CORRECTION #1

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION KOLAR Document ID: 1393846

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

Confidentiality Requested:

Yes No

WELL HI	ISTORY - [DESCRIPT	/ELL &	LEASE

OPERATOR: License #			API No.:				
Name:			Spot Description:				
Address 1:			Se	ec Twp	S. R	_ East _ West	
Address 2:				Feet from	lorth / 🗌 Sou	uth Line of Section	
City: Stat	te: Zip):+		Feet from E	East / 🗌 We	est Line of Section	
Contact Person:			Footages Calculated fro	om Nearest Outsid	e Section Corn	ner:	
Phone: ()							
CONTRACTOR: License #			GPS Location: Lat: Long:				
Name:				(e.g. xx.xxxxx) (e.gxxx.xxxxx)			
Wellsite Geologist:			Datum: NAD27	NAD83	NGS84		
Purchaser:			County:				
Designate Type of Completion:			Lease Name:		Well #	#:	
New Well Re-E	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? Yes No				
If Workover/Re-entry: Old Well Info	as follows:		If yes, show depth set:			Feet	
Operator:			If Alternate II completion	n, cement circulate	ed from:		
Well Name:			feet depth to:	w/		sx cmt.	
Original Comp. Date:	Original To	tal Depth:					
Deepening Re-perf.	Conv. to EC	DR Conv. to SWD	Drilling Fluid Manager	nent Plan			
Plug Back	Conv. to GS	SW Conv. to Producer	(Data must be collected fro	om the Reserve Pit)			
	D		Chloride content:	ppm F	luid volume:	bbls	
Commingled	Permit #:		Dewatering method use	ed:			
	Permit #:		Leastion of fluid diagona	al if have a finitar			
	Permit #		Location of huid dispose	ai îl nauleo onsile:			
	Permit #:		Operator Name:				
			Lease Name:	L	icense #:		
Spud Date or Date Reac	hed TD	Completion Date or	Quarter Sec	Twp	<u>S.</u> 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:						

			CORR Page 1		N #1	KO	LAR Docu	ıment ID: 13938
Operator Name:	Lease Name:				Well #:			
Sec Twp	S. R	East West	County:					
INSTRUCTIONS: Show open and closed, flowing and flow rates if gas to s	n important tops of g and shut-in press urface test, along	formations penetrated. D sures, whether shut-in pre- with final chart(s). Attach	etail all core ssure reache extra sheet i	s. Report ed static le f more spa	all final copie vel, hydrosta ace is needeo	es of drill stems te tic pressures, bot d.	ests giving inter tom hole temp	val tested, time tool erature, fluid recovery,
Final Radioactivity Log, files must be submitted i	Final Logs run to o n LAS version 2.0	bbtain Geophysical Data a or newer AND an image f	nd Final Elec ile (TIFF or F	ctric Logs PDF).	must be ema	iled to kcc-well-lo	gs@kcc.ks.go	v. Digital electronic log
Drill Stem Tests Taken (Attach Additional She	eets)	Yes No		Log	Formatic	on (Top), Depth ar	nd Datum	Sample
Samples Sent to Geoloc	ical Survey	Yes No		Name			Тор	Datum
Cores Taken Yes No Electric Log Run Yes No Geologist Report / Mud Logs Yes No List All E. Logs Run: Yes Yes								
		CASING Report all strings set-c	RECORD	New ace, interme	Used ediate, producti	on, etc.		
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weigh Lbs. / F	t.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
		ADDITIONAL	CEMENTING	G / SQUEE	ZE RECORD			
Purpose: Perforate Protect Casing Plug Back TD Plug Off Zone	Depth Top Bottom	Type of Cement	# Sacks U	sed		Type and F	Percent Additives	

|--|

2.	Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
3.	Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

🗌 No	(If No, skip questions 2 and 3)
No	(If No, skip question 3)

Yes

	(
No No	(If No, fill out Page Three of the ACO-1)

Date of first Braduction /Injection or Beaumod Braduction/	Producing Mothod:

Date of first Production/Injection or Resumed Production/ Injection:			Producing M	ethod:	ping	Gas Lift	Other (Explain)			
Estimated Production Oil Bbls. Per 24 Hours		lls.	Gas	Mcf	Wa	'ater	Bbls.	Gas-Oil Ratio	Gravity	
DISPOSITION OF GAS: Uvented Sold Used on Lease (If vented, Submit ACO-18.)			METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled (Submit ACO-5) (Submit ACO-4)		PRODUCTION Top	N INTERVAL: Bottom				
Shots PerPerforationPerforationFootTopBottom		on	Bridge Plug Type Set At Acid, Fracture, Sho		ot, Cementing Squeeze Record and Kind of Material Used)					
TUBING RECOR	D: Siz	ze:	Set At:		Packer At	t:				

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	KEYSTONE 3-4
Doc ID	1393846

Tops

Name	Тор	Datum
Heebner	4367	-1769
Toronto	4394	-1796
Lansing	4512	-1914
Marmaton	5148	-2550
Cherokee	5318	-2720
Atoka	5568	-2970
Morrow	5627	-3029
Mississippi Chester	5748	-3150
Basal Chester	5935	-3337
Ste. Genevieve	5966	-3368
St. Louis	6066	-3468

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	KEYSTONE 3-4
Doc ID	1393846

Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement	Number of Sacks Used	Type and Percent Additives
Surface	12.25	8.625	24	1491	A-Con blend	535	3%CaCl, 1/4# floseal
Production	7.875	4.5	11.6	6200	AA2	150	2%CaCl, 1/4# floseal

BASIC

Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PR	ESSUR	EPUMP	11N	G	Job Log	g					
Custom	18/1	Obrien Energy ce			Cement Pump P	to.: 37223	223, 19919 4Hrs. Operator TRK No.z 7			789	38
Addre	18 Co	ongress St. Su	ite 20	7	Ticke	t#: 17	18 14582 L	14582 L Bulk TRK No.: 14355, 37724 14			14354, 1957
City, State, Z	ap: Por	tsmouth NH 03	3801		Job Ty	pez	Z42	Cen	nent Surface C	asing	
Service Distri	ct: 1	718 - Liberal, K	(s.		Well Ty	pez			OIL		
Yell Name and N	lo.:	Keystone 3-4			Well Locati	on: 4,33	3,29 C a	ounty:	Meade	State:	Ks
Тур	e of Cmt	Sacks			Additive	s			Truck Loa	ded On	
A-Co	on' Blend	215	3%	Calcium	Chloride, 1/4# P	olyflake, .2% WC/	A1 14355,	, 377	24 Manuel	Front	Back
Premium	Plus Cement	150		2% Ca	alcium Chloride, 1	1/4# Polyflake	14354,	195	78 Yosimar	Front	Back
Lea	d/Tail-	Wolabt #1 Col	Cul	Et/ok	Mater D					Front	Back
Le	ad:	11 A	2	95	vvaler R	equirements	CU. F1	·	Man F	lours / Person	
T	ail:	14.8	1	34		6.33	034.25	<u>}</u>	I I Man Hours:	22	
Time	T	Volume	Pi	imos	Pre		201		a of Men of Job;	4	
(am/pm)	(BPM)	(BBLS)	т	С	Tubino	Casing		DE	scription or Opera	tion and Material	6
14:15	1								ONLOCI	TION	
14:50			_						SAFETY M	EETING	
3:00 PM						1		_	RIGI		
15:19						· ·					
15:20	5	202.2 slurry				110		PIMP 215SY I EAD @ 11.4#			
3:44 PM	5	35.7 slurry				180		PUMP 150SX TAIL @ 14.8#			
15:52								SHUTDOWN / DROP PLUG			
15:53	5.2	10				60		DISPLACE			
	5.2	20				90					
	5.2	30				110					
	5.2	40				160					_
	5.2	50				230					
	5.2	60				310					
	5.2	70				350					
10.10	5	80	\rightarrow			400					
16:13	5	82		\rightarrow		410	SL	.OW	RATE TO 2.0	BPM @ 360P	SI
40.40	2.1	90		-+		400					
10:10	2.1	92.2				410	LAND	PLL	JG / PRESSUF	RE UP TO 104	IOPSI
10.20							R	ELE	ASE BACK	FLOAT HELD)
									JOB COM,F	LETE	
			-+								
Size Hole	12 1/4"	Depth		15	20'		TYPE		Plu	g Container	
ize & Wt. Csg.	8 5/8" 24#	Depth	149	5'	New / Used		Packer		D	epth	
anding Press.	303.3psi	Depth					Retainer		D	epth	
Shoe Jt.	42.29'	Туре					Perfs		C	BP	
(-	20	11	la	1	Basic Repres	entative:		Da	aniel Beck	
ustomer Sig	nature: X	Janat	the	Le	ha	Basic Signatu	ire:	0	Janiel	Bark	2
	/	C	-	T		Date of Servic	ce:	11	/9/2017		



Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Joh I

Job Log

										1
Custome	177	Obrien Energy Cemant Pur		Cement Pump No	o.: 37223, 1	37223, 19919 6Hrs.		789	38	
Addres	a: 18 Co	18 Congress St. Suite 207			Ticket	#: 1718 [·]	14587 L	Bulk TRK No.	30464-37725 Yoshimar	30464-37725
City, State, Zi	P: Port	smouth NH 03	3801		Job Typ	e:	Z42 Cement Production Casing			
Service Distric	nu 1)	718 Liberal, K	S.		Weli Typ	8:		OIL		
Well Name and No	5.3	Keystone 3-4			Well Locatio	n: 4,33,2	9 Count	Meade	State	Ks
Туре	of Cmt	Sacks			Additives			Truck Lo	aded On	States 1
AA2	Cement	165	5% V	V-60, 10	0% Sait, .6% C-15 Gilsonite	, 1/4# Defoamer, 5#	30464-37	725 Yoshimar	Front	Back
60/4	0 POZ	50		Neat	To Plug Rat And M	Nouse Holes	3046	4-37725	Front	Back
									Front	Back
Lead	/Tail:	Weight #1 Gai.	Cu/	Ft/sk	Water Re	quirements	CU. FT.	Man	Hours / Person	nnel
Le	ad:						165	TT Man Hours:	18	3
T	ail:	14.8	1.	51	6	.65	75.5	# of Men on Job:	3	
Time		Volume	PL	imps	Pres	ssure(PSI)		Description of Oper	ration and Materia	ls
(am/pm)	(BPM)	(BBLS)	Т	С	Tubing	Casing				
21:45								ON LOC	ATION	
22:00								SAFETY N	MEETING	
10:15 PM								RIG	UP	
10:20 PM								RIG UP TO PL	JMP TRUCK	
10:46 PM							P	RESSURE TES	ST TO 2200PS	51
22:49	4.7	11.9				240		PUMP MUI	D FLUSH	
23:00							PUMP RAT AND MOUSE			
11:10 PM	6.5	44.3				400	PUMP TAIL 165SX @ 14.8#			
23:22							SHUT DOWN / DROP PLUG			
23:24							WASH TO PIT			
23:27	7	10				160		DISPLAC	EMENT	
	7	20				160				
	7	30				170				
	7	40				160				
	7	50				160				
	7	60				160				
	6.9	70				470				
	6.9	80				750				
21:41	6.9	85				870	SLO	OW RATE TO 2	BPM @620P	SI
	2	90				740				
21:47	1.9	95.6				870	LANDED	PLUG PRESS	URE UP TO 1	500PSI
21:49							RELEASE BACK PLUG HELD		D	
							JOB COMPLETE			
Size Hole	7 7/8"	Depth	<u> </u>				TYPE	PI	ug Container	
Size & Wt. Csg.	4 1/2" 11.6#	Depth	620	3.2'	New / Used		Packer		Depth	
Landing Press.	592.7psi	Depth					Retainer		Depth	
Shoe Jt.	35.16'	Туре					Perfs		CIBP	
~	~			4	/	Basic Represe	ntative:	// And	gel Echevaria	
Customer Sig	nature: A	X	~	1		Basic Signature	e:	And	t ft	Z
			-1	1		Date of Service		11-17-17		
						Date of Obivice	··	1 . 1 . 1 . 1 . 1		

O'Brien Energy Resources, Inc. Keystone No. 3-4 Section 4, T33S, R29W Meade County, Kansas November, 2017

Well Summary

The Keystone No. 3-4 was drilled to a total depth of 6250' in the St. Louis Formation. Formation tops ran high relative to the Keystone No. 2-3, 120' to the North. Tops from the Heebner to the Morrow ran 5' to 7' high relative to this offset. The Morrow A, B and C Sandstone intervals came ran 3', 2', and 4' high respectively. Mississippian formations ran 5' to 7' high.

The Morrow A Sandstone(5650'-5666') consists of a Sandstone in 10% of the samples: Salt and pepper, speckled green, friable, fine well sorted subground grains, siliceous cement, slightly calcareous, clean, glauconitic, good to excellent intergranular porosity, no fluorescence, no stain or cut. A 520 Unit gas kick was noted.

A very similar B Sandstone occurred from 5676' to 5681 and contained a 550 Unit gas increase on the hotwire. It's not unusual for excellent Morrow reservoir gas sands to be flushed when drilled and not exhibit hydrocarbon shows. Excellent gas effect is noted on logs.

An excellent oil show did occur from the Morrow C Sandstone(5704'-5712'): Sandstone(12% sample): Medium to light brown, Hard to friable, fine upper to fine lower well sorted subround grains, siliceous cement, clean to argillaceous in part, good to trace intergranular porosity, bright light yellowblue hydrocarbon fluorescence(all sandstone), excellent streaming cut, light brown matrix oil stain with very light brown live oil and odor when crushed, excellent show. A 560 Unit gas increases was noted.

A similar show but slightly less pronounced relative to the Keystone No. 2-4 was documented in the St. Louis(6066'-6078'): Limestone Medium to dark brown with oil stain, microcrystalline, microsucrosic to sucrosic, brittle, clean, dolomitic, chert nodules, very fossiliferous with moldic and vuggy porosity, occasionally good intercrystalline porosity, dark mottled brown matrix oil stain and live oil and odor, good show, with very dull goldbrown hydrocarbon fluorescence(10% sample), excellent fast streaming cut. A 200 Unit gas kick was documented.

 $4\frac{1}{2}$ " production casing was run to TD on the Keystone No. 3-4 to further evaluate the above mentioned intervals.

Respectfully Submitted,

Peter Debenham

WELL DATA

Operator:	O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH Geologist: Paul Wiemann – Denver, CO
Prospect Geologist:	David Ward, Ed Schuett, Denver
Well:	Keystone No. 3-4
API:	15-119-21413
Location:	380'FSL & 729'FWL, Section 4, 33S, R29W, Meade Co. Kansas – Southeast of Plains.
Elevation:	Ground Level 2585', Kelly Bushing 2598'
Contractor:	Duke Drilling Rig No. 7, T.P. Galen Roach, Drillers Todd Elsen, Scott Edwards, Steven Green
Company Man:	Dana Greathouse
Spud Date:	11/6/17
Total Depth:	11/16/17, Driller 6250', Logger 6245', St. Louis Formation
Casing Program:	35 joints of 8 5/8", J-55, 24Lbs/ft, set at 1495' with 385 sacks A-Con blend(3%cc & ¼ lb flake) tail with 150 sacks Pem Plus(2%cc, ¼ bl Poly Flake), cement did circulate, services by Basic. , 4 1/2" production casing set to TD.'
Mud Program:	Service Mud/Mudco, engineer Justin Whiting, displaced 2610', Chemical gel/LCM.
Wellsite Consultant:	Peter Debenham with mudlogging trailer, Call depth 4000', Box 350, Drake, CO 80515, 720/220-4860.
Samples:	30' to 5700', 20' to TD. Zones of interest saved.
Electric Logs:	Weatherford, engineer Nicholas Rupert, Array Induction, Compensated Neutron/Density, Microlog, Hi Res.
Status:	4 $\frac{1}{2}$ " production casing run to TD on 11/16/17.

	AM Domont		WELL CHRONOLOGY
DATE	AM Report	FOOTAGE	<u>RIG ACTIVITY</u>
11/6 hole(12	1:45 PM).		Move to and rig up rotary tools. Spud in 12 ¹ / ₄ " surface
11/7	400'	400'	Clean pits. Tip for plugged bit.
11/8 Survey	855' v(1 deg.).	455'	Trip for plugged bit and clean pits and mud motor.
11/9	1480'	1080'	Service light plant. Survey(1 deg.) and bit trip.
11/10 J-55, 2 Pem Pl 11/09.	1520' 4Lbs/ft, set at 1 lus(2%cc, ¼ bl	40' 1495' with 385 Poly Flake), ce	To 1520' and circulate. Run and cement 35 joints of 8 5/8", sacks A-Con blend(3%cc & ¼ lb flake) tail with 150 sacks ement did circulate, services by Basic. Plug down 4:15 PM,
11/11	2550'	1030'	Bit trip and surveys(1 deg.).
11/12 Service	3470' e rig and surve	920' y(1 deg.). Work	Displace mud system at 2610'. Trip for plugged bit.
1113	4605'	1135'	Survey(1 deg.).
11/14	5280'	675'	Service rig and survey(1 deg.). To 5014' and wiper trip.
11/15	6110'	830'	Service and survey.
11/16	6250'TD	140'	To TD and circulate. Wiper trip 32 stands and circulate.

Drop survey(1/2 deg.) and trip out for logs and run ELogs. Trip in and circulate. Trip out laying down and run and cement $4 \frac{1}{2}$ " production casing to TD.Rig down.

BIT RECORD

<u>NO.</u>	MAKE	TYPE	<u>SIZE</u>	<u>OUT</u>	FOOTAGE	HOURS
1	HP-IP00	J-2	12 1/4"	1440'	1440'	26 ¼
2		J-2	12 ¼"	1520'	80'	4 1/2
3	HTC	HC 29	7 7/8"	1589'	69'	1 1/2
4	HTC		7 7/8"	6250'	4661'	83 1/2
				Total Rota Av	ting Hours: rerage:	115 ¾ 54 Ft/hr

DEVIATION RECORD - degree

300' 1, 600' 1, 1000' 1, 1500' 1, 2000' ½, 2500' ¾, 3000' 1, 3300' 1, 3600' 2, 3800' 1½, 4100' 1, 4400' 1, 4700' 1, 5000' 1½, 5400' MR, 5400' MR, 5520' 1, 5700' 1, TD ½

MUD PROPERTIES

<u>DATE</u> LBS/BBL	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>рН</u>	<u>WL</u>	<u>CL</u>	<u>LCM-</u>
11/7	431'	8.9	34	4	4	7.5	nc	2.5K	6
11/8	956'	9.4	34	4	4	7.5	nc	400	10
11/10	1576'	8.6	28	1	2	7.0	nc	26.5K	0
11/11	2657'	8.6	68	13	16	7.0	nc	1.1K	1
11/12	3842'	9.2	64	18	21	10.0	9.2	4.4K	2
11/13	4791'	9.3	48	14	16	10.5	9.2	3.8K	3
11/14	5304'	9.3	52	17	18	10.5	8.8	2.1K	2
11/15	6139'	9.4	53	19	18	9.5	8.4	3.8K	3

ELECTRIC LOG FORMATION TOPS- KB Elev. 2598'

			*Keystone No	b. 2-4
FORMATION	DEPTH	DATUM	DATUM	POSITION
Casing	1491'			
Heebner	4367'	-1769'	-1777'	+8'
Toronto	4394'	-1796'	-1777'	+5'
Lansing	4512'	-1914'	-1919'	+5'
Marmaton	5148'	-2550'	-2557'	+7'
Cherokee	5318'	-2720'	-2725'	+5'
Atoka	5568'	-2970'	-2977'	+7'
Morrow	5627'	-3029'	-3036'	+7'
"A" SS	5650'	-3052'	-3055'	+3'
"B" SS	5676'	-3078'	-3080'	+2'
"C" SS	5704'	-3106'	-3110'	+4'
Mississippi Chester	5748'	-3150'	-3155'	+5'
Basal Chester	5935'	-3337'	-3343'	+6'
Ste. Genevieve	5966'	-3368'	-3374'	+6'
St. Louis	6066'	-3468'	-3475'	+7'
TD	6250'	-3652'		

*O'Brien Energy Resources, Keystone No. 2-4, 500' FSL & 716' FWL, Section 4, 33 S, 29W – 120' to the North., K.B. Elev. 2597'.

Summary of Changes

Lease Name and Number: KEYSTONE 3-4 API/Permit #: 15-119-21413-00-00 Doc ID: 1393846 Correction Number: 1 Approved By: Karen Ritter

Field Name	Previous Value	New Value
Denied Date	02/26/2018	
Spud Or Recompletion Date	1/06/2017	11/06/2017

Summary of Attachments

Lease Name and Number: KEYSTONE 3-4 API: 15-119-21413-00-00 Doc ID: 1393846 Correction Number: 1 Attachment Name