Confidentiality Requested: Yes No

### KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1223148

Form ACO-1 August 2013 Form must be Typed Form must be Signed All blanks must be Filled

### WELL COMPLETION FORM

WELL	HISTORY	- DESCR	RIPTION	OF WE	LL &	LEASE

OPERATOR: License #		API No. 15
Name:		Spot Description:
Address 1:		
Address 2:		Feet from  North / South Line of Section
City: State: Zip	:+	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.xxxxxx)
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:
	Temp Abd	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, cement circulated from:
Well Name:		feet depth to:w/sx cmt.
Original Comp. Date: Original To	al Depth:	
Deepening Be-perf. Conv. to FN	HB Conv. to SWD	Drilling Eluid Management Plan
Plug Back	W Conv. to Producer	(Data must be collected from the Reserve Pit)
		Chloride content: ppm Eluid volume: bbls
Commingled Permit #:		Dewatering method used:
Dual Completion Permit #:		Dewatering method used.
SWD Permit #:		Location of fluid disposal if hauled offsite:
ENHR Permit #:		Operator Name:
GSW Permit #:		License #:
		QuarterSec TwpS. R
Spud Date or Date Reached TD Recompletion Date	Completion Date or 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 Approved by: Date:								

	Page Two	1223148
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCTOLICTIONS. Chow important tapa of formations panetrated Da	tail all cores. Popert all fin	al conject of drill stome tosts giving interval tosted, time tool

**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 Sheets)		Yes No		og Formatio	Formation (Top), Depth and Datum		I Sample	
Samples Sent to Geolog	gical Survey	Yes No	Nam	e		Тор	Datum	
Cores Taken Electric Log Run		Yes No						
List All E. Logs Run:								
		CASING Report all strings set-o	RECORD Ne	w Used rmediate, producti	on, etc.			
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives	
		ADDITIONAL	CEMENTING / SQL	EEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used		Type and F	Percent Additives		

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
Protect Casing Plug Back TD				
Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?	Yes
Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?	Yes
Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?	Yes

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

No

No

No

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated					Acid, Fracture, Shot, Ce (Amount and King	ement Squeeze Record I of Material Used)	Depth		
TUBING RECORD: Size: Set At:				Packer	r At:	Liner F	Run:	No		
Date of First, Resumed Production, SWD or ENHR.			۶.	Producing N	lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	ər	Bbls.	Gas-Oil Ratio	Gravity
									1	
DISPOSITION OF GAS:					TION:	_	PRODUCTION IN	FERVAL:		
Vented Solo	J L	Used on Lease		Open Hole	Perf.	U Dually	Comp.	Commingled		
(If vented, Su	bmit ACC	D-18.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	Ring Energy, Inc.
Well Name	Wedel Trust 33 3
Doc ID	1223148

### Tops

Name	Тор	Datum
Heebner	4111	
Toronto	4130	
Lansing	4210	
Stark	4524	
Hushpuckney	4576	
Bandera	4768	
Pawnee	4774	
Labette	4794	
Cherokee	4810	
Osage	5312	
Viola	5546	
Arbuckle	5760	

Form	ACO1 - Well Completion
Operator	Ring Energy, Inc.
Well Name	Wedel Trust 33 3
Doc ID	1223148

### 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	1820	35/65 Poz A	840	
Production	7.875	5.5	17	5565	Class A	400	

# 053185 ALLIED OIL & GAS SERVICES, LLC Federal Tax I.D.# 20-5975804

SERVICE POINT:

EMIT TO P.O. BOX 31

SERVICE PUINT:	LED OUT ON LOCATION JOB START JOB FINISH C: 20 Ph. COUNTY 1.05 FINISH COUNTY STATE	west into	OWNER Ring Energy	CEMENT AMOUNT ORDERED 640 SKS (lass A. 670 961, 370 CC, 0.25 16/SLC HO Sech, 200, 5ks (lass A hund.	370 CL, D.25 10/134 Marseal	POZMIX (0) (0) (0) (0) (0) (0) (0) (0) (0) (0)	ASC @ ASC @ 19.38 12723.26 ALM-Class A 640 Sets @ 19.38 12723.26 Calcum Chlonde 1671# @ 1.10 1838.10	Plosed leot = 0 297 475.20 Class A Common 2005/50 17.90 3580.00 Calcum Chlonde Scott 0 1.10 620.40 Plosed Soft 0 2.97 145.50	©	TUIAL TOPS	DEPTH OF JOB 18/14/18/14/18/14/18/14/18/14/18/18/18/18/18/18/18/18/18/18/18/18/18/	MANIFOLD 15:00 275.00 Hardling 953.93 643 @ 275 444.59 Domage 1605.30 ton @ 275 4414.59 Additional Ars 2 446.00 880.00 Additional Ars 2 TOTAL 10633.08	PLUG & FLOAT EQUIPMENT	100 Lubber Plux ) @ 13/100 13/100 MM Jass 14 Plant Wayer 9 447.00 Ouls Share / @ 440.00 Centralitar 5 @ 75.00 375.00	TOTAL 1415.00 SALES TAX (If Any)	DISCOUNT SECO. S/ DS 20 IF PAID IN 30 DAYS	/ mair 22 hoso ret/
EMIT TO P.O. BOX 31 RUSSELL, KANSAS 67665	ATE E-21-14 SEC. TWP. RANGE CAL Nedel Trustas WELL 2 10000000000000000000000000000000000	DLD OR NEW Circle one) North to CR-5	CONTRACTOR TOMCAT 4	YPE OF JOB - Zuchard T.D. 1820 IOLE SIZE /2//4 T.D. 1820 ASING SIZE タッ/タ DEPTH /%/4	200L PIPE DEPTH OOL DEPTH PRES.MAX 1500 PS1 MINIMUM	AEAS. LINE SHOE JOINT 42-00 DEMENT LEFT IN CSG. 42-00 PF	JISPLACEMENT 113 bb/s BQUIPMENT	PUMPTRUCK CEMENTER Edge Look merchan 2 4963-501 HELPER Jaine Merldonado BULKTRUCK * 705-542 DRIVER Manuel Covariabias	# 562 642 DRIVER Dance / Rosales	REMARKS:		CHARGE TO: Ring Energy	STREET ZIP CITY ZIP ZIP	To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or	contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.	PRINTED NAME Clint Andrews	SIGNATURE CLESS And End

# ALLIED .

### CEMENTING LOG

e 8/20/20 ipany ie	014 District Libera Ring Energy Wedel Trust 33	Rig	et No. No	53185 Icat 4 #3	CEMENT DATA Spacer Type	Ddd
	Gray			2	LEAD: Time hrs. Type Class A	
					6% gel, 3% calcium choride, 0.25 lb/sk flo seal Excess 1005	
Data s 5/8 s 7/8	Conductor PTA Surface Internet Trune	diate Squ Moinht Yro	duction	Misc.	Amt.     640     Sks     Yield     1.99     ft²/sk     Density     12.46       TAIL:     Time     hrs.     Type     Class A Common     12.46       2% colorium chlorida     0.51 lh fet flocesol     5xross     1000	9dd
	2	A cikit			WATER Lead 10.9 Gal/sk Tail 5.22 Gal/sk Total 187	PPG BBLS
Depths	Top	Bottom	E	314	Pump Trucks Used: 903-501	
					Bulk Equipment 705-842 562-642	
ine:	BBLS/LIN. FT	TIN	FT/BBL			
Hole:	BBLS/LIN. FT	LIN.	FT/88L		Float Equipment: Manufacturer	
ity Factors	s: BBLS/LIN. FT	CIN.	FT/88L		Shoe: Type Guide Shoe Depth	
b0	BBLS/LIN. FT 0.	.0636 LIN.	FT/BBL		Float: Type Afu Insert Float Valve Depth	
Holes ipe	BBLS/LIN. FT		FT/BBL	13.6037	Centralizers: Quantity 5 Plugs Top 1 Bottom Stage Collars	
sn	BBLS/LIN. FT	LIN.	FT/BBL		Special Equipment	
ations F	BBLS/LIN. FTft t	to CIN.	FT/BBLft	nt	Disp: Fluid Type FRESH WATER Amt 113 bbls Weight 8.33 Mud Type Weight	bbG
PANY REPR ME	RESENTATIVE	ELUII	D PUMPED	DATA	CEMENTER Edger A. Rodriguez	
/PM DI	RILL PIPE ANNULUS CASING	TOTAL FLUID	PUMPED PEI TIME PERIOC	RATE BBLS/MIN	REMARKS	
md					Got to location & spoted trucks	
15					Riged Up Trucks. Rig running casing Coniect on however Mill each and hard circulate until casing room rige down	
					Perform safety meeting	
EI:					Pressure tested lines 1000 psi	
:13	80	S		2	Pump 5 bbls of fresh water	
:16	170	227		~ ~	Pump 640 sks of lead cmt (227 bbls @12.5)	
130	077	07		0	Shutdown / Drop top plug	
:33	110			6.5	Pump 113 bbls of displacement	
:42	230	58		6.5	Cement back to surface. Total of 55 bbls back to pit	
:53	540	100		m	Slow rate to bump plug	
:58	480	113		m	Bumped plug. Landed at 480 psi and took up to 1030 psi. Held for 5 minutes	
8 1					Check floats. 1/4 bbl back	
0 6					Ena job. I data di 25 ppis di cement pack to pic. Dia donin trinke	
					ng down datas Crew leave location	
2						

FINAL DISP. PRESS. 480

PSI

BUMP PLUG TO 1030

PSI BLEEDBACK

1/4 BBLS

THANK YOU





 $\mathcal{A}$ 

# CEMENT MIXING WATER GUIDELINES

Company Name:	Ring Energy	
Lease Name:	Wedel Trust 33	
County	State	2
Water Source:	Gray TANK	ICS
Submitted By:	Date: Edgar A. Rodriguez	)/2014
pH Level	Good Must be l	ess than 8.5
Sulfates	Good Must be less t	than 1,000 PPM
Chlorides	Good Must be less t	than 3,000 PPM
Temperature	70	
COMMENTS		

Thank You

Customer Signature CILST Ale

.

AL, L, IE, D OIL & GAS SERVICES, LLC

> Customer Date Lease Name/No Well Location Supervisor

Ring Energy 8/20/2014 Wedel Trust 33# #3 Gray , Ks Edgar A. Rodriguez Edgar A. Rodriguez, Jaime Maldonado, Manuel Covarrubias, Daniel Rosales,

Equipment Operators

## Performance

WAS THE APPEARANCE OF THE PERSONNEL AND EQUIPMENT SATISFACTORY?	YES	ON
WAS THE JOB PERFORMED IN A PROFESSIONAL MANNER?	YES	NO
WERE THE CALCULATIONS PREPARED AND EXPLAINED PROPERLY?	(YEŜ)	ON
WERE THE CORRECT SERVICES DISPATCHED TO THE JOB SITE?	E)	ON
WERE THE SERVICES PERFORMED AS REQUESTED?	VES	ON
DID THE JOB SITE ENVIRONMENT REMAIN UNCHANGED?	) (3)	ON
DID THE EQUIPMENT PERFORM IN THE MANNOR EXPECTED?	(ES)	ON
DID THE MATERIALS MEET YOUR EXPECTATIONS?	(jes)	ON
WAS THE CREW PREPARED FOR THE JOB?	)(2)	ON
WAS THE CREW PROMPT IN THE RIG-UP AND ACTUAL JOB?	(YES)	ON
WERE REASONABLE RECOMMENDATIONS GIVEN, AS REQUESTED?	9	ON
DID THE CREW PERFORM SAFELY?	C S	ON
WAS THE JOB PERFORMANCE TO YOUR SATISFACTION?	KE3	NO
CUSTOMER SIGNATURE:		

ADDITIONAL COMMENTS:

DATE: 8-21-14

### 6 101 0.5 GAS SERVICES, LLC Federal Tax I.D.# 20-5975804 ంద ALLIED

-

REMİT TO P.O. BOX 31 RUSSELL, KANSAS 67665

SERVICE POINT:

11

DATE 9-4-14	33. 33	TWP. 265	RANGE 30 w	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
Windal 1					1415 00-0	MAD Chil	12:10 PM
LEASE 33	MELL #	m	LOCATION	Capabourd We First	1. 00 0	COUNTY	STATE
				150 · C> ( ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	an cr. 4/	Crew	<b>R</b> 5
OLU UK NEW C	ircle one)		Ner fh	to ck-S, rast Indo	(	-	

CONTRACTOR	1 omcat 4		C
TYPE OF JOB	Production		1
HOLE SIZE 1	11 37-1	D. 5565	6
CASING SIZE S	Ve DI	EPTH S304	
TUBING SIZE	IC	EPTH	Ç ~~
DRILL PIPE	IC	EPTH	1
TOOL	G	EPTH	-1
PRES. MAX 30	00 PS' M	INIMUM	
MEAS. LINE	SF	HOE JOINT 45.00	
CEMENT LEFT IN	1 CSG. 45.00	<u>C</u> +	
PERFS.			
DISPLACEMENT	19 221	5/9	
	FOUTPMEN	E	-14
	NTETAL STONE	"	10

		Kerry Deera
PUMP TRUCK	CEMENT	ER Edner Roder E
# 731-541	HELPER	Jaime Torres
BULK TRUCK		Joins Maldonado
# 593-467	DRIVER	ALEX ALAJA
BULK TRUCK		
112-956 #	DRIVER	ANVES ZUDia

200

### REMARKS:

			Xing Theres	
			CHARGE TO:	

V

1 1 1 1 1 1 1

contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or

TERMS AND CONDITIONS" listed on the reverse side.

we rev V しにした PRINTED NAME.

200 L 3 SIGNATURE

2% gypsea Plusback 12 CLASSI Chente Blend I t, 40 % Fly Ach 5 AMDCthe Xin CEMENT 60 205 CK AMOUNT ORDERED 2255 290 NAMS, 0.15 19/55 (Jus. NaCL, 5.5 70 20 Med. 27.03 WNER

S ( b) Sic Ria / Se 300.00 5978.25 290964, 0.5 % Hills 21.21 12 bbls @\_\_\_\_\_\_ 4 Super Flush AMDC-Cluss Cler Cles

1	1.		
Moseel	S77 @	2.97	169.29
ASBC-Cle	EA INSKO	23.50	4112-50
E1-160	132× @	18.90	2494,80
Seal	S75单 @	0.38	851.50
wed do haver	3450	3.50	154.00
ed Blend	/66515 @		
A Coursen	60 SHS 03	17.90	00.70
WR/FIYASh	% Sics @	9.35	00.012
um Gel	34年 @	1.05	361.20
	0		
	@		
1	0 0		

HS-SLESI TOTAL 12520 3968.89

SERVICE

DEPTH OF JC	)B				SJOY
PUMP TRUCH	K CHARGE	ı	5	099.25	3099.25
	Level.	Yo. R.	0	ohrb	176.00
MILEAGE	Heavy	40 mi	0	7.70	305.00
MANIFOLD _		9	0	275.00	275.00
1-1 and 1 may	584.01 Pt	20	0	2.48	1448.35
Drayoure	1015.6170	N.	0	51-2	26.2612
Combe Plan	baur Ars H3. Lo3	-1 5	60	/ 875.00 440-00 TOTAL	1275-20 2200-00 12174.52
)	-	\$	2		

PLUG & FLOAT EQUIPMENT

ZIP

STATE.

STREET CITY

AFU ELAPPON PLONE Shoe	1	0	545.00	545.00
Latchedown Plum.	-	6	660.00	640,00
Basket.	m	6	375.00	1185,000
Certralmen	5	6	57.00	855.00
Clamp / Stop Collon	1	6	19.00	00.6%
8 23.50 / 25 2	Q.			
			TOTAL	5044.00

SALES TAX (If Any)

TOTAL

344.06 m TOTAL CHARGES

IF PAID IN 30 DAYS 19530 1836-62 DISCOUNT \_

23.50%,05 Net = 0

## ALLIED

In la nor	INCIA STAT	CC LIDERAL # 21	LICKET NO.	22194
ompany	Ring	Energy Inc.	Rig	Tomcat 4
ase	Wedel	Trust 33	Well No	m
unty	Ū	ray		Ks
eld				
sing Data	Conductor Surface	TA	Squeeze	Misc.
ce 51	/2 Type	We	ght 17#	Collar

יישאיויא הקאווא	do	Bo	ttom	5304
Drill Pipe:	BBLS/LIN. FT		LIN. FT/BBL	
Open Hole:	BBLS/LIN. FT		LIN. FT/BBL	
Capacity Factors:	BBLS/UN. FT		LIN. FT/BBL	
Casing	<b>BBLS/LIN. FT</b>	0.0232	LIN. FT/BBL	
Open Holes	<b>BBLS/LIN. FT</b>		LIN. FT/BBL	32.4066
Drill Pipe	<b>BBLS/LIN. FT</b>		- LIN. FT/BBL	
Annulus	<b>BBLS/LIN. FT</b>		- LIN. FT/BBL	
	<b>BBLS/LIN. FT</b>		LIN. FT/BBL	
erforations Fro	E	ft to	¢	Amt

### CEMENTING LOG

	bpg		25%	bdd	1	25%	Ddd	
	8.5		cess	11.7		cess	14.5	1 187
Superflush	ftª/sk Density	e AMDC Class A	lo-seal Exc	ft <sup>a</sup> /sk Density	e ASBC Class A	160, 5 lb kol seal, 0 Exc	ft <sup>a</sup> /sk Density	6.98 Gal/sk Tota
CEMENT DATA Spacer Type	Amt. Sks Yield	LEAD: Time hrs. Type	2% gypseal, 2% NAMS, 2% NaCi, 0.25 fl	Amt. 225 Sks Yield 2.65	TAIL: Time hrs. Type	6 lb NaCi, 5.5% gypseal, 2% gel, 0.8% fl-	Amt. 175 Sks Yield 1.58	WATER Lead 16 Gal/sk Tail

	93-467							
Float Equipment:	Manufa	cturer						
Shoe: Type		AFU FLOA	T SHOE			Depth		
Float: Type		BAFF	Ш			Depth		
Centralizers: Qu	antity	15	Plugs T	do	н	Bottom		
Stage Collars			CEMEN	T BASK	ET (3)			
Special Equipment								
Disp: Fluid Type	FRESH	I WATER	Amt	122	bbls	Weight	8.33	PPG
Mud Type						Weight		

÷	0			_	_						-														
CEMENTER Edgar A. Rodriguez		REMARKS	Got to location & spoted trucks	Rig Up Trucks. Rig running casing	Casing on bottom	Stab cmt head so they can circulate while casing crew rigs down	Performed safety meeting	Plug mouse hole. Plug rat hole. (10 bbis) total to plug	Pressure tested lines 5500 psi	Pump 12 bbls of superflush	Pump 225 sks of lead cmt (106 bbls @11.7)	Pump 175 sks of tail cmt (49 bbls @14.5)	Shutdown / Clean lines / Drop plug	Pump 122 bbls of displacement	Displacement reached cmt	slow rate to bump plug	Sumped plug. Landed at 1270 psi and took up to 1730 psi	Check floats. 1/4 bbl back	End job. Good full returns	kig down trucks	crew leave location				
	ATA	RATE BBLS/MIN						m		m	S	S		7.5	9	m	m								
les 1	ID PUMPED D	PUMPED PER TIME PERIOD																							
The search	FLU	FLUID						10		12	106	49			58	110	122								
VE Q	RES PSI	ANNULUS																							
EPRESENTATI	PRESSU	DRILL PIPE CASING						100	5600	230	120	80		110	280	1140	1270								
COMPANY R	TIME	AM/PM	3:00 am	4:00	9:00	9:10	10:12	10:22	10:40	10:45	10:48	11:15	11:32	11:39	11:47	11:58	12:00 pm	12:03	12:10	12:20	1:30				

BUMP PLUG TO PSI 1270 FINAL DISP. PRESS.

BLEEDBACK PSI 1730

BBLS 1/4

THANK YOU





# CEMENT MIXING WATER GUIDELINES

Company Name:	Ring Energy Inc.	
Lease Name:		1
	Wedel Trust 33	
County	State	
	Gray	
Water Source:		
	TANK	
Submitted By:	Date:	
	Edgar A. Rodriguez	
pH Level	Good Must be less than 8.5	
Sulfates	Good Must be less than 1,000 F	PM
Chlorides	Good Must be less than 3 000 F	M
Temperature	60	
COMMENTS		

Thank You

Customer Signature

U II



ustomer	ate	ease Name/No	/ell Location	upervisor
C	Da	le:	N	Sup

Ring Energy Inc. 9/4/2014 Wedel Trust 33# 3 Gray, Ks Edgar A. Rodriguez

Equipment Operators

Edgar A. Rodriguez, Jaime Torres, Alex Ayala, Andres Zubia,

## Performance

WAS THE APPEARANCE OF THE PERSONNEL AND EQUIPMENT SATISFACTORY?	(YES)	NO	
WAS THE JOB PERFORMED IN A PROFESSIONAL MANNER?	(SES)	ON	
WERE THE CALCULATIONS PREPARED AND EXPLAINED PROPERLY?	(ES)	ON	
WERE THE CORRECT SERVICES DISPATCHED TO THE JOB SITE?	(ES)	NO	
WERE THE SERVICES PERFORMED AS REQUESTED?	(YES)	NO	
DID THE JOB SITE ENVIRONMENT REMAIN UNCHANGED?	(ES)	NO	
DID THE EQUIPMENT PERFORM IN THE MANNOR EXPECTED?	(ES)	NO	
DID THE MATERIALS MEET YOUR EXPECTATIONS?	(YES)	NO	
WAS THE CREW PREPARED FOR THE JOB?	(ES)	NO	
WAS THE CREW PROMPT IN THE RIG-UP AND ACTUAL JOB?	(YES)	NO	
WERE REASONABLE RECOMMENDATIONS GIVEN, AS REQUESTED?	(ES)	NO	
DID THE CREW PERFORM SAFELY?	(ES	ON	
WAS THE JOB PERFORMANCE TO YOUR SATISFACTION?	(KES)	ON	
CUSTOMER SIGNATURE:	)		

ADDITIONAL COMMENTS:

DATE: G - Y - / Y

_	-	1	1	-	1	T	 1

	DRILL STEM TES	T REPC	RT	
	Ring Energy		33-26s-30w G	iray Co. KS
ESTING, INC	P.o Box 11350		Wedel #33	
	Midland TX. 79702		Job Ticket: 57720	D DST#: 1
NOK.	ATTN: Austin Garner		Test Start: 2014.	08.26 @ 17:32:00
GENERAL INFORMATION:				
Formation:MorrowDeviated:NoTime Tool Opened:Time Test Ended:20:44:40	ft (KB)		Test Type: Con Tester: Will Unit No: 71	ventional Bottom Hole (Real-Time) MacLean
Interval:4970.00 ft (KB) To50Total Depth:5006.00 ft (KB) (ThHole Diameter:7.88 inchesHole	<b>106.00 ft (KB) (TVD)</b> /D) e Condition: Good		Reference Elevat KB to G	ions: 2806.00 ft (KB) 2797.00 ft (CF) R/CF: 9.00 ft
Serial #: 8674InsidePress@RunDepth:psigStart Date:2014.08.26Start Time:17:32:00TEST COMMENT:IF- Hit a Bridge or	@ 4972.00 ft (KB) End Date: End Time: r Shoe around 1810'	2014.08.26 20:44:40	Capacity: Last Calib.: Time On Btm: Time Off Btm:	8000.00 psig 2014.08.26
Pressure vs. T	ime T		PRESSURE	SUMMARY
50% Presure 500 500 500 500 500 500 500 50	BCH Tempone 504 Tempone 504 50 50 50 50 50 50 50 50 50 50	Time (Min.)	Pressure Temp A (psig) (deg F)	Annotation
Recovery			Gas R	ates
Length (ft) Description	Volume (bbl)		Choke (inches	s) Pressure (psig) Gas Rate (Mct/d)

	DRILL STEM TEST REPOR	RT	FLUID SUMMARY
	Ring Energy	33-26s-30w Gray Co	. KS
ESTING, INC	P.o Box 11350	Wedel #33	
	Midland TX. 79702	Job Ticket: 57720	DST#:1
NOW.	ATTN: Austin Garner	Test Start: 2014.08.26 @	17:32:00
Mud and Cushion Information			
Mud Type: Gel Chem Mud Weight: 9.00 lb/gal Viscosity: 45.00 sec/qt Water Loss: 8.79 in <sup>3</sup> Resistivity: ohm.m Salinity: 5000.00 ppm Filter Cake: inches	Cushion Type: Cushion Length: Cushion Volume: Gas Cushion Type: Gas Cushion Pressure:	Oil API: ft Water Salinity bbl psig	deg API /: ppm
Recovery Information			
	Recovery Table	Value	
Leng ft	th Description	bbl	
Num Fluid Samp Laboratory Nan Recovery Comr	oles: 0 Num Gas Bombs: 0 ne: Laboratory Location: ments:	Serial #:	

Printed: 2014.08.27 @ 07:42:31

Ref. No: 57720

Trilobite Testing, Inc



Wedel #33

DST Test Number: 1

Serial #: 8674 Inside

Ring Energy



			7											W	ATER-BAS	E MUD REP	PORT
													Rep	ort #	18	Measu	red Depth
														THUR	SDAY	5,9 TVD (F	900 ft (stimated)
							NA	TION	NWIDE: 8	800-395-9332	ſ	T	Date	e 4	4-Sep-14	100(8	Stimated)
		ML		<b>NPANY</b>								$\mathbf{P}$	Spu	id ,		Preser	nt Activity
					26						Ĺ		Date	e 1	8-Aug-14	RIG UP CA	ASING CREW
Operator		RIN	<b>G</b> ENER	GY			Co	ntract	tor		том	CAT				Rig #	4
Report for		0.1					_							_		Sec-T-R or	Abs
Roportion		CLI		KEWS			Re	port f	or	05		IAR I	INE	Z		S33 T2	26S R31R
	Well Nam	e and No.			Field	or B	lock				Cou	inty				State	KANSAS
ווופס		XUSI 33-3		CASING			M								CIP		
			Conductor				Ann		String	Bump #1		1A . #2	0/		Dump Br	COLATION	DATA
Dit Size	15 JE	ets	Conductor	set @	1.1	). 	Ann	uius	String		Pump	)#2	-7		PumpPre	Ann Valasi	
/ //8	15 15		30	5	29.0	000	22	<u>.</u> 9	/8	6.1 X 17.3	6.1 X	17.3		5%	011/20	Ann velocit	les
DP Size	ID	Length	Surface	set @	1.1	).	Pr	ts	Storage	Bbl/Stk	BDI/S	Stk	Т	otal	OH/DC	OH/DP	CSG/DP
4 1/2	3.826	5,289	8 5/8	1,810	7.9	21	20	)0		0.1485	0.14	85	0	utput	433	238	234
DP Size	ID	Length	Interm.	set @	1.0	).	Tot	. Circ.	. Volume	Stk/min	Stk/r	nin	Ga	al/min		Minutes	Strokes
								50	)8	65			4	405	Sur-Bit	8	527
BHA	ID	Length	Prod.	set @	1.0	).	Mud	— п	IGNITE	Bbl/min	Bbl/r	nin	Bb	ol/min	Bott-Up	24	1,546
6 1/4	2.250	611					Туре	_		9.65			9	9.65	Surf-Surf	32	2,072
В	BIT & HYDR	AULIC DATA	1				S	OLID	S CONTRO	DL EQUIPMENT					Tot-Circ	53	3,419
Bit Type	HX GX30C	P Bit	508		Hrs	Scre	en Size			DISC-ppg	DISC-	gpm	F	IRS	FLUI	D SPECIFIC	ATIONS
Bit No.	4	% P Bit		Shaker 1				De-S	Sander						Mud Weigl	nt	8.8-9.0
A <sub>n</sub>	0.5177	HHP Bit	120	Shaker 2				De-S	Silter						Viscosity		<b>55-60</b>
V <sub>n</sub>	251	HHP/in <sup>2</sup> Bit	2.47	Shaker 3				Cent	trifuge						API Filtrate	•	<10
Fi	474	Sys HHP		Shaker 4				Cent	trifuge						LCM (lb/bb	ol)	5
Washout	%	%Sys HHP		ST	EEL P	ITS		Mud	CInr.						рН		10-11.5
	<u>.</u>		MUD PROF	PERTIES								MA	TER	IAL IN	/ENTORY	<u>.</u>	
Sample from	n			IN						Materia	ls	Initi	al	Rec'd	Used	Balance	Total Used
Time Sample	e Taken			04:30						60/40 BLEND		3	85			385	429
Sample Terr	nperature (°	F)		100						ALUMINUM ST	FEARATE		5			5	0
Depth (ft)				5,900						CAUSTIC SOL	DA		49			49	71
Weight (lb/g	al)			9.00						FRESH GEL		1	84			184	866
Funnel Visc	ositv (sec/a	t)		57						LIGNITE			70			70	98
Plastic Visc	osity (cP)	0	°F	18						LIME			27			27	23
Vield Point (	(Ib/100 ft <sup>2</sup> )	6	•	16						SOAP STICKS							50
Gol etronath	(10,100 IL)	0 min) (lb/10	0 ft <sup>2</sup> )	15 / 10					1				2			2	47
Mud Gradie	nt (nei/ft)		,0 it )	0.468	/		/		/				50			50	
ADI Eiltrato	(m1/20 min)			0.400									50			50	0
				3.0									-			1	10
Coke Thicks	) (IN/Out			3 3						ZPAC R			-			-	19
	ness (32na)			2	/			'	/				-				0
Solids (% b)	y volume un	corrected)		5.0									-				0
Oil Content	(% by vol)	S.0	ə.= <b>0.8</b> 4	0.0									-				0
Water Conte	ent (% by vo	olume)		95.0									-				0
Sand Conte	nt (% by vo	lume)		0.00									-				0
Methylene E	Blue Test (p	pg equiv.)		23									-				0
pH (Whole M	Nud / Filtrat	e)		10.5   10.1				/					-				0
Mud Alkalin	ity(Pm) (mL	of N/50 H <sub>2</sub> S	O <sub>4</sub> )	1.1						FORK LIFT W/	OPERAT		-				4
Filtrate Alka	linity (Pf/Mf	) (mL- N/50 l	H₂SO₄)	0.7   1.4				/		TRUCKING			-				6
Chlorides (n	ng/L)			3,300						24 HOUR SER	VICE		-	1	1		18
Total Hardn	ess (mg/L)			60						PALLETS			-				35
Low Gravity	/ Solids (% I	oy volume)		4.84						SHRINKWRAF	<b>)</b>		-				27
Low Gravity	/ Solids (Ib/I	obl)		44.04						SubTotal							\$900.00
High Gravity	y Solids %	-		-0.03						Transportation	1						
High Gravity	y Solids (lb/	bbl)		0.00						Tax @	7.250%						\$0.00
Drill Solids	(lb/bbl)			21.04						Cum. Cost C	or				Daily Cost	t <b>S</b>	900.00
Drill Solids	%			2.31						Prev. Cost	t I	\$53.37	3.00		Cum. Cos	t \$5	4.273.00
		F	REMARKS								T	OURLY	(TRI	EATME	NTS		,
REMARKS SET PLUG @ TOP OF ARBUCKLE, LDDP, RIGGING UP CASING CREW @ TIME OF REPORT. FINAL REPORT EST. TOTAL MUD COST \$54.273.00 TOTAL DAYS ON WELL 18 (EXPECTED 11) HORIZON MUD APPRECIATES YOUR BUSINESS AND LOOKS FORW TO FUTURE PROJECTS TOGETHER						ORW	ARD		NO TILA								
							_	_					_				
	P-RATE	BIT INFORM	MATION/VO	LUME ANA	LYSIS						RHE	OLOG	CAL	PROP	ERTIES		
ROP			Tot	al Cum. Hol	e Loss	es	(	)	600 RPM	52	Ann S	Sec.	0	H/DC	OH/DP	CSG/DP	CSG/DC
WOB			Tot	al Cum. Jett	ted		2,6	90	300 RPM	34	Sec. Len	igth	(	611	3479	1810	
RPM'S Strin	ng/Motor		En	ding Volume		A 71 -	50	80	200 RPM	25	Ann Vel,	tt/min	- 4	433	238	234	0
Bit Type				HOLI	E DEV	ATIC	N			18	Crit Vel,	it/min		438	352	195	434
Starting Volu		49	2						O KPM	5 /	Crit GPN	n	- ^	+1U 787	1 554	აპ/ 1 520	419
Oil Additions	0113		———————————————————————————————————————							K FACTORS	Real am	1	2	.840	2 840	2 840	2 840
Whole Mud /	Additions		<b> </b>	MISCEL	LANE	วบร	INFO		n <sub>nine</sub>	0.6126	Re <sub>c</sub> Turk	)	3	,640	3,640	3,640	3.640
Total Additio	ns	0	) Tot	al Depth (M	D)		5,9	00	K <sub>pine</sub> ,	3.8087	Eff VisAr	n	Ē	30	62	63	- , *
Bbls Jetted			Tot	al Depth (T)	VD)		5,9	00	n <sub>ann</sub>	0.4600	Flow Typ	e	L	.AM	LAM	LAM	LAM
Solids Contro	ol Losses		Tot	al Days on V	Well		1	8	K <sub>ann</sub> ,	9.8634	Notable	e Dept	hs:		-		
Surface Loss	ses		КО	P					Hyd. Head	2,761	l						
Hole Losses			EO	C					ECD	9.62	Time Or	n/Off L	ocat	tion:			
∟ngineer	WES W	ESTERN		STO			24	<u>+ НОЦ</u>	JK SERVIC		PHON	E #'S	MO		ļ	580 339 07	95
				LIB	CKAL	<b>N</b> 3		(	000) 393-	3332			I U U	VI 🗖			

The information in this report is based on our experience and represents our best judgem

nt in the matter and is intended to be helpful, but we can THANK YOU FOR THE BUSINESS!

not assume responsib

for any Ic

nt that may result from its use