KOLAR Document ID: 1527866

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

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

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:					
Name:	Spot Description:					
Address 1:	SecTwpS. R East West					
Address 2:	Feet from North / South Line of Section					
City:	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.xxxxxx) (e.gxxx.xxxxxx)					
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84					
Purchaser:	County:					
Designate Type of Completion:	Lease Name: Well #:					
New Well Re-Entry Workover	Field Name:					
	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)	Multiple Stage Cementing Collar Used? Yes No					
Cathodic Other (Core, Expl., etc.):						
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)					
Commingled Permit #:	Chloride content:ppm Fluid volume:bbls					
Dual Completion Permit #:	Dewatering method used:					
SWD Permit #:	Location of fluid disposal if hauled offsite:					
EOR Permit #:	Location of haid disposal in hadica offsite.					
GSW Permit #:	Operator Name:					
_	Lease Name: License #:					
Spud Date or Date Reached TD Completion Date or	QuarterSecTwpS. 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 Approved by: Date:								

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Page Two

Operator Name: _				Lease Name:			Well #:	
Sec Twp.	S. R.	E	ast West	County:				
	flowing and shu	ut-in pressures, v	vhether shut-in pre	ssure reached st	atic level, hydrosta	tic pressures, bot		val tested, time tool erature, fluid recovery,
Final Radioactivity files must be subm						iled to kcc-well-lo	gs@kcc.ks.gov	v. Digital electronic log
Drill Stem Tests Ta			Yes No			on (Top), Depth ar		Sample
Samples Sent to 0	Geological Surv	/ey	Yes No	Na	me		Тор	Datum
Cores Taken Electric Log Run Geologist Report / List All E. Logs Ru	_		Yes No Yes No Yes No					
		B	CASING eport all strings set-c		New Used	ion, etc.		
Purpose of Strir		Hole illed	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
			ADDITIONAL	CEMENTING / SO	UEEZE RECORD			
Purpose:		epth T Bottom	ype of Cement	# Sacks Used		Type and F	Percent Additives	
Perforate Protect Casi Plug Back T								
Plug Off Zor								
Did you perform a Does the volume Was the hydraulic	of the total base f	fluid of the hydrauli		_	=	No (If No, sk	ip questions 2 an ip question 3) out Page Three	,
Date of first Product Injection:	tion/Injection or R	esumed Production	Producing Meth	nod:	Gas Lift 0	Other (Explain)		
Estimated Production Per 24 Hours	on	Oil Bbls.			Water Bbls. Gas-Oil Ratio Gra			
DISPOS	SITION OF GAS:		N	METHOD OF COMP	LETION:			DN INTERVAL: Bottom
	Sold Used	I on Lease	Open Hole			mmingled mit ACO-4)	Тор	BOROTT
,	,			B.11 B1				
Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid,	Fracture, Shot, Cer (Amount and Kind	menting Squeeze I of Material Used)	Record
TUBING RECORD:	: Size:	Set	Δ+-	Packer At:				
TODING RECORD:	. 3126.	Set	n.	i donei Al.				

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	KEYSTONE 6-4
Doc ID	1527866

Tops

Name	Тор	Datum
Heebner	4447	-1766
Toronto	4478	-1797
Lansing	4594	-1913
Marmaton	5228	-2547
Cherokee	5405	-2724
Atoka	5654	-2973
Morrow	5707	-3026
Mississippi Chester	5806	-3125
Ste. Genevieve	6050	-3369
St. Louis	6142	-3461

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	KEYSTONE 6-4
Doc ID	1527866

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	MDC Blend	3%CaCl, 1/4# floseal
Production	7.875	4.5	11	6298	Class H	2%CaCl, 1/4# floseal

7406

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

				1				
Sec.	Twp. Range	County	State	On Location	Finish			
Date 5 /2-20 4	335 29W	ME40 E	KI					
	Vell No. 64	Location MEANE	inke S to Mi	Espe Co Inte B	d V			
Contractor DKE DK16	H6 1	Owner ()		-popd/	E N. Einte			
Type Job SAB Sixtage		You are her	Vell Service, Inc. reby requested to rent	cementing equipmen	it and furnish			
Hole Size /2'/4	T.D. 1584	cementer a	nd helper to assist ow	ner or contractor to d	o work as listed.			
Csg. 848 24"	Depth 1574	Charge	BREIN ENERG	5.7				
Tbg. Size	Depth	Street						
Tool	Depth	City		State				
Cement Left in Csg.	Shoe Joint 42.15	The above w	vas done to satisfaction ar	nd supervision of owner	agent or contractor.			
Meas Line	Displace 97.4	3 Cement Am	nount Ordered 375	9 moc 3166	1/2" 86			
EQUIP	MENT	150	51 Connow 21	66 31.a 421	PS			
Pumptrk & No.		Common	150 %					
Bulktrk 7 No.		Pozidix	MM 37550					
Bulktrk 15 No.		Gel. 2	32 4					
Pickup No.		Calcium	432 1					
JOB SERVICES	& REMARKS	Hulls						
Rat Hole		Salt	Salt					
Mouse Hole		Flowseal	Flowseal 262*					
Centralizers the world 6 - 3	35	Kol-Seal	Kol-Seal					
Baskets 26		Mud CLR 4	Mud CLR 48					
D/V or Port Collar		CFL-117 or	CFL-117 or CD110 CAF 38					
RN 37 +1 5 890 24	CNG SET 157.	4 Sand	Sand					
REG G. SHUE - AFU INCE	et 131- 4215	Handling .	Handling 54.3					
STATE CSG CSG ON B	otton	Mileage @	Mileage 50/26000					
Hook to csa! cize	WRIG DOOP BA	W 85/8	85/2 FLOAT EQUIPMENT					
CLEU 30 MIN	-	Guide Shoe	Guide Shoe					
	0/5 1/20	Centralizer	3 EA					
Smat Nie 1 Roma 375 9	+ moc 1254/96	Baskets) EA					
STATE MAY ROMD 150 3	a Comma 2/31/21 B	14.6% AFU Inserts	I Eq.					
SHUT DUN YELEASE	95/8TR PISA	Float Shee	TOP RUBBER PI	K) EA				
STAT DISD	3/4	Latchenown	T					
25 of circ cut to	V. +	SERVICE						
Plus on		IMI	-					
1000 + REJECKE + HEL	Ô	Pumptrk Cha						
Am Circ YMI +98		Mileage /3						
CIR OUT tO RIT		HOD MIKE		Tax				
THONK YOU PHE	ONE CALL DEALH	TO TWE		Discount				
X Signature	ng/	and a second		Total Charge				
- T					Taylor Printing, Inc.			



QUASAR ENERGY SERVICES, INC.

3288 FM 51

Gainesville, Texas 76240 Office: 940-612-3336 Fax: 940-612-3336 | qesi@qeserve.com Form 185-2c

5/18/20 CEMENTING JOB LOG

CEMENTING JOB LOG

CEMENTIN			F0.01.15	050.5	000				UPVATA	C 1		
Company:		ENERGY R		CES C	ORP		V	Vell Name:		6-4		
Type Job:	Type Job: Cement- Production AFE #: 0 CASING DATA											
C'	4.4	10		· l .			NG D				- 0	
Size:	4 1,		_	Grade:		0	_	Weight:			0	
Casing De	pths	Top:	0	-	tom:	0	-					
Drill Pipe:		Size: 0			ight:	0					16.3	
Tubing:		Size: 0			ight:	.0	-	Grade:	0	10	(ft):	0
Open Hole			7/8		(ft):	0			D 11 (C)		•	
Perforatio	ns	From (ft);	0	То:	0			Depth(ft):		0	
C	T					CEME	ENII		1011			
Space			_			c. 3.		MUD FLU	JSH	_	. (===)	
Amt.	12 BBL		<u> </u>			ft ³ / _{sk}				Der	nsity (PPG)	
LEAD:							KOL	SEAL, 1/3#	FELT		Excess	
Amt.	155	Sks Yield		1.55		ft ³ / _{sk}				Der	nsity (PPG)	14.8
TAIL:				60,	/40-2						Excess	
Amt.	50	Sks Yield		13.5		ft ³ / _{sk}				Der	nsity (PPG)	13.5
WATE	R:											
Lead:	25.3	gals/sk:	6.	.93	Tail:	9		gals/sk:	7.5	Tota	l (bbls):	147.8
Pump Truc								110 - DI	P7			
Bulk Equip												
Disp. Fluid		2% KCL			Amt.	(Bbis.)		99.5	Weight			8.33
Mud Type									Weight	(PPG):		
COMPAN	NY REPRES	ENTATIVE:			DA	NA		CE	MENTER:	KIRBY H	ARPER	
TIME	1	PRESSU	IRFS PS	31		FLUID	PLIM	PED DATA				
AM/PM	Casi		bing	_	ULUS	TOTA		RATE	- REMARKS			
2300	0001	18	8	1			_		ONLOCAT	ION SI	POT AND RIC	3 UP
0240	_						\neg				M - BREAK	
02.10									SAFETY MI			
0309									PRESSURE			
0310		250				12		3	PUMP MU		{	
0314						10	-	2			OUSE HOLES	
0336		300.				43		5				@ 14.8 PPG
0348									SHUT DOV	VN - CLE	AN LINES - D	PLUG
0353		50				0		5	START DIS	PLACING	WITH 2% K	CL
0412		300						4	DISPLACM	ENT REA	CHES CEME	NT
0418		400				89.5		2	SLOW RAT	E		
0423		600-	1000			99.5			BUMP PLU	G		
0425		1000)-0						RELEASE P	RESSUR	E FLOAT H	ELD
							_					
	l,					Į	1		9			

O'Brien Energy Resources, Inc. Keystone No. 6-4 Section 4, T33S, R29W

Meade County, Kansas May, 2020

Well Summary

The Keystone No. 6-4 was drilled to a total depth of 6298' in the St. Louis Formation without any problems. It offset the Keystone No. 5-4 by 780' to the east. The Heebner, Toronto and Lansing came in 2' and 5' high relative to this offset. The Cherokee, Atoka and Morrow ran 8' low and the Chester, 11' low. The Basal Chester and Ste. Genevieve came in 1' high and the primary objective St. Louis, 4' low.

The Saint Louis(6143'-6148') consists of a Dolomite: Dark to medium mottled brown, microcrystalline, microsucrosic, brittle to hard, clean to argillaceous in part, chert nodules, sandy, oolitic and fossiliferous with moldic porosity, intercrystalline and vuggy porosity, dark brown matrix oil stain and live oil, dull goldbrown hydrocarbon fluorescence, excellent streaming cut, slight oil odor, good show. A 110 Unit gas kick was noted. This show is fairly similar to the productive oil show documented in the Keystone No. 5-4

4 ½" production casing was run on the Keystone No. 6-4 for St. Louis oil production.

Respectfully Submitted,

Peter Debenham

WELL DATA

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

Prospect Geologist: David Ward, Ed Schuett

Well: Keystone No. 6-4, Angell SE Field

API: 15-119-21443

Location: 1320'FSL & 2100'FWL, Section 4, 33S, R29W, Meade Co. Kansas –

Southeast of Plains.

Elevation: Ground Level 2669', Kelly Bushing 2681'

Contractor: Duke Drilling Rig No. 1, T.P. Mike Godfrey, Drillers Saul and Carlos

Garcia, Rosendo DeLacruz,

Company Man: Dana Geathouse

Spud Date: 5/11/2020, 11 am

Total Depth: 5/17/20, Driller 6298', Logger 6298', St. Louis Formation

Casing Program: 37 joints of 8 5/8", J-55, 24Lbs/ft, set at 1570' with 385 sacks A-Con

blend(3%cc & 1/4 lb flake) tail with 150 sacks Pem Plus(2%cc, 1/4 bl Poly

Flake), cement did circulate. 4 1/2" production casing set to TD.'

Mud Program: Winter Mud, engineer Theran Hegwood, displaced 2614', Chemical

gel/LCM.

Wellsite Consultant: Peter Debenham, Call depth 4000', Box 350, Drake, CO 80515, 720/220-

4860.

Mudlogging trailer: MBC Logging, Meade.

Samples: 30' to 5600', 20' to TD.

Electric Logs: Wireland Logging Solutions engineer Brian Oetting, Array Induction,

Compensated Neutron/Density, Microlog, Hi Res

Status: 4 ½" production casing run to TD on 5/18/20.

WELL CHRONOLOGY

	Report E <u>DEPTH</u>	FOOTAGE	RIG ACTIVITY						
5/11			Move to and rig up rotary tools. Mix spud mud. Drill rathole and mouse hole. Spud in 12 1/4" surface hole(11 am).						
5/12	1584'	1584'	1584' and wiper trip and circulate. Run 37 joints of 8 5/8".						
5/13	2047'	463'	Wiper trip and pump sweep. Drop survey(1 deg.) and trip. Run and cement 37 joints of 8 5/8" surface casing to 1573'. Wait on cement. Nipple up and pressure test. Drill plug and cement and 7 7/8" hole to 2047'.						
5/14	3160'	1113'	Surveys(1 deg.). Displace mud system at 2614'.						
5/15	4260'	1100'							
5/16	5080'	820'	Circulate and wiper trip at 5000'.						
5/17	6125'	1045'							
5/18	6298'	173'	To 6298'TD(12:15PM) and circulate. Wiper trip and circulate. Drop survey(1 deg.) and trip out for logs. Run ELogs.						
4/19	TD		Run and cement 4 1/2" production casing to TD. Rig down.						

BIT RECORD

<u>NO.</u>	MAKE	TYPE	SIZE	<u>OUT</u>	FOOTAGE	HOURS
1 2	PL 516 TXT 516	12 ¼" 12 ¼"	1584' 6298'	1584' 4714'	14 ½ 82 3/4	
				Tot	al Rotating Hour Average:	s: 97 64.92 ft/hrs

<u>DEVIATION RECORD - degree</u>
759' ¾, 1293' ¾, 1584' 1, 2079' 1, 2551' ¾, 3056' 1, 3559' 1, 4061' 1, 4564' ¾, 5000' 1, TD 1

MUD PROPERTIES

DATE	DEPTH	$\overline{\text{WT}}$	<u>VIS</u>	<u>PV</u>	<u>YP</u>	$\underline{\mathbf{WL}}$	<u>pH</u>	<u>CL</u> <u>I</u>	<u>LCM-</u> LBS/BBL
5/12	1584'	9.3	34	8	18	100	8.5	2K	6
5/13	2090'	9	28	1	1	100	8.5	1.7K	0
5/14	3250'	9.1	40	14	16	26	10.5	13K	4
5/15	4396'	9.1	40	14	14	16	10.5	7.8K	4
5/16	5162'	9.2	50	16	15	7.6	10.5	7K	6
5/17	6190'	9.2	55	18	18	6.8	11.0	6.3K	6

ELECTRIC LOG FORMATION TOPS- KB Elev. 2681'

			*Keystone No. 5-4	
FORMATION	DEPTH	DATUM	DATUM	POSITION
Casing	1573'			
Heebner	4447'	-1766'	-1771'	+5'
Toronto	4478'	-1797'	-1799'	+5'
Lansing	4594'	-1913'	-1918'	+5'
Marmaton	5228'	-2547'		
Cherokee	5405'	-2724'	-2716'	-8'
Atoka	5654'	-2973'	-2964'	-9'
Morrow	5707'	-3026'	-3018'	-8'
"B"/"C"	NA			
Mississippi Chester	5806'	-3125'	-3121'	-11'
Basal Chester	6006'	-3325'	-3326'	-1'
Ste. Genevieve	6050'	-3369'	-3371'	+2'
St. Louis	6142'	-3461'	-3457'	-4'
TD	6298			

^{*}O'Brien Energy Resources, Keystone No. 54, 1350' FSL & 1320' FWL, Section 4, 33 S, 29W $-\,780$ ' to the W., K.B. Elev. 2646'.