KOLAR Document ID: 1566733

Confidentiality Requested:

Yes No

#### Kansas Corporation Commission Oil & Gas Conservation Division

Form ACO-1
January 2018
Form must be Typed
Form must be Signed
All blanks must be Filled

# WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
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: ()	□NE □NW □SE □SW
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	Elevation: Ground: Kelly Bushing:
☐ Gas ☐ DH ☐ EOR	Total Vertical Depth: Plug Back Total Depth:
☐ OG ☐ GSW	Amount of Surface Pipe Set and Cemented at: Feet
CM (Coal Bed Methane)	
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)
Described	Chloride content: ppm Fluid volume: bbls
☐ Commingled     Permit #:	Dewatering method used:
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Location of fluid disposal if flauled offsite.
GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R
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 III Approved by: Date:

KOLAR Document ID: 1566733

#### Page Two

Operator Name:					Lease Nam	ne:			Well #:	
Sec Tw	pS. F	R [	East	West	County:					
open and closed and flow rates if	, flowing and sh gas to surface t ty Log, Final Lo	nut-in pressurest, along wit	es, whe h final c ain Geo	ther shut-in pre hart(s). Attach physical Data a	essure reached extra sheet if r and Final Electr	station more : ric Loc	level, hydrosta space is needed	tic pressures, d.	bottom hole tempe	val tested, time tool erature, fluid recovery,  Digital electronic log
Drill Stem Tests (Attach Addit			Ye	es No		Lo	og Formatio	n (Top), Deptl	n and Datum	Sample
Samples Sent to	Geological Sur	vey	Ye	es 🗌 No		Name	)		Тор	Datum
Cores Taken Electric Log Run Geologist Repor List All E. Logs F	t / Mud Logs		Y€  Y€	es No						
			Repo		RECORD [	Nev	w Used rmediate, producti	on. etc.		
Purpose of St		ze Hole Orilled	Siz	e Casing (In O.D.)	Weight Lbs. / Ft.		Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
				ADDITIONAL	OF MENTING /					
Purpose:	[	Depth	Typo	of Cement	# Sacks Use		EEZE RECORD	Typo a	nd Percent Additives	
Perforate Protect Ca Plug Back	Top	Bottom	туре	or cement	# Sacks Use	,u		туре а	ia Percent Additives	
Plug Off Z										
Did you perform     Does the volum     Was the hydraul	e of the total base	fluid of the hyd	draulic fra	cturing treatmen		•	Yes ns? Yes	No (If No	, skip questions 2 an , skip question 3) , fill out Page Three o	,
Date of first Produ	ction/Injection or	Resumed Produ	uction/	Producing Meth			Coolift 0	thor (Fundain)		
Estimated Produc	otion	Oil Bb	le.	Flowing Gas	Pumping  Mcf	Wate		ther <i>(Explain)</i> bls.	Gas-Oil Ratio	Gravity
Per 24 Hours		Oli Bb	15.	Gas	IVICI	vvale	ı Di	JIS.	Gas-Oil Hallo	Gravity
DISPO	OSITION OF GAS	S:		N	METHOD OF CO	MPLE.	TION:		PRODUCTIO	N INTERVAL:
Vented	Sold Use	d on Lease		Open Hole		Dually		nmingled	Тор	Bottom
(If vente	ed, Submit ACO-18	.)			(5	SUDITIIL I	ACO-5) (Subi	mit ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom	on	Bridge Plug Type	Bridge Plug Set At		Acid,		Cementing Squeeze Kind of Material Used)	Record
TUBING RECOR	D: Size:		Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	PREEDY EAST 2-5
Doc ID	1566733

## Tops

Name	Тор	Datum
Heebner	4401	-1765
Toronto	4428	-1792
Lansing	4548	-1912
Marmaton	5180	-2544
Cherokee	5356	-2720
Atoka	5608	-2972
Morrow	5668	-3032
Mississippi Chester	5784	-3148
Ste. Genevieve	6006	-3370
St. Louis	6098	-3462

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	PREEDY EAST 2-5
Doc ID	1566733

## Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	12.25	8.625	24	1573	CLASS A	540	3%CaCl, 1/4# floseal
Production	7.875	4.5	10.5	6242	CLASS H	200	2%CaCl, 1/4# floseal



## QUASAR ENERGY SERVICES, INC.

3288 FM 51

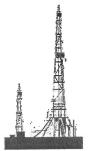
Gainesville, Texas 76240 Office: 940-612-3336

Fax: 940-612-3336 | qesi@qeserve.com

**FRACTURING** 

ACID

CEMENT



VDE / DITE	3285			AFE#/PO#:	0								
TEE / PUP	RPOSE OF JO	)B	Cem	nent- Surface			SERVICE PO	DINT					
USTOME				IEN ENERGY RESOU	JRCES C	ORP	WELL NAM	IE	PREEDY EAST #	‡ 2 <b>-</b> 5			
ADDRESS			18 C	ONGRESS ST, STE 20	.07		LOCATION						
CITY	STATE ZIP TYPE AND PURPOSE OF JOB						F JOB	F JOB Cement- Surface					
	OF SALE	12/10/	2020				COUNTY	MEA	DE	STA	TE KS		
QTY.	CODE	YD	UNIT	PUMPING AND	FOLL	IPMENT LISE				UNI	T PRICE	AM	OUNT
25	1000	L	Mile	Mileage - Picku							\$3.15	\$	78.75
75	1010	L	Mile	Mileage - Equip			Mile				\$6.00	\$	450.00
1	5440	L	Per Well	Pumping Charg			141110			\$	1,575.00	\$	1,575.00
		-	Box	Thread Lock	<del>je 0 -</del> 5.	300				-	\$44.10	\$	88.20
2	6158	L		Guide Shoe 8	2 5/9"					_	\$491.40	\$	491.40
1	4780	L	Each			11					\$100.80	\$	100.80
1	4850	L	Each	Auto Fill Tube		,					\$378.00	\$	378.00
1	4880	L	Each	Insert Float 8	2/Q.	E (OII				-	\$87.50	\$	87.50
1	4900	L	Each	Top Rubber Plu		5/8"				-			352.80
4	4920	L	Each	Centralizers 8							\$88.20 \$453.60	\$ \$	453.60
1	4940	L	Each	Cement Basket	1 85/	/8" /					ψ433.00	Ψ	400.00
		1 1		1									
Subtotal	for Pum	oing &	Equipment	Charges								\$	4,056.05
Subtotal QTY.	for Pump	oing &	Equipment UNIT	Charges MATERIALS						UNI	T PRICE	AM	4,056.05 OUNT
	1				s A					UNI	\$15.75	AM \$	OUNT 8,505.00
<b>QTY.</b> 540	<b>CODE</b> 5630	YD	UNIT Per Sack	MATERIALS						UNI	\$15.75 \$1.26	<b>AM</b> \$	OUNT 8,505.00 1,278.90
<b>QTY.</b> 5.40 1,015	<b>CODE</b> 5630 5770	YD L L	UNIT Per Sack Per Lb.	MATERIALS Cement - Class Calcium Chloric	de	ke 1/8" cut				UNI	\$15.75	AM \$	OUNT 8,505.00 1,278.90
QTY. 540 1,015 85	5630 5770 5800	YD L L L	UNIT Per Sack Per Lb. Per Lb.	MATERIALS  Cement - Class  Calcium Chloric  Cello Flakes-Po	de oly Fla	ke 1/8" cut				UNI	\$15.75 \$1.26	<b>AM</b> \$	OUNT 8,505.00 1,278.90 214.20
QTY. 540 1,015 85 350	5630 5770 5800 5840	YD L L L	UNIT Per Sack Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class Calcium Chloric Cello Flakes-Po Gel (Bentinite)	de oly Fla	ke 1/8" cut				UNI	\$15.75 \$1.26 \$2.52 \$0.32	\$ \$ \$	OUNT 8,505.00 1,278.90 214.20 112.00
QTY. 540 1,015 85 350 700	5630 5770 5800 5840 5850	YD L L L L	UNIT Per Sack Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class Calcium Chloric Cello Flakes-Po Gel (Bentinite) Gypsum	de oly Fla					UNI	\$15.75 \$1.26 \$2.52 \$0.32 \$0.95	**************************************	OUNT 8,505.00 1,278.90 214.20 112.00 665.00
QTY. 540 1,015 85 350	5630 5770 5800 5840	YD L L L	UNIT Per Sack Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class Calcium Chloric Cello Flakes-Po Gel (Bentinite)	de oly Fla					UNI	\$15.75 \$1.26 \$2.52 \$0.32	**************************************	OUNT 8,505.00 1,278.90 214.20 112.00 665.00 1,547.00
QTY. 540 1,015 85 350 700 700	5630 5770 5800 5840 5850 5900	YD L L L L L	Per Sack Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class Calcium Chloric Cello Flakes-Pc Gel (Bentinite) Gypsum Sodium Metasil	de oly Fla					UNI	\$15.75 \$1.26 \$2.52 \$0.32 \$0.95 \$2.21	\$ \$ \$ \$ \$	OUNT 8,505.00 1,278.90 214.20 112.00 665.00 1,547.00
QTY. 540 1,015 85 350 700 700	5630 5770 5800 5840 5850 5900	YD L L L L L	Per Sack Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class Calcium Chloric Cello Flakes-Pc Gel (Bentinite) Gypsum Sodium Metasil	de oly Fla					UNI	\$15.75 \$1.26 \$2.52 \$0.32 \$0.95 \$2.21	\$ \$ \$ \$ \$	OUNT 8,505.00 1,278.90 214.20 112.00 665.00 1,547.00
QTY. 540 1,015 85 350 700 700	5630 5770 5800 5840 5850 5900	YD L L L L L	Per Sack Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class Calcium Chloric Cello Flakes-Pc Gel (Bentinite) Gypsum Sodium Metasil	de oly Fla					UNI	\$15.75 \$1.26 \$2.52 \$0.32 \$0.95 \$2.21	\$ \$ \$ \$ \$	OUNT 8,505.00 1,278.90 214.20 112.00 665.00 1,547.00
QTY. 540 1,015 85 350 700 700 68	5630 5770 5800 5840 5850 5900 5950	YD L L L L L L L	Per Sack Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class Calcium Chloric Cello Flakes-Pc Gel (Bentinite) Gypsum Sodium Metasil	de oly Fla					UNI	\$15.75 \$1.26 \$2.52 \$0.32 \$0.95 \$2.21	<b>AM</b> \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	0UNT 8,505.00 1,278.90 214.20 112.00 665.00 1,547.00 728.28
QTY. 540 1,015 85 350 700 700 68	5630 5770 5800 5840 5850 5900	YD L L L L L L rial Ch	Per Sack Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class Calcium Chloric Cello Flakes-Pc Gel (Bentinite) Gypsum Sodium Metasil	de oly Fla				TC		\$15.75 \$1.26 \$2.52 \$0.32 \$0.95 \$2.21 \$10.71	AM \$ \$ \$ \$ \$ \$ \$	0UNT 8,505.00 1,278.90 214.20 112.00 665.00 728.28
QTY. 540 1,015 85 350 700 68	5630 5770 5800 5840 5850 5900 5950	YD L L L L L L rial Cr	Per Sack Per Lb. When the series arges WORKERS	MATERIALS Cement - Class Calcium Chloric Cello Flakes-Pc Gel (Bentinite) Gypsum Sodium Metasil	de oly Fla	SMS) C-45	INT	30%		DTAL	\$15.75 \$1.26 \$2.52 \$0.32 \$0.95 \$2.21 \$10.71	AM \$ \$ \$ \$ \$ \$ \$	0UNT 8,505.00 1,278.90 214.20 112.00 665.00 728.28 3,050.38 7,106.43
QTY. 540 1,015 85 350 700 68	5630 5770 5800 5840 5850 5900 5950	YD L L L L L L rial Cr	Per Sack Per Lb. Per Lb. Per Lb. Per Lb. Per Lb. Per Lb.	MATERIALS Cement - Class Calcium Chloric Cello Flakes-Po Gel (Bentinite) Gypsum Sodium Metasil	de oly Fla		JNT:	30% DISC	TC DISCO	DTAL	\$15.75 \$1.26 \$2.52 \$0.32 \$0.95 \$2.21 \$10.71	**************************************	OUNT 8,505.00 1,278.90 214.20 112.00

STAMPS & NOTES:

As of 9/22/15 any invoice with a discount must paid within 60 days of the invoice date. After 60 days the discount will be removed and the invoice will reflect full price.

CUSTOMER SIGNATURE & DATE

\*\*All accounts are past due net 30 days following the date of invoice. A finance charge of 1 1/2% per month or 18% annual percentage rate will be charged on all past due accounts.

#### QUASAR ENERGY SERVICES, INC.

QUASAR ENERGY SERVICES, INC.

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

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

Form 185-2c

12/10/20 CEMENTING JOB LOG

#### **CEMENTING JOB LOG OBRIEN ENERGY RESOURCES CORP** Well Name: PREEDY EAST # 2-5 Company: AFE #: Type Job: Cement-Surface **CASING DATA** 24 85/8 Grade: Weight: Size: **Casing Depths** Bottom: Top: Drill Pipe: Size: Weight: TD (ft): Tubing: Size: Weight: Grade: T.D. (ft): Open Hole: Size: Packer Depth(ft): Perforations From (ft): To: **CEMENT DATA** Spacer Type: FRESH WATER $ft^{3}/_{sk}$ Density (PPG) Amt. Sks Yield CLASS A -- 2% GYP, 2% SMS, 3% CC, 1/4# CELLOFLAKE, .2% FWCA **Excess** LEAD: $ft^3/_{sk}$ Density (PPG) 11.4 360 Sks Yield 2.93 Amt. CLASS A -- 2% GEL, 2% CC, 1/4# CELLOFLAKE **Excess** TAIL: ft $^{3}/_{sk}$ Density (PPG) 14.8 180 Sks Yield Amt. WATER: gals/sk: 6.59 Total (bbls): Lead: gals/sk: 18 Tail: 110 -- DP7 Pump Trucks Used: **Bulk Equipment:** 8.33 Disp. Fluid Type: FRESH WATER Amt. (Bbls.) Weight (PPG): Weight (PPG): Mud Type: **CEMENTER: KIRBY HARPER COMPANY REPRESENTATIVE:** PRESSURES PSI FLUID PUMPED DATA TIME **REMARKS** AM/PM **ANNULUS** TOTAL RATE Casing Tubing ON LOCATION -- SPOT AND RIG UP 2000 CASING ON BOTTOM -- BREAK CIRC. 2245 SAFETY MEETING 2300 2335 1500 PRESSURE TEST 4.5 START PUMPING WATER AHEAD 2337 300 5 4.5 START MIXING 360 SK CLASS A @ 11.4 PPG 2339 300 187 START MIXING 180 SK CLASS A @ 14.8 PPG 44 4.5 0017 300 0034 SHUT DOWN -- DROP PLUG START DISPLACING WITH FRESH WATER 300 0 4 0036 2 0058 500 87 SLOW RATE **BUMP PLUG** 0103 550-1050 97 0107 1050-0 RELEASE PRESSURE -- FLOAT HELD 60 CIRCULATE CEMENT TO THE PIT



# QUASAR ENERGY SERVICES, INC.

3288 FM 51

Gainesville, Texas 76240

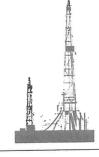
Office: 940-612-3336

Fax: 940-612-3336 | qesi@qeserve.com

#### **FRACTURING**

ACID

**CEMENT** 



3ID #:	3314			AFE#/	<b>PO#:</b> 0							
	POSE OF JO	R	Cem	ent- Produ	uction		SERVICE P	OINT	Liberal, KS			
							WELL NA	AE.	PREEDY EAST 2	-5		
USTOMER			OBR	IEN ENERG	Ϋ́		VVELL IVA	VIE				
DDRESS			18 C	ONGRESS	ST, STE 207		LOCATION	1	MEADE, KS			
CITY					STATE	ZIP	TYPE AND	PURPOSE	OF JOB	Cement- Pro	duction	
DATEO	NE CALE	12/17/	2020				COUNTY	MEA	ADE	STATE KS		
DATE O										UNIT PRICE	AMOUNT	
QTY.	CODE	YD	UNIT	PUMPI	NG AND EC	DOLANI	USED			\$3.15	\$ 78.75	
25	1000	<u> </u>	Mile	Mileage	- Pickup -	Per IVIIIe	Por Milo			\$6.00	\$ 300.00	
50	1010	L	Mile		- Equipme		Per ivine			\$2,123.10	\$ 2,123.10	
1	5500	L	Per Well	Pumpin	g Charge 6	001-0500						
				Charre							\$ 2,501.85	
Subtotal												
Junividi	T		Equipment	1						LINUT DDICE		
QTY.	CODE	YD	UNIT	MATER	RIALS					UNIT PRICE	AMOUNT	
<b>QTY.</b> 50	<b>CODE</b> 5660	YD L	UNIT Per Sack	MATER	RIALS it - Lite - A					\$15.75	<b>AMOUNT</b> \$ 787.50	
<b>QTY.</b> 50 200	<b>CODE</b> 5660 5671	YD L L	UNIT Per Sack Per Sack	MATER Cemen	RIALS at - Lite - A at - Lite - H	a) 4.4/9"				\$15.75 \$18.90	<b>AMOUNT</b> \$ 787.50 \$ 3,780.00	
QTY. 50 200	5660 5671 4040	YD L L	UNIT Per Sack Per Sack Each	Cemen Cemen Auto Fi	RIALS ht - Lite - A ht - Lite - H ill Shoe (Blu		IO <sub>11</sub>			\$15.75 \$18.90 \$378.00	*** 3780.00 \$ 378.00	
QTY. 50 200 1	5660 5671 4040 4100	YD L L L	UNIT Per Sack Per Sack Each Each	Cemen Cemen Auto Fi	RIALS ht - Lite - A ht - Lite - H ill Shoe (Blu Down Plug 8	Baffle 41	/2"			\$15.75 \$18.90 \$378.00 \$693.00	**************************************	
QTY. 50 200 1 1 10	5660 5671 4040 4100 4190	YD L L L L	UNIT Per Sack Per Sack Each Each Each	Cemen Cemen Auto Fi Latch I	RIALS at - Lite - A at - Lite - H all Shoe (Blu Down Plug 8 zers 4 1/2'	Baffle 41	/2"			\$15.75 \$18.90 \$378.00 \$693.00 \$73.08	* 787.50 \$ 3,780.00 \$ 378.00 \$ 693.00	
QTY. 50 200 1 1 1 10 1	5660 5671 4040 4100 4190 4200	YD L L L L	Per Sack Per Sack Each Each Each	Cemen Auto Fi Latch I Turboli	RIALS at - Lite - A at - Lite - H ill Shoe (Blu Down Plug 8 zers 4 1/2' at Basket 4	Baffle 4 1				\$15.75 \$18.90 \$378.00 \$693.00	**************************************	
QTY. 50 200 1 1 1 10 1	5660 5671 4040 4100 4190 4200 4220	YD L L L L L L L	Per Sack Per Sack Each Each Each Each	MATER Cemen Cemen Auto Fi Latch I Turboli Cemen Lock R	RIALS  It - Lite - A  It - Lite - H  Ill Shoe (Blu Down Plug 8  zers 4 1/2'  It Basket 4  Ling (Limit C	Baffle 4 1 1 1/2" lamp) 4 1				\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20	***	
QTY. 50 200 1 1 1 10 1 1,100	5660 5671 4040 4100 4190 4200 4220 2482	YD L L L L L L L	Per Sack Per Sack Each Each Each Each Per Lb.	MATER Cemen Cemen Auto Fi Latch I Turboli Cemen Lock R KCL - 6	RIALS  It - Lite - A  It - Lite - H  Ill Shoe (Blu Down Plug 8  zers 4 1/2'  It Basket 4  Ling (Limit C  Granular / P	Baffle 41 1/2" lamp) 41 owdered	/2"			\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20 \$44.10	*** AMOUNT	
QTY. 50 200 1 1 1 10 1 1,100 94	CODE 5660 5671 4040 4100 4190 4200 4220 2482 5710	YD  L  L  L  L  L  L  L	Per Sack Per Sack Each Each Each Each Per Lb. Per Lb.	Cemen Auto Fi Latch I Turboli Cemen Lock R KCL - 0	RIALS  at - Lite - A  at - Lite - H  ill Shoe (Blu  Down Plug 8  zers 4 1/2'  at Basket 4  ling (Limit C  Granular / P  ow Temp-N	Baffle 4 1 1 1/2" lamp) 4 1 owdered on Retardin				\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20 \$44.10 \$0.76	*** AMOUNT	
QTY. 50 200 1 1 1 10 1 1,100 94 2	CODE 5660 5671 4040 4100 4190 4200 4220 2482 5710 5751	YD  L  L  L  L  L  L  L  L	Per Sack Per Sack Each Each Each Each Per Lb. Per Gal.	Cement Auto Fit Latch I Turboli Cement Lock R KCL - C-15 L C-41L	RIALS  It - Lite - A  It - Lite - H  Ill Shoe (Blu Down Plug 8  Zers 4 1/2'  It Basket 4  Ling (Limit C  Granular / P  ow Temp-N  Defoamer L	Baffle 4 1 1 1/2" lamp) 4 1 owdered on Retardin	/2"			\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20 \$44.10 \$0.76 \$10.71	***	
QTY. 50 200 1 1 10 1 1,100 94 2 1,880	CODE 5660 5671 4040 4100 4190 4200 4220 2482 5710 5751 5850	YD  L  L  L  L  L  L  L  L  L	Per Sack Per Sack Each Each Each Each Each Per Lb. Per Gal. Per Lb.	MATER Cement Cement Auto Fi Latch E Turboli Cement Lock R KCL - G C-15 L C-41L Gypsun	RIALS  It - Lite - A  It - Lite - H  Ill Shoe (Blu Down Plug 8  zers 4 1/2'  It Basket 4  Ling (Limit C  Granular / P  ow Temp-N  Defoamer L	Baffle 4 1 1 1/2" lamp) 4 1 owdered on Retardin	/2"			\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20 \$44.10 \$0.76 \$10.71	*** T87.50   *** 787.50   *** 3,780.00   *** 378.00   *** 693.00   *** 730.80   *** 277.20   *** 44.10   *** 836.00   *** 1,006.74   *** 88.20	
QTY. 50 200 1 1 10 1 1,100 94 2 1,880 1,000	CODE 5660 5671 4040 4100 4190 4200 4220 2482 5710 5751 5850 5860	YD  L  L  L  L  L  L  L  L  L  L	Per Sack Per Sack Each Each Each Each Each Per Lb. Per Gal. Per Lb.	MATER Cement Auto Fi Latch L Turboli Cement Lock R KCL - C C-15 L C-41L Gypsul Kol-Se	RIALS  It - Lite - A  It - Lite - H  Ill Shoe (Blu Down Plug 8  zers 4 1/2'  It Basket 4  Ling (Limit C  Granular / P  ow Temp-N  Defoamer L	Baffle 4 1 1 1/2" lamp) 4 1 owdered on Retardin	/2"			\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20 \$44.10 \$0.76 \$10.71 \$44.10 \$0.95 \$0.78	## AMOUNT    \$ 787.50     \$ 3,780.00     \$ 378.00     \$ 693.00     \$ 730.80     \$ 277.20     \$ 44.10     \$ 836.00     \$ 1,006.74     \$ 88.20     \$ 1,786.00     \$ 780.00	
QTY. 50 200 1 1 10 1 1,100 94 2 1,880 1,000 50	CODE 5660 5671 4040 4100 4190 4200 4220 2482 5710 5751 5850 5860 5861	YD  L  L  L  L  L  L  L  L  L  L  L	Per Sack Per Sack Each Each Each Each Per Lb.	MATER Cement Auto Fi Latch I Turboli Cement Lock R KCL - ( C-15 L C-41L Gypsul Kol-Se Felt	RIALS  It - Lite - A  It - Lite - H  Ill Shoe (Blu Down Plug 8  zers 4 1/2'  It Basket 4  Ling (Limit C  Granular / P  ow Temp-N  Defoamer L  m  al	Baffle 4 1 1 1/2" lamp) 4 1 owdered on Retardin	/2"			\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20 \$44.10 \$0.76 \$10.71 \$44.10 \$0.95 \$0.78	## AMOUNT    \$ 787.50     \$ 3,780.00     \$ 378.00     \$ 693.00     \$ 730.80     \$ 277.20     \$ 44.10     \$ 836.00     \$ 1,006.74     \$ 88.20     \$ 1,786.00     \$ 780.00     \$ 1,300.00     \$ 1,300.00     \$ 1,300.00     \$ 787.50     \$ 780.00     \$ 1,300.00     \$ 1,300.00     \$ 780.00     \$ 1,300.00     \$ 780.00     \$ 1,300.00     \$ 1,300.00     \$ 3,780.00     \$ 1,300.00     \$ 1,300.00     \$ 3,780.00     \$ 1,300.00     \$ 1,300.00     \$ 1,300.00     \$ 3,780.00     \$ 1,300.00     \$ 1,00	
QTY. 50 200 1 1 10 1 1,100 94 2 1,880 1,000 50 420	CODE 5660 5671 4040 4100 4190 4200 4220 2482 5710 5751 5850 5860 5861 5870	YD  L  L  L  L  L  L  L  L  L  L  L  L	Per Sack Per Sack Each Each Each Each Per Lb.	MATER Cement Auto Fit Latch I Turboli Cement Lock R KCL - C C-15 L C-41L Gypsul Kol-Se Felt Mud Fit	RIALS  It - Lite - A  It - Lite - H  Ill Shoe (Blu Down Plug 8  zers 4 1/2'  It Basket 4  Ling (Limit C  Granular / P  ow Temp-N  Defoamer L  m  al	Baffle 4 1 1 1/2" lamp) 4 1 owdered on Retardin	/2"			\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20 \$44.10 \$0.76 \$10.71 \$44.10 \$0.95 \$0.78	## AMOUNT    \$ 787.50     \$ 3,780.00     \$ 378.00     \$ 693.00     \$ 730.80     \$ 277.20     \$ 44.10     \$ 836.00     \$ 1,006.74     \$ 88.20     \$ 1,786.00     \$ 780.00	
QTY. 50 200 1 1 10 1 1,100 94 2 1,880 1,000 50	CODE 5660 5671 4040 4100 4190 4200 4220 2482 5710 5751 5850 5860 5861	YD  L  L  L  L  L  L  L  L  L  L  L	Per Sack Per Sack Each Each Each Each Per Lb.	MATER Cement Auto Fi Latch I Turboli Cement Lock R KCL - ( C-15 L C-41L Gypsul Kol-Se Felt	RIALS  It - Lite - A  It - Lite - H  Ill Shoe (Blu Down Plug 8  zers 4 1/2'  It Basket 4  Ling (Limit C  Granular / P  ow Temp-N  Defoamer L  m  al	Baffle 4 1 1 1/2" lamp) 4 1 owdered on Retardin	/2"			\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20 \$44.10 \$0.76 \$10.71 \$44.10 \$0.95 \$0.78 \$26.00 \$1.26	## AMOUNT    \$ 787.50     \$ 3,780.00     \$ 378.00     \$ 693.00     \$ 730.80     \$ 277.20     \$ 44.10     \$ 836.00     \$ 1,006.74     \$ 88.20     \$ 1,786.00     \$ 780.00     \$ 1,300.00     \$ 529.20	
QTY. 50 200 1 1 10 1 1,100 94 2 1,880 1,000 50 420 1,150	CODE 5660 5671 4040 4100 4190 4200 4220 2482 5710 5751 5850 5860 5861 5870 5890	YD  L  L  L  L  L  L  L  L  L  L  L  L  L	Per Sack Per Sack Each Each Each Each Per Lb.	MATER Cement Auto Fit Latch I Turboli Cement Lock R KCL - C C-15 L C-41L Gypsul Kol-Se Felt Mud Fit	RIALS  It - Lite - A  It - Lite - H  Ill Shoe (Blu Down Plug 8  zers 4 1/2'  It Basket 4  Ling (Limit C  Granular / P  ow Temp-N  Defoamer L  m  al	Baffle 4 1 1 1/2" lamp) 4 1 owdered on Retardin	/2"			\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20 \$44.10 \$0.76 \$10.71 \$44.10 \$0.95 \$0.78 \$26.00 \$1.26	## AMOUNT    \$ 787.50     \$ 3,780.00     \$ 378.00     \$ 693.00     \$ 730.80     \$ 277.20     \$ 44.10     \$ 836.00     \$ 1,006.74     \$ 88.20     \$ 1,786.00     \$ 780.00     \$ 1,300.00     \$ 529.20	
QTY. 50 200 1 1 10 1 1,100 94 2 1,880 1,000 50 420 1,150	CODE 5660 5671 4040 4100 4190 4200 4220 2482 5710 5751 5850 5860 5861 5870	YD  L  L  L  L  L  L  L  L  L  L  L  L  L	UNIT Per Sack Per Sack Each Each Each Each Per Lb.	MATER Cement Auto Fit Latch I Turboli Cement Lock R KCL - C C-15 L C-41L Gypsul Kol-Se Felt Mud Fit	RIALS  It - Lite - A  It - Lite - H  Ill Shoe (Blu Down Plug 8  zers 4 1/2'  It Basket 4  Ling (Limit C  Granular / P  ow Temp-N  Defoamer L  m  al	Baffle 4 1 1 1/2" lamp) 4 1 owdered on Retardin	/2"		T	\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20 \$44.10 \$0.76 \$10.71 \$44.10 \$0.95 \$0.78 \$26.00 \$1.26 \$0.32	## AMOUNT    \$ 787.50     \$ 3,780.00     \$ 378.00     \$ 693.00     \$ 730.80     \$ 277.20     \$ 44.10     \$ 836.00     \$ 1,006.74     \$ 88.20     \$ 1,786.00     \$ 1,300.00     \$ 1,300.00     \$ 529.20     \$ 368.00	
QTY. 50 200 1 1 1 10 1 1,100 94 2 1,880 1,000 50 420 1,150	CODE 5660 5671 4040 4100 4190 4220 2482 5710 5751 5850 5860 5861 5870 5890	YD  L  L  L  L  L  L  L  L  L  L  L  L  L	Per Sack Per Sack Each Each Each Each Per Lb.	MATER Cement Auto Fit Latch I Turboli Cement Lock R KCL - C C-15 L C-41L Gypsul Kol-Se Felt Mud Fit	RIALS  It - Lite - A  It - Lite - H  Ill Shoe (Blu Down Plug 8  zers 4 1/2'  It Basket 4  Ling (Limit C  Granular / P  ow Temp-N  Defoamer L  m  al	Baffle 4 1 1 1/2" lamp) 4 1 owdered on Retardin iquid	/2" g Fluid Loss	40%		\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20 \$44.10 \$0.76 \$10.71 \$44.10 \$0.95 \$0.78 \$26.00 \$1.26 \$0.32	## AMOUNT    \$ 787.50     \$ 3,780.00     \$ 378.00     \$ 693.00     \$ 730.80     \$ 277.20     \$ 44.10     \$ 836.00     \$ 1,006.74     \$ 88.20     \$ 1,786.00     \$ 780.00     \$ 1,300.00     \$ 529.20     \$ 368.00      \$ 13,384.74     15,886.59	
QTY. 50 200 1 1 1 10 1 1,100 94 2 1,880 1,000 50 420 1,150  Subtotal	CODE 5660 5671 4040 4100 4190 4200 4220 2482 5710 5751 5850 5860 5861 5870 5890	YD  L  L  L  L  L  L  L  L  L  L  L  L  L	UNIT Per Sack Per Sack Each Each Each Each Per Lb.	MATER Cement Auto Fit Latch I Turboli Cement Lock R KCL - C C-15 L C-41L Gypsul Kol-Se Felt Mud Fit	RIALS  It - Lite - A  It - Lite - H  Ill Shoe (Blu Down Plug 8  zers 4 1/2'  It Basket 4  Ling (Limit C  Granular / P  ow Temp-N  Defoamer L  m  al	Baffle 4 1 1 1/2" lamp) 4 1 owdered on Retardin iquid	/2"	40% DIS		\$15.75 \$18.90 \$378.00 \$693.00 \$73.08 \$277.20 \$44.10 \$0.76 \$10.71 \$44.10 \$0.95 \$0.78 \$26.00 \$1.26 \$0.32	## AMOUNT    \$ 787.50     \$ 3,780.00     \$ 378.00     \$ 693.00     \$ 730.80     \$ 277.20     \$ 44.10     \$ 836.00     \$ 1,006.74     \$ 88.20     \$ 1,786.00     \$ 780.00     \$ 1,300.00     \$ 529.20     \$ 368.00      \$ 13,384.74	

STAMPS & NOTES:

As of 9/22/15 any invoice with a discount must paid within 60 days of the invoice date. After 60 days the discount will be removed and the invoice will reflect full price.

**CUSTOMER SIGNATURE & DATE** 

\*\*All accounts are past due net 30 days following the date of invoice. A finance charge of 1 1/2% per month or 18% annual percentage rate will be charged on all past due accounts.



**CEMENTING JOB LOG** 

#### QUASAR ENERGY SERVICES, INC.

3288 FM 51

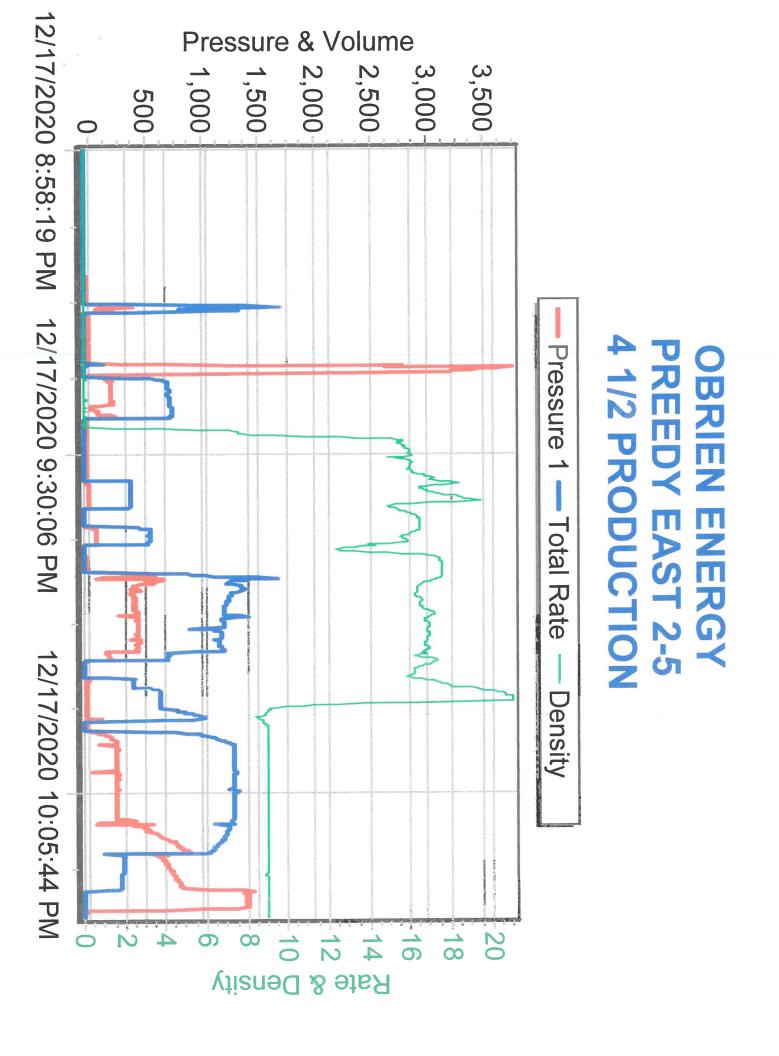
Gainesville, Texas 76240 Office: 940-612-3336

Fax: 940-612-3336 | qesi@qeserve.com

Form 185-2c

12/17/20 CEMENTING JOB LOG

#### Well Name: PREEDY EAST 2-5 **OBRIEN ENERGY** Company: Cement-Production AFE #: Type Job: **CASING DATA** Weight: 10.5 4 1/2 Grade: J-55 Size: Bottom: **Casing Depths** Top: Drill Pipe: Size: Weight: 6250 Grade: TD (ft): Tubing: Size: Weight: 6250 Open Hole: Size: 77/8 T.D. (ft): Packer Depth(ft): From (ft): To: Perforations **CEMENT DATA MUD FLUSH Spacer Type:** $ft^3/_{sk}$ 8.3 Density (PPG) Sks Yield Amt. 10BBL **Excess** CLASS A LEAD: $ft^3/_{sk}$ Density (PPG) 13.5 50 SX Sks Yield 1.46 Amt. CLASS H 10%GYP, 10%SALT, 5#GILSONITE, .25#OWB, .6%C-15 **Excess** TAIL: ft $^{3}/_{sk}$ Density (PPG) 14.8 200 SX Sks Yield 1.56 312 Amt. WATER: gals/sk: 33 Total (bbls): 42 8.5 7.16 gals/sk: Tail: Lead: 210-DP11 Pump Trucks Used: 227 660-24 **Bulk Equipment:** 8.4 98.8 Weight (PPG): Disp. Fluid Type: KCL Amt. (Bbls.) Weight (PPG): Mud Type: **CEMENTER: CHAD HINZ COMPANY REPRESENTATIVE:** DANA GREATHOUSE TIME PRESSURES PSI **FLUID PUMPED DATA REMARKS** AM/PM Casing **Tubing ANNULUS** TOTAL RATE ON LOC, SAFTEY MTG, R.U. 1830 **TEST LINES** 2121 3500 PUMP MUD FLUSH 170 2122 4 **H2O SPACER** 170 10 2125 SHUT DOWN, PLUG RAT & MOUSE 2128 START MIXING @14.8# 420 2143 SHUT DOWN, WASHUP. DROP PLUG 55.5 2154 7.3 START DISPLACEMENT 230 2159 2 SLOW RATE 88 2212 635 900-1400 99 PLUG DOWN 2218 RELEASE PSI, FLOAT HELD 2220 JOB COMPLETE THANK YOU FOR YOUR BUSINESS!!!



## O'Brien Energy Resources, Inc. Preedy East No. 2-5, Angell South Field Section 5, T33S, R29W

Meade County, Kansas December 2020

## **Well Summary**

The O'Brien Energy Resources, Preedy East No. 2-5, Angell South Field, was drilled to a total depth of 6250' in the St. Louis without any major problems. Minor lost circulation occurred at 4504'. It offset the Keystone No. 7-4 by approximately 910' to the West. The Heebner, Toronto and Lansing came in 6' to 8' high relative to his offset. The Marmaton, Cherokee and Atoka ran flat. The Morrow came in 6' low and the Morrow "C" SS ran 3' low. The Chester, Ste. Genevieve and St. Louis came in 2 low.

The Morrow "C" Sandstone(5737'-5746') consists of a sandstone in 6% of the samples: Medium to light brown, friable to hard, sucrosic, clean to argillaceous in part, fine upper to fine lower well sorted subround grains, occasionally very course poorly sorted and conglomeritic, siliceous cement, slightly calcareous, fair to good intergranular porosity, bright light yellow hydrocarbon fluorescence(all sandstone), good fast streaming cut, brown matrix oil stain, slight oil sheen when crushed, slight oil odor, with Chert: Translucent, clear, brown. No gas readings were documented because the bit plugged when circulating and prior to getting samples up necessitating a bit trip. The show was documented when back to drilling.

The St. Louis(6098'-6110') consists of a dolomitic Limestone: Speckled brown, mottled gray, firm to hard, brittle in part, finely crystalline, dolomitic, siliceous, subchalky in part, clean to argillaceous, trace intercrystalline porosity, fossiliferous with moldic and vuggy porosity, speckled oil stain and live oil in vugs, occasional brown matrix oil stain, very dull brown hydrocarbon florescence with excellent streaming cut, oil odor. A mud gas increase was noted on the hotwire.

 $4\frac{1}{2}$ " production casing was run to TD on the Preedy East No. 2-5 on 12/17/20 to evaluate the above mention hydrocarbon shows.

Respectfully Submitted,

Peter Debenham

#### WELL DATA

Operator: O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH

Prospect Geologist: David Ward, Ed Schuett, Denver

Well: Keystone No. 7-4, Angell SE Field

API: 15-119-21451

Location: 1490' FSL & 250' FEL, Section 5, T33S, R29W, Meade County, Kansas

Southeast of Plains.

Elevation: Ground Level 2624', Kelly Bushing 2636'

Contractor: Duke Drilling Rig No. 1, Type: Double jacknife, double stand, Toolpusher

Mike Godfrey, Drillers: Brothers Carlos and Saul Garcia, Alejandro A.

Vazquez

Company Man: Dana Greathouse

Spud Date: 12/9/2020, TD 12/16/2020

Total Depth: 11/25/20, Driller 6250', Logger 6251', St. Louis

Casing Program: 37 joints of 8 5/8", J-55, 24Lbs/ft, set at 1565' with lead 360 sacks Class

A and 180 sacks Class A tail, 148 joints 4 ½" production casing set to TD.

Mud Program: Winter Mud, Engineer Theran Hegwood, Chemical Gel LCM, displaced

2600'.

Wellsite Consultant: Peter Debenham, Call depth 3000', Box 350, Drake, CO 80515, 720/220-

4860.

Mudlogging Trailer: MBC Logging, Meade, KS, Austin Gardner

Samples: 30' to 5700', 20' to TD

Electric Logs: Wireline Logging solutions, OKC, OK, Engineer Hector Garcia, Array

Induction, Compensated Neutron/Density, Microlog, Hi Res

Status: 4 ½" production casing run to TD. Plug down 10:22 PM 12/17/20.

#### WELL CHRONOLOGY

11 PM		
DATE DEPTH	<b>FOOTAGE</b>	RIG ACTIVITY

12/10 860' 860' Move to location and rig up rotary tools. Mix spud mud. Drill rat hole and mouse hole. Spud in 12 1/4" surface hole to 860'. Survey(1/2 deg.).

12/11 1585' 725' Surface hole to 1585' and circulate. Wiper trip and circulate. Drop survey(1 deg.) and trip for surface casing. Run and cement 37 joints 8 5/8" J-55 STC set at 1573' – cement did circulate. Wait on cement. Nipple up.

12/12 2961' 1376' Nipple up and pressure test BOP. Drill plug and cement and 7 7/8" hole to 2961'. Survey(1 deg.). Displace mud system at 2616'.

12/13 4127' 1166' Survey(3/4 deg.). Cold and snow.

12/14 4567' 440' To 4504' with partial returns(50%). Trip to shoe and work on premix tank and mix mud and LCM and stage into hole. Drill with full returns to 4567'.

12/15 5669' 1102' Rig hands getting stuck in the snow, front end loader clearing rig road and pulling hands around. Cold and snow.

12/16 6175' 506' Circulate for samples and trip for plugged bit at 5764' – unable to circulate samples out.

12/17 6250'TD 75' To TD and circulate. Wiper trip and circulate. Trip for logs and run Elogs. Trip in and circulate. Trip out laying down and run and cement 4 ½" production casing to TD. Plug down 10:22 PM 12/17/20.

### **BIT RECORD**

<u>NO.</u>	MAKE HOURS	<b>TYPE</b>	SIZE	<u>OUT</u>	<b>FOOTAGE</b>	
1 2	PL 519 TXT 516		12 ¼" 7 7/8"	1585' 6250'	1585' 4665'	15 <sup>3</sup> / <sub>4</sub> 73 3/ <sub>4</sub>
				Total Rotatin Average:	g Hours:	89 1/2 69.8 Ft/hr

#### **DEVIATION RECORD - degree**

791' ½, 1585' 1, 2020' 1, 3024' ¾, 4001' ¾, 5764' 1½, 6250' 1

## **MUD PROPERTIES**

DATE LBS/BBL	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>pH</u>	<u>WL</u>	<u>CL</u>	LCM-
12/10	984'	9.4	32	8	9	8.5	na	1800	9
12/11	1585'	8.4	27	1	1	8	na	1500	0
12/12	3018'	8.8	45	18	22	9.5	20	7K	2
12/13	4211'	9.2	38	12	13	10.5	20	10 <b>K</b>	3
12/14	4504'	9	38	14	10	10	12	5.2K	10
12/15	5728'	9.1	49	15	10	11	6	3.2K	6
12/16	6250'	9.2	60	25	15	10.5	6.4	2.9K	8

## **ELECTRIC LOG FORMATION TOPS-** KB Elev. 2636'

			*Keystone No. 7-4	
<b>FORMATION</b>	<b>DEPTH</b>	<b>DATUM</b>	<b>DATUM</b>	<b>POSITION</b>
Casing	1565'			
Heebner	4401'	-1765'	-1772'	+7'
Toronto	4428'	-1792'	-1798'	+6'
Lansing	4548'	-1792'	-1798'	+6'
Marmaton	5180'	-2544'	-1543'	-1'
Cherokee	5356'	-2720'	-2720'	0'
Atoka	5608'	-2972'	-2972'	0'
Morrow	5668'	-3032'	-3026'	-6'
"B" SS	na			
"C" SS	5737'	-3101'	-3097'	-4'
Mississippi Chester	5784'	-3148'	-3145'	-3'
Basal Chester	5970'	-3334'	-3330'	-4'
Ste. Genevieve	6006'	-3370'	-3368'	-2'
St. Louis	6098'	-3462'	-3460'	-2'
TD	6250'			

<sup>\*</sup>O'Brien Energy Resources, Keystone No. 7-4, 1485' FSL & 660' FWL, Section 4, 33 S, 29W – app. 910' to the East., K.B. Elev. 2634'.

#### **OPERATOR**

Company: O'Brien Energy Resources, Corp.

Address: 18 Congress St., Suite 207
Portsmouth, NH 03801

President/Owner John and Joe Forma

#### **GEOLOGIST**

Name: Wellsite: Peter Debenham Company: Petrolific Consulting Services

Address: P.O. Box 350 Drake, CO 80515

720/220-4860, Petrolific@gmail.com

#### Comments

Duke Drilling Rig No. 1, Type: Double jacknife, double stand, Toolpusher Mike Godfrey, Drillers: Brothers Carlos and Saul Garcia, Alejandro A. Vazquez, Engineer Dana Greathouse, Winter Mud engineer Theran Hegwood, displaced 2616', Wireline Logging solutions, OKC, OK, Engineer Hector Garcia, Array Induction, Compensated Neutron/Density, Microlog, Hi Res. 37 joints of 8 5/8", J-55, 24Lbs/ft, set at 1565' with lead 360 sacks Class A and 180 sacks Class A tail, 4 1/2 production casing set to TD 10:22 PM 12/17/20.

ROCK TYPES						
Anhy Bent Brec AAAAA Cht	Clyst Coal Congl Dol	Gyp	Mrist Salt Shale Shcol	Shgy Sltst Ss Till		
		A00F000DUF0				
FOSSIL	Ostra	ACCESSORIES  ACCESSORIES				
Algae Amph Belm Bioclst Brach Bryozoa Cephal Coral Crin Echin Fish Foram Fossil Gastro Oolite	Ostra Pelec Pellet Pisolite Plant Strom  MINERAL Anhy Arggrn Arg Bent Bit Brecfrag Calc Carb	Chtdk Chtlt Dol Feldspar Ferrpel Ferr Glau Gyp Hvymin Kaol Marl Minxl Minxl Phos Pyr Salt	Sandy Silt Sil	TEXTURE  BS Boundst  C Chalky  CX Cryxin  B Earthy  Finexin  GS Grainst  L Lithogr  Microxin  Mudst  PS Packst  Wackest		
7.50		OTHER OVER 1				
OTHER SYMBOLS						

#### **INTERVALS** P POROSITY TYPE **Pinpoint** ROUNDING Rounde OIL SHOWS Even E V Core **Earthy** Vuggy Rounded Even 0 **Dst** Fenest r • Subrnd Spotted E SORTING Well a Fracture 0 Subang Ques × **EVENTS** Inter A Well D **Angular** Dead 1 Rft M Moldic Moderate 0 P Sidewall **Organic** Poor

# **Petrolific Consulting Services**

## Peter Debenham

P.O. Box 350 Drake, Colorado 80515

## **Wellsite Geology** 720/220-4860

petrolific@earthlink.net

Scale 1:240 (5"=100") Imperial

Well Name: Preedy East No. 2-5, Angell South Field

Location: 1490'FSL & 250'FEL, Section 5, 33S, R29W, Meade Co., KS

Licence Number: API: 15-119-21451 Region: Hougoton Spud Date: 12/9/20

Drilling Completed: 12/16/20 Surface Coordinates: 1490'FSL & 250'FEL, Section 5, 33S, R29W, Meade Co., KS

Bottom Hole 1490'FSL & 250'FEL, Section 5, 33S, R29W, Meade Co., KS

Coordinates:

Ground Elevation (ft): 2624'

K.B. Elevation (ft): 2636' Logged Interval (ft): 4000' To: TD Total Depth (ft): 6250'

Formation: Lansing, Morrow, Chester, Ste Genevieve, St. Louis

