KOLAR Document ID: 1638468

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	 DESCRIPTION 	VOF WELL	& 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.xxxx) (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:
	Elevation: Ground: Kelly Bushing:
	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 #: 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 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: 1638468

Operator Nam	ne:			Lease Name:	_ Well #:
Sec	Twp	S. 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).

	lien		,				og Formatia	n (Tan) Danth a	nd Datum	
Drill Stem Tests Taken (Attach Additional Sheets)			Yes No			-	n (Top), Depth a		Sample	
Samples Sent to C	Geological S	Survey		Yes 🗌 No		Nam	e		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud Logs List All E. Logs Run:				Yes No Yes No Yes No						
			Rep	CASING port all strings set-c		Ne e, inte		on, etc.		
Purpose of Strir	ng	Size Hole Drilled		ize Casing et (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	CEMENTING	SQL	JEEZE RECORD			
Purpose: Perforate		Depth Top Bottom	Тур	e of Cement	# Sacks Use	ed		Type and	Percent Additives	
Protect Casi	D									
Plug Off Zor	ne									
 Did you perform a Does the volume Was the hydraulic 	of the total b	ase fluid of the h	ydraulic f	racturing treatment		-		No (If No, s	kip questions 2 ar kip question 3) I out Page Three	
Date of first Product Injection:	ion/Injection	or Resumed Pro	oduction/	Producing Meth	od:		Gas Lift 🗌 O	ther (Explain)		
Estimated Production Per 24 Hours	on	Oil I	3bls.	. Gas Mcf			Water Bbls. Gas-Oil Ratio Gravity			
DISPOS	SITION OF G	AS:		N	IETHOD OF CO	MPLE	TION:		PRODUCTIC Top	DN INTERVAL: Bottom
	Sold 🛛 🗌 l	Jsed on Lease - <i>18.)</i>		Open Hole				nmingled mit ACO-4)	юр	Bottom
Shots Per	Perforatio	n Perfora	tion	Bridge Plug	Bridge Plug		Acid	Fracture, Shot, Ce	menting Squeeze	Becord
Shots Per Perforation Perforation Foot Top Bottom			Туре	Set At				d of Material Used)		
TUBING RECORD:	: Siz	20:	Set At		Packer At:					

Form	ACO1 - Well Completion
Operator	Griffin, Charles N.
Well Name	OLIVIA #1
Doc ID	1638468

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	23	252	Common	265	2%gel 3%cc
Production	7.875	5.5	15.5	4890	Griffin Blend		10% salt, 2% gel and 5# Koseal

QUALITY WELL SERVICE, INC.

Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410 Fax 620-672-3663

Rich's Cell 620-727-3409 Brady's Cell 620-727-6964

$\begin{array}{c c c c c c c c c c c c c c c c c c c $		Sec.	Twp.	Range	(County	5	State			Dn Lo	ocation	Finish
Contractor Mu2 G. D.G. P. G. 4 1.4: Owner Type Job System To Dustify Well Sarvice. Inc. To Dustify Well Sarvice. Inc. Hole Size 12/4 T.D. ZS.2 / Character and helper to assist owner or contractor to do work as listed. Csg. 95/9 Depth 25.1 / To Displace Tog. Size Depth Street State Cement Lett in Csg. Shoe Joint 25 / The above was done to satisfaction and supprision of owner agent or contractor Meas Line Displace 14.4 C Cement Amount Ordered 20 of Contractor Pumptrk No Contractor 26.5 (z. Pumptrk No Poz. Mix Bulktrk Bulktrk No Calcium 74.7 / JOB SERVICES & REMARKS Hults Rat Mouse Hole Sat Mouse Hole Sat Or Set 23 (25.4 SET Sand Sand Mouse Hole Centralizors Kol-Seal Sat Sat Mouse Hole Filoweal / 32.4 / Contractor Contractor Centralizors Kol-Seal Sat Sat Sat <td>Date /22</td> <td>33</td> <td>295</td> <td>15W</td> <td>P.</td> <td>ATT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	Date /22	33	295	15W	P.	ATT							
Type Job Gast fare To Quality Well Service, Inc. Hole Size $12/4$ T.D. ZS21 Cose $95/6$ Depth Charge $Gaster Produces to recommenting equipment and turnish commenter and helper to assist owner or contractor to do work as listed. Tog. Size Depth Street. Street. Tool Depth Street. State Cement Let in Csg. Shoe Joint 25' The above was done to satisfaction and supervision downer agent or contractor. Weast Line Displace 1/4.42 Cement Amount Ordered 4/3.0 6.0 G_{onth}. Pumptrk S No Common ZLS ZLS ZLS ZLS Bulkerk No Gel. 4.6.0.8 Poz. Mix Bulkerk Bulkerk Bulkerk ZLS ZL$		w		1	•	on CZOF	T.K.	.6	\$	W	S	into	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Contractor MURTIN	<u>Ds</u>	GR	6 4 12									
Hole Size $12/4$ T.D. 252 commenter and helper to assist owner or contractor to do work as listed. Cag. $85/9$ Depth $251'$ $Charge$ $GR.44$, N Tog Size Depth Street Street Street Tool Depth City State Gement Left in Cag. Shoe Joint $25'$ The above was done to satisfaction and supervision of owner agent or contractor Meas Line Displace $1/4.45'$ The above was done to satisfaction and supervision of owner agent or contractor Meas Line Displace $1/4.45'$ Cement Amount Ordered A12 cA $Contron automatic action and supervision of owner agent or contractor Bulktrix No. Control 2/4.45' Cement Amount Ordered A12 cA Control action automatic action and supervision of owner agent or contractor Bulktrix No. Control 2/4.45' Cement Amount Ordered A12 cA Control action automatic action and supervision and supervision of owner agent or contractor Bulktrix No. Control 2/4.71' Control 2/4.71' JOB SERVICES & REMARKS Hulis Bathole Sait Cont$	Type Job SURFAIR					To Quality W You are here	ell Servic bv reaue	e, Inc.	o rent	ceme	ntina	ı equipmer	nt and furnish
Cag Days Depth Street Tod Depth Street Tod Depth City State Cement Left in Cag Shoe Joint $25'$ The above was done to satisfaction and supervision of owner agent or contractor Meas Line Displace $/4.4\zeta$ Cement Amount Ordered 20° of $Contractor Pumptik Shoe Contractor Contractor Contractor Buiktrix 12 No Contractor Contractor Buiktrix No Contractor Contractor Contractor Buiktrix No Contractor Contractor Contractor Buiktrix No Contractor Contractor Contractor JOB SERVICES & REMARKS Hulls Rat Hole Sati Rat Hole Rat Hole Sati Rat Hole Sati Rat Hole No FlootCollar CEL-117 or CD110 CAF 38 Contractor DV or Port Collar CEL-117 or CD110 CAF 38 Contractor Contractor Sati CA_C & CA_C & Set Satis Satis Satis H20/L CA_C & CA_C & Bat Eak C & CL & LA/Id/C<$	Hole Size 12/4		T.D.			cementer an	d helper	to ass	st ow	ner or	con	tractor to c	lo work as listed.
Construction Depth City State Cement Left in Csg. Shoe Joint 25' The above was done to satisfaction and supervision of owner agent or contractor. Meas Line Displace /4.45 Cement Amount Ordered 12 ch Ch Mm > 1 Pumptrk R No Common 24.5 Common 24.5 Bulktrk IV Poz. Mix Bulktrk Common 24.5 Bulktrk No Common 24.5 Common 24.5 Bulktrk No Poz. Mix Bulktrk Bulktrk No Calcium 74.7 Common 24.5 Bulktrk No Calcium 74.7 Common 24.5 Bulktrk No Calcium 74.7 Common 24.5 Bulktrk No Calcium 74.7 Calcium 74.7 JOB SERVICES & REMARKS Hulls Rtate Rtate Rat Hole Salt Calcium 74.7 Calcium 74.7 Gentralizers Kol-Seal Baskets Baskets DV or Port Collar CFL-117 or CD110 CAF 38 Pixor 24.5 Cantalizer STAT Pixor 24.5 Calcium 74.7 FLOAT EQUIPMENT <t< td=""><td><u>Csg. 85/3</u></td><td></td><td>Depth</td><td>251'</td><td></td><td></td><td>GR</td><td><u>ff.n</u></td><td>)</td><td></td><td></td><td></td><td></td></t<>	<u>Csg. 85/3</u>		Depth	251'			GR	<u>ff.n</u>)				
Incomposition Shoe Joint 25' The above was done to satisfaction and supervision of owner agent or contractor Meas Line Displace $1/4/4$ Cement Amount Ordered 20 $old Contractor Pumptrk 9 No 2/6/6/1000 2/6/6/1000 2/6/6/1000 Bulktrk 12 No 90 2/6/6/1000 2/6/6/1000 Bulktrk No 90 90 2/6/6/1000 2/6/6/1000 Bulktrk No 90 90 90 90 90 JOB SERVICES & REMARKS Hults 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 90 $	Tbg. Size		Depth			Street							
Meas Line Displace 1445 Cement Amount Ordered 120 of 100000 , 11000000 , $1100000000000000000000000000000000000$	Tool		Depth			City				Stat	te		
EQUIPMENT $2/FEL 3/L(L)/2^{2}FL (KI3) 265 CPumptik S NoCommon 265Bulktik 12 NoPoz. MixBulktik NoGel. 46 RPickup NoCalcium 7474JOB SERVICES & REMARKSHulisPlat HoleSaltMouse HoleFlowseal 1324CentralizersKol-SealBasketsMud CLR 48DV or Port CollarCFL-117 or CD110 CAF 382/L C = 0.5 C/S SETSand3/RT C S C (S, C) B 2+10 mHardling 23'SH 20L (S, SET) B 2+10 mHardling 23'SH 20L (S, SET) B 2+10 mGuide Shoe2/L (E L S) (C U/2) P S J 14 8^4/GLCentralizer2/L (E L S) (C U/2) P S J 14 8^4/GLCentralizerD 2/L (S - 5) C (S - 5) C S - 5) (S - 5) (S - 5) C S - 5) (S - 5) $	Cement Left in Csg.		Shoe Jo	int 25'		The above wa	s done to	satisfac	tion a	nd sup	ervisi	on of owne	r agent or contractor.
Pumptrk 9 No. Common Z_{LS} Bulktrk 12 No. Poz. Mix Bulktrk No. Gel. $4GR$ JOB SERVICES & REMARKS Hulls Ret Hole Satt Rat Hole Satt Gel. $122^{t/2}$ Centralizers Kol-Seal Baskets Mud CLR 48 DN or Pon Collar CFL-117 or CD110 CAF 38 Enc. Z_{11} $GSS = 23^{t/2}CS_{11}$ Sand Enc. $STAT P_{1000000000000000000000000000000000000$	Meas Line		Displace	14.45		Cement Amo	ount Ord	ered 4	ນ	51	G	nmas	
Puttink 12 No. Poz. Mix Bulktrik No. Gel. $4GR$ Pickup No. Gel. $4GR$ JOB SERVICES & REMARKS Hulls Flowseal $747t^4$ Mouse Hole Salt Flowseal $747t^4$ Centralizers Kol-Seal Salt Flowseal $747t^4$ Baskets Mull CLF 48 Flowseal Flowseal <td></td> <td>QUIPM</td> <td>IENT</td> <td></td> <td></td> <td>71. FEL</td> <td><u>3%.cc</u></td> <td>1/2 "</td> <td>ρſ</td> <td>USI</td> <td>5</td> <td>265</td> <td>sc</td>		QUIPM	IENT			71. FEL	<u>3%.cc</u>	1/2 "	ρſ	USI	5	265	sc
Dulktik No. Get 4GR Bulktik No. Get 4GR JOB SERVICES & REMARKS Hulls Rat Hole Salt Mouse Hole Flowseal / 32 ¹ Centralizers Kol-Seal Baskets Mud CLR 48 D/V or Port Collar CFL-117 or CD110 CAF 38 Vor Port Collar Guide Shoe Z1// CEL 3// CL V/2 V S J 14 get//GaL Centralizer STA E 0// SD AFU In						Common	265						
Bulkrik Gel. 747% JOB SERVICES & REMARKS Hulls Rat Hole Salt Mouse Hole Salt Centralizers Kol-Seal Baskets Mud CLR 48 DN or Port Collar CFL-117 or CD110 CAF 38 Vor Port Collar CFL-117 or CD10 CAF 38 Vor Port Collar Gelde Shoe Z!!	Buiktrk IC					Poz. Mix							
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Rat Hole Salt Mouse Hole Flowseal / $32^{1/2}$ Centralizers Kol-Seal Baskets Mud CLR 48 D/V or Port Collar CFL-117 or CD110 CAF 38 $Q_A (a, H)^{5/2} gs/e 23^{1/2} cs/c set T Sand gHATCSA (c, C, (c, o, B, gh+horn)) Handling Z3'S Hook (c, f, f, Bacak (c, gt, t, h), f, f, Mileage 25 / 7/25) STAT (f, h), f, H20 STAT (f, h), f, h, H20 FLOAT EQUIPMENT STAT (f, h), f, h, H20 Guide Shoe Z'!. (f, el, 3). (f, f, h), go (f, h), f, h) Guide Shoe Z'!. (f, el, 3). (f, f, h), go (f, $	Pickup No.					Calcium	747	¥					
Mouse HoleFlowseal / 22^{t} CentralizersKol-SealBasketsMud CLR 48DN or Port CollarCFL-117 or CD110 CAF 38 \mathcal{L}_{A} (b +1's 95/223"Cs(, set sandStatt CS(, CS(, CS) Bo++ornHandling 23'SHook on +s CS(+ Break c', c) on bo++ornHandling 23'SHook on +s CS(+ Break c', c) on bo++ornHandling 23'SHook on +s CS(+ Break c', c) on bo++ornHandling 23'SHook on +s CS(+ Break c', c) on bo++ornHandling 23'SHook on +s CS(+ Break c', c) on bo++ornHandling 23'SHook on +s CS(+ Break c', c) on bo++ornHandling 23'SHandling 23'SSTAT 9, minic H 12'SGuide ShoeZ!. (EL3). CL 92' PS J 14 g +/ral.Chandle on (S(Float ShoeHashet on (S(Hashet on (S(JOB SER	VICES	& REMA	RKS		Hulls							
Centralizers Kol-Seal Baskets Mud CLR 48 D/V or Port Collar CFL-117 or CD110 CAF 38 Quantity of Collar State State State H 20K on 45 CS (Coll Box 64 Circl W) (W) Mileage 25 / 7/25 State State State Plant Equipment State Guide Shoe Z'/ (EL 3) CL V2 PS 3 14 8 "/GL Centralizer Guide Shoe Z'/ (EL 3) CL V2 PS 3 14 8 "/GL Centralizer State State Plant Clace State Plant Discount Clace Cif Clace State Pumptrk Charge State Pumptrk Charge State Pumptrk Charge State	Rat Hole					Salt							
Baskets Mud CLR 48 DN or Port Collar CFL-117 or CD110 CAF 38 QLA (a, H'S 95/C 23"CS), SET Sand GHAT CSA, CSA, BAHDAN Handling 235 Handling Z35 Handling Z35 Handling Z35 FLOAT EQUIPMENT STAT Parallal HZD FLOAT EQUIPMENT STAT Parallal HZD Guide Shoe Z'I, CEL 3/. CL V12 VPS D 14 B "/CAL Centralizer STAT Disso Baskets PID (Dua) AFU Inserts Clare VIII on (SA) Float Shoe HSON DAT 150" Latch Down (DID CIAL HIN JDR) SER JICK SDD 1 FEA CIAL CAT TO PIT LMJ ZS PUMPTIK Charge Supface Mileage SO THANK TAN TORY MILL	Mouse Hole					Flowseal 132 ^k							
DN or Port Collar CFL-117 or CD110 CAF 38 CFL-117 or CFL-117 or CD110 CAF 38 CFL-117 or CFL-117	Centralizers					Kol-Seal							
Run (o. +1's 95/023"CSI, SET Sand GHART CSI, CSI, CON BAHOM Handling 235 Hook on to CSI & Break city (1)/11/6 Mileage 25/7/25 STAT Visminh & H23 FLOAT EQUIPMENT STAT Visminh & H23 Guide Shoe Z'I. (EL 3'). (C V/2 VPS) 14 8"/CAL Centralizer STHE Visminh & H23 Baskets Z'I. (EL 3'). (C V/2 VPS) 14 8"/CAL Centralizer STHE Visminh & H23 Baskets Z'I. (EL 3'). (C V/2 VPS) 14 8"/CAL Centralizer STHE Visminh & H23 Guide Shoe Z'I. (EL 3'). (C V/2 VPS) 14 8"/CAL Centralizer STHE Vismon 2005 Baskets PI:16 DOWN Centralizer Guide Shoe Each Down (DDE ON ' AFU Inserts QUXE VISE ON (SK Float Shoe H4 Soble ON (SK Float Shoe	Baskets					Mud CLR 48							
GAMTCSA CSA ON BOTTOM Handling 235 Hook op to CSA & Break cia unitada Mileage 25/7/25 STAT Provinite H20 FLOAT EQUIPMENT STAT Provinite H20 Guide Shoe 21. (EL 3). (CL V2 PS d) 14 8 //AL Centralizer STHE Discon Baskets PLUG Down' AFU Inserts Quite Shoe Item 1000 21. (EL 3). (CL V2 PS d) 14 8 //AL Centralizer STHE Discon Baskets PLUG Down' AFU Inserts Quite Shoe Item 1000 21. (EL 3). (CL V2 PS d) 14 8 //AL Centralizer STHE Discon Baskets PLUG Down' AFU Inserts Quite Shoe Item 2000 Item 2000 Baskets PLO DOWN' AFU Inserts Quite Shoe Item 2000 Item 2000 SERDice Spot 2 FEA CIGL CAT TO PIT IMJ Z5' Pumptrk Charge Soutaut Mileage SO THANK TON MILL Discount						CFL-117 or CD110 CAF 38							
Hook of to Control Break cicl which Mileage 25/7/25 STAT Prominify H23 FLOAT EQUIPMENT STAT Prominify H23 Guide Shoe STAT Prominify H23 Guide Shoe 21. (EL 3). (CL V12 VPS D 14 8 4/GL Centralizer STHE Disso Baskets PLUC Dusy' AFU Inserts Quee Ville on (Singer String on	Run 6. 11's 35/0	23"	<u> 256 5</u>	ĘΤ		Sand							
STAT PSMINIA HZD FLOAT EQUIPMENT STAT Mix! PSAN 265 54 GAMBAN Guide Shoe 21. (EL 3!. (L V2 PS D 14 8"/GL Centralizer STHE 1150 Baskets PLNG MAN AFU Inserts QUXE VALUE Or (SG PLSG MAN AFU Inserts QUXE VALUE Or (SG PLSG MAN SER JICE STAT TOB STAT SER JICE Mileage SO THANK IN TOM IN IC	STATCSG CSG C	<u>م</u> ر	32++0	n		Handling 235							
STAIT Mix! Pan 265 54 Games Guide Shoe 21. (EL 3). CL V2. PS 2 14 84/14L Centralizer STHE D150 Baskets PLU D150 Baskets PLU D150 AFU Inserts QLXE. VILLE on (LL Float Shoe ILAG D216 and 150" Latch Down (D10 Cicl. 4hi) JO3 SFR Jicl. SJDV 1 FEA CICL CAT TO PIT LMJ ZS Pumptrk Charge Sufface Mileage SO THANK IN TOOD MILL. Discount	Hook up to CU	<u>6\$</u>	SZEAK	cia will	<u>i6</u>	Mileage 25/7/25							
Z1. (ELS). (LV2 PS) 14 B ⁴ /rac Centralizer STH II' 1) 50 Baskets PLU (DUW) AFU Inserts CLXE. VILLE on (V.K. Float Shoe 14.50 m/st. and 150" Latch Down (DDD C.I.C. 4 min JOB SER JICE SJON 2 FEA CI OL CAT TO PIT LM J ZS' Pumptrk Charge Southaut Mileage SO THANK IN TOCO IN IN IC	STAT POMINI	<u> </u>	Z5			FLOAT EQUIPMENT							
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Clare Inlie on (V) Float Shoe 145 phile and 150" Latch Down Cince this Job SERJICE STON 2 FEA Cince CAT TO PIT LMJ 25 Pumptrk Charge Surface Mileage 50 THANK TON Tax PEAUE CILLAGAIN TONS MILLE Discount	STHIT DISD			· · · · · · · · · · · · · · · · · · ·		Baskets							
IGG PHICAN 150" Latch Down (D)D (ICL + HI) JO3 SERJICE STON 2 FEA CIEC CAT TO PIT LMJ ZS Pumptrk Charge Surface Mileage SO THANK TON Tax PEALE C'HAGAIN TOOD MILLO Discount	Plus Mours					AFU Inserts							
CIDD CICL +HIJ JO3 SERJICE STON 7 FEA CIGL CAT TO PIT LMJ ZS Pumptrk Charge Surface Mileage SO THANK TON PEALE C'LLAFAIN TOOD MILLO	CIXE VILLE on (<u> </u>				Float Shoe		1.2					
CIEL CAT TO PIT LMJ ZE Pumptrk Charge Surface Mileage SO THANK TOO Mileage PEOUR C: II AGAIN TOO Mileg	145 Able ast 150	ji 				Latch Down							
CIEL CAT TO PIT LMJ Z5 Pumptrk Charge Surface Mileage SO THANK TOO Mileage PEOUR C: II AGAIN TOO Mileg	Cono Cia this -	103				SFRJic	E 6	עמ	2	E4			
Mileage 50 THANK TON Mileage 50 Tax Discount	CIEL CAT TO PI	IΓ				LMJ	25	Ĩ					
Mileage SO THANK TON Tax PEONE C: ILAGAIN TON: MILLE Tax Discount Discount							irge S	sufa	16				
PEOLE CELLAFAIN TOCH MILLE Discount Discount						Mileage 6	•		***				
	THANK TW					1	el.					Tax	
	PEAKE CILLA	AGAIN	JT	ion mille		1-11	\mathcal{V}					Discount	
	X Signature				Thu)					Tot	al Charge	

QUALITY WELL SERVICE, INC. Federal Tax I.D. # 481187368

Home Office 30060 N. Hwy 281, Pratt, KS 67124

Mailing Address P.O. Box 468

Office 620-727-3410 Fax 620-672-3663

Rich's Cell 620-727-3409 Brady's Cell 620-727-6964

ليصحون المميكي والأراب الموارية المواجع والمراجع والمراجع المراجع

Sec.	Twp.	Range	(County	State	On Location	Finish		
Date 1-27-22 30	295	ISW	TR	ATT	K,				
Lease Olivia W	/ell No.	/	Locatio	on	· .				
Contractor MURFIN DR	216 R	26 104	£	Owner					
Type Job 5/2 15				To Quality We You are here	ell Service, Inc. by requested to rent of	cementing equipment	and furnish		
Hole Size 77/B	T.D.	<u>4998.</u>		cementer an	d helper to assist owr				
Csg. 5/2	Depth	4892.96	3	Charge To	Gaittin				
Tbg. Size	Depth			Street ·					
Tool	Depth			City		State			
Cement Left in Csg.	Shoe Jo	• • •			s done to satisfaction an	PAGE .			
Meas Line	Displace	115.95			ount Ordered /75 S	7			
EQUIPM	MENT				EAL .6% C/6A.	25% CAIP 2:	<u> 9</u> 8		
Pumptrk 8 No.				Common /	75				
Bulktrk / No.				Poz. Mix	- //		<u>.</u>		
Bulktrk No.				Gel. <u>37</u>	9#				
Pickup No.				Calcium					
	& REMA	RKS		Hulls	14				
Rat Hole 35 5				Salt 964					
Mouse Hole				Flowseal 44					
Centralizers /-2-3-4-5	-6-7			Kol-Seal 3/5					
Baskets				Mud CLR 48 500 GAL					
D/V or Port Collar	••			CFE-11-7-01-0011-10-GAE-38. C/6A 99 #					
	"CSG :	/		Sand CC-19. GL CAIP 41"					
11 1 1 1 1		FTAG		Handling 217					
	EAK CI	IC. WRI	5 1	Mileage 25/5425					
	Upic			<u>5h</u>			•		
START POMPING D95/1H	5 129	blimt NB	bl, HPS	Guide:Shoe		A	·		
Plug R-11010 305	۲			Centralizer	7 EA		·		
MIX Pump 145 & PR	<u>v ()</u>	14.8º1cnL		Baskets	····				
SHUT Daw wash,p	takt	KELEASE S	1/2LD	AFU Inserts		·			
START Digp w/ 21/1 K	<u>(</u> L			Float Shoe	I EA	· · · · · · · · · · · · · · · · · · ·			
LIFT PSI 100 95/101 (00¢			Latch Down	1 EA				
LAND DIVIG 115.9 out		SERVIC	E Sen 1	EA					
B' u csa noo"				LMV	25 '				
	ble Box	K		Pumptrk Cha	arge LS				
6000 Cicl they 203				Mileage S					
THANK 101						Tax			
PIEAKE CALL AGAIN	TUDI) MINK: N	lathar	4		Discount	·		
X Signature					·	Total Charge			
- M M							Taylor Printing, Inc.		



Well Name: Olivia #1 API: 15-151-22541 Location: E2 SE SE NE License Number: 33936 Region: Pratt, KS Spud Date: 1/21/2022 Drilling Completed: 1/26/2022 Surface Coordinates: Longitude: -98.9944399 Latitude: 37.4930589 Bottom Hole Vertical Wellbore Coordinates: Ground Elevation (ft): 2035' K.B. Elevation (ft): 2040' Logged Interval (ft): 3900' To: 4900' Total Depth (ft): 4900' Formation: Ordovician (Simpson) @ RTD Type of Drilling Fluid: Mud-Co. Chemical Drispac - Displaced 2861'-2905' ~700 BBLS Printed by MudLog from WellSight Systems 1-800-447-1534 www.WellSight.com

OPERATOR

Company: Griffin Management, LLC Address: 126 S. Main

GEOLOGIST

Drilling Report

Name: Eli J. Felts Company: Griffin Management, LLC Address: 126 S. Main Pratt, KS 67124 efelts@griffinmgmt.com

Pratt, KS 67124

1/21/2022 Spud @ 4:45 PM

1/22/2022 Drilling @ 310'

1/23/2022 Drilling @ 2360'

1/24/2022 Drilling @ 3260'

1/25/2022 Drilling @ 4375'

1/26/2022 Drilling @ 4815' RTD @ 9 AM Short Trip Start Logging @ 6:30 PM to 9:30 PM

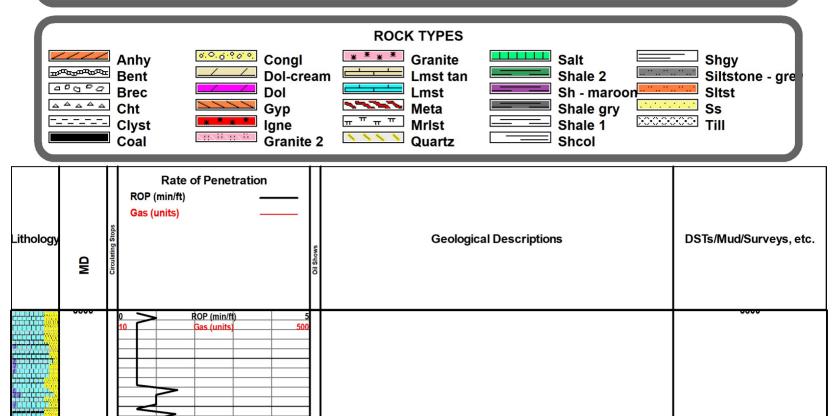
1/27/2022 **Run Casing** Plug Down @ 12:30 PM Release Rig @ 4:30 PM

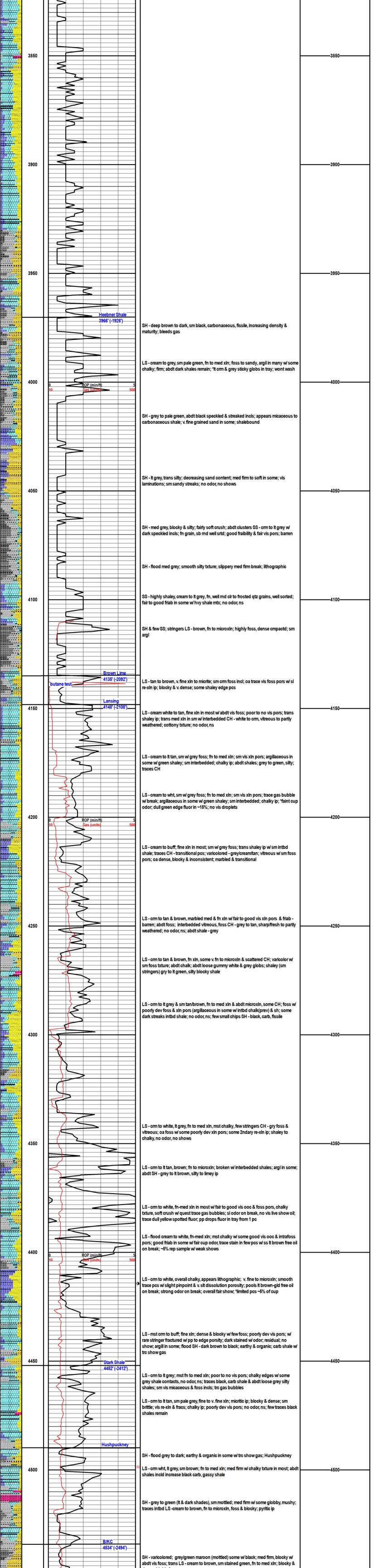
Problems

Pipe Setting

Short Trip @ 4900'. Pulled 67 Stands in 3.5 Hours No Cores or DSTs

8.625" 23# Set @ 252' w/ 265 sxs. 5.5" 15.5# Set @ 4890' w/ 175 sxs.





	4550				dense; highly foss	4550
	4550	$\leq \leq$				4550
		\rightarrow	•			
		\leq			SH - flood varicolored; grey green & mottled black; silty	
		\mathbb{R}				
					SH - varicolered; increase pale green, mst silty, sm interbedded LS - cream & pale	
in particular de la constant de la constant la constant de las constant de la constant de la constant de la constant de la constant la constant de la const la constant de la const la constant de la constant de					green hue; foss; maroon to pink limey shales	
	ľ				LS - cream to it grey, fn xin w chalky & smooth to si shaley txture (appearance) well	
			>	ľ	compacted & dense, trans v. fn xln; platy & lithographic in most; some vis brwn stain in pinpoint & edge pcs; residual flakey on break; no odor, no fluor	
		\rightarrow				
99 9000 <u>-1111</u>	4600					
	4000	0 ROP (r 10 Gas (L		5 0		4000
			Pawnee Lime 4607' (-2567')			
					LS - It grey, fn xin w/ smooth to si chalky appearance; well compacted w/ no vis xin pors; dense in most; lithographic; few pcs transitional cream & pale green, sm pale	
		$\langle \rangle$			green, grey & dark shales, black carb in some	
		$\left \frac{\xi}{\xi} \right $				
			Ft. Scott	+		
		5				
			Cherokee Shale			
	4650	$\overline{\mathbf{x}}$	4646' (-2606')	F		
	4650	X		1	20" sample - CH - bone white to It grey, smooth & vitreous to weathered, broken &	4650
					re-xln w/ dolomitic xln dev; re-xln fractures increase friab w/ ranging density vary w/ CH weathering; dolomitc appears cottony w/ fair to good vis xln pors; soft crush w/	
				ſ	good show bleeding oil & gas; faint odor in cup; 40" sample very similar, oa quality	
					& quantity of show pcs same ~25% of 20 & 40 cups w/ yellow fluor & pp drops in tray; flood SH - dark grey, some earthy & organic	
		7				
					60" increasing ratio more vitreous CH - pink, glassy & sharp, fresh	
				j •	CH - bone white to It cream, prim vitreous w/ some partially weathered, dolomitic & trippolitic; appears brown & black tripp weathering w/ sat'd stain; fsfo w/ incrs on	
					break; some brown foss incls, trans dolomitic w/ cottony, soft crush; fsfo; faint	
		5		ľ	odor; fair shows	
					SH - flood varicolored; mst maroon to purple, grey, green, mottled; silty, med firm,	
	4700				foss ip; few stringers CH- varicolor, mst grey/maroon, vitreous, dense	4700
					SH-80% Brick Red to maroon, sm mottled w/ green, It grey w/ speckled black; silty &	
					blocky; sl chalky to limey break; washes red stain cup; no odor, ns	
		$\langle \langle \langle \langle \rangle \rangle \rangle$			SH - brick red & pale green, some grey; flood	
					SH - pinkish to brick; limey chalky shale; some trans crm LS, mst stained pink, sm fn	
					xIn & trans CH - vitreous; beaten weathered; intrbd w/ SH	
			2		SH & Limey SH - pinkish; reds; chalky med firm; foss in part; gry-green & black silty shales	
					CH - wht to cream, pale green, sm brown; vitreous & weathered w/ abdt vis fractures,	
0,0,0,0,0,				þ	trippolitic in many w/ transitional cottony dolomitic ip; fair to good fraib in some w/	
		$\langle \rangle$			fair-good show dark brown to black oil droplets; abdt oii drops in tray; app lively to sl clingy; v. slight odor w/ trace dull fluor	
					CH - bone wht to It cream, opaq to semi-trans; vitreous to weathered; tripp in many	
	4750			þ	w/ black stained porosity; fair std stn w/ ssfo in few pcs fractd' trip CH; poor show;	4750
<u>55791111</u>					*SS - semi-translucent cream clusters; med round grains, well sorted; good friab; barren; foss on break	
		15				
					Shaley SS or Sandy SH - pale green, fine grained qtz, clr to frosted, well rounded & sorted grains; fairly cemented w/ poor-fair friab in some; barren; mst porosity	
					shalebound w/ few clusters "cleaner" w/ tighter break & barren; no odor, no shows	
]_		
				ľ	*Flood gummy grey & green, red shales; soft & sticky - dominate sample; scattered	
				10	SS & CH - SS appears white to cream clusters w/ black staining in some, fn-med well rounded & sorted, fair friab w/ residual flakey black flakes on break, vs odor; CH -	
					wht to black, vitreous to fully trippolitic; smooth to highly porous in some w/ dark saturated stain & live dark brown free oil drops in tray; increase break; weak odor &	
974 Že]。	dull fluor	
	4800			5	LS - flood cream to white chalky & dolomitic lime; med xin, cottony w/ soft break;	4800
		10 Gas (1	nits) 500	1°	interbedded trippolitic CH - wht to grey w/ dark trippolitc weathering, porosity & stain; fractured; scattered shows in some; many appear cavings; flood gummy	
					shales & chalk	
77						
					Dol - pale grey to green, fn-v fn xin sucrosic w/ chalky mtx; soft to mushy w/ useless	
					pors; abdt gummy soft clays & chalks; SH - dark green slippery to waxy, mottled in	
		\mathbf{r}			some w/ dark grey/black	
	, k					
					LS - cream to buff, med xin w/ highly chalky txture; soft break; abdt v. fine to	
				1	microxIn, v. smooth & well compacted, dense & lithographic, trans v. pale green hue;	
	4850				few stringers SH - v. pale green w/ dark speckled streaks	
					I S- promito white hut the wel view shallor & asky miser which a section of	
					LS - cream to white, buff, fn md xln; chalky & soft; micro xln LS, as above sm sl green, trans Dol - cream to buff, fn-med xln; some sandstone; white clusters;	
					dolomitic, fair vis pors, well cemented, poorly friable; dense; barren; no odor, ns; stringers green shale	
		$\leq >$				
					SH - flood turquoise green	
				1		
	4000	3 ``		1		