KOLAR Document ID: 1526741

Confident	tiality 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 -	DESCRIPT	NFII &	IFASE
VVELL		DESCRIPT		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:, Long:				
Name:	(e.g. xx.xxxxx) (e.gxxx.xxxxx)				
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84				
Purchaser:	County:				
Designate Type of Completion:	Lease Name: Well #:				
New Well Re-Entry Workover	Field Name:				
	Producing Formation:				
☐ Oil ☐ WSW ☐ SWD □ Gas □ DH □ EOR	Elevation: Ground: Kelly Bushing:				
Gas DH EOR	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 EQR 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 #:	Dewatering method used.				
SWD Permit #:	Location of fluid disposal if hauled offsite:				
EOR Permit #:	Operator Name:				
GSW Permit #:	Lease Name: License #:				
	Quarter Sec TwpS. R East West				
Spud Date or Recompletion DateDate Reached TDCompletion Date or 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: 1526741

Operator Name:	Lease Name:	Well #:
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		۱ []	⁄es 🗌 No		Log Formation (Top), Depth and Datum			Sample		
(Attach Additional Sh					Nam	е			Тор	Datum
Samples Sent to Geolog Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:			∕es ∐No ∕es ∏No ∕es ∏No ∕es ∏No							
		Rep	CASING ort all strings set-o	RECORD [Ne			c.		
Purpose of String	Size Hole Drilled		ze Casing et (In O.D.)	Weight Lbs. / Ft.		Settir Dept		Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING	/ SQL	JEEZE REG	CORD			
Purpose: Depth Perforate Top Bottom Protect Casing		Тур	e of Cement	# Sacks Use	ed			Type and Pe	ercent Additives	
Plug Back TD Plug Off Zone										
 Did you perform a hydra Does the volume of the Was the hydraulic fractular 	total base fluid of the	hydraulic fr	acturing treatment		-	ons?	res	No <i>(If No, ski</i> p	o questions 2 an o question 3) out Page Three (
Date of first Production/Inj Injection:	ection or Resumed Pr	oduction/	Producing Meth	nod:		Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er	Bbls.	G	as-Oil Ratio	Gravity
DISPOSITION			_						PRODUCTIC Top	ON INTERVAL: Bottom
Vented Sold	Used on Lease		Open Hole			Comp. ACO-5)	Comming (Submit AC			
	foration Perfor Top Bott		Bridge Plug Type	Bridge Plug Set At					enting Squeeze of Material Used)	
TUBING RECORD:	Size:	Set At:		Packer At:						

Form	ACO1 - Well Completion
Operator	Quail Oil & Gas, LC
Well Name	BEARD 1-25
Doc ID	1526741

All Electric Logs Run

Compensated Density
Dual Induction
Micro Log
Sonic Log

Form	ACO1 - Well Completion
Operator	Quail Oil & Gas, LC
Well Name	BEARD 1-25
Doc ID	1526741

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	343	60/40	3%cc, 2% gel

	$ \frac{\partial p}{\partial t} = \frac{\partial u \partial t}{\partial t} \frac{\partial u}{\partial t} = \frac{\partial u}{\partial t} \frac{\partial u}{$					en la deservición de la deservición de La deservición de la d	
810 E 7 [™] PO Box 92 EUREKA, KS 67045 (620) 583-5561	CEMENTING & ACID S	SERVICE,	LLC		Ticket No Foremar	or Acid Field 5. 513 David (Eurcka	30 Surducz
AP1 [#] 15-035-24719 Date Cust. ID#	Lease & Well Number		Section	Township	Range	County	State
	Beard # 1-25		25	30 S.		Cowky	KS
Job Type P.T.A. New We	Industrial Dr. ate ZipCode KS 67846	Safety Meeting DG 3 H 3 U	Unit #	<u> </u>	<u>ch</u>	Unit #	Driver
Casing Depth	_ Hole Size <u>7 78</u>		Slurry Wt			Il Pipe	16.60*
Casing Size & Wt	Cement Left in Casing		Water Gal/SK		Oti	ner	
Displacement	_ Displacement PSI		Bump Plug to		BP	M	
Remarks: <u>Safety Meet</u>							
	35 sks	7907	288`				
	25 SKS	@	60' to .	Sur face			
	20 SKS	in i	Rathele				
	15 SKS	in 1	Mousehole				
	95 SKS	Tota	/				
						-	
			*			1. 	

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C103	1	Pump Charge	1100.00	1100.00
C107	60	Mileage	4.20	252.00
C203	95 5KS	60/40 Pozmix Cement	13.40	1273.00
C206	325 4	Gel @ 4%	. 21	68.25
(108 A	4.08 Tons	Ton Muleage - Bulk Truck	infe	365.00
			· · ·	
-				
		Thank You	SITI	2 100 20
			Sub Total	3,058.25
		6,5%	Less 5% Sales Tax	87.18
Authori	 zation	۲۰ در بن ۲۵ آ	Total	2,988.16

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.

Cement or Acid Field Report					
Ticket No.	5168				
Foreman	hussell mary				

Foreman

Camp	EVICE	A

(620) 58	33-5561	CE	MENTING & ACID	SERVICE,				EvickA	
Date	Cust. ID #	Le	ase & Well Number		Section	Township	Range	County	State
Aug-2-20	ICIE	EEARL	1-25		25	30	3	Coulty	tes
Customer				Safety	Unit #		iver	Unit #	Driver
GUAN _	cil +	CAS	1	Meeting	<u> </u>	AP Tue			
Mailing Address	Rustin	AL Priv	Σ	AB	10 122				
City Generit+	- City	State	Zip Code						
S.C. It	×K	25	61746		· · · · · · · · · · · · · · · · · · ·				
Job Type5//		Hole D	epth <u> </u>		Slurry Vol.	O BEI	Ти	bing	
Casing Depth_3	43 80	E Hole S	Size///		Slurry Wt	12.7	Dr	ill Pipe	
			t Left in Casing <u>75</u>	1 -	Water Gal/SK	<u> </u>	Ot	her	
			icement PSI					M M	· · · · ·
Remarks: <u>Sf</u>	isity m	1+++ing	Rig to BY	E CAS	NG ELER	16 Circuli	Ation Fr	- Ric G.) S ເ ^ຟ
LIC EA	de tu r	nui Eu	nt, circlint	= For	is mir	J w/mu	<u>h +0 6</u>	len-Hilt.	
R: 2 + 6 0	ennest.	Pump 5	BOI WATT	mix	225 SI.	2 60/40	puzmiz	x uf 37. C	κ
22. Gel	14 # Flue	:l= = 6	Sluiry A	13.9#	DictAce	u12012	water	Lerve 20'	7 -
			to fit clo						

、810 E 7[™] PO Box 92 **EUREKA, KS 67045**

TIMK 40	
Tresell Melay	62 41
	清

Code	Qty or Units	Description of Product or Services	Unit Price	Total
C-101	1	Pump Charge	896.00	57216
C INT	50	Mileage	4.3 5	<u>975.70</u>
6-3	200	<ns 40="" 42="" permix<="" td=""><td>12.46</td><td>74 <u>Ro</u>. 04</td></ns>	12.46	74 <u>Ro</u> . 04
C 205	5.00#1	CACILL SY	. 63	315.00
e zut	_~40 [₽]	6-1 = 2.1	. 27	11.40
e - 18 1	4		2. J. J	117.50
6-202	20	Ski 61/40 Pointix (LOALEL FOR Extin File LASK)	12.46	335.06
chog B	8.6	TU-nilling= Balk Truck St nullis	1.40	602.00
			Sil TUINI	5.1228.70
		6.59	∧ Sales Tax	<u>< 2912.47.7</u> 277.13
Authoriz	ration by Lie	114 House Inta Title Cir Co. Ander	Total	5111.15

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.

INDEPEN		R L. MART		-250-6970		
		GIST'S REF	0.0000000000	Т		
COMPANY QUAIL OIL & LEASE <u>BEARD #1-25</u> FIELD <u>TREES</u> LOCATION <u>990' FSL & 33</u> SECTION <u>25</u> TOWNSH	5' FEL (~NE-SE-{ IP_ <u>30S_</u>	RANGE 03E	Mea Fron	ELEVA1 <u>1168'</u> G surements Ar n <u>KB: 1168'</u> <u>15-035-24</u>	iL <u>1156'</u> e All	
COUNTY COWLEY CONTRACTOR LIGHTHO SPUD 08/01/2020 RTD 3031' (-1863) ELECTRI ELI: DIL & CDL/CNL; & SONIO NO DST'S	DUSE DRILLII СОМР <u>08/06/:</u> LTD <u>3025' (-1</u>	NG , LLC. Rig#1 2020 1857)	Cmt'	CASING FACE ^{885/8"× 23#@} d w/ 225s× 60/40 Poz+ DUCTION NONE	§ 338'	
FORMATION TOPS	LOG	SAMPLES		CHRONO	LOGY	
HEEBNER SH	1701' (-533) 2015' (-847)	1706' (-538) 2013' (-845) 2010' (-954)	Ran 8jts o		8.54') set @~350' cmt'd	
STALNAKER SS LAYTON SS KANSAS CITY GROUP SWOPE LS HERTHA LS BASE / KANSAS CITY	2019' (-851) 2193' (-1025) 2361' (-1193) 2525' (-1357) 2555' (-1387) 2606' (-1438)	2019' (by ELITE 8/2/2020; & Drill~25 8/3/20; Dr RPM:150 S#:RB; Je	0/40 POZ+3%CaCl+2% Ticke#/5168; PlugDow WOC @ 7:00; Nipple u "omt & drlg out under si "g 7&7/8"hole @ 1063" ; PP:494PS1; Bit:Logic; ts:4 14, 2-18; Deviatior {@936"} CI:680ppm; C.	n@5:00am/8/02/2020 p; drill mouse hole; TIH urface @ 18:00. @~7:00am; WOB:7K Type:PDC;1616D6B; h Survey:3/4deg.@842'	
MARMATON GROUP PAWNEE LS FORT SCOTT LS	2686' (-1518) 2736' (-1568) 2769' (-1601)	2689' (-1521) 2738' (-1570) 2773' (-1605)	PP:651ps YP:4; pH: Dev.Surve 8/5/20; Bi hole to R	Drlg @~2374' @~7:00am; WOB:15K; RPM:116 psi; SPM:68; MdWt:8.8 {@2199'} Vis:32; PV:6; H:10.5; WL:16; CI:650ppm; Ca:48; Solids <~4% nveys:~1deg.@1968'; ~0.75deg.@2593'. Bit Trip/TIH @ 3004' @~7:00am; Drld 7&7/8'' RTD:3031' @~12:30pm; Bit:CH; (Tri-cone) 20R		
CHEROKEE GROUP ARDMORE LS CROWEBURG SH BARTLESVILLE ZONE	2801' (-1633) 2868' (-1700) 2879' (-1711) 2882' (-1714)	2806' (-1638) 2871' (-1703) 2883' (-1715) 2888' (-1720)	SPM:66; pH:10.5; \ Ca:32ppn CTCH & 17:45; Rig Rig up Ca 25sx@25"	003; jets:3x18s; WOB:30K; RPM:62; PP:752ps; 36; MdWt:9.4 {Drlg@3027'} Vis:52; PV:16; YP:16 .5; WL:9.9; CT:2/32; LCM:1.5#/bbl; CI:1750ppm ppm; Solids:~8%; Dev:Surrey:~1deg.@3031'; 1 & TOH for E-Logs @13:30; E-Logs from 14:45- ; Rig Dwn Loggers; Decision to P&A TIH & LDDP;) Cementers @~23:30; Plug well w/35sx@~383'+ #25'surface; 20sx in RH; 15sx in MH; 60/40POZ		
EROSIONAL MISSISSIPPIAN "SOLID" MISSISSIPPIAN CHERT "SOLID" MISSISSIPPIAN LS TOTAL DEPTH (LTD/RTD)	2957' (-1789) 2977' (-1809) 2987' (-1819) 3025' (-1857)	2960' (-1792) 2980' (-1812) 2990' (-1822) 3031' (-1863)	Job by ELITE 8/6/20; RTD:3031'; LTD:3025; Plugged; jet pits; Released rig @ 1:00am.			
REPECTFULLY SUB ROGER L MARTIN,	MITTED, GEOLOGIST AT WELL-	SITE				
UTH POROSITY DELLINGTIME DST	SAMPL	E DESCRIPTION		REMAR	кз	
	sm Sndy-Silty-LS; \ SH: pred dk-gy-bk LS: tn-gy-wh, sm-m	rS: gy-wh, Vfn Gr'd, sm calc & Vpr-pr Visbl Poro w/NS; NF; N ot- Pkst-fos, & microXln{ux}- w/VprNo Visbl Porosity {NV	IC; & K	orlg w/PDC Bit (elly Down {KD.) amples{spls) Vet cups & bags; k rewashed & Iried by RLM-Geo.	AJ's Services Mud check: 8/3/20 @ 17:40 Drlg @ 1500' WI:9.4 Vis:NC pH:8.0 WL:NC Alka.Md:0.58 Alka.FiltI:0.08 CI: 1830ppm Ca:56; CT:NC Solids:~8% LCM: NC	
1650	SH-SILTS: dk-Lt-gy,	,sm. calc&Lmy.	2			
	Pred SH:AA sm LS: dn & argilwa	/VprNVP;NS.				
	Vpr-NVP; NS. LS: wh-gy-tn, sub-cl	K, sm fos-Wkst-Pkst, sm argi⊦: hky to dn-Mdst-Wkstw/ pred ¹	а. -			
Heebner1700	V.Abndt-SH: sm bk-	@'Kelly Down{KD) sample{spß carb- V.carb; & abndt gy-bk S		1706' (-538) IEEBNER SH		
		& bk,& bk-carb:AA; ,ux-Vfn,X,sub.ch.lky&sm.silty- prVisb IPoro-NVP;NS.	- micac			

	Abndt LS: gy-wh, tn, ux-VfnX, subchlky & sm silty-micac & Vfnly Sndy; pred pr Visbl Poro-NVP; NS.		
	Silty-SSSndy-SILTS: Lt-gy, gn-gy, VfnGr'd, micac, pred Vpr-pr Visbl Poro w/ NS; NF; NC		
	SH: gy-bk, gn-gy sm LS:cm-tn-gy, ux-fnXln, pred pr-NVP; NS. Incrs LS: tn-gy-wh, sm mot-Pkst-Wkst, & subchky, pr-		
	SILTS: L± gy, micac. sm Silty-SS- Silty-Sd-Clusters: Lt-gy, VfnGr'd; Vpr-pr Visbl		
	Porow/NS; NF; NC; Incrs SILTS: Ltgy, micac.		
	sm SILTS:AA; pred SH: dk-gy, sm bk.		
) SH: pred dk-gy-bk, sm md-gy-silty & micao.		
	Very rare {Vrr} Sndy-SILTS & Tro Sitty-SS-Sd-Clusters: Lt-gy, shly; VfnGrd, Vpr Visbl Poro; NS; NF; NC.		
	Pred SH: gy-bk, sm bk-carb.		
	SH: pred dk-gy-bk, sm bk-carb; Trc SILTS: Lt-gy.		
• + -200	i i	2013' (-845)	
Stalnaker -	{IATAN} 2062'KD.spl} R are{Rr) LS: dk-gy-bn-tn, microXIn{ux} dn; Vpr-NVP; NS. STALNAKER SS} 2062'KD.spl} Very rare {Vr/) Sd Clusters: Lt-gy, Vfn-fn-Gr'd, friabl w/ Fr-Gd Poro; NSO{NoShowOi) NF{NoFLR) NC{NoCut} NO{NoOdor).	2013 (-845) IATAN LS 2019' (-851) STALNAKER SS	
	{2093'KD.spl} SS-Frly abndt Sd Clusters: Lt-gy-wh, Vfn- md-Gr'd, Rnd'd-angir, pred subangir, welk-mod-sort'd, subfriabl-friablw/pred Fr-Gd-IGr-Porow/NSO; NF; NC; NO.		
	{2124'KD.spl} V.Abndt SS: ~80% Sd Clusters: Lt-gy-wh, bf-gy, Vfn-md- Grd, well Rnd'd to angir, pred Rnd'd to subangir, sm Frly "clean" & friabl w/ Gd-VGd Poro w/ NSO; NF; NC; NO;		
	{2124'KD.spl.cont"d}sm Sitty & micac & well cmt"d- subfriabl Sd Clust w/ Vpr-Fr-Visbl Porow/ NSO; NF; NC; NO.		
	{Z100 KD.spi} Decrs in Sd Clust:AA; sm calc& Lmy Sd Clust; NS; NF; NC; NO; & LS: gy-tn-wh, ux-fnX; sm Sndy & Silty; sm argil-dn-Mdst; pred pr-NVP; NS; NF; NC; NO;		
	Pred SH: (~80%) gy-bk SH. {2186'KD.spl} SH: pred dk-gy, sm calc & Lmy; (Tro Sd Clust: AA; NS).		
	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
) {2218'KD.spl} SH: pred dk-gy-bk.		
	(2230'KD and Ball Co		
Layton + -220	{2280'KD.spl} Tro Sd Clust: gy-bf-wh, Vfn-md.Gr'd, Rnd'd-	2194' (-1026) LAYTON SS	AJ's Services Mud check:
0 10 	<pre>{2280'KD.spl; Fie Sti Cidst: gy-Di-will, ViteIII.Or d, Kild d- anglr, mod-sort'd, sm friablw/ Fr-Gd Visbl.Poro w/ NS{No Show) NF{No FLR) NC{No Cut) NO{No Odor); {2280'KD.spl.cont'd}sm SILTSSittySH: dk-Lt-gy, micac; pred gy-bk-SH.</pre>		8/4/20 @ 5:00a Drlg @ 2199' Wt:8.8 Vis:32 PV:6 YP:4 pH:10.5 WL:16 Alka.Md:1.6 Alka.Filtr:0.82
			Alka Filtr:0.82 Cl: 650ppm Ca:48; CT:1/32" Solids:~4% LCM: NC
) SH:dk-gy-bk,sm.calc&Lmy.		
	i l		
0	SH:dk-gy-bk,sm pyrtc,sm calc&Lmy		
	SH: AA{As Above).		
<u>кс</u>	{2405'KD.spl} KC} V.Abndt LS: cm-gy-tn, microXln{ux) to prtly fnXln{fnX), pred dn, sm subchlky to wh-chky, sm Wkst-Pkst, pred pr to NVP{No Visbl Porosity) w/ NS; & sm SH:AA, gy-bk.	2366' (-1198) Kansas City	
	{2437'KD.spl}slinors SH: gy-bk; {2437'KD.spl.cont'd}LS: wh-tn-gy, prt chky, & ux-fnXln, sm Wkst-Pkst, pred Vpr-NVP;NS.		
) {2467'KD.spl}LS: cm-tn-gy, ux-fnXln, V.rare{Vrr) prt mdXln{mdX) sm 2nd ReX, sm wh-chky LS; SI Cherty; Rare{Rr) Fr-Gd Poro: pin point{pp) InterXInPoro{IXP) w/		
	NS; SICherty: cm-blu-gy, opq, sharp; NS.		
	{2499'KD.spl} LS: tn-gy-wh, sm mot-Wkst-Pkst; Vrr Grst, sm fos & oolo; Vrr oomldo w/ sm Fr-Gd Poro: oomldo & I.oolo & I.fos & I.Gr Porosity{Poro) w/ NS. {2530'KS.spl} Rr oomldo LS:AA w/ Fr-VGd Poro w/ NS. {2530'KD.spl.cont'd} Abndt LS: cm-tn, ux-fnXln, sm oolo & fos-Pkst, Vrr Grst, w/ Rr Fr-Gd Poro w/ NS; sm dn, & sm chlky; s1 Cherty; pred pr-NVP w/ NS.		
	LS: tn-gy-wh, mx-mdXln, Rr prt CrsXln-VCrsXln- sm 2nd ReX; sm Fr-VGd Poro: vug&pp&lGr&lXP w/NS.		
- 6- 0) {2560'KD.spl}smSH:bk-carb,&gy-bk smLS:tn-gy-cm, preddn-ux&Mdstw/predpr-NVPw/ NS;RrPoro:AAw/NS. SILTS:gy,micac;&SH:gy-bk,smmicac.		
	Sill Foll gy, micae, eron. gy-uk, sin micae.	2528' (-1360) SWOPE LS	
	{2594'KD.spl} LS: th-gy-wh, sm mot, ux-fnXln, sm sl fos, Rr pr-Fr Visbl Poro: pp & IGr.Poro w/ NS. } {2594'KD.spl.cont'd} V.Abndt SH: bk-carb V.carb.		
	{2624'KD.spl} V.Abndt LS: tn-gy, prt cm, pred dn-hd-ux- VfnX, & Mdst w/ Vpr-NVP; NS.	2557' (-1389) HERTHA L S	
	LS: dk-gy, dn-ux & Mdst, sm V.argil-shly w/pred Vpr- NVP; NS; LS:AA; NS.		
+ -260) & SH:dk-gy-bk, sm.calc & Lmy, & sm.carb.	2608' (-1440) B/KC	
	{2656'KD.spl}smLS:Lt-md-gn-gy, dn-argił Mdst&ux- dn, VprNVP;NS.		
	Abndt SH: gy-bk, sm calc & Lmy; sm bk carb.		
	{2687'KD.spl} SILTS: Lt-md-gn-gy, sm calc & Lmy, sm Sndy: VfnGr'd, Vpr-NVP; NS.		
	V.Abndt SH: gy-bk, sm bk-carb; sm silty-SH & SILTS; SH & SILTS:AA; Vrr LS: tn-bn, ux-VfnXIn & dn w/ Vpr- NVP; NS.	2689' (-1521)	
Marmaton + -270	 {2720'KD/drlg.spl} V.Abndt LS: cm-tn-gy, sm Wkst-Pkst- oolc & fos w/ pred pr-NVP; NS. {2749'KD/drlg.spl} SH:AA & bk-carb; {2749'KD/drlg.spl.cont'd} LS: gy-tn-cm, pred dn- ux-fnX, & Mdst w/ pr-NVP; NS. 	MARMATON	
	Mdstw/pr-NVP;NS. {2780'KD/drlg.spl} SH:Abndtgy-bk,sm bk-carb.		
Pawnee	{2813'KD.spl} Abndt LS: gy-tn-cm, pred dn- Mdst sm argil, sm ux, sm prt chlky, pred Vpr-NVP; NS.	2738' (-1570) PAWNEE LS	
6 7 7 7 7 7 7 7 7) SH:AA; sm bk-V.carb.		
Ft.Scott	{2843'KD.spl}LS:Lt-dk-gy, cm-gy, sm ux-fnXln, sm sl fos & oolc - Pkstw/pr-FrVisbl Porow/NS.	2773' (-1605) FT.SCOTT LS	
Decrs.WOB &	{2843'KD.spls.cont'd} Abndt SH: gy-bk, sm bk-carb- V.carb; sm silty, micac, & SILTS. } {2860'drlg.spl} SH: gy-bk; sm calc & Lmy, & LS: bk, ux & Mdst.	2806' (-1638)	
Cherokee 	{2860'drlg.spl.cont'd} Abndt SH: bk-carb- V.carb. {2860'drlg.spl.cont'd} SILTS: Lt-dk-gy, sm calc & Lmy; Trc Sndy & calc SILTS w/ NS; NF; NC; NO.	CHEROKEE GRP.	
	{2870'drlg.spl} Abndt SH: bk- subcarb to V.carb, & gy micac SH. {2870'drlg.spl.cont*d} Rr LS: tn-gy, dn- uk- Vrr tn×ln V.crsX- 2nd ReX w/ NS.		
) {2880'drlg.spl} Abndt SH: gy & bk, sm bk-carb, Vrr Coal. {2880'drlg.spl.cont'd} Incrs LS: tn-gy-wh, pred dn- ux- Rr fnX, sm argii- Mdst; pred Vpr-NVP; NS.	10'spls: wet cups & wet bags & dried by RLM-Geo.	AJ's Services Mud check: 8/4/20 @ 7:08 Drlg @ 2858' Wt:9.3 Vis:42 PV:12 YP:7
Artimore S Crowebury	{2890'drlg.spl} sm SILTS: gy; incrs SH: bk-carb to V.carb {2890'&2900'drlg.spls} ARD MORE} LS: gy-tn-wh, crypto- ux- dn- hd, sm silic, sl fos; Vpr-NVP; NS; Cherty:amber-tn, opq, sharp Chert. {2900'drlg.spl} SH: dk-Lt-gy & gn-gy, sm calc, & sm silty & micac; & bk-carbV.carb SH	2871' (-1703) ARDMORE LS 2883' (-1715) CROWEBURG SH	PV:12 YP:7 pH:10.0 WL:11.8 Alka.Md:1.81 Alka.Filtr: 1 Cl: 1430ppm Ca:40; CT:2/32" Solids:~4% LCM: 2#/bbl
BV-zone - CFS-201-44-50	micac; & bk-carbV.carb SH {2900'drlg&circ.spls} SHSILTS: gn-gy, sI pyrtc; Rr SILTS: L±-gy, calc, Trc Sndy: Vfn Gr'dw/ Vpr-NVP;NS; NF; NC; NO; & SH:V-gated, gn-gy, mrn-rd, gy-bk. {2906'drlg&20min.circ.spls} LS: gy-tn-wh, sm mot, ux- fnXln, Trc mdX's, sm fos-Pkst, Trc silty & sndy LS; Trc	CROWEBURG SH 2888' (-1720) BV. ZONE	-~m. ∠#/0D1
	<pre>{2920'drlg.spl} Abndt SH: gy & bk-carb. {2930'drlg.spl} Incrs bk-carbV.carb-SH, sm Pyrtc. {2940'drlg.spl} SH: V.gated- AA, & bk-carbV.carb, sm pyrtc; & Rr Coal: bk-vit;</pre>		
	{2950'drlg.spl} Pred SH: Lt-dk-gy, sl pyrtc; Rr bk-carb-SH. {2960'&2970'spls} Pred SH:gy & gn-gy, & violt-mrn-rd, V-		
	gated, sm calc & Lmy {2980'&2990's pls} ~>60% SH: gn-gy; w/V.argil-s hly LS- Mdst. {ERO S.MISS} {2980'&2990'drlg.spls.cont'd} Vrr LS: gy-tn-	2960' (-1792) EROS. MISS.	
Seros Miss	<pre>{ERO S.MISS} {2980'&2990'drlg.spls.cont'd} Vrr LS: gy-tn- cm, dn- ux & Cherty; Rr CHER T:gy-tn-cm-wh, pred sharp & fresh to sl Wthr'd; Vrr Tripolitic & Sub-Triple & Wthr'd Chert w/ Fr-G d P oro: pp- IGr-Triple Poro w/ NSO; NF; NC; NO; & Abndt V-gated SH:AA. {SOLID MISS} {3000'drlg/KD.spl} CHERT: Lt-gy-tn & cm- wh, pred fresh to sl Wthr'd & Sub-Triple to Vrr Tripolitic w/</pre>	2980' (-1812)	
Miss. 2 LS	wh, pred fresh to sIWthr'd & Sub-Triple to Vrr Tripolitic w/ pred pr-Fr Visbl Poro; Trc Gd Poro; NSO; NF; NC; NO; {3000'drlg/KD.spl.cont'd} Vrr LS: gy-tn, dn- ux w/ Vpr- NVP; NS. {3004'drlg.spl} Rr LS: AA; dn to Vpr Visbl Porow/ NS.	Solid MISS.CHERT 2990' (-1822) Solid MISS. LS.	AJ's Services
	{3010'drlg.spl} incrs LS: bf-tn-om, pred dn- ux; Vrr ohky; SI Cherty: blu-gy, shrp; pred Vpr-NVP; NS. {3020'drlg.spl} LS: cm-bf-gy, pred dn- ux-VfnXIn, sm silic; SI Cherty; w/ pr-NVP; NSO; NC; NO.		Mud check: 8/5/20 @ 12:00 Drlg @ 3027' Wt:9.4 Vis:52 PV:16 YP:20 pH:10.5 WL:9.9 Alka.Md:1.75
CFS-RTD- 20-40min.spis RTD:3031(-1863) LTD:3025(-1857)	{3030'drlg&3031'circ.spls}LS: cm-bf-gy, ux-VfnXln, u- sucro & u-granulr, sIsilic, & VsI dolomc w/ Vpr-pr Visbl.Poro: u-IGr & u-IXP w/ NSO; NF; NC; NO.	RTD: 303 1'(- 1863) LTD: 3025'(- 1857) NO DST's	Alka.Md: 1.75 Alka.Filtr:0.77 Cl: 1750ppm Ca:32; CT:2/32'' Solids:~8% LCM: 1.5#/bbl
NO DST'S QUAIL OIL &	i	QUAIL OIL & GAS, I BEARD #1-25 TREES FIELD 990'FSL & 335'FEL	C
TREES FIELD 990'FSL & 335'FEL (~NE-SE-SE/4) Sec:25-30s-03E COWLEY Cuty, -		(~NE-SE-SE/4) Sec:25-30s-03E COWLEY Cnty, KS API#15-035-24719-0 KB:1168'GL:1156' P&A	0-00
KS API#15-035-24719-00-00			
КВ:1168 GL:1156 Р&Д			