KOLAR Document ID: 1608061

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	OF WELL	& I FASE
	III JIONI	- DESCRIF HOR		a LLASL

OPERATOR: License #	API No.:			
Name:	Spot Description:			
Address 1:				
Address 2:	Feet from North / 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:			
	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 #: 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 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: 1608061

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 (Attach Additional Sh	eets)	Y	es 🗌 No			og Formatio	n (Top), Depth	and Datum	Sample
Samples Sent to Geolog	*		és 🗌 No	Ν	lame	e		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:			ies No ies No ies No						
		Repo	CASING I] Ne	w Used rmediate, productio	on, etc.		
Purpose of String	Size Hole Drilled		ze Casing tt (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING /	SQU	EEZE RECORD			
Purpose: Perforate	Depth Top Bottom	Туре	e of Cement # Sacks L		k	Type and Percent Additives			
Protect Casing Plug Back TD Plug Off Zone									
 Did you perform a hydra Does the volume of the is Was the hydraulic fractu Date of first Production/Inj 	total base fluid of the h ring treatment informa	nydraulic fra tion submit	acturing treatment	al disclosure regis	-	Yes Yes Yes Yes	No (If No, s	kip questions 2 ar kip question 3) ill out Page Three	
Injection:			Flowing	Pumping		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water Bbls. Gas-Oil Ratio Gravity				Gravity
DISPOSITION	I OF GAS:		M	ETHOD OF COM	IPLE	TION:			ON INTERVAL:
Vented Sold Used on Lease Open Hole Perf.			-		mingled	Тор	Bottom		
Shots Per Perforation Perforation Bridge Plug Bridge Plug Foot Top Bottom Type Set At		Bridge Plug Set At		Acid,		ementing Squeeze			
TUBING RECORD:	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion		
Operator	Midwestern Exploration Company		
Well Name	L & L 1-3		
Doc ID	1608061		

All Electric Logs Run

Dual Induction
S P Log
Compensated Neutron
PEL
Density
Micro Log
Compensated Sonic Log

Form	ACO1 - Well Completion		
Operator	Midwestern Exploration Company		
Well Name	L & L 1-3		
Doc ID	1608061		

Tops

Name	Тор	Datum
BASE HEEBNER	4348	-1357
TORONTO LIME	4358	-1367
LANSING LIME	4490	-1499
MARMATION LIME	5215	-2224
CHEROKEE SHALE	5566	-2575
ATOKA LIME	5722	-2731
MORROW SHALE	5916	-2925
LWR MORROW LIME	6220	-3239
CHESTER C LIME	6288	-3297
STE GENEVIEVE	6603	-3612

Form	ACO1 - Well Completion	
Operator	Midwestern Exploration Company	
Well Name	L & L 1-3	
Doc ID	1608061	

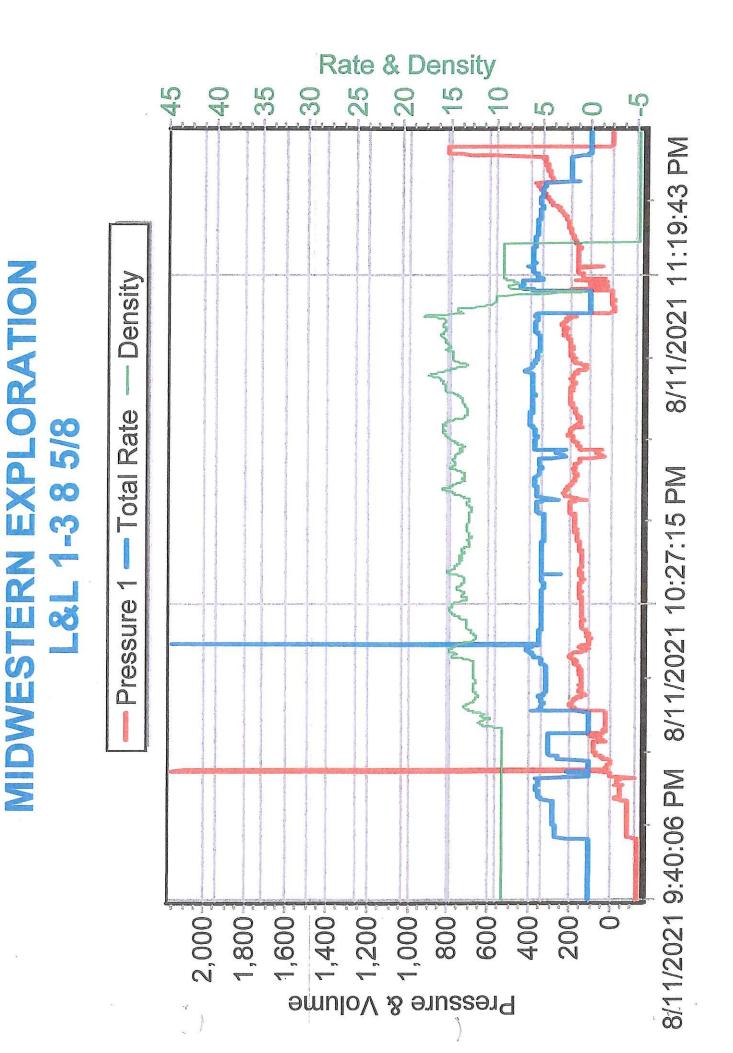
Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Conductor	30	30	52	66	Grout	40	n/a
Surface	12.25	8.625	24	1698	Class C	400	2% GYP 2% Cacl 2% Sodium1/ 4# polyseal
Surface	12.25	8.625	24	1658	Class C	150	2%CaCl 1/4# polyseal
Production	7.875	5.5	15.5	6580	Class H	155	10% Gyp, 10% Salt, .06% Kolseal

			AR	QUASAR	328	Y SER 3 FM 51 , Texas 7624		es, ⁾ in	<i>IC.</i>	
		×⊂r-s∨ą_	æs, NC.			0-612-3336				
				Fax: 94	0-612-3336			רמו		
	<u> </u>	<u></u>		FRACTURING	1	ACID	/	CEME	NT	
3ID #:	3989			AFE#/PO#: 0	·····]			
YPE / PI	URPOSE O	F JOB	C.	ment- Surface	<u> </u>					
USTOM					·	SERVICE POINT	<u>r ı</u>	iberal, KS		
DDRESS				DWESTERN EXPLORATION CO)	WELL NAME	<u>I</u>	& 1.1-3		
CITY	EDMON	<u> </u>	35	00 S. BOULEVARD STE 2B		LOCATION	. v	VOODS, KS		
			· <u>····································</u>	STATE OK Z	IP 73013	TYPE AND PUR	POSE OF	JOB	Cement-	Surface
	OF SALE	<u> </u>	/2021	<u>_</u>		COUNTY	STEVEN	IS	STATE KS	
<u>QTY.</u> 15	1000			PUMPING AND EQUI	MENT USE	<u>כ</u>				
45	1010		Mile Mile	Ivilleage - Pickup - Per	Mile				UNIT PRICE \$3.15	
1	5440		Per Well	Mileage - Equipment M Pumping Charge 0'-350	lleage - Per N	Aile			\$6.00	\$ 270
					<i>.</i>				\$1,575.00	
·	<u> </u>		-			<u> </u>				
			<u> </u>	L			·····			
		+	<u> </u>							
			1	1						
							·			
	<u> </u>	<u> </u>			······································					
	<u> </u>		<u> </u>	·····		·····	······			······································
						· · · · · · · · · · · · · · · · · · ·	·			······································
										······
btotal	for Pum	ping 8	Equipment	Charges						
<u>)TY.</u>	CODE	YD	UNIT	MATERIALS					<u> </u>	\$ 1,892.
550	5632	L	Per Sack	Cement - Class C		······································		<u> </u> !	UNIT PRICE	AMOUNT
1	6030 4780	┝┶╽	Per Well	Plug Container		·····			\$18.90	\$ 10,395.
1	4850		Each Each	Guide Shoe 8 5/8"			·		\$315.00 \$491.40	<u>\$ 315.</u> \$ 491.4
1	4880			Auto Fill Tube 8 5/8" Insert Float 8 5/8"					\$100.80	<u>\$ 491.4</u> \$ 100.1
	4900	L	Each	Top Rubber Plug 8 5/8	,	,,			\$378.00	\$ 378.0
1	4920	L		Centralizers 8 5/8"					#07 FO	
4				Centralizers 8 5/8"		· · · · · · · · · · · · · · · · · · ·		<u> </u>	\$87.50	\$ 87.5
4 10	5647	L	PER BBL	STOP LOSS					\$88.20	\$ 87.5 \$ 352.8
4 10 035	5647 5770	L	PER BBL Per Lb.	STOP LOSS Calcium Chloride					\$88.20 \$225.00	\$ 87.5 \$ 352.8 \$ 2,250.0
4 10 035 38	5647	L	PER BBL Per Lb. Per Lb.	STOP LOSS Calcium Chloride Cello Flakes-Poly Flake 1	/8" cut				\$88.20 \$225.00 \$1.26	\$ 87.5 \$ 352.8 \$ 2,250.0 \$ 1,304.1
4 10 035 38 55 55	5647 5770 5800	L L L	PER BBL Per Lb. Per Lb. Per Lb.	STOP LOSS Calcium Chloride Cello Flakes-Poly Flake 1 Gypsum					\$88.20 \$225.00	\$ 87.5 \$ 352.8 \$ 2,250.0 \$ 1,304.1 \$ 347.7
4 10 035 38 55 55	5647 5770 5800 5850		PER BBL Per Lb. Per Lb. Per Lb. Per Lb.	STOP LOSS Calcium Chloride Cello Flakes-Poly Flake 1 Gypsum Sodium Metasilicate (SM:					\$88.20 \$225.00 \$1.26 \$2.52 \$0.95 \$2.21	\$ 87.5 \$ 352.8 \$ 2,250.0 \$ 1,304.1
4 10 035 38 55 55	5647 5770 5800 5850 5900		PER BBL Per Lb. Per Lb. Per Lb. Per Lb.	STOP LOSS Calcium Chloride Cello Flakes-Poly Flake 1 Gypsum					\$88.20 \$225.00 \$1.26 \$2.52 \$0.95	\$ 87.5 \$ 352.8 \$ 2,250.0 \$ 1,304.1 \$ 347.7 \$ 717.2
4 10 035 38 55 55	5647 5770 5800 5850 5900		PER BBL Per Lb. Per Lb. Per Lb. Per Lb.	STOP LOSS Calcium Chloride Cello Flakes-Poly Flake 1 Gypsum Sodium Metasilicate (SM:					\$88.20 \$225.00 \$1.26 \$2.52 \$0.95 \$2.21	\$ 87.5 \$ 352.6 \$ 2,250.0 \$ 1,304.1 \$ 347.7 \$ 717.2 \$ 1,668.5
4 10 035 38 55 55 55 75	5647 5770 5800 5850 5900 5950		PER BBL Per Lb. Per Lb. Per Lb. Per Lb. (STOP LOSS Calcium Chloride Cello Flakes-Poly Flake 1 Gypsum Sodium Metasilicate (SM:					\$88.20 \$225.00 \$1.26 \$2.52 \$0.95 \$2.21	\$ 87.5 \$ 352.6 \$ 2,250.0 \$ 1,304.1 \$ 347.7 \$ 717.2 \$ 1,668.5
4 10 035 38 55 55 55 75	5647 5770 5800 5850 5900	L L L L al Cha	PER BBL Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Inges	STOP LOSS Calcium Chloride Cello Flakes-Poly Flake 1 Gypsum Sodium Metasilicate (SM:					\$88.20 \$225.00 \$1.26 \$2.52 \$0.95 \$2.21	\$ 87.5 \$ 352.6 \$ 2,250.0 \$ 1,304.1 \$ 347.7 \$ 717.2 \$ 1,668.5 \$ 803.2
4 10 035 38 55 55 55 75	5647 5770 5800 5850 5900 5950 5950	L L L L al Cha	PER BBL Per Lb. Per Lb. Per Lb. Per Lb. (STOP LOSS Calcium Chloride Cello Flakes-Poly Flake 1 Gypsum Sodium Metasilicate (SM:	5) C-45			ΤΟΤΑ	\$88.20 \$225.00 \$1.26 \$2.52 \$0.95 \$2.21 \$10.71	\$ 87.5 \$ 352.6 \$ 2,250.0 \$ 1,304.1 \$ 347.7 \$ 717.2 \$ 1,668.5 \$ 803.2 \$ 19,211.4
4 10 035 38 55 55 55 55 55 55 55 55 55 55 55 55 55	5647 5770 5800 5850 5900 5950 5950 5950 5950 595	L L L L al Cha	PER BBL Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Inges	STOP LOSS Calcium Chloride Cello Flakes-Poly Flake 1 Gypsum Sodium Metasilicate (SM:				DISCOUN	\$88.20 \$225.00 \$1.26 \$2.52 \$0.95 \$2.21 \$10.71 \$10.71	\$ 87.5 \$ 352.6 \$ 2,250.0 \$ 1,304.1 \$ 347.7 \$ 717.2 \$ 1,668.5 \$ 803.2
4 10 035 38 55 55 75 total fo CHAD H SSE PA) CAR CH	5647 5770 5800 5850 5900 5950 5950 5950 5950 595	L L L L al Cha	PER BBL Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Inges	STOP LOSS Calcium Chloride Cello Flakes-Poly Flake 1 Gypsum Sodium Metasilicate (SM:	B) C-45 DISCOUNT	DIS of 9/22/15 any in invoice date. A	nvoice w fter 60 d	DISCOUN TED TOTA	\$88.20 \$225.00 \$1.26 \$2.52 \$0.95 \$2.21 \$10.71 \$10.71 L \$ T \$ L \$	\$ 87.5 \$ 352.6 \$ 2,250.0 \$ 1,304.1 \$ 347.7 \$ 717.2 \$ 1,668.5 \$ 803.2 \$ 19,211.4 21,103.60 5,275.9 15,827.2
4 10 035 38 55 55 75 total fo CHAD H SSE PA) CAR CH	5647 5770 5800 5850 5950 5950 Dr Materi INZ XTON IAVEZ	L L L L al Cha	PER BBL Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Inges	STOP LOSS Calcium Chloride Cello Flakes-Poly Flake 1 Gypsum Sodium Metasilicate (SM:	B) C-45 DISCOUNT	DIS of 9/22/15 any i invoice date. A je will reflect	nvoice w fter 60 da full price	DISCOUN TED TOTA ith a discour ays the disco	\$88.20 \$225.00 \$1.26 \$2.52 \$0.95 \$2.21 \$10.71 \$10.71 L \$ T \$ L \$	\$ 87.5 \$ 352.6 \$ 2,250.0 \$ 1,304.1 \$ 347.7 \$ 717.2 \$ 1,668.5 \$ 803.2 \$ 19,211.4 21,103.60 5,275.92 15,827.72 thin 60 days of hoved and the

at state to be	- Course					QU	ASAR ENER	GY SERVICES,	INC.		
0.	Y							8 FM 51			Form 185-2c
		3						e, Texas 76240 40-612-3336			0/11/24
		L .				Fax:		40-612-3336 qesi@qeserve	e.com		8/11/21 CEMENTING JOB LOO
CEMENTING	G JOB LOO	G						1 4-0.0 4-0.0			
Company:	MIDWE	STERN	EXPLO	ORATI	ON CC).		Well Name:	L&L1-3		2
Type Job:	Cement	- Surfa	ice				2 10	AFE #:			
							CASING	DATA			
Size:	8 5,	/8		G	rade:		J-55	Weight:		24	
Casing Dept	ths	Top:			Bott	om:		2			
Drill Pipe:		Size:			Wei	ght:					
Tubing:		Size:			Wei	ght:		Grade:		TD (ft):	1700
Open Hole:		Size:	12 1	l/4	T.D.	(ft):	1700				
Perforation	s	From	n (ft):			To:		Packer	Depth(ft):		
							CEMENT	DATA			
Spacer	Туре:										
Amt.		Sks Y	'ield				ft ³ / _{sk}			Density (PPG)	
LEAD:	Cl	ASS C	2%GY	P, 2%	SMS, 2			Y, .2%C-51		Excess	
Amt.	400	Sks Y			2.95	the second second	ft ³ / _{sk}	an an ann an an an an Anna Anna Anna Anna Anna		Density (PPG)	11.4
TAIL:			on-parts a	LASS			/4#POLY	······ 4		Excess	
Amt.	150	Sks Y			1.33		$\frac{1}{\text{ft}^3/_{\text{sk}}}$			Density (PPG)	14.8
WATER					1.00		·- / SK				4.4.0
	18.25	gals/	/sk·	17	74	Tail:	6.3	gals/sk:	22.5	Total (bbls):	197.5
Pump Trucks		6013/	JK.		-	1011.	0.5	210-DP			137.5
BLUK FAUIDA	ienr.	1					22	1660-25 2-	50 660-73		
		FRESH			T	Amt		27 660-25 23		(PPG)	83
Bulk Equipn Disp. Fluid T Mud Type:		FRESH		• • • • •		Amt.	(Bbls.)	105.3	Weight		8.3
Disp. Fluid 1 Mud Type:	уре:					a. 14.	(Bbls.)	105.3	Weight Weight	(PPG):	8.3
Disp. Fluid 7	уре:					a. 14.		105.3	Weight Weight		8.3
Disp. Fluid 1 Mud Type:	уре:	ENTATI		ES PSI	BIL	a. 14.	(Bbls.)	105.3	Weight Weight	(PPG): CHAD HINZ	8.3
Disp. Fluid T Mud Type: COMPANY	уре:	ENTATI	IVE:		BIL	LY DA	(Bbls.)	105.3 CE	Weight Weight	(PPG):	8.3
Disp. Fluid T Mud Type: COMPANY TIME	Type: / REPRESI	ENTATI	IVE:		BIL	LY DA	(Bbls.) UGHTRY FLUID PUI	105.3 CE MPED DATA	Weight Weight	(PPG): CHAD HINZ	8.3
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM	Type: / REPRESI	ENTATI	IVE:		BIL	LY DA	(Bbls.) UGHTRY FLUID PUI	105.3 CE MPED DATA	Weight Weight	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U.	8.3
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030	ype: / REPRESI Casin	ENTATI	IVE:		BIL	LY DA	(Bbls.) UGHTRY FLUID PUI	105.3 CE MPED DATA RATE 4.4	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S DP LOSS	8.3
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206	ype: / REPRESI Casin 1500 100 100	ENTATI	IVE:		BIL	LY DA	(Bbls.) SUGHTRY FLUID PUI TOTAL	105.3 CE MPED DATA RATE 4.4 4.4	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STC FW SPACE	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S OP LOSS R	8.3
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210	ype: / REPRESI Casin 1500 100	ENTATI	IVE:		BIL	LY DA	(Bbls.) NUGHTRY FLUID PUI TOTAL 10 5	105.3 CE MPED DATA RATE 4.4 4.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S PP LOSS R D	8.3
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305	ype: / REPRESI Casin 1500 100 100	ENTATI	IVE:		BIL	LY DA	(Bbls.) UGHTRY FLUID PUI TOTAL 10 5 210	105.3 CE MPED DATA RATE 4.4 4.4	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S DP LOSS R ID L	8.3
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315	ype: / REPRESI Casin 1500 100 100 192 200	ENTATI	IVE:		BIL	LY DA	(Bbls.) NUGHTRY FLUID PUI TOTAL 10 5	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S OP LOSS R D L VN, DROP PLUG	
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315 2316	ype: / REPRESI Casin 1500 100 100 192 200 130	ENTATI	IVE:		BIL	JLUS	(Bbls.) SUGHTRY FLUID PUI TOTAL 10 5 210 35.5	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4 5.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S PLOSS R DPLOSS R L UN, DROP PLUG PLACEMENT, WASH	
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315 2316 2333	ype: / REPRESI Casin 1500 100 100 192 200 130 360	PRE ng	IVE:		BIL	JLUS	(Bbls.) UGHTRY FLUID PUI TOTAL 10 5 210 35.5 95	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS SLOW RAT	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S OP LOSS R D L UN, DROP PLUG PLACEMENT, WASH E	
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315 2315 2316 2333 2338	ype: / REPRESI Casin 1500 100 100 192 200 130	PRE ng	IVE:		BIL	JLUS	(Bbls.) SUGHTRY FLUID PUI TOTAL 10 5 210 35.5	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4 5.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS SLOW RAT PLUG DOV	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S OP LOSS R L UN, DROP PLUG PLACEMENT, WASH E VN	
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210	ype: / REPRESI Casin 1500 100 100 192 200 130 360	PRE ng	IVE:		BIL	JLUS	(Bbls.) UGHTRY FLUID PUI TOTAL 10 5 210 35.5 95	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4 5.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS SLOW RAT PLUG DOV RELEASE P	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S PLOSS R DP LOSS R D L VN, DROP PLUG PLACEMENT, WASH E VN SI, FLOAT HELD	
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315 2315 2316 2333 2338	ype: / REPRESI Casin 1500 100 100 192 200 130 360	PRE ng	IVE:		BIL	JLUS	(Bbls.) UGHTRY FLUID PUI TOTAL 10 5 210 35.5 95	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4 5.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS SLOW RAT PLUG DOV RELEASE P JOB COMF	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S PLOSS R D L VN, DROP PLUG PLACEMENT, WASH E VN SI, FLOAT HELD L E	IUP
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315 2316 2338 2338 2338	ype: / REPRESI Casin 1500 100 100 192 200 130 360	PRE ng	IVE:		BIL	JLUS	(Bbls.) UGHTRY FLUID PUI TOTAL 10 5 210 35.5 95	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4 5.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS SLOW RAT PLUG DOV RELEASE P JOB COMF	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S PLOSS R DP LOSS R D L VN, DROP PLUG PLACEMENT, WASH E VN SI, FLOAT HELD	IUP
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315 2315 2316 2333 2338	ype: / REPRESI Casin 1500 100 100 192 200 130 360	PRE ng	IVE:		BIL	JLUS	(Bbls.) UGHTRY FLUID PUI TOTAL 10 5 210 35.5 95	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4 5.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS SLOW RAT PLUG DOV RELEASE P JOB COMF	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S PLOSS R D L VN, DROP PLUG PLACEMENT, WASH E VN SI, FLOAT HELD L E	IUP
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315 2316 2338 2338 2338	ype: / REPRESI Casin 1500 100 100 192 200 130 360	PRE ng	IVE:		BIL	JLUS	(Bbls.) UGHTRY FLUID PUI TOTAL 10 5 210 35.5 95	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4 5.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS SLOW RAT PLUG DOV RELEASE P JOB COMF	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S PLOSS R D L VN, DROP PLUG PLACEMENT, WASH E VN SI, FLOAT HELD L E	IUP
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315 2316 2338 2338 2338	ype: / REPRESI Casin 1500 100 100 192 200 130 360	PRE ng	IVE:		BIL	JLUS	(Bbls.) UGHTRY FLUID PUI TOTAL 10 5 210 35.5 95	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4 5.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS SLOW RAT PLUG DOV RELEASE P JOB COMF	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S PLOSS R D L VN, DROP PLUG PLACEMENT, WASH E VN SI, FLOAT HELD L E	IUP
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315 2316 2338 2338 2338	ype: / REPRESI Casin 1500 100 100 192 200 130 360	PRE ng	IVE:		BIL	JLUS	(Bbls.) UGHTRY FLUID PUI TOTAL 10 5 210 35.5 95	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4 5.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS SLOW RAT PLUG DOV RELEASE P JOB COMF	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S PLOSS R D L VN, DROP PLUG PLACEMENT, WASH E VN SI, FLOAT HELD L E	IUP
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315 2316 2338 2338 2338	ype: / REPRESI Casin 1500 100 100 192 200 130 360	PRE ng	IVE:		BIL	JLUS	(Bbls.) UGHTRY FLUID PUI TOTAL 10 5 210 35.5 95	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4 5.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS SLOW RAT PLUG DOV RELEASE P JOB COMF	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S PLOSS R D L VN, DROP PLUG PLACEMENT, WASH E VN SI, FLOAT HELD L E	IUP
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315 2316 2338 2338 2338	ype: / REPRESI Casin 1500 100 100 192 200 130 360	PRE ng	IVE:		BIL	JLUS	(Bbls.) UGHTRY FLUID PUI TOTAL 10 5 210 35.5 95	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4 5.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS SLOW RAT PLUG DOV RELEASE P JOB COMF	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S PLOSS R D L VN, DROP PLUG PLACEMENT, WASH E VN SI, FLOAT HELD L E	IUP
Disp. Fluid 1 Mud Type: COMPANY TIME AM/PM 2030 2159 2201 2206 2210 2305 2315 2316 2338 2338 2338	ype: / REPRESI Casin 1500 100 100 192 200 130 360	PRE ng	IVE:		BIL	JLUS	(Bbls.) UGHTRY FLUID PUI TOTAL 10 5 210 35.5 95	105.3 CE MPED DATA RATE 4.4 4.4 5 5.4 5.4 5	Weight Weight MENTER: ON LOC, S TEST LINES PUMP STO FW SPACE START LEA START TAI SHUT DOV START DIS SLOW RAT PLUG DOV RELEASE P JOB COMF	(PPG): CHAD HINZ REMARKS AFTEY MTG, R.U. S PLOSS R D L VN, DROP PLUG PLACEMENT, WASH E VN SI, FLOAT HELD L E	IUP

٠.,



Koda Services, Inc.





Conductor and Rat Hole Drilling, Landfill Gas Drilling and Well Construction Nationwide

(

Date	Invoice #
8/24/2021	13398

Bill To

Midwestern Exploration 3500 S. Blvd. Suite 2B Edmond OK 73013

Legal Description	Ordered By	Terms	Field Ticket	Lease Nam	e	Drill Rig		
SW of Liberal, KS		Net 30		L&L#1-3		Duke 1		
Item	Quantity		Description		Rate	Amount		
NGE <u>LAAN 1-01</u> 1.G_XTA N.PT2:	66 1 1 1 7.5 1 1 1 120 15 N EXPLORATIO 15 VG	cleanup Equipment and Lal Weld pipe Furnished grout Deliver grout to loo Cover Plate Provided and Set E Furnish Grout Purn bbls Mud Water Truck	0" conductor pipe lar inhorn d Equipment for dirt bor to install pipe in cation Barrier Fence up		35.00 42.00 450.00 500.00 350.00 100.00 150.00 450.00 30.00 75.00 227.25 10.75 58.05	2,310.00 2,772.00T 450.00 450.00T 500.00 100.00 1,125.00T 450.00 30.00T 75.00T 227.25 1,290.00T 870.75		
Thank you for your bu	ISHESS. DEELEDEL	YNLV I		Subto	tal	\$11,000.00		
	DATE EN	TERED:	erenitariarianiania attanticationania	Sales	Tax (7.5%)	\$430.65		
ROVED BY:	DATE P	10:		Total		\$11,430.65		

P.O. Box 66 · Woodward, OK 73802-0066 · Phone: (580) 254-5019 · Fax: (580) 254-5908

	<u>ح</u> ۱ ۱ اه <i>۳</i>		ð			8 FM 51 e, Texas 7624	10				
ENER	GY SERV	SA Ces i	NC.			40-612-3336				ţ	
				Fax: 940	-612-3336	i qesi@qe	serve.com				
				FRACTURING	1	ACID	1	CEMENT			
	<u></u>					_				ti Ant	
)#:	4357			AFE#/PO#: 0	<u></u>	1					
E / PUR	OSE OF JOE	<u>. </u>	Сета	ent – Squeeze		SERVICE POI	<u> </u>	eral, KS		<u>,,,,,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
STOMER			MID	WESTERN EXPLORATION COL	MPANY I	WELL NAME	L8	L#1-3	, ·, ·		
DRESS	i		3500	S. BOULEVARD STE 2B		LOCATION			Cement - Sq		
CITY	EDMOND	<u> </u>		STATE OK Z	IP 73013	TYPE AND PL			TATE KS	uccze	
DATE O	F SALE	9/28/20	021	rl		COUNTY	STEVEN			AMO	
<u>QTY.</u>		YD	UNIT	PUMPING AND EQUI	PMENT US	SED		0	NIT PRICE \$3.31	\$	49.65
15	1000	L	Mile Mile	Mileage - Pickup - Per Mileage - Equipment N	/iileage - Pe	er Mile			\$6.30		189.00
<u>30</u> 1	1010 5510		Per Well	Pumping Charge 6501	'-7000'				\$2,374.79	<u>\$ 2,</u>	374.79
*											
			······································								
										. <u></u> .	
	<u> </u>										- a.u
						<u></u>					^^
	+					<u></u>	<u> </u>			<u> </u>	
			Engineer	Charges				L		\$ 2	2,613.44
			Equipment	MATERIALS					JNIT PRICE		UNT
QTY. 100	5640	YD L	Per Sack	Cement - Class H	······································	<u> </u>			\$19.85 \$11.25	<u>\$</u> 1 \$	1,985.00 270.00
24	5710	L	Per Lb.	C-15 Low Temp-Non	Retarding	Fluid Loss			ψ11.20	*	
	1			-				<u> </u>			
	1	ļ	<u> </u>			<u></u>					
	<u> </u>		<u> </u>								. <u></u>
						<u></u>	<u></u>				
		\square	<u> </u>			<u>. </u>					
		+-	1		· · · · · · · · · · · · · · · · · · ·	······································				[
		1				·					
	_								······································		
										\$	2,255.00
	I for Blat	erial C	harges		<u> </u>		<u> </u>		AL \$	، ۳	4,868.44
Subtotz	II TOT WAU	<u> </u>	WORKERS		DIS	COUNT:	5%	DISCOL			243.42 4,625.02
					1			DUNTED TO			
KIRBY	HARPER	<u>\</u>			1	As of 9/22	a date. After	ice with a disco 60 days the dis	ount must paid scount will be i	within 60 removed a	days of and the
KIRBY ANGEL E	HARPER					invoice w	ill reflect full	price.			
KIRBY ANGEL E	/ Harper Chevarria					invoice w	ill reflect full				
KIRBY ANGEL E	/ Harper Chevarria					invoice w	ill reflect full	price. POMER SIGN		ATE	

ſ

•



QUASAR ENERGY SERVICES, INC.

3288 FM 51 Gainesville, Texas 76240 Office: 940-612-3336

Fax: 940-612-3336 | gesi@geserve.com

Form 185-2c

9/28/21 CEMENTING JOB LOG

CEMENTING JOB LOG

Company:	MIDWE	STERN EXPLOR	ATION COM	PANY	Well Name	:L&L#1-3	
Type Job:		t - Squeeze			AFE #		
				CASIN	IG DATA	á prách z na se	
Size:	51	/2	Grade:		Weight	: 15.5	
Casing Dept	hs	Тор:	Bottom				
Drill Pipe:		Size:	Weight				
Tubing:		Size: 2 3/8	Weight		Grade	: TD (ft):	
Open Hole:		Size:					
Perforations		From (ft):	<u>6528 T</u>	o: 6542		r Depth(ft): 6393	
Spacer T		1		CEME	NT DATA		
Amt.	ype:	Chalifet		0.31			
LEAD:		Sks Yield		$ft^{3}/_{sk}$		Density (PPG)	
Amt.	50		CLASS H5			Excess	
TAIL:	50	Sks Yield	1.19	$ft^{3}/_{sk}$		Density (PPG)	15.6
	100	Ch- VI LL	CLASS H			Excess	
Amt. WATER:	100	Sks Yield	1.19	ft ³ / _{sk}	······	Density (PPG)	15.6
Lead:	J	gals/sk:	Tai				· · · ····
Pump Trucks	Used	gais/sk.		1.	gals/sk: 110 [Total (bbls):	
Bulk Equipm				,,,,	230 60		
Disp. Fluid Ty			Am	t. (Bbis.)	230 00		
Mud Type:						Weight (PPG):	
COMPANY	REPRES	ENTATIVE:	F	BILLY		EMENTER: KIRBY HARPER	
·····	1	R	· · · · · · · · · · · · · · · · · · ·				
	Casi	PRESSURES			UMPED DATA	REMARKS	
<u>AM/PM</u> 0900	Casii 1000	ng Tubing		S TOTAL	. RATE		
1022	1000		500			ON LOCATION SPOT AND RI	G UP
1022		2000	500	40	4	LOAD ANNULUS	
1032		750		20	2	PRESSURE TEST ESTABLISH RATE	
1046		500		10	2	START MIXING 50 SK LEAD @ :	15 6 DDC
1053		300		10	2	START MIXING 50 SK TAIL @ 1	
1059						SHUT DOWN CLEAN LINES	
1106		0		0	1.3	START DISPLACING WITH FRES	HWATER
1132		150		15.5	.7	DISPLACEMENT REACHES CEM	
1138		2000		23	.3	SHUT DOWN WELL PRESSUR	ED UP
1148		1850-0				RELEASE PRESSURE NO FLOV	V BACK
1154			650	0	2	START REVERSING OUT	
1209			700	30	·	SHUT DOWN POOH W/ 5 ST	
1229	_	500	500			PRESSURE UP WELL SHUT IN	WELL
			- `		-		
						· · · · · · · · · · · · · · · · · · ·	
· · ·	· · · ·	····	-				<u></u>
				1		······································	·····
			1	CENTENITIN	G JOB LOG - Page:		

QUS	AR ENERG	Y SERVICE	INC.
		FM 51	

L

辪

.

.n 185-2c

ENERGY SERVICES NC

2

S

Gainesville, Texas 76240 Office: 940-612-3336

,				Fax: 940	-612-3336	qesi@qese	erve.c		199			
				FRACTURING		ACID	1	CEMEI	VI		Å	
D #:	3992			AFE#/PO#: 0		1			<u> </u>			
PE / PURI	POSE OF JO	в	Ceme	ent-Production		SERVICE POINT	Γ	Liberal, KS				
STOMER			Midw	vestern Exploration Compar	ιγ	WELL NAME		L&L#1-3				
	· · · · · · · · · · · · · · · · · · ·		3500	S. Boulevard Ste 2B		LOCATION		Hugoton, Ks.				
DDRESS					IP 730 <u>13</u>	TYPE AND PUE	RPOSE C	OF JOB	Cem	ent-Pro	ductior	<u> </u>
СПУ	Edmond					COUNTY	Stev		STATE	KS		
DATE O	FSALE	<u>8/18/20</u>							UNIT PF	RICE	AM	
QTY.	CODE	YD	UNIT	PUMPING AND EQUI Mileage - Pickup - Per	r Mile				\$	3.15	\$	47.25
	1000 1010		Mile Mile	Mileage - Equipment N	/iileage - Pe	r Mile			\$	6.00	\$	180.00
30	1010		IVING				<u> </u>		\$2,26	1 70L	\$	2,261.70
1	5510	L	Per Well	Pumping Charge 6501	'-7000'	,	. <u>.</u>	<u></u>		5.00	\$	315.00
1	6030	L	Per Well	Plug Container				<u> </u>				
<u></u>	4000	┝╶╌┼	Each	Auto Fill Shoe (Blue)	5 1/2"			· · · · · · · · · · · · · · · · · · ·		78.00	\$	378.00
	4300		Each	Latch Down Plug & Ba	affle 5 1/2" E	Blue				00.00		400.00
<u>1</u> 10	4731 4460		Each	Turbolizers 5 1/2"						31.90 39.80	\$ \$	819.00 289.80
1	4470		Each	Cement Basket 5 1/	2"					59.80	Φ	203.00
.	+											
				<u> </u>					-			
		 		<u> </u>								
n		 										
	<u> </u>	┢──┨	<u></u>								*	4,690.75
		<u> </u>									30	4,090.70
Subtotal	I for Plitti	nina X	Lauipment	Charges			<u> </u>					
	T	1 1	Equipment						UNIT P		AN	OUNT
QTY.	CODE	YD	UNIT	MATERIALS						RICE 18.90	AN	
	T	1 1		MATERIALS Cement - Class H	· · · · · · · · · · · · · · · · · · ·				\$	18.90	<u>AN</u> \$	OUNT 3,780.00
QTY.	CODE	ΥD	UNIT Per Sack Per BBL	MATERIALS Cement - Class H	M/Polymer	"hid Loop		······································	\$2	18.90 25.00	AN	0UNT 3,780.00 2,250.00
QTY. 200	CODE 5640 5647 5710	YD L L	UNIT Per Sack Per BBL Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non	Retarding F	Fluid Loss			\$ \$2 \$	18.90	AN \$	2,250.00 1,210.23 88.20
QTY. 200 10 113 2	CODE 5640 5647 5710 5751	VD L L	UNIT Per Sack Per BBL Per Lb. Per Gal.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Ligu	Retarding F	Fluid Loss			\$2 \$2 \$ \$	18.90 25.00 10.71 44.10 \$0.32	AN \$ \$ \$ \$	2,250.00 1,210.23 88.20 56.00
QTY. 200 10 113 2 175	CODE 5640 5647 5710 5751 5840	ΥD L L L L	UNIT Per Sack Per BBL Per Lb. Per Gal. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite)	Retarding F	Fluid Loss			\$2 \$2 \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95	AN \$ \$ \$ \$ \$ \$	2,250.00 1,210.23 88.20 56.00 1,805.00
QTY. 200 10 113 2 175 1,900	CODE 5640 5647 5710 5751 5840 5850	YD L L L L	UNIT Per Sack Per BBL Per Lb. Per Gal. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum	Retarding F	Fluid Loss			\$2 \$2 \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78	AN \$ \$ \$ \$ \$ \$	2,250.00 1,210.23 88.20 56.00 1,805.00 780.00
QTY. 200 10 113 2 175 1,900 1,000	CODE 5640 5647 5710 5751 5840 5850 5860	ΥD L L L L	UNIT Per Sack Per BBL Per Lb. Per Cal. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite)	Retarding F	Fluid Loss			\$2 \$2 \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95	AN \$ \$ \$ \$ \$ \$	2,250.00 1,210.23 88.20 56.00 1,805.00 780.00
QTY. 200 10 113 2 175 1,900	CODE 5640 5647 5710 5751 5840 5850	YD L L L L	UNIT Per Sack Per BBL Per Lb. Per Gal. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F	Fluid Loss			\$2 \$2 \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78	AN \$ \$ \$ \$ \$ \$	2,250.00 1,210.23 88.20 56.00 1,805.00 780.00
QTY. 200 10 113 2 175 1,900 1,000	CODE 5640 5647 5710 5751 5840 5850 5860	YD L L L L	UNIT Per Sack Per BBL Per Lb. Per Cal. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F	Fluid Loss			\$2 \$2 \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78	AN \$ \$ \$ \$ \$ \$	2,250.00 1,210.23 88.20 56.00 1,805.00 780.00
QTY. 200 10 113 2 175 1,900 1,000	CODE 5640 5647 5710 5751 5840 5850 5860	YD L L L L	UNIT Per Sack Per BBL Per Lb. Per Cal. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F	Fluid Loss			\$2 \$2 \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78	AN \$ \$ \$ \$ \$ \$	2,250.00 1,210.23 88.20 56.00 1,805.00 780.00
QTY. 200 10 113 2 175 1,900 1,000	CODE 5640 5647 5710 5751 5840 5850 5860	YD L L L L	UNIT Per Sack Per BBL Per Lb. Per Cal. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F	Fluid Loss			\$2 \$2 \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78	AN \$ \$ \$ \$ \$ \$	2,250.00 1,210.23 88.20 56.00 1,805.00 780.00
QTY. 200 10 113 2 175 1,900 1,000	CODE 5640 5647 5710 5751 5840 5850 5860	YD L L L L	UNIT Per Sack Per BBL Per Lb. Per Cal. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F	Fluid Loss			\$2 \$2 \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78	AN \$ \$ \$ \$ \$ \$	2,250.00 1,210.23 88.20 56.00 1,805.00 780.00
QTY. 200 10 113 2 175 1,900 1,000	CODE 5640 5647 5710 5751 5840 5850 5860	YD L L L L	UNIT Per Sack Per BBL Per Lb. Per Cal. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F	Fluid Loss			\$2 \$2 \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78	AN \$ \$ \$ \$ \$ \$ \$	3,780.00 2,250.00 1,210.23 88.20 5 56.00 1,805.00 780.00 566:40
QTY. 200 10 113 2 175 1,900 1,000 1,200	CODE 5640 5647 5710 5751 5840 5850 5860 5890	ΥD L L L L L L L - - - - - - - - - - - - -	UNIT Per Sack Per BBL Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F	Fluid Loss			\$ \$ \$ \$ 	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78 \$0.47 	AN \$ \$ \$ \$ \$ \$ \$	2,250.00 1,210.23 88.20 56.00 1,805.00 780.00 566:40
QTY. 200 10 113 2 175 1,900 1,000 1,200	CODE 5640 5647 5710 5751 5840 5850 5860	ΥD L L L L L L L - - - - - - - - - - - - -	UNIT Per Sack Per BBL Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F aid		250/		\$ \$ \$ \$ 	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78 \$0.47	AN \$ \$ \$ \$ \$ \$ \$	2,250.00 1,210.23 88.20 5 56.00 1,805.00 780.00 566.40 566.40 10,535.83 215,226.54 3,806.65
QTY. 200 10 113 2 175 1,900 1,000 1,200 1,200	CODE 5640 5647 5710 5751 5840 5850 5860 5890	ΥD L L L L L L L - - - - - - - - - - - - -	UNIT Per Sack Per BBL Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F aid		25%	DISC	\$2 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78 \$0.47	AN \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,535.83 11,5256.50 1,210.23 88.20 56.00 1,805.00 780.00 566.40 1,805.00 780.00 566.40 1,805.00 780.00 566.40 1,805.00 780.00 566.40 1,805.00 780.00 566.40 1,805.00 780.00 566.40 1,805.00 780.00 566.40 1,805.00 780.00 1,805.00 780.00 1,805.00 780.00 1,805.00 780.00 1,805.00 780.00 1,805.00 780.00 1,805.00 780.00 1,805.00 780.00 1,805.00 780.00 1,805.00 780.00 1,805.00 780.00 1,805.00 780.00 1,805.00 780.00 1,805.00 780.00 566.40 1,805.00 1,805.00 780.00 566.40 1,805.00 1
QTY. 200 10 113 2 175 1,900 1,000 1,200 1,200 Subtota	CODE 5640 5647 5710 5751 5840 5850 5860 5890 5890 al for Mat	ΥD L L L L L L L - - - - - - - - - - - - -	UNIT Per Sack Per BBL Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F aid	COUNT:	DIS	DISCOUNTED	\$2 \$ \$ \$ 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	18.90 25.00 10.71 44.10 \$0.32 \$0.78 \$0.78 \$0.78 \$0.47 \$0.47 \$0.47 \$0.47 \$0.47 \$0.47 \$0.47 \$0.47 \$0.5 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	AN \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	10,535.83 10,535.83 10,535.83 11,419.97 10,780.00 1,805.00 780.00 566.40 10,535.83 15,226.56 3,806.66 11,419.97 4/ 8 · 4
QTY. 200 10 113 2 175 1,900 1,000 1,200 1,200 Subtotz Subtotz Dar	CODE 5640 5647 5710 5751 5840 5850 5850 5860 5890 	YD L L L L L L L V V V V V V V V V V V V	UNIT Per Sack Per BBL Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F aid	COUNT:	DIS 15 any 1 date. A	DISC SCOUNTED invoice with a After 60 days th	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78 \$0.47 \$0	AN \$ \$ \$ \$ \$ \$ \$ \$ 22415 22415	10,535.83 11,419.99 1,210.23 88.20 560.00 1,805.00 780.00 566.40 10,535.83 15,226.50 3,806.69 11,419.99 4/ 2 & 4 60 days of
QTY. 200 10 113 2 175 1,900 1,000 1,200 Subtota Subtota Dan Marca Dar	CODE 5640 5647 5710 5751 5840 5850 5860 5890 5890 5890 5890 5890 5890	YD L L L L L L L V V V V V V V V V V V V	UNIT Per Sack Per BBL Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F aid	COUNT:	DIS 15 any 1 date. <i>I</i> I reflect	DISC SCOUNTED invoice with a After 60 days th t full price.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78 \$0.47 \$0	AN \$ \$ \$ \$ \$ \$ \$ 22413 1 withir remove	10,535.83 11,419.97 1,210.23 88.20 560.00 1,805.00 780.00 566.40 10,535.83 15,226.51 3,806.63 11,419.97 4/ 8 × 2 60 days of
QTY. 200 10 113 2 175 1,900 1,000 1,200 Subtota Subtota Dan ⁶ Marca Dar	CODE 5640 5647 5710 5751 5840 5850 5860 5890 5890 5890 5890 5890 5890	YD L L L L L L L V V V V V V V V V V V V	UNIT Per Sack Per BBL Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class H Stop Loss Spacer-LC C-15 Low Temp-Non C-41L Defoamer Liqu Gel (Bentinite) Gypsum Kol-Seal	Retarding F aid	COUNT:	DIS 15 any 1 date. <i>I</i> I reflect	DISC SCOUNTED invoice with a After 60 days th	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	18.90 25.00 10.71 44.10 \$0.32 \$0.95 \$0.78 \$0.47 \$0	AN \$ \$ \$ \$ \$ \$ \$ 22413 1 withir remove	10,535.83 11,419.97 1,210.23 88.20 560.00 1,805.00 780.00 566.40 10,535.83 15,226.51 3,806.63 11,419.97 4/ 8 × 2 60 days of

4

QUASAR ENERGY SERVICES, INC.

Form 185-2c

3288 FM 51 Gainesville, Texas 76240 Office: 940-612-3336 Fax: 940-612-3336 | qesi@qeserve.com

8/18/21 CEMENTING JOB LOG

CEMENTING JOB LOG

CEMENIA	Midwes		vnlor	tion (omna	nv		Vell Name:	L&L#1-3						
Company: Type Job:	Cement				ompa	•••¥		AFE #:							
Type Job:	Cement	- PIUU	uction				CASING								
Size:	5 1/	12	- 1	G	rade:	<u> </u>	J-55	Weight:		15.5					
Casing Dept		Z Top:		L	Bott						····				
Drill Pipe:		Size:		1	Weig				The second se						
Open Hole:		Size:	77	1/2	T.D.					<u> </u>					
Open noie.	······································	5126.	· · ·	/0]	1.0.	1107-	CEMENT			a an					
Spacer T	where I			_·				10BBL Stop	loss		· · · · · · · · · · · · · · · · · · ·				
	ype.	Sks \	liald		o		$ft^{3}/_{sk}$			Density (PPG)	· · · · · · · · · · · · · · · · · · ·				
Amt.		2821	neiu		Rat &					Excess					
LEAD:		CI N	e . 1 .1				$\frac{1}{ft^{3}/_{sk}}$			Density (PPG)					
Amt.	50				0			HIZ-L Cool		Excess	, , , , , , , , , , , , , , , , , ,				
TAIL:				*			6% C-15, 5				14.79				
Amt.	130	Sks \	Yield		202.8		ft ³ / _{sk}	1.56		Density (PPG)	14.79				
WATER:	:							·····		T-1-1/1-1-1 1	217				
Lead:		gals	/sk:	L]	Tail:	130	gals/sk:	7	Total (bbis):	21.7				
Pump Trucks						·····		04, DPC							
Bulk Equipm			10	27 23	<u></u>			230, 660 154.6		(DDC)	3.33				
Disp. Fluid Ty	уре:	Wate	r (Sup	plied)	, I		(Bbls.)		[
COMPANY	REPRES	ENTAT	IVE:			Bi	lly	CE	MENTER:	Daniel Beck					
TIME		PR	FSSLIF	RES PSI			FLUID PU	MPED DATA							
AM/PM	Casi			Ding				RATE		REMARKS					
5:45			144						ON LOCAT	ION & SAFETY MEET	ING				
13:10										RIG TO CIRCULATE					
13:38	1	-						-	RIG TO PT						
13:44							<u> </u>		PRESSURE	TEST TO 1400PSI	· · · · · · · · · · · · · · · · · · ·				
13:46	400					·	10	9.0	PUMP STO	OP LOSS					
13:53	1				· · · · · · · · · · · · · · · · · · ·		12.7slurry		PLUG RAT	& MOUSE					
14:02	380						36.1slurry		PUMP 130)SX TAIL @ 14.7#					
14:18									SHUTDOW	VN / DROP PLUG / W	Р				
14:23	260						20	7.1	DISPLACE						
	250						40	6.8							
	280						60	7.1							
	250						80	6.8							
	290						100	6.4							
	340						120	5.0							
	580						140	3.7			<u></u>				
14:47	600						144	3.2	SLOW RAT	TE TO 2.0BPM @ 580	PSI				
	630						150	2.0							
14:50	640						154.6	2.0		G / PRESSURE UP TO	1000PSI				
14:52							[}	BACK FLOAT HELD					
							<u> </u>		JOB COMI	PLETE	···				
4							[<u> </u>					
							<u> </u>	<u> </u>	<u> </u>						
Company:	Midwes	stern E	xplor	ation (Compa	any		Well Name:		· · · · · · · · · · · · · · · · · · ·					
Type Job:	Cement	· · · ·						AFE #:	l						
Date:	8/18/2	2021	CEME	ENTING	5 JOB	log		. 	QUASAR ENE	RGY SERVICES, INC. 185-2					

CEMENTING JOB LOG - Page: 1

......

Rate & Density 00 7 07 7 N 7 Z 00 Ö 7 N 0 8/18/2021 3:29:18 PM - Total Pressure **Midwestern Exploration Company** - Total Rate 11 L & L 1-3 ii 8/18/2021 2:26:09 PM 8/18/2021 2:56:21 PM 11 Stage Vol - Density 11 2 1,600-1,000-1 1,400-1,200 600-400-0 800 200-4 Pressure & Volume

			Marmaton 5223 (-2232) Ls, buff, crm. wh, sub-chalky, foss, oolitic in few, poorly dev. int. xln,	ł										
			porosity, no shows, no fluor, no odor, no stain.	ł										
Z	5250		Ls, buff, crm. wh, sub-chalky, foss, oolitic in few, poorly dev. int. xln, porosity, no shows, no fluor, no odor, no stain.	ł)			_						
		¢ • •	Ls, tan, buff, f-m xin, oolitic w/ well dev. comoldic porosity, no shows, no fluor, no odor, no staining.	7							-AV to	o 140	ft/m in	
			Ls, tan, buff, v. dns, f. xln, m icritic, no	ł										
			vis. porosity, no show, no fluor.											
- E	5300		Ls, med. to drk. gry, m. xln, gran., poorly dev. porosity, no shows, no fluor, no odor, no staining.											
			Ls, med. to drk. gry, m. xin, gran., poorly	4										
$\frac{1}{2}$			dev. porosity, no shows, no fluor, no odor, no staining. Sh, It. to med. gry, soft, silty, fissle.	4										
$\left\{ \begin{array}{c} \\ \\ \end{array} \right\}$	0		Sh, It. to med. gry, soft, silty, fissle.											
	5350		Ls, buff, gry-wh, tan, f. xln, poor to fair dev. int xln. porosity, no show, chalky fluor, no staining.			_TG	inc. 8	3 unit	s		Winte		d repo	ort -
X X		φ • •	Ls, tan, buff, f-m xin, oolitic w/ fair dev. oomoldic porosity, no shows, no fluor,	<							Wt. 9 Vis. W.L. PH 1	.4 55 6.8 1		
			no odor, no staining.								Chl. LCM			
			The second s											