KOLAR Document ID: 1315700

Confiden	tiality Requeste	ed:
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	- DESCRIP	WFII &	I FASE
	Instont		$\mathbf{W} \mathbf{L} \mathbf{L} \mathbf{L} \boldsymbol{\alpha}$	LLASL

OPERATOR: License #		API No.:		
Name:		Spot Description:		
Address 1:				
Address 2:		Feet from North / South Line of Section		
City: State: Z	ip:+	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 Be-Entry	Workover	Field Name:		
		Producing Formation:		
		Elevation: Ground: Kelly Bushing:		
		Total Vertical Depth: Plug Back Total Depth:		
		Amount of Surface Pipe Set and Cemented at:		
Cothodia Cothor (Cours Surd and It				
		If yoo, show donth act:		
If workover/Re-entry: Old well into as follows:		If Alternate II completion coment size/lated from:		
Operator:		If Alternate II completion, cement circulated from:		
Well Name:		teet depth to: w/ sx cmt.		
Original Comp. Date: Original T	otal Depth:			
Deepening Re-perf. Conv. to E	COR Conv. to SWD	Drilling Fluid Management Plan		
Plug Back Liner Conv. to C	SW 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 #:				
GSW Permit #:		Operator Name:		
		Lease Name: License #:		
Spud Date or Date Reached TD	Completion Date or	Quarter Sec Twp S. 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: 1315700

Operator Name:	Lease Name: V	Nell #:
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	nical Survey		és 🗌 No	Ν	lame	e		Тор	Datum
Cores Taken Electric Log Run Geologist Report / Mud List All E. Logs Run:	Logs		ies No ies No ies No						
		Repo	CASING I	RECORD] Ne	w Used rmediate, productio	on, etc.		
Purpose of String	Size Hole Drilled	Siz Se	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: Depth Top Bottom		Туре	Type of Cement # Sacks I		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 	ulic fracturing treatme total base fluid of the h ring treatment informa	nt on this w hydraulic fra tion submit	vell? acturing treatment tted to the chemica	exceed 350,000 al disclosure regis	gallo stry?	Yes ns? Yes Yes	 □ No (If No, s □ No (If No, s □ No (If No, f 	kip questions 2 ar kip question 3) ill out Page Three	nd 3) of the ACO-1)
Injection:			Flowing	Pumping		Gas Lift 🗌 O	ther <i>(Explain)</i>		
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wate	er Bb	ls.	Gas-Oil Ratio	Gravity
DISPOSITION	OF GAS:		M	ETHOD OF COM	IPLE	TION:		PRODUCTIO	ON INTERVAL:
Vented Sold (If vented, Subm	Vented Sold Used on Lease Open Hole Perf. [Perf. D	ually <i>ıbmit</i>	Comp. Com ACO-5) (Subn	mingled	тор	Bottom	
Shots Per Perf Foot	Shots Per Perforation Perforation Bridge Plug Bridge Plug Foot Top Bottom Type Set At		Bridge Plug Set At		Acid,	Fracture, Shot, C (Amount and Ki	ementing Squeeze	Record	
	Size:	Set At:		Packer At:					

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	SHINOGLE #2-20
Doc ID	1315700

Tops

Name	Тор	Datum
Heebner	4438	-1776
Toronto	4474	-1812
Lansing	4608	-1946
Marmaton	5274	-2612
Cherokee	5429	-2767
Atoka	5715	-3053
Morrow	5770	-3108
Mississippi Chester	5914	-3252
Basal Chester	6103	-3441
Ste Genevieve	6151	-3489
St. Louis	6252	-3590

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	SHINOGLE #2-20
Doc ID	1315700

Perforations

Shots Per Foot	Perforation Record	Material Record	Depth
2	6080-6082 CIBP @ 6050		
2	5898-5922 CIBP @ 5882	Acidize w/ 2500 gal 15% HCL	perfs
2	5822-5832	Acidize w/ 2000 gal NEFE 7.5% HCL	perfs
2	5800-5810	Frac w/ 30,000# 20/40 sand & 846 gelled wtr	perfs

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	SHINOGLE #2-20
Doc ID	1315700

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	1490	A-Conn	475	3%CaCl &1/4# floseal
Production	7.875	5.5	10.5	6376	AA2	170	1/4# defoamer



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

PRESSURE PUMPING Job

Job	Log
-----	-----

Customer:	C	brien Energy			Cement Pump No.:	38117, 19	919 8Hrs.	Operator TRX No.1	789	38	
Address					Ticket #:	1718 1	3208 L	Balk TRK No.t	14354, 19578 Santiago		
City, State, Zip:			Jab Type:				Z42 Cement Production Casing				
Service District:	17	18 Liberal, Ks	5.		Weil Type:		OIL				
Well Name and No.:	Sł	INOGLE 2-2	0		Well Location:	20	County:	33	State:	29	
Туре о	of Cmt	Sacks			Additives	<u> </u>		Truck Loa	ided On		
Premium /	Common	50			NEAT		14354, 195	78 Santiago	'8 Santiago Front		
A4	2	170		5% W	-60, 10% SALY, .6%	6 C-15, 1/4#			French	Deals	
	~~	170		DI	EFOAMER, 5# GILS	SONITE	Front		Back		
Lond	Toil	March Mt. Cal	Cul	-t/ak	Mater Dec				Front	Back	
Leau	- 1 811; ad:	vveight #1 Gal.	1	18	vvater Ret		CU. FT.	Man Haves	Hours / Person	inel	
Ta	il:	14.8	1.	52	5.	64	258 A	Man nours.	0.0		
Time		Volume	P	mos	Press	aure/PSI\	200.4	escription of Oper	ation and Material	•	
(am/pm)	(BPM)	(BBLS)	т	C C	Tubina	Casing		escription of Oper		5	
9:15						CCC. g		CALLED OU	T FOR JOB		
13:45								ONLO	DC.		
2:00 PM								SAFETY N	EETING		
12:00 AM						•		RIG	UP		
3:15 PM							WAIT ON RIG				
18:30							CIRCULATE				
							RIG TO P.T.				
7:19 PM							PRESSURE TEST TO 2500PSI				
19:21							PUMP 500GAL, MUD FLUSH				
19:30							CEMENT RAT AND MOUSE				
19:51	3.5	45.7 siurry				90	PUMP 170SX AA2 @ 14.8#				
20:06							SHUTDOWN / W.P. / DROP PLUG			JG	
20:15	6	30				100		DISPL	ACE		
	6	40				100					
	6.1	50				110		*			
	6.1	60				100					
	6.1	70		ļ		100					
00.00	. 6	80				380	<u> </u>	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~			
20:33	2	90				570		SLOW I	RATE		
20:39		100.7				610	LAND PI	LUG PRESSU	KE UP I TO 1	DUDPSI	
20.41							I	RELEASE FLU	AI HELD		
								JOB CON			
Size Hole	7 7/8"	Deoth		L			TYPE	PLU		R	
Size & Wt. Csg.	4 1/2" 10.5#	Depth	63	76'	New / Used		Packer		Depth		
tbg.		Depth		-			Retainer		Depth		
Top Plugs		Туре					Perfs		CIBP		
						Basic Represe	ntative:		Daniel Beck		
Customer Sig	nature: Y					Basic Signatur	e:	Daniel	Book		
	1					Date of Service	e:	5/15/2016			



			1	PAGE	CU	ST NO)	YARD	#	INVOICE DATE
here the state				1 of 1	10	02969	9	1718		05/17/2016
						IN	IOVI	CE NU	MBI	R
	1.1- 11-1-4					5	9212	24218	3	
Pratt ^B O'BRIEN ENEH ^I 18 CONGRESS ^L PORTSMOUTH NH US 03 T o ATTN:	(620) RGY RESOURCES ST SUITE 2 3801 Kimberle	672-1201 07 Proctor	J O B I T E	LEASE 1 LOCATIC COUNTY STATE JOB DES JOB COM	NAME ON SCRIPI NTACT	rion -	Shi: Mea KS Cem	nogle de ent-New	2- v We	20 ll Casing/Pi
ЈОВ #	EQUIPMENT #	PUR	CHASE	ORDER 1	10.			TERMS		DUE DATE
40935700	19570						Net	- 30 da	ays	06/16/2016
	L	1		QTY	τ	Uof	UNI	T PRIC	E	INVOICE AMOUNT
For Service Dates. 0040935700 171813655L Cemer Cement Surface Cas A-Con' Blend Premium Plus Cemer Calcium Chloride Celloflake C-51 "Guide Shoe - Regula "Flapper Type Insert Antelope Strd Bow C "Cmt Basket, Canvas "Top Rubber Cmt Plu "Unit Mileage Chg (P Heavy Equipment Mil "Proppant & Bulk De Blending & Mixing Se Plug Container Util. C Depth Charge; 1001 "Service Supervisor,	r 05/10/2016 to ht-New Well Casing/f ing ht Float Valve, 8 5/8" Pent. 8 5/8 X 12 1/4 s 8 5/8" U, cars one way)" leage Chgs., per ton mil prvice Charge Chg. -2000' first 8 hrs on loc.	<i>05/10/2016</i> P1 05/10/2016	Pa	5/31/6 7/12-1 32 15 1,20 11 6 3 9 67 47	25.00 E 0.00 E 0.00 E 0.00 E 1.00 E	A A A A A A A A A A A A A				
אים זמ	TO .	כדאה הייטדיס ה	סיינימטי							
BASIC ENERGY PO BOX 841903 DALLAS, TX 752	SERVICES,LP 84-1903	BASIC ENERGY 801 CHERRY S FORT WORTH,	SERV ST, ST TX 76	ICES,LP E 2100 102	<u> </u>	INVO	SUB	TOTAL TAX FOTAL		

O'Brien Energy Resources, Inc. Shinogle No. 2-20, Singley Field Section 20, T33S, R29W Meade County, Kansas

May, 2016

Well Summary

The O'Brien Energy Resources, Corporation, Shinogle No. 2-20 was drilled to a total depth of 6400' in the Mississippi St. Louis Formation. The only drilling problem that occurred was stuck drill pipe at 5026' (pipe stuck at 3670') during a wiper trip and necessitated pumping Nitrogen to free up.

The Shinogle No. 2-20 was drilled approximately 1320' to the Southwest of the Shinogle No. 1-20. Formation tops ran relatively high relative to this offset. The Cherokee, Atoka and Morrow ran 4' high. The Morrow "A" SS and "B" SS came in 9' and 13' high. The Basal Chester and St. Louis ran 7' high.

An excellent hydrocarbon show occurred in the Morrow "B" Sandstone(5822'-5832') and consists of a sandstone in 25% of the samples: Light to medium brown, salt and pepper, speckled green, friable, fine upper to fine lower well sorted subround grains, siliceous cement, calcareous, clean, glauconitic, excellent intergranular porosity, vuggy porosity, bright light yellow hydrocarbon fluorescence in most the sand, excellent fast streaming cut, occasional medium brown matrix oil stain and traces of live oil, slight oil odor, excellent show. A 280 Unit gas kick was documented.

A Morrow "A" Sandstone was documented from 5800' to 5810' and consists of a Sandstone: Speckled green, medium to dark mottled gray to brown, dark green, hard to friable, very fine well sorted subround grains, siliceous cement, calcareous, very glauconitic, poor visible to occasional good intergranular porosity, very light mottled pale blue hydrocarbon fluorescence, faint streaming cut, trace mottled oil stain. No formation gas was recorded on the hotwire.

A 360 Unit gas kick was recorded from a Lower Morrow transitional zone from 5896' to 5910' and consisting of finely interbedded Sandstones and Shale. The Sandstones noted contained a light speckled bluegreen hydrocarbon fluorescence in 2% of the samples with a slow weak bleeding cut and traces of mottled oil staining.

Additional tight Limestone shows were noted in the Upper Chester and Basal Chester.

 $4\frac{1}{2}$ " production casing was run on the Shinogle No. 5/15/16.

Respectfully Submitted,

Peter Debenham

WELL DATA

Operator:	O'Brien Energy Resources, Inc., John Forma – Portsmouth, NH Geologist: Paul Wiemann – Denver, CO
Prospect Geologist:	Ed Schuett, David Ward, Denver,
Well:	Shinogle No. 2-20, Singley Field
API No.:	15-119-21395
Field:	Singley
Location:	1320' FSL & 1650' FWL, Section 20, T33S, R29W, Meade County, Kansas – 15 miles SE of Meade.
Elevation:	Ground Level 2649', Kelly Bushing 2662'
Contractor:	Duke Drilling Rig No. 9, T.P. Emidgio Rojas., Drillers Victor Martinez, Alejandro V., Ferando Jurado
Company Man:	Roger Pearson – Liberal, Kansas
Spud Date:	5/9/16
Total Depth:	5/14/2016, Driller 6400', Logger 6405', Mississippi St. Louis
Casing Program:	35 joints of new 8 5/8", J55, 24Lbs/ft, set at 1489' with 325 sacks Acomm(3%cc, 1/5 floseal), tail 150 sacks Class C(2%cc & ¼ lb floseal) – serices by Basic Energy. 4 ½" production casing to TD.
Mud Program:	Service Mud/Mud Co., engineer Justin Whiting, displaced 2600'.
Wellsite Consultant:	Peter Debenham with mudlogging trailer, Call depth 4400', Box 350, Drake, CO 80515, 720/220-4860.
Samples:	30' to TD. Zones of interest saved.
Electric Logs:	Weatherford, engineer Adam Sill, 1) Array Induction, 2) Neutron/Density, 3) Microlog, high resolution.
Status:	$4\frac{1}{2}$ " production casing run 5/15/16.

WELL CHRONOLOGY

6 AM DATE DEPTH FOOTAGE RIG ACTIVITY

5/9/16 Move to location and rig up rotary tools. Pump water and mix spud mud. Drill rath hole and mouse hole. Spud in $12 \frac{1}{4}$ " to 150'.

5/10 1587' 1437' Survey(3/4 deg.). To 1500' and circulate. Trip out and run 35 joints of new 8 5/8", J55, 24Lbs/ft, set at 1489' with 325 sacks Acomm(3%cc, 1/5 floseal), tail 150 sacks Class C(2%cc & ¼ lb floseal) – services by Basic Energy. Plug down 1 pm – did circulate to surface. Breat down landing joint and nipple up BOP. Trip in and pressure test BOP to 600 PSI in 15 minutes. Drill plug and cement and 7 7/8" hole to 1587' and circulate. Trip for Bit No. 3.

5/113380'1793'Bit trip. Displace mud system at 2600'. Survey(1 deg.).5/1250261646'Survey(1 ¼ deg.). To 5026' and circulate and short trip.5/135370'344'Wiper trip – stuck pipe at 3670'. Wait on Nitrogen and rig up
same. Pump nitrogen and work stuck pipe. Free up and trip out. Trip in and ream 3000' to 4000' and
circulate on bottom.

5/14 6400'TD 1030' Survey(1 $\frac{1}{2}$ deg.). To 6400'TD and circulate. Wiper trip and circulate and trip out for logs and run Elogs.

5/15 TD Run logs. Trip to bottom and circulate. Trip out laying down and run and cement 4 ¹/₂" production casing to TD. Rig down.

BIT RECORD

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>OUT</u>	FOOTAGE	HOURS
1 2 3	PLT 619 A28Q PLT 616	RR	12 ¼" 7 7/8" 7 7/8"	1500' 1587' 6400'	1500' 87' 4813'	6 1/4 3/4 50 ¹ ⁄2
				Total Rotating Avera	g Hours: ge:	57 1/2 113.3 Ft/hr

DEVIATION RECORD – degree

767' ³/₄, 1500' 1 ¹/₂, 2594' 1, 3574' 1, 4489' 1 ¹/₄, 5656' 1 ¹/₂, TD ¹/₄

MUD PROPERTIES

DATE	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>PV</u>	<u>YP</u>	<u>рН</u>	<u>WL</u>	<u>CL</u>	LCM-LBS/BBL
5/9	0'	Make	up wate	r					
5/10	1500'	10.2	38	8	8	8.0	n/c	14.8K	12
5/11	2380'	9.5	29	2	2	7.0	N/C	78k	0
5/12	4143'	9.0	45	13	15	12.0	8.4	4.35k	1/2
5/13	5026'	9.0	52	16	18	10.5	8.4	5.7k	2
5/13	5026'	9.0	46	13	14	10.5	8.0	6.3k	2
5/14	6153'	9.2	50	1717	10.0	10.0	8.0	4.6k	4
5/15	6400'TD	9.25	52	16	17	10.5	8.0	3.6k	4

ELECTRIC LOG FORMATION TOPS- KB Elev. 2662'

			*Shinogle No.	<u>. 1-20</u>
FORMATION	DEPTH	DATUM	DATUM	POSITION
Heebner	4438'	-1776'	-1769'	+6'
Toronto	4474'	-1812'	-1807'	-5'
Lansing	4608'	-1946'	-1945'	-1'
Marmaton	5274'	-2612'	-2609'	-3'
Cherokee	5429'	-2767'	-2769'	+2'
Atoka	5715'	-3053'	-3057'	+4'
Morrow	5770'	-3108'	-3111'	+3'
Morrow "A" SS	5798'	-3136'	-3145'	+9'
Morrow "B" SS	5822'	-3160'	-3173'	+13'
Mississippi Chester	5914'	-3252'	-3250	+3'
Basal Chester	6103'	-3441'	-3447'	+6'
Ste Genevieve	6151'	-3489'	-3497'	+16'
St. Louis	6252'	-3590'	-3597'	+7'
TD	6400'	-3738'		

*O'Brien Energy Corp., Shinogle No. 2-20, 660'FSL & 2310'FWL, Sec. 20 – approximately 1320' to the NE., K.B. Elev. 2675'.

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: Location:	O'Brien Energy, Shinogle No. 2-20, Singley Field 1320'FSL & 1650'FWL, Section 20, 33S, R29W, Meade Co., KS								
Licence Number:	API: 15-119-21294 Region: Hougoton								
Spud Date:	5/9/16 Drilling Completed: 5/14/16								
Surface Coordinates:	1320'FSL & 1650'FWL, Section 20, 33S, R29W, Meade Co., KS	1320'FSL & 1650'FWL, Section 20, 33S, R29W, Meade Co., KS							
Bottom Hole Coordinates:	1320'FSL & 1650'FWL, Section 20, 33S, R29W, Meade Co., KS								
Ground Elevation (ft):	2649' K.B. Elevation (ft): 2662'								
Logged Interval (ft):	4200' To: TD Total Depth (ft): 6400'								
Formation:	Lansing, Morrow, Chester, St. Louis								
Type of Drilling Fluid:	Chemical Gel/LSND/LCM, mud up 2600'								
••••••	Printed by MID LOG from WellSight Systems 1-800-447-1534 www.WellSight.com								

OPERATOR

Company: O'Brien Energy Resources, Corp. Address: 18 Congress St., Suite 207 Portsmouth, NH 03801 President/Owner John Forma, Geologist Paul Wiemann

GEOLOGIST

Name: Wellsite: Peter Debenham Company: Petrolific Consulting Services Address: P.O. Box 350 Drake, CO 80515 720/220-4860, Petrolific@gmail.com

Comments

Engineer Roger Pearson, Duke Drilling Rig No. 9, T.P. Emidgio Rojas., Drillers Victor Martinez, Alejandro V., Ferando Jurado, Sevice Mud Justin Whiting, Weatherford engineer, 8 5/8" set to 1489', 4 1/2" production casing set to TD on 5/15/16.























