KOLAR Document ID: 1455700

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:			est
Address 2:		Feet from North / South Line of Sect	tion
City: State:	++	Feet from East / West Line of Sect	tion
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-Entr	y Workover	Field Name:	
] SWD	Producing Formation:	
Gas DH] SWB] EOR	Elevation: Ground: Kelly Bushing:	
	GSW	Total Vertical Depth: Plug Back Total Depth:	
CM (Coal Bed Methane)	_	Amount of Surface Pipe Set and Cemented at: F	eet
	ol., etc.):	Multiple Stage Cementing Collar Used? Yes No	
If Workover/Re-entry: Old Well Info as		If yes, show depth set: F	eet
Operator:		If Alternate II completion, cement circulated from:	
Well Name:		feet depth to:w/sx c	cmt.
Original Comp. Date:			
Deepening Re-perf. Plug Back Liner	Conv. to EOR Conv. to SWD Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)	
□ O		Chloride content:ppm Fluid volume:b	bls
_ •	rmit #:	Dewatering method used:	
	rmit #: rmit #:		
	rmit #:	Location of fluid disposal if hauled offsite:	
	rmit #:	Operator Name:	
33		Lease Name: License #:	
Spud Date or Date Reached	Completion Data co	Quarter Sec TwpS. R	/est
Recompletion Date	d TD Completion Date or Recompletion Date	Countv: 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:								

KOLAR Document ID: 1455700

Page Two

Operator Name: _				Lease Name:	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	ed Type and 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.								
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	ROBERTS UNIT FO 1-4
Doc ID	1455700

Tops

Name	Тор	Datum
Heebner	4464	-1760
Toronto	4488	-1784
Lansing	4612	-1908
Marmaton	5238	-2534
Cherokee	5415	-2711
Atoka	5663	-2959
Morrow	5715	-3011
Mississippi Chester5818	5818	-3114
Basal Chester	6023	-3319
Ste. Genevieve	6055	-3351
St. Louis	6147	-3443

Form	ACO1 - Well Completion
Operator	O'Brien Energy Resources Corp.
Well Name	ROBERTS UNIT FO 1-4
Doc ID	1455700

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	1545	ACON BLEND		3%CaCl & 1/4# floseal
Production	7.875	4.5	10.5	6284	AA2	230	10%CaCl, 1/4# floseal

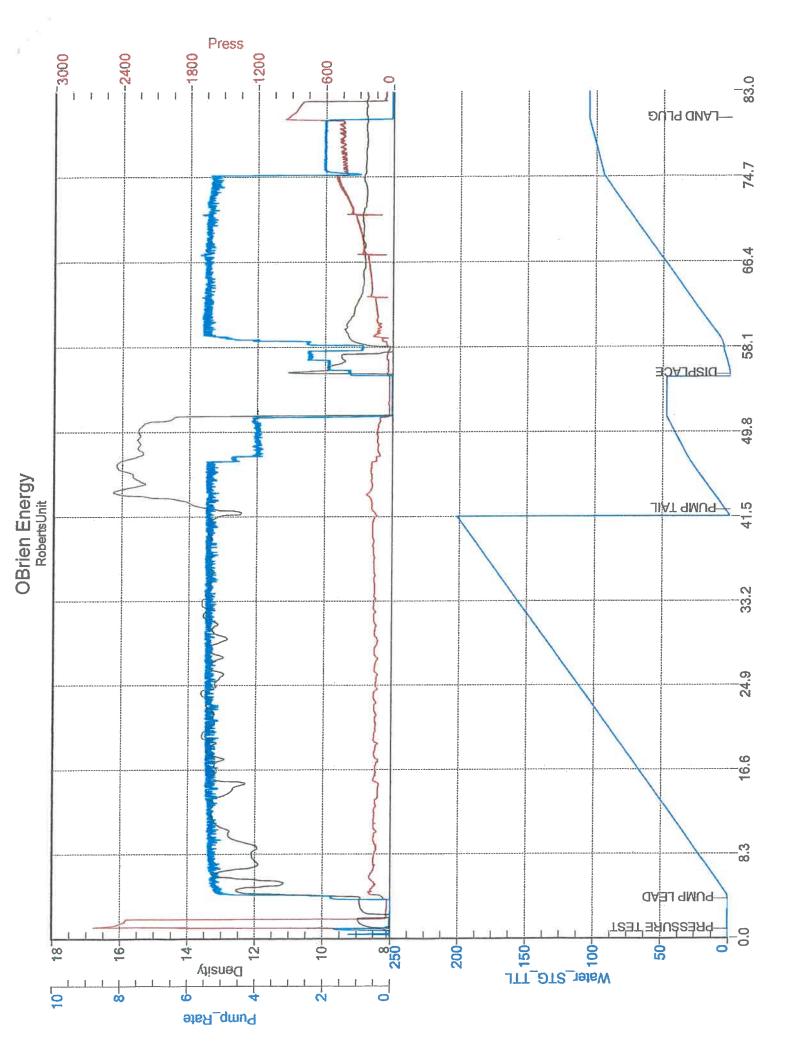


Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING

Job Log

					OOD LOG					
Custome	r	Obrien Energ	y		Cement Pump N	38117, 1	19919 9Hrs.	Operator TRK No.: 96816		
Address	18 Congres	s St. Suite 20	7		Ticket	#: 1718	17243 L	Bulk TRK No.: 14355, 37724 33021, 142 Oscar		
City, State, Zig	» Portsmouth	NH 03801			Job Typ	e:	Z42 Ce	ment Surface C	Casing	
Service District	t 17	718 - Liberal, I	s.		Well Typ	e:		OIL		
L	. Ro	berts Unit FO	1-4		Well Locatio	n: 4,33,2	9 County	Meade	State:	Ks
Туре	of Cmt	Sacks			Additives			Truck Loa	aded On	
A-Cor	n' Blend	375	3%	Calcium	Chloride, 1/4# Po	olyflake, .2%WCA1	14355, 37	7724 Jesse	Front	Back
Premium F	Plus Cement	150		2% C	alcium Chloride, 1	/4# Polyflake	33021, 14	1282 Oscar	Front	Back
									Front	Back
Lead	/Tail:	Weight #1 Gal.	Cu/	Ft/sk	Water Re	equirements	CU. FT.	Man	Hours / Person	nnel
Le	ad:	11.4	2.	.95		18	1106.25	TT Man Hours:	52	
Ta	ail:	14.8	1.	.34	6	3.33	201	# of Men on Job:	4	
Time		Volume	Pt	ımps	Pres	ssure(PSI)	[Description of Oper	ation and Materia	ls
(am/pm)	(BPM)	(BBLS)	Т	С	Tubing	Casing				
23:00								ON LOC	ATION	
23:15							;	SAFETY MEET	ING & WAIT	
3:00 AM								RIG	UP	
4:27 AM								RIG TO CIF	RCULATE	
5:35 AM							RIG TO PT			
5:37							PRESSURE TEST TO 2600PSI			
5:40	5.2	197.0 slurry				190	PUMP 375SX LEAD @ 11.4#			
6:18 AM	5.4	35.7 slurry				150	PUMP 150SX TAIL @ 14.8#			
6:27								HUTDOWN /	DROP PLUG	
6:32	5.5	10				150		DISPL	ACE	
	5.5	20				150				
	5.5	30				190				
	5,5	40				210				
	5.5	50				270				
	5.4	60				300				
	5.5	70				380				
	5.4	80				460				
6:51	5.3	86				500	SLOV	V RATE TO 2.0	OBPM @ 430F	PSI
	2	90				460				
6:57	2	96.3				480	LAND P	LUG / PRESSI	JRE UP TO 9	70PSI
7:00							REL	EASE BACK	- FLOAT HEL	D
								JOB COM	PLETE	
Size Hole	40.41411	Danilla					TVDE 1	DI.	0-4-	
Size & Wt. Csg.	12 1/4"	Depth	4554	001	Many III.		TYPE		ug Container	
-	8 5/8' 24#	Depth	1554	,08	New / Used		Packer		Depth	
Landing Press. Shoe Jt	313.9psi 40.10'	Depth					Retainer Perfs		Depth CIBP	
OHUG UL	40,10	Туре	\		1	Desis Derry				
Duntaman O!-		1)	1	2	5	Basic Represe			Daniel Beck	2
Customer Sig	Hellote: X	pyper	100	111		Basic Signatur		Daniel Beek		
				1//		Date of Service	9:	12/6/2018		



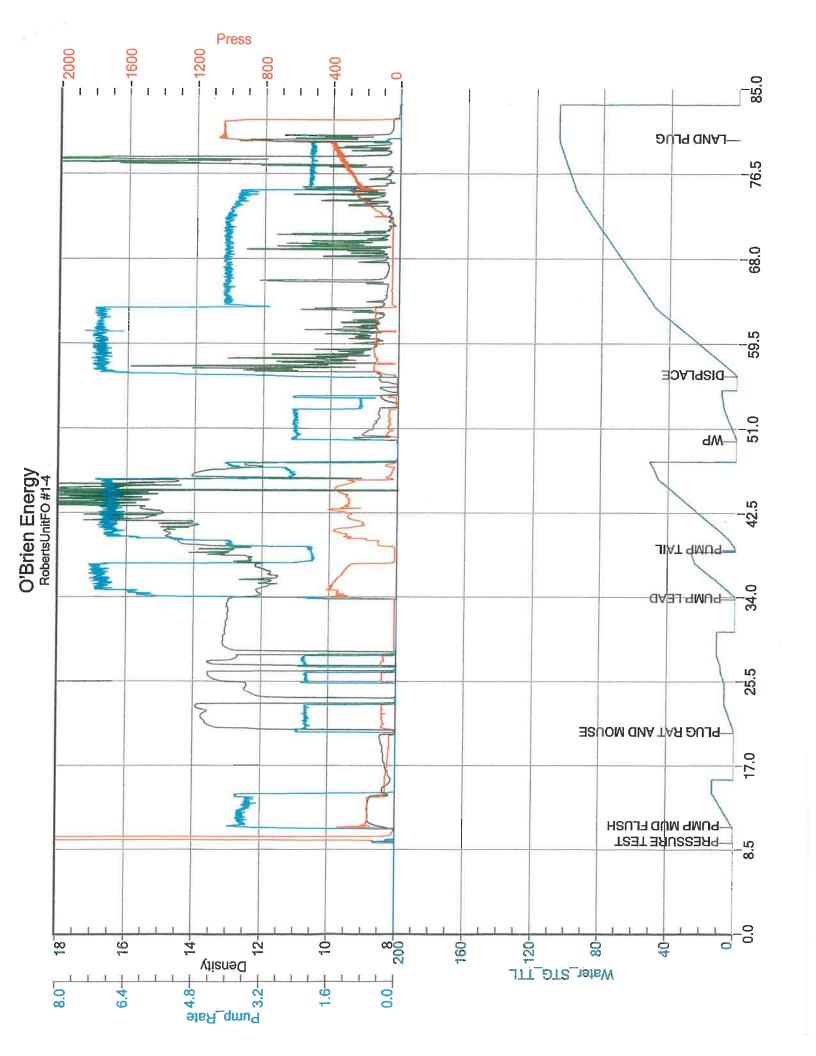


Liberal Yard #1717 - Phone 620-624-2277 - 1700 S. Country Estates Road, Liberal KS 67901

PRESSURE PUMPING Job

Job Log

Customen	C	brien Energy			Cement Pump No.:	38117, 19	9919 5Hrs.	Operator TRK No.:	9681	6
Address:	18 Congress	St. Suite 207	7		Ticket #:	1718 1	7245 L	Bulk TRK No.: 30463, 37547 30463, 3754		
	Portsmouth					Z42 Cement Production Casing				
Service District:		18 - Liberal, K	s.		Well Type:			OIL		
ell Name and No.:		erts Unit FO			Well Location:	4,33,29	County	Meade	State:	K
Туре	of Cmt	Sacks			Additives			Truck Loa	ded On	
) Poz	50					30463, 37	547 Oscar	Front	Back
	7 FOL	30	E9/, 1A	160 10	9% Salt, .6% C-17, 1	I/A# Defoamer 5#				
A/	A2	180	270 91	7-00, 10	Gilsonite	par boloanos, or	30463	, 37547	Front	Back
									Front	Back
Lead	/Tail:	Weight #1 Gal.	Cu/l	Ft/sk	Water Rec		CU. FT.		lours / Person	
Le	ad:	12		08		.89	104	TT Man Hours:	28	
Ta	il:	14.8	1.	51	6.0	65	271.8	# of Men on Job:	3	
Time		Volume	Pu	mps	Press	ure(PSI)		escription of Oper	ation and Material	s
(am/pm)	(BPM)	(BBLS)	T	С	Tubing	Casing				
12:15							ONL	OCATION & S		ING
12:30								RIG		
1:15 PM								RIG TO CIF		
2:31 PM							RIG TO PT			
2:39 PM		44.0				400	PRESSURE TEST TO 4380PSI PUMP 500GAL MUD FLUSH			1
14:40	3.5	11.9			20	180	PLUG RATE & MOUSE W/ 50SX 60/40POZ			40PO7
14:50	2.4	12.0 slurry			20	430	PUMP 50SX LEAD @ 12#			101 02
3:02 PM	7	18.5 slurry 48.4 slurry				310	PUMP 180SX TAIL @ 14.8#			
15:08 15:18		40.4 Sidily				0.10		UTDOWN / DR		/P
15:24	7	10				130		DISPL		
10.27	7	20				130	1	OBBL IN NO C	IRCULATION	
	7	30				130				
15:33	7	40				130	45BBLS II	N SLOW RATE	TO 4.0BPM (@ 40PSI
10.00	4	50	[40				
	4	60				30				
	4	70				30				
	4	80				110		HOLE CIRC	ULATING	
15: 45	3.7	89				280	SLO	W RATE TO 2.	OBPM @ 2201	PSI
	2.1	90				250				
15:50	2.1	99.5				410	1	LUG / PRESSI		
15:52							REL	EASE BACK		.D
								JOB COM		
Size Hole	7 7/8"	Depth			6290'		TYPE	P	lug Container	
	4 1/2" 10.5#	Depth	6282	2.77'	New / Used		Packer		Depth Depth	
Landing Press.	679.2psi	Depth					Retainer Perfs		CIBP	
Shoe Jt.	21.85'	Туре	1			Pagio Poneca			Daniel Beck	
		ap 1.	4	1		Basic Represe Basic Signatur			O. Bac	0
Customer Sig	inature:	30	1	1		Date of Service		12/12/2018	V. 6102	



O'Brien Energy Resources, Inc. Roberts Unit FO No. 1-4 Section 4, T33S, R29W

Meade County, Kansas December 2018

Well Summary

The O'Brien Energy Resources, Roberts Unit FO No. 1-4 was drilled to a total depth of 6290' in the St. Louis without any problems. It offset the Preedy No. 3-4 by less than ¼ mile to the NW. Formation tops from the Cherokee to the Morrow ran 3' high relative to this offset. Tops through the Mississippi came in 5' to 6' high. The St. Louis came in 5' high. The St. Louis came in 9' high relative to the Keystone No. 4-4, approximately ¼ mile to the SW.

The St. Louis(6146'-6158') consists of a Dolomite: Medium to dark mottled brown, microcrystalline, microsucrosic to sucrosic in part, clean to argillaceous, brittle, occasional intercrystalline porosity with even brown matrix oil stain, fossiliferous with moldic porosity, dull speckled gold brown hydrocarbon fluorescence in 2% of the samples, excellent streaming cut, trace light live oil and light oil odor, interbedded with Shale and Limestone: Light milky gray, hard, dense, very siliceous and tight, fossiliferous with oil filled moldic porosity and excellent cut, abundant Chert. A 25 Unit gas increase was noted.

A thin Morrow Sandstone stringer(5762'-5766') was documented along with a slight 10 Unit gas increase and with no hydrocarbon show.

4 ½" production casing was run on the Roberts Unit FO No. 1-4 on 12/13/18.

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: Roberts Unit FO No. 1-4, Angell Field

API: 15-119-21429

Location: 2176' FNL & 1547' FWL, Section 4, T33S, R29W, Meade County,

Kansas – Southeast of Plains.

Elevation: Ground Level 2691', Kelly Bushing 2704'

Contractor: Duke Drilling Rig No. 9, Type: Double jackknife, double stand,

Toolpusher Emidgio Rojas & Victor Martinez, Drillers: Jose Cervantes,

Alejandro V., Fernando Jurado

Company Man: Dana Greathouse

Spud Date: 12/15/18

Total Depth: 12/12/18, Driller 6290', Logger 6288', St. Louis Formation

Casing Program: 37 joints of 8 5/8", J-55 STC 24Lbs/ft, set at 1545' with 375 sacks A-

Con(3% cc, ¼ lb Floseal) and 150 sacks Premium Plus tail. Plug down

6:57 am 12/6/18. $4\frac{1}{2}$ " production casing set to TD.

Mud Program: Service Mud, engineer Justin Whiting, displaced 2600'.

Wellsite Consultant: Peter Debenham with mudlogging trailer, Call depth 3000', Box 350,

Drake, CO 80515, 720/220-4860.

Samples: 30' to 5700', 20' to TD. Sample cut sent to KGS sample log library.

Electric Logs: Weatherford, engineer Adam Sill, Array Induction, Compensated

Neutron/Density, Microlog, Hi Res.

Status: $4\frac{1}{2}$ " production casing run to TD on 12/13/2018.

WELL CHRONOLOGY

DATE	<u>DEPTH</u>	FOOTAGE	RIG ACTIVITY
12/5 ½" sur	0' face hole.	0'	Move to location and rig up. Mix spud mud and spud in 12
	1555' .545' – did circ	1555' ulate. Wait on	To 1555' and circulate. Run and cement 37 joints of 8 5/8" cement.
12/7 plug ar	2140' and cement and		Wait on cement and nipple up and pressure test BOP. Drill 2140'.
12/8	3345'	1205'	Displace mud.
12/9	4860'	1515'	
12/10	5601'	741'	To 5004' and circulate. Wiper trip 58 stands and circulate.
12/11	6230'	629'	
12/12 run Elo	6290'TD ogs.	60'	To TD and circulate. Wiper trip and trip out for logs and
12/13	TD		Run and cement 4 1/2" production casing to TD. Rig down.

BIT RECORD

<u>NO.</u>	MAKE HOURS	<u>TYPE</u>	SIZE	<u>OUT</u>	FOOTAGE		
1 2	PLT 616 PLT 616		12 ¼" 7 7/8"	1555' 6290'	1555' 4735'		11 79 ¼
				Total Rotatin Average:	g Hours:	69.69	90 1/4 Ft/hr

DEVIATION RECORD - degree

796' ½, 1555' ¾, 2277' ¾, 2717' ¾, 3220' ½, 3718' ¾, 4189' ½, 4691' ¾, 5192' ¾, 5569' 1, 6290' 1

MUD PROPERTIES

DATE	DEPTH	$\overline{\mathbf{WT}}$	VIS	\mathbf{PV}	<u> YP</u>	<u>pH</u>	$\overline{\mathbf{WL}}$	CL LCM-LBS/BBL
12/6	1555'	Water	•					
12/7	2273'	9.45	31	3	3	7.0	nc	66.4K 1
12/8	3494'	8.75	49	14	16	11.5	6.8	6.8K 3
12/9	5004'	9.25	50	16	17	10.5	7.6	2.2K 4
12/10	5665'	9.15	66	21	22	11.0	6.4	3.1K 4
12/11	6279'	9.05	54	17	21	11.0	6.4	2.7K 6

ELECTRIC LOG FORMATION TOPS- KB Elev. 2704'

		*Preedy 3-4	
DEPTH	DATUM	DATUM	POSITION
1546'			
4464'	-1760'	-1761'	+1'
4488'	-1784'	-1773'	-11'
4612'	-1908'	-1905'	-3'
5238'	-2534'	-2542'	+8'
5415'	-2711'	-2714'	+3'
5663'	-2959'	-2962'	+3'
5715'	-3011'	-3014'	+3'
5818'	-3114'	-3119'	+5'
6023'	-3319'	-3325'	+6'
6055'	-3351'	-3357'	+6'
6147'	-3443'	-3448'	+5'
6290'			
	1546' 4464' 4488' 4612' 5238' 5415' 5663' 5715' 5818' 6023' 6055' 6147'	1546' 4464' -1760' 4488' -1784' 4612' -1908' 5238' -2534' 5415' -2711' 5663' -2959' 5715' -3011' 5818' -3114' 6023' -3319' 6055' -3351' 6147' -3443'	DEPTH DATUM DATUM 1546' -1760' -1761' 4488' -1784' -1773' 4612' -1908' -1905' 5238' -2534' -2542' 5415' -2711' -2714' 5663' -2959' -2962' 5715' -3011' -3014' 5818' -3114' -3119' 6023' -3319' -3325' 6055' -3351' -3357' 6147' -3443' -3448'

^{*}O'Brien Energy Resources, Preedy 3-4, 1980' FSL & 2305' FEL, Section 4, 33 S, $29W - < \frac{1}{4}$ mile to the SE, K.B. Elev. 2681'.

			*Keystone 4-4		
FORMATION	DEPTH	DATUM	DATUM	POSITION	
Casing	1546'				
Heebner	4464'	-1760'	-1768'	+8'	
Toronto	4488'	-1784'	-1796'	-12'	
Lansing	4612'	-1908'	-1916'	+8'	
Marmaton	5238'	-2534'	-2536'	+2'	
Cherokee	5415'	-2711'	-2706'	-5'	
Atoka	5663'	-2959'	-2958'	-1'	
Morrow	5715'	-3011'	-3012'	+1'	
Mississippi Chester	5818'	-3114'	-3124'	+10'	
Basal Chester	6023'	-3319'	-3316'	-3'	
Ste. Genevieve	6055'	-3351'	-3355'	+4'	
St. Louis	6147'	-3443'	-3452'	+9'	
TD	6290'				

^{*}O'Brien Energy Resources, Keystone 4-4, 2305' FSL & 445' FWL, Section 4, 33 S, 29W-4 mile to the SW, K.B. Elev. 2656'.