

Confidentiality Requested:

Yes No

Kansas Corporation Commission Oil & Gas Conservation Division

1152154

Form ACO-1 August 2013 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. 15		
Name:			Spot Description:		
Address 1:			Sec.	Twp S. R	East West
Address 2:			F6	eet from North / Se	outh Line of Section
City: S	tate: Z	ip:+	Fe	eet from East / W	lest Line of Section
Contact Person:			Footages Calculated from	Nearest Outside Section Cor	rner:
Phone: ()			□ NE □ NW	V □SE □SW	
CONTRACTOR: License #			GPS Location: Lat:	, Long:	
Name:				(e.g. xx.xxxxx)	(e.gxxx.xxxxxx)
Wellsite Geologist:			Datum: NAD27	NAD83 WGS84	
Purchaser:			County:		
Designate Type of Completion:			Lease Name:	Well	l #:
	e-Entry	Workover	Field Name:		
	_	_	Producing Formation:		
☐ Oil ☐ WSW ☐ D&A	☐ SWD	□ SIOW □ SIGW	Elevation: Ground:	Kelly Bushing: _	
OG	GSW	Temp. Abd.	Total Vertical Depth:	Plug Back Total Dep	oth:
CM (Coal Bed Methane)	_ dow	тетір. дай.	Amount of Surface Pipe Se	et and Cemented at:	Feet
Cathodic Other (Con	re, Expl., etc.):		Multiple Stage Cementing	Collar Used? Yes N	No
If Workover/Re-entry: Old Well In			If yes, show depth set:		Feet
Operator:			If Alternate II completion, of	cement circulated from:	
Well Name:			feet depth to:	w/	sx cmt.
Original Comp. Date:	Original T	otal Depth:			
Deepening Re-perf.	Conv. to E	NHR Conv. to SWD	Drilling Fluid Managemer	nt Plan	
☐ Plug Back	Conv. to G	SW Conv. to Producer	(Data must be collected from t		
Commingled	Dormit #		Chloride content:	ppm Fluid volume: _	bbls
Dual Completion			Dewatering method used:		
SWD			Location of fluid disposal if	i hauled offsite:	
☐ ENHR			Loodiion of haid disposal in	nation office.	
GSW	Permit #:		Operator Name:		
_ _				License #:	
Spud Date or Date Re	ached TD	Completion Date or	Quarter Sec	TwpS. 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						
Geologist Report Received						
UIC Distribution						
ALT I II III Approved by: Date:						

Page Two



Operator Name:				Lease N	Name: _			Well #:		
Sec Twp	S. R	East	West	County	:					
INSTRUCTIONS: Shopen and closed, flow and flow rates if gas to	ring and shut-in pres o surface test, along	sures, whethe with final cha	er shut-in pre art(s). Attach	essure reac n extra shee	hed stati t if more	c level, hydrosta space is neede	itic pressures, bot d.	tom hole temp	erature, fluid re	ecovery,
Final Radioactivity Lo files must be submitte						ogs must be ema	ailed to kcc-well-lo	gs@kcc.ks.go	v. Digital electr	ronic log
Drill Stem Tests Taker (Attach Additional		Yes	☐ No				on (Top), Depth ar		Sampl	
Samples Sent to Geo	logical Survey	Yes	□No		Nam	е		Тор	Datum	1
Cores Taken Electric Log Run		☐ Yes ☐ Yes	☐ No ☐ No							
List All E. Logs Run:										
				RECORD	Ne					
	2	1				ermediate, product		T	I	
Purpose of String	Size Hole Drilled		Casing n O.D.)	Weig Lbs. /		Setting Depth	Type of Cement	# Sacks Used	Type and Pe Additive	
			ADDITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Depth Top Bottom	Type of	Cement	# Sacks	Used		Type and F	ercent Additives		
Perforate Protect Casing	100 20111111									
Plug Back TD Plug Off Zone										
1 lug 011 20110										
Did you perform a hydrau	ulic fracturing treatment	on this well?				Yes	No (If No, ski	ip questions 2 ar	nd 3)	
Does the volume of the t							= :	p question 3)		
Was the hydraulic fractur	ring treatment information	on submitted to	the chemical	disclosure re	gistry?	Yes	No (If No, fill	out Page Three	of the ACO-1)	
Shots Per Foot		ION RECORD Footage of Eac					cture, Shot, Cement			epth
	open,					,,				
TUBING RECORD:	Size:	Set At:		Packer A	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or Ef	NHR. F	Producing Met	hod: Pumpin	a	Gas Lift 0	Other (Explain)			
Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Wat			Gas-Oil Ratio	Gra	avity
	1									
	ON OF GAS:		en Hole	METHOD OF			mmingled	PRODUCTION	ON INTERVAL:	ļ
Vented Solo	I Used on Lease bmit ACO-18.)		en noie _	Perf.	(Submit		mmingled mit ACO-4)			

Form	ACO1 - Well Completion
Operator	Range Oil Company, Inc.
Well Name	Breedlove A 1
Doc ID	1152154

Tops

Name	Тор	Datum
Heebner	1399	+185
Lansing	1729	-145
Kansas City	2074	-490
Cherokee	2548	-964
Mississippian	2824	-1240
Kinderhook	3153	-1569
Arbuckle	3217	-1633
LTD	3225	-1641



P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

BRDLV1DST1

Page 1 of 2 Pages

Company Range Oil Company, Inc. Lease & Well No. Breedlove "A" No. 1 Elevation 1579 EGL Formation Mississippi Lime Effective Pay	
	cket No. M492
Date 4-30-13 Sec. 30 Twp. 28S Range 8E County Butler State	Kansas
Test Approved By Ken Wallace Diamond Representative Mike Coch	ran
Formation Test No. 1 Interval Tested from 2,807 ft. to 2,840 ft. Total Depth	
Packer Depth 2,807 ft. Size 6 3/4 in. Packer Depth ft. Size	in.
Depth of Selective Zone Setft.	
Top Recorder Depth (Inside) 2,809 ft. Recorder Number 0063 Cap.	6,000 psi.
Bottom Recorder Depth (Outside) 2,837 ft. Recorder Number 6884 Cap.	6,275 _{psi.}
	psi.
Drilling Contractor Summit Drilling Company - Rig 1 Drill Collar Length 313 ft I.D.	2 1/4 in
)in.
Weight 9.4 Water Loss 8.8 cc. Drill Pipe Length 2,469 ft I.D)3 _{in.}
Chlorides 800 P.P.M. Test Tool Length 25 ft Too	ol Size 3 1/2-IF in
Jars: Make Sterling Serial Number 1 Anchor Length 33 ft. Siz	ze <u>4 1/2-FH</u> in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke	
	ize3 1/2-XH _{in.}
Blow: 1st Open: Good surface blow. Off bottom of bucket in 13 mins. Weak surface blow back during shut-in. 2nd Open: Good surface blow. Off bottom of bucket in 11 mins. Weak surface blow back during shut-in. Recovered 425 ft. of gas in pipe Recovered 30 ft. of slightly gas cut oil = .147600 bbls. (Grind out: 2%-gas; 98%-oil) Gravity: 39 @ 60° Recovered 172 ft. of gas & water cut muddy oil = .846240 bbls. (Grind out: 4%-gas; 12%-oil; 48%-emulsified oil; 6%-water; 30%-mud) Chlorides: 12,000 Pl Recovered ft. of TOTAL FLUID = .993840 bbls. Recovered ft. of Recovered ft. of Sample Grind Out: 6%-gas; 34%-oil; 10%-emulsified oil; 30%-water; 20%-mud	pm PH: 7.0 RW: .64 @ 65°
Time Set Packer(s) 12:40 A.M. Time Started off Bottom 3:40 A.M. Maximum Temperatur	e108°
Initial Hydrostatic Pressure(A) 1391 P.S.I.	
Initial Flow PeriodMinutes 30 (B) 22 P.S.I. to (C)	_ 54 P.S.I.
Initial Closed In PeriodMinutes 30 (D) 513 P.S.I.	
	96
Final Flow PeriodMinutes 60 (E) 60 P.S.I to (F)	96 P.S.I.
	P. S.I.



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Page 1 of 2 Pages

Company Range Oil Company, Inc.	Lease & Well No. Breedlove	'A" No. 1
Elevation 1579 EGL Formation Mississippi Dolomite	Effective Pay	14400
Date 4-30-13 Sec. 30 Twp. 28S Range		
Test Approved By Ken Wallace	Diamond Representative	Mike Cochran
Formation Test No. 2 Interval Tested from	2,842 ft. to 2,857 ft.	Total Depth 2,857 ft
Packer Depth	Packer Depth	ft. Sizein.
Packer Depthft. Size6 3/4 in.	Packer Depth	ft. Sizein.
Depth of Selective Zone Setft.		
Top Recorder Depth (Inside) 2,844 ft.	Recorder Number	0063 Cap. 6,000 psi.
Bottom Recorder Depth (Outside) 2,854 ft.	Recorder Number	6884 Cap. 6,275 psi.
Below Straddle Recorder Depthft.	Recorder Number	Cappsi.
Drilling Contractor Summit Drilling Company - Rig 1	Drill Collar Length	313 ft I.D. 2 1/4 in
Mud Type Chemical Viscosity 65	Weight Pipe Length	ft I.Din.
Weight 9.3 Water Loss 9.2 cc.	Drill Pipe Length	2,504 ft I.D. 3 in.
Chlorides 1,100 P.P.M.	Test Tool Length	25 ft Tool Size 3 1/2-IF in
Jars: MakeSterlingSerial Number1		15 _{ft.} Size4 1/2-FH _{in.}
Did Well Flow? No Reversed Out No	Surface Choke Size1i	n. Bottom Choke Size5/8 in.
	Main Hole Size7 7/8 i	n. Tool Joint Size3 1/2-XH in.
Blow: 1st Open: Weak surface blow increasing to 10 1/2 ins. No blow bac 2nd Open: Weak surface blow increasing. Off bottom of bucket in 4		nut-in.
Recovered 90 ft. of gas in pipe		
Recoveredft. of slightly gas cut oil = .081700 bbls. (Grind out:		
Recovered ft. of	1990 bbls. (Grind out: 1%-gas; 98%-water; 1%-mu	d) Chlorides: 23,000 Ppm PH: 7.0 RW: .30 @ 64°
Recovered 382 ft. of TOTAL FLUID = 2.103690 bbls.		
Recoveredft. of		
Recoveredft. of		
Remarks Tool Sample Grind Out: 1%-gas; 2%-oil; 95%-wate	r; 2%-mud	
Time Set Packer(s) 5:45 P.M. Time Started off Bott	om 8:45 P.M. Mayir	num Temperature 115°
Time dated on Bott	OIIIIVIANII	num Temperature115°
Initial Hydrostatic Pressure(A) Initial Flow Period Minutes 30 (P)		107 –
Initial Flow FeriodIvillutes(B)		107 P.S.I.
(D	· —————————	185
Tillai Tiow Teriod	F07	185 _{P.S.I.}
Final Closed In PeriodMinutes(G) Final Hydrostatic Pressure(H)		
Final Hydrostatic Fressure(H))P.S.I.	



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Page 1 of 2 Pages

Company Range Oil Compan	y, Inc.		Lease & We	ell No. Bre	edlove "A"	No. 1		
Elevation 1579 EGL Forma			Effective Pa	ау			Ticket N	No. M494
Date5-2-13 Sec		28S Rang	ge 8E Co	ounty	Butler	State	1/	ansas
Test Approved By	20070ac 80 00070a 00070					Mike	Cochran	
Formation Test No. 3 Packer Depth 3,206 Packer Depth 3,206	ft. Size ft. Size	6 3/4 in.	Pac	3, ker Depth_ ker Depth_		ft. Siz		in.
Depth of Selective Zone Set								
Top Recorder Depth (Inside) Bottom Recorder Depth (Outside) Below Straddle Recorder Depth		3,208 ft. 3,217 ft. ft.	Rec	order Num order Num order Num	ber	6884	Сар Сар Сар	0.075
Drilling Contractor Summit Dril	ling Company	- Rig 1	Drill Collar L	ength		313 _{ft}	I.D	2 1/4 ir
Mud Type Chemical	Viscosity	51	Weight Pipe	Length		ff	: I.D	in.
	Water Loss	8.4c	c. Drill Pipe Le	ngth		2,868 _{ft}	I.D	3 _{in.}
Chlorides 900	P.	P.M.	Test Tool Le	ngth		25 _{ft}	Tool Size	e_3 1/2-IF _{in}
Jars: MakeSterling	_ Serial Numb	er1	_ Anchor Leng	jth		14 ft.	Size	4 1/2-FH in.
Did Well Flow? No Reve	rsed OutN	lo	Surface Cho				Choke Size	
			Main Hole S				nt Size	3 1/2-XH in
Recovered ft. of Recovered ft. of ft.	ool. Did not take i	mud. No surge of	bubbles. No help. N	o blow. No b				
Time Set Packer(s) 8:25 P.M		Started off Bo		_	Maximun	n Temper	ature	112°
Initial Hydrostatic Pressure			.)1	⁵⁹² P.S.I.				
Initial Flow Period		(E	3)		to (C)		18 _{P.}	S.I.
Initial Closed In Period		mer see	0)	18_P.S.I.				
Final Flow Period			=)	17 P.S.I	to (F)		17 _P	.S.I.
Final Closed In Period		(0	,	P.S.I.				
Final Hydrostatic Pressure		(H	1)1	⁵⁹⁰ P.S.I.				



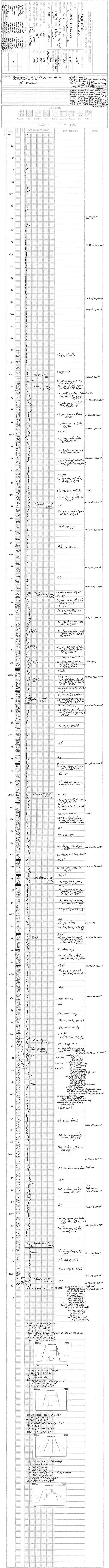
P.O. Box 157

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Page 1 of 2 Pages

BRDLV1DST4 Company Range Oil Company, Inc. Lease & Well No. Breedlove "A" No. 1 1579 EGL Formation Arbuckle M495 Elevation Effective Pay -- Ft. Ticket No. 5-3-13 **28S** Butler Kansas 8E Sec. Twp. Date Range County State Ken Wallace Mike Cochran Test Approved By_ Diamond Representative 3,207 ft. to ____ 3,225 ft. $3,225_{ff}$ Interval Tested from Total Depth 3,202 ft 6 3/4 in ⁻⁻ in. Size Packer Depth -- ft. Size Packer Depth 6 3/4 in. 3,207 ft. Packer Depth Size Packer Depth -- ft. Size Depth of Selective Zone Set ft. 3,209 ft 6,000 psi. 0063 Top Recorder Depth (Inside) Cap._ Recorder Number 3,222 ft 6884 6,275 psi. Bottom Recorder Depth (Outside) Recorder Number Cap. Below Straddle Recorder Depth Recorder Number Cap. Drilling Contractor Summit Drilling Company - Rig 1 313 ft I.D. 2 1/4 in. Drill Collar Length_ Chemical Mud Type ⁻⁻ft I.D.____ ⁻⁻ in. Viscosity Weight Pipe Length 9.2 8.4 2,869 ft I.D. 3 in. Weight Water Loss CC. Drill Pipe Length 900 25 ft Tool Size 3 1/2-IF in. Chlorides P.P.M. Test Tool Length Sterling 4 1/2-FH in. ¹⁸ ft. Size Jars: Make Serial Number Anchor Length Yes 1 in. 5/8 in. Did Well Flow? Reversed Out Surface Choke Size **Bottom Choke Size** 7 7/8 in. 3 1/2-XH in Tool Joint Size Main Hole Size Blow: 1st Open: Strong surface blow. Off bottom of bucket in 2 mins. No blow back during shut-in. 2nd Open: Good surface blow. Off bottom of bucket in 2 mins. No blow back during shut-in. 157 ft. of oil specked muddy water = 1.282690 bbls. (Grind out: 4%-oil; 71%-water; 25%-mud) Recovered 2,068 ft. of mud cut water w/a thin scum of oil = 15.878310 bbls. (Grind out: 95%-water; 5%-mud) Chlorides: 18,000 Ppm PH: 7.0 RW: .45@55° Recovered 2,225 ft. of TOTAL FLUID = 17.161000 bbls. Recovered ft. of ft. of Recovered ft. of Remarks Tool Sample Grind Out: 100%-water with a thin scum of oil 1:45 P.M. 4:45 P.M. 125° Time Set Packer(s) Time Started off Bottom Maximum Temperature 1584 P.S.I. Initial Hydrostatic Pressure....(A) ⁵⁵ P.S.I. to (C)_____ 584 P.S.I. Initial Flow Period......Minutes (B) 30 1077 P.S.I. Initial Closed In Period.....Minutes (D) 60 Final Flow Period......Minutes ⁵⁹⁰ P.S.I to (F)_____ (E) 60 1101 P.S.I. Final Closed In Period......Minutes (G) 1559 P.S.I. Final Hydrostatic Pressure....(H)





API* 15-015-23977

TICKET NUMBER 41561

LOCATION EURES

FOREMAN Rex Later

DATE

PO Box 884, Chanute, KS 66720
FIELD TICKET & TREATMENT REPORT
CEMENT CAN

20-431-9210	or 800-467-8676		CEME		1	RANGE	COUNTY
DATE	CUSTOMER#	WELL N	AME & NUMBER	SECTION	TOWNSHIP	RANGE	COOKIT
		2 11	0 41	34	285	8E	Butler
5-4-13	6942	Breedlave 1					
CUSTOMER	an Gil C	. T.	Simois	TRUCK #	DRIVER	TRUCK#	DRIVER
MAILING ADDR		ompany Inc	Or)3	445	Dave		
		1. 1.24		Wer	Chais B.		
CITY	1. Marret	STATE Z	IP CODE	637	Chris M.		
1.1:0	٠,٠	125	67202				

JOB TYPE L) S 0 HOLE SIZE 77/3" HOLE DEPTH 3225' CASING SIZE & WEIGHT 5½" /5.5 2765

CASING DEPTH 32 2 DRILL PIPE TUBING OTHER

SLURRY WEIGHT /3 6# SLURRY VOL 49 65 WATER gal/sk 9.0 CEMENT LEFT in CASING 6.25

DISPLACEMENT 78/9 65 DISPLACEMENT PSI 866 NEX PSI /306 6 19 9 19 RATE

DISPLACEMENT 78 to BI DISPLACEMENT PSI 800 MEX PSI 7308 Comp plug RATE

REMARKS: Safety meeting. Rg up to 54: "Casing. Break circulation up 10 Bb) fresh water. Purp

100" metasilizate pre-flush up 12 Bb) water, 10 Bb) water spaces. Mixed 150 ses thickest cement

up 5" Kol-seal see @ 13.6" Ago). yield 1.85: shut down, washout purp + lives, celease 5th" latch down

plug. Displace up 79"/3 Bb fresh water. Final purp pressure 800 PSI. Bur plug to 1300 PSI.

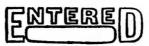
Celease pressure, float + plug hald. Good criculation @ all times while cementing. Joh complete.

"Thank You"

ACCOUNT	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
CODE	1	PUMP CHARGE	1030.00	1030.00
5401 5406	40	MILEAGE	4.00	160.00
	150	thickset cement	19.20	2880.00
1126A 1110A	150 sxs	St Kolsmallsk	.46	345.00
UUA	100°N	metasilicate pre-flush	2.00	200.00
54074	8. 25	to mileage bulk tix	1.34	492.20
SSOIC S	5 hrs	80 BW WAC TEX	16.50 1,000	450.00
//23	3000 9013	City Note		
4104	2	5/2" cemat bassets 5/2" x 7%" contralizes	229.00 48.60	246.00
4130		5'h" AFU inset	172.00	172.00
1454		5%" latch down plus	254.00	254.00
	FNTERE	1,600	Subtatal	6680.70
in 3737		258550	SALES TAX ESTIMATED TOTAL	301.21

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.





TICKET NUMBER 41433 LOCATION Eureka

黑	Cit sales because c			FOREMAN, S	True Agead	
PO Box 884,	Chanute, KS 66720	FIELD TICKET & TREA		ORT	hay Ara	
620-431-9210	or 800-467-8676 AP	1 15-015-23 977 CEMEN		TOWNSHIP	RANGE	COUN
DATE	CUSTOMER#	WELL NAME & NUMBER	SECTION	IOWNSHIP	MINOL	000.

DATE	CUSTOMER#	WELL NAM	E & NUMB	ER	SECTION	TOWNSHIP	RANGE	COUNTY	
	- Commission of the Commission	Brasolous A #1			30	285	88	Buyler	
CUSTOMER	6742	135 REGILOUR H	- -						
		. To-			TRUCK#	DRIVER	TRUCK #	DRIVER	
MAILING ADDRE	Campan	y , L 115			485	Alanne			
					611	Joex			
CITY	781775	STATE ZIP C	CODE						
~		1,7	278						
Wichita				UOLE DEDTI	232'	CASING SIZE & V	VEIGHT & %	23*	
JOB TYPE Su	cface 0	HOLE SIZE 124					OTHER		
CASING DEPTH	230-	DRILL PIPE		TUBING					
SLURRY WEIGH	н	SLURRY VOL		WATER gal/s	sk	CEMENT LEFT in			
DISDI ACEMEN	1137611	DISPLACEMENT PSI	400+	MIX PSI	RATE Shulwall 300th				
DEMADKS: C-	C. 11-041.	Risup To	2 34	Casins	Brook Ci	culation h	110663	Fash	
KEMIAICIO. 36	ATY MEETIN	Class A Cam	-0-0	3% Cac)	- 1% G	1 + 4 F/	o cale par)sk.	
mozer V	125 5Ks	C1972 1. 18117	CN1	4.413	2412. 60	.1	CL 7 1. 10) Boeth	
That day	un Releas	e pluy. Dis	place	W/13.	I Day Fre	ST WHITE.) N	<u> </u>	
In Cum	ent Retur	ns to sursaca	666	(1 70 p)	40 L	t etilgmal	13 clans		
		_	h 1	You					
			Trans	- Jeou-					

ACCOUNT	QUANITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	825.00	82500
5406	40	MILEAGE	4.00	160.00
11045	125 sks	Class A Cement	14.95	1868.75
1105	350*	Cacle 3%	,74	259.00
1118/3	Z35*	Gel 3%	.21	49.35
1107	30 Th	Flocels 4 perist	2.35	70.50
5407	5887an	Ton Mikoga Bulk Truck	mc	350.00
4432	,	8 % Wooden Dyn	80.00	80.00
4/32	2	8% Cantralizars	69.00	/38.00
Ravin 3737			Subvoid	
		<u> </u>	SALES TAX ESTIMATED TOTAL	1
AUTHORIZTIOI	N Dan Co	TITLE	DATE	0 10.1.0

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form. Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

July 22, 2013

John Washburn Range Oil Company, Inc. 9412 E. CENTRAL PO BOX 781775 WICHITA, KS 67278-1775

Re: ACO1

API 15-015-23977-00-00 Breedlove A 1 SW/4 Sec.30-28S-08E Butler County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, John Washburn