KOLAR Document ID: 1568472

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. R
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. xxx.xxxxx) (e.gxxx.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)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	Leading of field floorest life and of the
	Location of fluid disposal if hauled offsite:
☐ EOR         Permit #:           ☐ GSW         Permit #:	Operator Name:
L GOW	Lease Name: License #:
Could Date or Date Decembed TD Commission Date or	Quarter Sec TwpS. R
Recompletion Date  Date Reached ID  Completion Date or  Recompletion Date	County: Permit #:
Spud Date or Pate Reached TD Completion Date or Recompletion Date Recompletion Date	

#### **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: 1568472

#### Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	Ea	ast West	County:				
	flowing and shu	ıt-in pressures, w	hether 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	. Digital electronic log
Drill Stem Tests Ta			Yes No		_	on (Top), Depth ar		Sample
Samples Sent to G	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					
		R			New Used	on, etc.		
Purpose of Strir		Hole	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / S	QUEEZE RECORD	I		
Purpose:		epth Ty	pe of Cement	# Sacks Used		Type and F	Percent Additives	
Protect Casi								
Plug Off Zon								
<ol> <li>Did you perform a</li> <li>Does the volume o</li> <li>Was the hydraulic</li> </ol>	of the total base f	luid of the hydraulic	fracturing treatment	_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three (	,
Date of first Producti Injection:	ion/Injection or Re	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:			N INTERVAL: Bottom
	_	on Lease	Open Hole			mmingled mit ACO-4)	Тор	Bottom
,	, Submit ACO-18.)				· · · · · · · · · · · · · · · · · · ·			
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 /	At:	Packer At:				
. 5213 (1200) 10.	JIEG.			. 30.0.71				

Form	ACO1 - Well Completion
Operator	Raney Oil Company, LLC
Well Name	JONES 2B
Doc ID	1568472

## 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	24	348	Class A	200	3%ca2%g el
Production	7.785	7.875	17	3326	thick set	225	6%gel

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



Cement or Acid Field Report
Ticket No. 5399
Foreman David Gardner
Camp Eureka

API# 15-035-2473	CEMENTING		M		Camp _	Eureka	
Date Cust. ID#	Lease & Well Number		Section	Township	Range	County	State
1-19-21 1375	Jones # 2B		6	348	6€.	Cowley	KS
Customer		Safety	Unit#		ver	Unit #	Driver
RA Energy	LLC	Meeting	105	ZQS			
Mailing Address		DG JH	110	Stev	6		
11615 Rosewood	d St. Ste. 100	Sm					
City	State Zip Code						
Leawood	KS 66211						
Displacement Z1 Bb1  Remarks: Safety M.  Mixed Z00 SKS  yield 1.35 = 48	24 Cement Left in Casing 15'1  Displacement PSI  eeting Rig up to 85/8  Class A' Cement w/  Bb1 slurry. Displace  cement returns to	" casing 3% Casing	21 Bhl	Ges 44	otton w/	10 Bbl fre	99/

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C101	1	Pump Charge	890.00	890.00
C107	60	Mileage	4.20	252.00
(200	200 SKS	Class 'A' Cement	15.75	3150.00
205	565#	Caclz 3%	.63	355.95
C206	375*	Gel 2%	,21	78.75
C209	50#	Flosea / 1/4 #/SK	2.35	117.50
708B	9.4 Tons	Ton Mileage - Bulk Truck	1,46	789.60
		Thank You		
			Sub Total	5,633.80
			Less 5%	293.72
	4	65%	Sales Tax	240.64
Authoriz	ration Musi	1 Vasque Title Pusher	Total	5,580.72

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



Cement or Acid Field Report
Ticket No. 5424
Foreman Kevn McCoy
Camp Euseka

Date	Cust. ID#	Leas	e & Well Number		Section	Township	Range	County	State
1-25-21	1375	Jon	es # 2 B		6	345	66	Cowley	15
Customer				Safety	Unit #		iver	Unit#	Driver
R.A.	ENERgy			Meeting	104	AlAN		Oint #	Dilvei
Mailing Address	11			Km	110	Steve			
11615	Rosewood	d 57. 57e	100	Sm!	115	Josh	V.		
City		State	Zip Code	JV					
Leawoo	d	15	66211	1					
Displacement_ Remarks: SA Viscosity	rety Meet	ting: 51/2" 1	7 CASING Se	+0.3	326 KB	CIRCULAT	BP	her <u>PBTD</u> 32	4. P.
BL 5/URRY	· TAIL IN	w/ 150 5H	CEMENT W/	Gement	2#Pheno	Seal /SK	@ 13.3°	19AL, YIEld 1.	57 = 21
Jown Plug	. DISPLA	ce Plug to.	SEAT W/ 77.	5. RH. +	Resh was	tes Fina	Shot d	Las Releas	LATCH
somp 1/09	70 /600	151. Keleh	se Pressure	. TIGAT	& Plug .	Held. Go	od CIRCU	lation @ ALL	times

flug RAT Hole W/ 25 SKE 60/40

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C 102	1	Pump Charge	//00.00	1100.00
C 107	60	Mileage	4.20	252.00
203	100 sks	60/40 POZMIX CEMENT	13.40	1340.00
206	515 #	Gel 6% 75 sks Lend Cement	.21 #	108.15
208	200 #	Pheno Seal 2#/sk / 25 sks R.H.	1.30 *	260.00
2 201	150 SKS	THICK SET CEMENT \	20.50	3075.00
207	750 *	KOL-SEAL 5#/SK TAIL CEMENT	.47 *	
208	150 #	Phenoseal 1=/sk	1.30 1	352.50
C 211	50 *	CFZ-115 1/3%		195.00
108 B	12.55 TONS	Ton Mileage, 60 miles	11.00	550.00
691	1	5 1/2 Guide Shoe	1.40	1054,20
674	1	51/2 AFU FIGAT COLLAR W/ LATCH down	175.00	175.00
604	2	51/2 Cement BASKet	359.00	359,00
504	/1	51/2 × 71/8 Centralizers	236.00	472.00
421	1	51/2 LATCH down flug	50.00	550.00
222	5 gals	Kol (IN FIRST 40 BBL DISPLACEMENT WATER	242.00	242.00
	7	HOS (IN THE THE BEET OF THE EMENT WATER	30.00	150,00
			Sub TotAL	10, 234.85
		THANK YOU	Less 5%	537.19
	(1)	)	Sales Tax	508.86
Authoriz	ation /	Begen West State Title	Total	10,206.52

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.

COU	01/19/2021	VNSHII KE DRI				CASING  RFACE  8 5/8" set @ 348"	' KB w/200 sks
RTD ELI: MEI	3334'	]	COMP 01/25/ LTD 3334' CAL SURVEYS	SAMPLES	Ct	ass A Common, 3%cc 2% gel	1/2" set @ 3326'
HEED LATA STAIL LANS UPPER MAIN KAN	BNER AN LNKER SS SING/LAYTON ZN ER LAYTON SS N LAYTON SS SSAS CITY		1358' (-223) 1654' (-519) 1694' (-559) 2096' (-961) 2135' (-1000) 2182' (-1047) 2289' (-1154)	1361' (-226) 1654' (-519) 1693' (-558) 2095' (-960) 2136' (-1001) 2182' (-1047) 2287' (-1152)	01/18/20 12 1/4" I 01/19/20 set @ 34 SHS @ 3 01/20/20 system @	21- MIRU Duke Drilling, Rig nole @ 10:45 PM. 21- Drlg @ 190' @ 7AM. Run 8' w/ 200 sks Class A, 3%cc 2' 548' = 1/2 deg. 21- Drlg @ 572' @ 7AM. Disp	#2. SPUD 1 5 5/8" csg % gel.
DOD DENI SWO HER MAR ALTA PAW FOR	DDS CREEK SS NIS DPE		2301' (-1166) 2363' (-1228) 2383' (-1248) 2437' (-1302) 2540' (-1405) 2558' (-1423) 2603' (-1468) 2637' (-1502) 2678' (-1543)	2302' (-1167) 2362' (-1227) 2383' (-1248) 2436' (-1301) 2540' (-1405) 2558' (-1423) 2602' (-1467) 2639' (-1504) 2678' (-1543)	01/22/20 01/23/20 01/24/20 01/25-20	21- Drlg @ 1421' @ 7AM. 21- Drlg @ 2360' @ 7AM. 21- CFS @ 2896' @ 7AM. 21- Drlg @ 3266' @ 7AM. 21- Brunning 5 1/2" production LTD 3334' @ 7 AM.	on casing
MISS COW RTD	SISSIPPIAN LS VLEY FACIES V/LTD  MARKS: 01/25/2021-		2954' (-1819) 3141' (-2006) 3334' (-2199)	2953' (-1818) 3136' (-2001) 3334' (-2199)	ap to bring		
	viscosity of n 75 skx 60/40 slurry. Tail in @ 13.8#/gal, Displace Pluj 1600 psi. rek Rig down. Ti	nud down to Pozmix Cem n w/ 150 sks' yield 1.75= 4 g to seat w/ 7 case pressure cket #5424 le w/ 25 sks 6 on #2, 4, 6, 8	40. Rig up to cement. Br nent w/ 6% Gel, 2# Phen Thick Set Cement w/ 5# 47 bbl slurry. Wash out p (7.5 bbl fresh water, Fina e. Float & Plug held. Goo 60/40 e. 9, 16, 18, 24, 26, 28, 34	eak circulation w/ 5 bbl frest wa oSeal/sk @ 13.3 #/gal, yield 1.57 Kol-Seal/sk, 1# PhenoSeal/sk, 1/ sump & lines, Shut down, Relea: Il pumping pressure 1100 psi. B d circulation @ all times while of	tter. Mixed 7 = 21 bbl 73% CFL- 115 8e latch down plug. 9 ump plug to	plete.	
	Respectfully Roger L. Ma	rtin, Geologi					
Q <sup>f</sup>	ORDERING TRUE  ORDERING  O	1300	SH: gy-blk & gn-gy LS: dk gy, argil Mo		NS.	**KELLY DOWN SA **DISPLACE MUD	AMPLES**
	-с-		LS: AA, dn - argil l SH: gy-blk, subcart	Mdst.			
	0 5 10 -c-	1350		blk carb- Vcarb. dst & dn w/VPr- NV Poro. nted (Vgt'd) gn-gy, sndy Silts &	& SH & mrn-rd SH	1361' (-226) HEEBNER	
	- <b>c-</b>	1400					
	-c-	1450	LS: tn-cm-gy, ux- f NS. sm LS: AA & dn M Pred SH: Vgt'd, AA		s w/ VPr- Fr Poro.		
	5 -c- 10		VAbndt Vgt'd SH:	mrn-rd, gn-gy & gy-blk.			
	5 10 -c-	1500	Pred SH: Vgt'd & d	Vfn Gr'd & Silty SS- Sd Clus			
	vis 55 wt 8.0 LCM 2#	1550		& Sndy SILTS- Silty SS, AA Pred dn Mdst- Wkst & ux- dr			
	-c-		Pred SH: dk gy- bll	ς.			
	0 5 10 -c-	1600	SH: Pred gy.				
	-c- 0 5 10	1650	Rr Vearb SH (~305 LS, As below  {IATAN} LS: tn-cr fnxln w/ Pred VPr-	y & gn-gy, sm blk carb.  n-wh & gy-bn, motl'd Pkst & Pr visbl Poro, NSO.  gy & gn-gy, Rr sndy SILTS, N		1654' (-519) IATAN	
	-C-	1700	bf-gy, bf- TnSTN, l Gr's, mod- well sor	AKER} SS- Sd Clust: Pred gy Pred Vfn- md Gr'd, vfn- fn gr'd 'd, well cmt'd to fribl w/ Rr sa 'd, well cmt'd To STN Tree (d	l, rnd'd- subanglr at brt FLR, SI-	~10-12 UBGG 1693' (-558) UPPER STALNAKE ~15 UGK {SI- Fr SFO)	R
	-c- 10		FLR- STN-Cut. ~  Abndt Silty SS: gy,  {MAIN STALNA subfribl w/ Fr- gd F	i, Odor, Lt Tn STN, Trc Gd 15 UGK, ~26 UTG. Vfin Gr'd, VPr- Pri visbl Poro KER} SS: gy & gy-bf, Vfin- fr Poro, VRr <5% w/ spt'd- sat l N, Cut. >95% barren.	, Pred barren. n Gr'd, sm fribl &	(VSI SFO)	
	0 5 10	1750	Abndt Silty Sd Clu AA, Pred gy, Vfn C barren.	st w/ VPr- Pr visbl Poro & bar or'd, silty, sm shly w/ VPr- Pr v	ren SS- Sd Clust, visbl Poro &		
	- <b>c</b> -	1800	Shrp Incrs SH: dkg	y-blk. gy-bf, Vfn Gr'd, Pred well cm	t'd- subfribl w/		
	-c- vis 50 wt 9.2 LCM 2#		VRr Sd Clust: AA, Abndt SH: dk gy-b	Pred Pr- VPr visbl Poro, NSC lk.	<b>)</b> .		
	0 5 10 -c-	1850	Pred SH: AA, dk g Incrs SS- Sd Clust: VRr fn- md Gr'd, g STN-Cut.	y- blk, sm Vgt'd. Pred Vfn gr'd, lt gy- wh, well y- Tn OSTN, sm fribl , < <b>5% v</b>	cmt'd- subfribl, w/ FLR-SFO-	{Trc SFO)	MUD CHECKS by MUD-CO Drlg @ 1860' wt 9.1, vis 45 PV 12, YP 14 pH 11.0, WL 8.0 Cl 1450, LCM 2# ECD 9.96
	wt 9.2 LCM 1# -c-	1900	SS- Sd Clust: AA, '	x & Mdst Wkst, sm argil, VPr Trc SFO- FLR, AA. 'fn- fn Gr'd, Pred well cmt'd- s o, >99% barren w/ NSO. Pred	ubfribl w/ NS. Rr		
	0 5 -c- 10	1950	Silts: gy, Vfn gr'd, v	ty Sd Clust w/ Pr- NV Poro. N			
	-C-		Abndt SH: dk gy-b				
	0 5 10 -c-	2000	Pred SH: dk gy- bll				
	vis 58 wt 9.4 LCM 2#	2050	Tre LS: dn- argil (VRr Snd Clust, Az Abndt SH: Pred dk				
		2100	SILTS: gy & SH: A  {LANSING/UPPF fos & Mdst w/ VPr-	ER LAYTON} LS: gy-bn-tn, o	dn & argil Wkst-	2095' (-960) LANSING	
	0 5 10  -c- vis 54 wt 9.4 LCM 2#		Poro, NSO.	n sndy, Vfn Gr'd & Silty Sd C N SS} 2144' Circ Spls- SS- Sc		~13-7 UBGG 2136' (-1001) UPPER LAYTON SS	
	CFS 20/40/60"  0 5 10	2150	Hi- low sphr, modilty & Vmicac, ~30 OSTN, Fr- Gd SF oil-gas Odor.  SS- Sd Clust: AA, 3 Gd Poro w/ sat ST Trc SFO- FLR- S blk SH. SS- Sd Clust: lt-md	I Gr'd, Pred Vfn- fn Gr'd, Pred well sort'd, well cmt- fribl w/ 19% w/ Fr- VGd Poro w/ sub O & Gas Bubls & milky Cur SI Incrs Silty & micac w/ Pr- I'N- FLR- SFO- Cut, sm Silts TN- Cut in Silty Sd & Sndy Sub, Pred Vfn- fn Gr'd, silty, no FLR- STN Cut	Pr- VGd Poro, sm sat- sat FLR & t, Frly Strng  Fr visbl Poro, Rr s & silty Sd Clust, EILTS: gy w/ sm	**20' DRILLING SA {Trc SFO}	
	0 5 10 -c-	2200	{MAIN LAYTON 2220' Spl, compare SFO in 2200' Spl. vfn- fn Gr'd & silty ~5%<10% w/ sub	O-FLR-STN-Cut.  SS3 Incrs Sd Clust w/ FLR-Sd to 2200' Spl, <5% w/ subs. SS-Sd Clust: It gy-bf, Rr tn-b. & micac w/ sm Fr- Gd visbl & sat- sat FLR- OSTN, Fr SF	nt- sat FLR- on OSTN, Pred & aprnt IGr Poro, O- Cut.	2182' (-1047) MAIN LAYTON SS {Fr SFO)	
	-C-		Incrs in prt md Gr'c & Cut w/ Fr Odor calc & Imy. Pred b	d gy & bf, Vfn- md Gr'd, Pred l, well rnd'd- subanglr, <b>sm fril</b> r, sm well cmt'd- subfribl w/ F sarren. Pred Vfn- fn Gr'd, Rr Vfn- md m VSilty & micac & sm calc	bl w/ Fr- Gd SFO Pr visbl Poro, sm Gr'd, VRr FLR-	{VSI SFO)	
	0 5 10 vis 65 wt 9.4 LCM 2#	2250	Pred SH: gy- blk, F SH: AA, Incrs subc	earb- carb, sm calc & lmy.			
	-c- vis 67 wt 9.5 LCM 2#	2300	{KANSAS CITY} wh chlky w/ Vpr- N  {DODDS CREEK subfribl w/ Pred Pr-	LS: gy-tn-wh, Pred dn- ux Mov Poro.  SS- Sd Clust: gy, Vfn- fn Gr. Fr visbl Poro: IGr Poro, spt'llor, Pred silty, sm calc & lmy	r'd, well cmt'd- d- subsat FLR,	2287' (-1152) KANSAS CITY  2302' (-1167) DODDS CREEK {SI- Fr SFO)	
	0 5 10	2350	SS: AA, Pred silty, SS- Silty Sd: gy, Pr	Trc FLR- SFO. ed Vfn Gr'd, well cmt'd & mic	eac, sm shly.	{Trc SFO)	
	-c- vis 60 wt 9.5 LCM 2#		Poro, NS.  {SWOPE} LS; dk sm argil.	cm, dn- mx- finx & Wkst, Rr F gy-bn, dn Mdst & ux- dn, VPr Mdst w/ VPr- NV Poro.		2362' (-1227) DENNIS 2383' (-1248) SWOPE	Drlg @ 2384' wt 9.55, vis 48 PV 19, YP 16 pH 10.0, WL 6.0 Cl 1500, LCM 2# ECD 10.33
	0 5 10 -c-	2400	SH: blk carb- Vcar			**ADD PREMIX**	
	0 5 10 -c-	2450	hd Mdst & Wkst, P  SH: blk carb.  LS: gy-tn, dn Mdst-  SH: AA  SILTS: gy, sndy &	n-gy-cm & dk gy-bn, ux- fnx, 'r- NV Poro.  Wkst, VRr fos Pkst, Pr- NV Sndy & Silty Sd Clust: gy, Vi w/ VPr- Pr Poro, Trc FLR- S	Poro, NS. fn- fn Gr'd, Pred	2436' (-1301) HERTHA {Trc SFO)	
	-c- vis 68 wt 9.5 LCM 2# vis 60 wt 9.4	2500	SH: sm blk carb- V SH- SILTS: gy.	carb.			
	LCM 2#		SH: Abndt gy, sm b	olk, sm Silts. .S: gy-tn-cm, sm Wkst- Pkst, 1	Fog w/ Pr. NV	2540' (-1405)	
	0 5 -c- 10  vis 53 wt 9.5	2550	Poro & ux, Pred dn  {ALTAMONT} L: finx, ~5% <10% w VRr md- crs 2Rx, I	S.: gy-tn-tn, siii wkst- Pkst, j Mdst, sm argil, NSO.  S: gy-bn-tn-cm mot, Wkst- Pk // FLR- SI SFO & Gs, SI Ode Pr- Fr Poro: pp- vug Poro, IGr Prt chlky, Abndt dn- VPr- NV	st, sm fos, & ux- or. Sl Cherty, & IX Poro w/ <b>Rr</b>	MARMATON  2558' (-1423) ALTAMONT {SI SFO- Gs Bub)	
	LCM 2# -c- 0 5 10	2600	sm argil.  SH: Pred dk gy, sm  {PAWNEE} LS: tn finxln, w/ VRr <5%	SFO- STN- FLR, AA. Pred dn blk carb. spy-wh, sm mot Wkst- Pkst, p Pr- Fr Poro: pp- vug Poro, IG ~5% w/ spt'd- subsat FLR,	ort chlky & ux- ir & IX Poro, Tre	2602' (-1467) PAWNEE {VSI SFO)	
	-c- vis 53 wt 9.6 LCM 2#	2650	LS: gy-tn-wh, Pred SH: blk carb & dk  {FORT SCOTT} Wkst- Pkst, sm sub ulGr Poro, uIX Por	dn to VPr visbl Poro, barren, gy, sm lmy & calc. LS: Pred dk-lt gy & tn, ux- dn chlky- chlky w/VPr- Pr visbl l o, sm ux- fnx, VRr lt OSTN p't - sat FLR & VSI SFO, SI	, sm argil, sm Poro: pp Poro, & FLR & Cut,	**ADD PREMIX**  2639' (-1504) FORT SCOTT {VSI SFO)	
	0 5 10  vis 59 wt 9.3 LCM 2#		argil.  SH: blk carb & sub LS: dk- lt gy-tn-wh		$^{\prime}$ Poro.	2678' (-1543) CHEROKEE	
	0 5 10  -c- vis 56 wt 9.5 LCM 2#	2700	Pred SH: dk- lt gy.				
	-c- vis 65 wt 9.5 LCM 2#	2750		rb SH, sm cale & lmy. n & argil Mdst- Wkst & cale S , ux- dn.	Silts.		
	-C-	2800	SH: blk carb- sbcar Rr Sd Clust: Vfn- fi Poro, NSO. VRr SILTS: lt gy, \$	, ux- dn.  b- dk gy, sm cale & lmy, Tre in Gr'd, well cmt'd- cale & lmy  Sndy: Vfn Gr'd, cale & lmy.  carb- Vcarb, sm pyrte.	Coal. w/ VPr- NV	**ADD PREMIX**	
	0 5 -c- 10  vis 63  wt 9.4c-  LCM 1#	00د.	SH: lt-dk gy SH &	x & dn Mdst, VPr- NV Poro, SILTS, sm calc & lmy.	NSO.		
	vis 65 0 5wt 9.3 10 LCM 2#	2850	STN- Cut)  SH: blk carb- Vcar				
	vis 52 wt 9.5 LCM 2# -c CFS 20/40/60 vis 50 wt 9.6 LCM 2#	2900	SILTS: gy, sndy, V gy-tn, Vfn- fn Gr'd, w/VPr- Pr visbl Por milky Cut. >99% l	fin- fin Gr'd & cale & sm Silty Tre prt md Gr'd, well- sbrnd'e ro, Tre FLR, Tre uspts Free barren. carb & gn-gy, sm pyrte.	l, well cmt'd- silty	{Trc SFO)	Wiper Trip @ 2896' wt 9.55, vis 52 PV 21, YP 18 pH 10.0 WL 6.8
	-c- vis 50		{MISSISSIPPIAN sm frsh to Sl wthr'd Poro, Tripole Poro,	sm mrn-rd.  w/ VPr- NV Poro  nlky, Cherty, VPr- NV Poro.  G CHERT: ~25% CHERT: w , ~5% Triplc- Wthr'd w/ Fr- V pp Poro, sm uFres , Pr visbl F	Gd Poro: uIGr Poro w/ <b>spt'd</b> -	2935' (-1800) MISS CHERT ~23 UGK {Fr- Gd SFO)	pH 10.0, WL 6.8 Cl 1400, LCM 2# ECD 10.29
	wt 9.5 LCM 2# 0 5 10 -c- CFS 20/40/60 vis 54 wt 9.9 LCM 0#	2950	subsat FLR, SI-G CHERT: AA, Tre ' {MISSISPIPIAN finxln, sm SI silie, N Poro, IX poro, uFr SFO & Cut, Fr O mldc Poro w/ FLF	d SFO- STN & Cut. ~75% I In bn OSTN- Tripole w/ VG is LS: wh-bf-gy, sm mot Wkst 'Cherty, AA, Pr- Fr visbl Poro & Edgs w/ spt'd- subsat FL dor. VRr Gd visbl Poro: vu; R - SFO- STN w/ Fr Odor.	.S. ~2947'- d Poro, SFO. t- Pkst & mx- pp Poro, IGr R- STN, SI- Fr g Poro, fos Poro, fos, sm chlky &	2953' (-1818) MISS LS (SI- Fr SFO) **ADD PREMIX & I	HULLS**
7	0 vis 61 10 wt 9.5 LCM 2#	3000	Vchlky, Pr- Fr Porc Gd Poro & Fr SF( (Frly Abndt SH cav  DLS: dk-md gy-bn, silic, Pred VPr- NV Edg & uIX Poro. C Tre uFre Poro & C	o w/ Rr spt'd FLR, SI SFO- S O, SI- Fr Odor, Cherty, sm ar zings in spls) , ux- Vfnxln, dolome & sm arg f Poro & barren. Tre FLR- SI HERT: gy-tn-wh, sm fos & gr hert w/ Tre FLR- SFO- Cut.	egil, sm Cherty & GO- Cut, uFre- rolr, prt shrp- frsh, LS: wh chlky &	{Trc SFO)	
	0 5 <b>-c</b> - 10	3050	Tre uFre Poro & C sbehlky, cm-gy-tn, w/ Tre SFO- FLR Cut.	hert w/ Trc FLR- SFO- Cut. sm Pkst- Wkst, sm ux- mdxln, - Cut. VRr <5% w/ brt FLF  not Pkst- Wkst, prt chlky to sn s Pkst, Pred Pr- Fr Poro: IGr F	LS: wh chlky & , sm Pr- Fr Poro & Trc SFO &	{Trc SFO)	
	vis 57 wt 9.5 LCM 4# -c-		uFrc Poro, sm silic sm sucro ux- fnxln FLR- Cut- STN. CHERTY: lt- dk g & Chlky & Cherty		Poro, Trc SFO- v/ FLR- Trc SFO Fr visbl Poro, <	{Trc SFO)	
	wt 9.5 LCM 3#	3100	Poro, Trc FLR-SF  LS: AA & tn-gy-bn	ux- finxln, Wkst- Pkst, sm fos O, sm Sl dolome LS. Sl Chert , ux- finxln Wkst- Pkst- fos, In r Poro, <b>Tre FLR- SFO- Cut</b>	ty. ers Pkst, Pred	{Trc SFO)	
	vis 57 wt 9.5 LCM 2#	3150	Poro, sm SI dolome NV Poro, NSO.	Pred Vdk gy-blk, dn hd ux & N LS: Vdk gy-bn-blk, dn Mdst , dn hd- ux, sm Sl dolome, sm loro, tre uFre- fill- 2Rx. NSO.	& ux- dn w/ VPr-	3136' (-2001) COWLEY FACIES	
	vis 47 wt 9.5 LCM 4#	3200	NSO. SI Cherty.	k, dn- hd, ux, silic & Mdst w/ Y			
	0 5 10	JUU	AA. V Cherty, LS:  LS: Aa, Incrs silic,  LS: Pred dk gy- blk	Tre Fre Edg w/ VSI 2Rx w/ F	LR & NSO.		
	wt 9.3 LCM 4#	3250	Poro, NSO. Tre uF  LS: dk gy-bn-blk, c  Poro, NSO. Abndt	re & Edg FLR- NSO. In argil Mdst & cryptox- ux, d argil, sm silic.	n w/ VPr- NV		
	vis 59 wt 9.4 LCM 4#	3300	Poro, NSO.  LS: AA, Incrs dn, s  LS: Incrs blk argil- & SH: It gy & blu-	argil dn Mdst & silie dn- ux- en ilie w/ VPr- NV Poro. shly Mdst & sm blk cale SH. gy, wxy.			
	-С-			nd gy & blu-gy, sm wxy. carb & calc & gy calc lmy ux, dn Mdst.			CFS @ 3334' wt 9.45, vis 52 PV 18, YP 17 pH 11.0, WL 6.0 Cl 600, LCM 3#
							Cl 600, LCM 3# ECD 10.11