	Cust. ID#  1375  ENRRGY  ROSELUOO  Od  T.A.  Wt	Cust. ID# Lead  1375 House  ENRRGY LLC  Rasewood ST, ST, ST, State  AS Hole D  Hole S  Wt. Cement  Displa  PAFETY Meeting:  35 SKS  35 SKS  25 SKS	Cust. ID # Lease & Well Number  1375	Cust. ID #   Lease & Well Number     1375   House # 2-A     Safety   Meeting   KM   AM   AM   ZA     State   Zip Code   KS   66211     T.A.   Hole Depth   3376   Hole Size   778"   Wt.   Cement Left in Casing   Displacement PSI   DRIVER   AFERY   Meeting : Rig up to 41/2 DRIVER   35 5KS @ 3375	Cust. ID # Lease & Well Number Section  1375 House # 2-A  Safety Unit # Meeting 104  KM 110  Rasewood 57, 57e 100  State Zip Code  KS 66211  T.A. Hole Depth 3376 Slurry Vol.  Hole Size 778" Slurry Wt.  Cement Left in Casing Water Gal/Sh  Displacement PSI Bump Plug to  PAFETY Meeting: Rig up to 41/2 DRILL Pipe, S  35 5KS @ 3375  35 5KS @ 350'  25 5KS 60' to SURFACE	Cust. ID#   Lease & Well Number   Section   Township     1375	Cust. ID#   Lease & Well Number   Section   Township   Range     1375	Cust. ID#   Lease & Well Number   Section   Township   Range   County

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C /03	1	Pump Charge	1100.00	1100.00
C /07	60	Mileage	4.20	252.00
C 203	125 sks	60/40 Pozmix Cement	13.40	1675.00
C 206	430 4	GeL 4%	. 21	90.30
C 108B	5.38 Tons	Ton Mikage	1.40	451.92
		•		
			-	
		THANK YOU	Sub TotAL	3569.22
		AA 6.5%	Less 5% Sales Tax	184.20
Authoriz	zation _	OUGST OLTHO	_ Total	3499.76

I agree to the payment terms and conditions of services provided on the back of this job ticket. Any amendments to payment terms must be in writing on the front of this job ticket or in the Customer's records at ELITE's office.