Confidentiality Requested:

Yes No

#### Kansas Corporation Commission Oil & Gas Conservation Division

1252838

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:		SecTwpS. R East _ West			
Address 2:		Feet from North / South Line of Section			
City: S	State:	Feet from East / West Line of Section			
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.xxxxxx)			
Wellsite Geologist:		Datum: NAD27 NAD83 WGS84			
Purchaser:		County:			
Designate Type of Completion:		Lease Name: Well #:			
New Well Re	e-Entry Workover	Field Name:			
□ Oil □ WSW	,	Producing Formation:			
Gas D&A	☐ SWD ☐ SIOW ☐ SIGW	Elevation: Ground: Kelly Bushing:			
☐ Gas ☐ DaA	GSW Temp. Abd.	Total Vertical Depth: Plug Back Total Depth:			
CM (Coal Bed Methane)	_ comp.//bd.	Amount of Surface Pipe Set and Cemented at: Feet			
	re, Expl., etc.):	Multiple Stage Cementing Collar Used? Yes No			
If Workover/Re-entry: Old Well Ir		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 Total Depth:				
<ul><li>□ Deepening</li><li>□ Re-perf.</li><li>□ Plug Back</li></ul>	Conv. to ENHR Conv. to SWD Conv. to GSW Conv. to Producer	Drilling Fluid Management Plan (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:			
☐ ENHR	Permit #:				
GSW	Permit #:	Operator Name:			
_		Lease Name: License #:			
Spud Date or Date Re	eached TD Completion Date or	QuarterSecTwpS. 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 Approved by: Date:							

#### 1252838

Operator Name:				_ Lease	Name: $\_$				Well #:		
Sec Twp	S. R	East W	/est	County	/:						
open and closed, flow	now important tops of for ring and shut-in pressu o surface test, along w	res, whether sl	hut-in pre	ssure read	ched stati	c level, hydr	ostatic press				
	g, Final Logs run to ob ed in LAS version 2.0 o					gs must be	emailed to ke	cc-well-log	gs@kcc.ks.gov	/. Digital	electronic log
Drill Stem Tests Taker (Attach Additional		Yes [	No		L	Ü	nation (Top),	Depth and			Sample
Samples Sent to Geo	logical Survey	Yes [	No		Nam	e			Тор		Datum
Cores Taken Electric Log Run		Yes [	No No								
List All E. Logs Run:											
		Papart all at	CASING		☐ Ne						
	Size Hole	Size Casi		Wei		ermediate, pro Setting		pe of	# Sacks	Type a	and Percent
Purpose of String	Drilled	Set (In O.		Lbs.		Depth		ement	Used		dditives
		ADI	DITIONAL	CEMENTI	NG / SQL	JEEZE RECO	ORD		I	l	
Purpose:	Depth Top Bottom	Type of Cer	Type of Cement # Sacks Used Type and Percent Additives								
Perforate Protect Casing Plug Back TD											
Plug Off Zone											
Did you perform a hydrau	ulic fracturing treatment or	this well?				Yes	No	(If No. skir	o questions 2 an	nd 3)	
-	otal base fluid of the hydra		eatment ex	ceed 350,0	00 gallons		☐ No		question 3)	.u 0)	
Was the hydraulic fractur	ring treatment information	submitted to the	chemical d	lisclosure re	egistry?	Yes	No	(If No, fill o	out Page Three	of the ACC	)-1)
Shots Per Foot		N RECORD - B				Acid	, Fracture, Sho		Squeeze Record	t	Depth
	. ,								,		
TUBING RECORD:	Size:	Set At:		Packer A	At:	Liner Run:	Yes	☐ No			
Date of First, Resumed	Production, SWD or ENH		ucing Meth	od:	ng $\square$	Gas Lift	Other (Exp	ulain)			
Estimated Production Per 24 Hours	Oil B			Mcf	Wate		Bbls.		as-Oil Ratio		Gravity
		I									
DISPOSITION Vented Solo	ON OF GAS:  Used on Lease	Open H	_	IETHOD OF Perf.		TION: Comp.	Commingled		PRODUCTIO	N INTER\	/AL:
	bmit ACO-18.)	Other (S			(Submit		(Submit ACO-4				

Form	ACO1 - Well Completion					
Operator	BEREXCO LLC					
Well Name	Theresa 1-27					
Doc ID	1252838					

## Tops

Name	Тор	Datum
Anhydrite	3046	+87
Anhydrite (base)	3080	+53
Foraker	3647	-514
Topeka	3866	-733
Oread	3990	-857
Lansing A	4086	-953
Lansing B	4144	-1011
Lansing C	4206	-1073
Lansing D	4252	-1119
Lansing E	4294	-1161
Lansing F	4332	-1199
RTD	4400	-1267
LTD	4402	-1269

Form	ACO1 - Well Completion						
Operator	BEREXCO LLC						
Well Name	Theresa 1-27						
Doc ID	1252838						

#### 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	23	306	Common	3%CC, 2%gel

## ALLIED OIL & GAS SERVICES, LLC 064668 Federal Tax I.D. # 20-8651476

SOUTH	ILAKE, TE	XAS 760	92		Daklay &				
DATE 3-18-15	SEC27	TWP.	RANGE 3 K	CALLED OUT	ON LOCATION	JOB START			
LEASE	WELL#	1-27	LOCATION	te Dorold No	6 fdz	COUNTY	STATE		
OLD OR NEW CI			1/2E, 2,	NENE brig			1 1		
CONTRACTOR	Bere	da		V	aue	_			
CONTRACTOR TYPE OF JOB	Ser-fi			OWNER 5			the state of the s		
HOLE SIZE	1289		3461	CEMENT			•		
CASINO SIZE	F18	DEP	TH 347.75	Z AMOUNT OF	RDERED 22.	55/3CIV	C32CR		
TUBING SIZE	······································	DEP		Parasassassassassassassassassassassassass	RDERED <u>ZZ.</u> 2%	gar			
DRILL PIPE TOOL		DEP DEP			<u> </u>		····		
PRES. MAX			IMUM	COMMON	225 2B	@12.20	402750		
MEAS, LINE		SHC	E JOINT	POZMIX _		@			
CEMENT LEFT IN	ICSG. 2	151		GEL	4/23#	@ 250	211.50		
PERFS. DISPLACEMENT	18-3	74 6.	/. /	CHLORIDE	6.35 F		678.50		
DISPLACEMENT		······	<del></del>	ASC		_@ 	·		
	EQUI	PMENT		Materi	20 TO1-S	<u> </u>	4937.50		
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1101		Caul	Beaver		~~~	-@			
BULK TRUCK	IIIII LIX				SHA 0/7	<u> </u>			
	DRIVER 4	يه رويه (د	2 MCG hg	<u>&amp;</u>		@ 			
BULK TRUCK		<i>.</i>	0	·	_	_			
11	DRIVER			HANDLING	243.3 St	@ 280	603.38		
				MILEAGE 🔏	1,1 toux 50	x 293	1526.25		
		ARKS:				IATOTAL			
mix 2	25 5%	g cen	und .						
Dizolare Colnar	dias		ren late	<del></del>	SERVI	CE			
31,5		DIT		DEPTH OF I	OB <i>307.2</i> 9	7 /			
					K CHARGE		5/2,25		
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	·			MANIFOLD	300 30	@ 77500 @ 4.40	- W		
				724.00		_@ <u>_%:E:&gt;</u> _@			
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				15	12.09/45%	TOTAL	88.260.4.		
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To: Allied Oil & O		•	·-	**************************************		_@			
You are hereby re					· · · · · · · · · · · · · · · · · · ·	_@ 	•		
and furnish cemer						_ ~	*		
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SIGNATURE 🔀	1.	41	) //		4.930	3.40 Ne	24.		



## CEMENTING LOG

STAGE NO.

	-/<		· /5	ickel No. 4	/ Jr. D.	CEMENT DATA:
	Distrik			icket No. 4	_	Spacor Type:
40.4.60.11	1. 12 W			Vell No. 1 - 2		Amt, Sks Yield (t³/sk Density PPo
	ace bin			tate		
	スクーノ	365	E	eld		LEAD: Pump Time hrs. Typo Cosm. 370 CC
Mapon	ald N	1/8 2.	12 E, 2	NENE.	te 1707	
CASING DATA:	Conductor	Р	TA 🗍 💲	Squeeze 🔲 Mi	sc 🗌	Amt. 225 Sks Yield 1637 tilysk Density 1502 PPG
55 \$	Surface	Intermedi	ate 🔲 🛮 Pre			TAIL: Pump Time hrs. Type
Size	Type	르니 Weig	ht <u>23 °</u>	Collar		Excess
<del>,</del>	<del></del>					Amt Sks Yield ft³/sk DensityPPC
			<del></del>			WATER: Leadgals/sk Toilsgals/sk Total Bbls
	1/13			7		
Casing Depths: To	op KB	<del></del>	Bottom	Sail 2º	Z	Pump Trucks Used 931-10 and
					<del></del>	Bulk Equip. For It 41- Wayak.
-					<del></del> .	
Drill Pipe: Size	12 4:1	Weight .	1/2	CollarsP.B. to		
Open Holo: Size _		T.D. 5	<u> </u>	P.B. to		Float Equip: Manufacturer
CAPACITY FACTO	ORS:	169	11 1. 10	3bl		Shoo: Type Depth
Casing:						Float: Typo Depth Centralizers: Quantity Plugs Top Btm
Open Holes:	and the second s		• •	3bl		
Drill Pipe:				361		Stage Collers
Annulus:				861		Special Equip.  Disp. Fluid Typo Am /B /Bbls. Weight PPC
Perforations: F				ft. Amt		Mud Type Weight PPC
rectorations.		· · · · · · · · · · · · · · · · · · ·				The state of the s
COMPANY REPR	ESENTATIVE					CEMENTER Landon
TIME	PRESSU	RES PSI		JID PUMPED D	DATA	REMARKS
CAM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
						Hold Safety Meeting
5:30						Sifort aller
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	ľ	July				
	)					



Berexco LLC

27 1S 36W Rawlins KS

2020 N Bramblew ood Wichita KS 67206 Theresa 1-27

Job Ticket: 60824

DST#: 1

ATTN: Bryan Bynog

End Time:

Test Start: 2015.03.21 @ 19:00:00

#### **GENERAL INFORMATION:**

Formation: LKC "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:33:30 Time Test Ended: 03:16:00

Interval:

Start Time:

4025.00 ft (KB) To 4113.00 ft (KB) (TVD)

Total Depth: 4113.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Robert Zodrow 66

Unit No: 66

Reference Elevations:

3133.00 ft (KB)

3122.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6741 Inside

 Press@RunDepth:
 32.34 psig @ 4026.00 ft (KB)

 Start Date:
 2015.03.21
 End Date:

2015.03.22 03:15:59 Capacity:

Tester:

8000.00 psig

Last Calib.: 2015.03.22
Time On Btm: 2015.03.21 @ 21:33:00

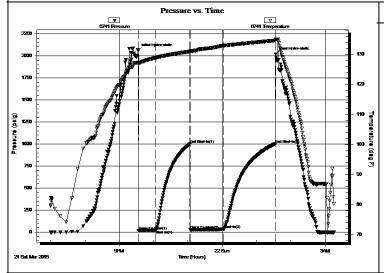
Time Off Btm: 2015.03.22 @ 01:33:30

PRESSURE SUMMARY

TEST COMMENT: 30-IF- Blow built to 1/2" died back to 1/4"

19:00:05

60-ISI- No return 60-FF- No blow 90-FSI- No return



lime	Pressure	lemp	Annotation
(Min.)	(psig)	(deg F)	
0	2056.50	127.18	Initial Hydro-static
1	16.77	126.95	Open To Flow (1)
31	23.17	128.79	Shut-In(1)
91	1000.16	130.87	End Shut-In(1)
91	25.39	130.78	Open To Flow (2)
150	32.34	132.82	Shut-In(2)
240	1000.14	134.50	End Shut-In(2)
241	2018.77	134.91	Final Hydro-static

#### Recovery

Description	Volume (bbl)
Mud w ith oil spots 100%M	0.02
	·

## Gas Rates Choke (inches) | Pressure (psig) | Gas Rate (Mct/d)

Trilobite Testing, Inc Ref. No: 60824 Printed: 2015.03.22 @ 13:09:39



Berexco LLC

27 1S 36W Rawlins KS

2020 N Bramblew ood Wichita KS 67206 Theresa 1-27

Job Ticket: 60824

DST#: 1

ATTN: Bryan Bynog

Test Start: 2015.03.21 @ 19:00:00

Test Type: Conventional Bottom Hole (Initial)

#### GENERAL INFORMATION:

Formation: LKC "A"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:33:30 Tester: Robert Zodrow

Time Test Ended: 03:16:00 Unit No: 66

Interval: 4025.00 ft (KB) To 4113.00 ft (KB) (TVD) Reference Elevations: 3133.00 ft (KB)

Total Depth: 4113.00 ft (KB) (TVD) 3122.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 11.00 ft

Serial #: 8521 Outside

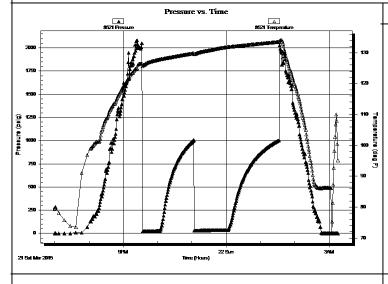
 Press@RunDepth:
 psig
 @ 4026.00 ft (KB)
 Capacity:
 8000.00 psig

Start Date: 2015.03.21 End Date: 2015.03.22 Last Calib.: 2015.03.22

Start Time: 19:00:05 End Time: 03:15:59 Time On Btm: Time Off Btm:

TEST COMMENT: 30-IF- Blow built to 1/2" died back to 1/4"

60-ISI- No return 60-FF- No blow 90-FSI- No return



Time	Pressure	Temp	Annotation	
(Min.)	(psig)	(deg F)		

PRESSURE SUMMARY

#### Recovery

Length (ft)	Description	Volume (bbl)
5.00	Mud with oil spots 100%M	0.02
<u> </u>	+	+

## Gas Rates Choke (inches) | Pressure (psig) | Gas Rate (Mct/d)

Trilobite Testing, Inc Ref. No: 60824 Printed: 2015.03.22 @ 13:09:39



**FLUID SUMMARY** 

deg API

ppm

Berexco LLC

27 1S 36W Rawlins KS

2020 N Bramblew ood Wichita KS 67206 Theresa 1-27

Serial #:

Job Ticket: 60824

DST#:1

ATTN: Bryan Bynog

Test Start: 2015.03.21 @ 19:00:00

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type: Oil API:

Mud Weight: 9.00 lb/gal Cushion Length: ft Water Salinity:

Mud Weight: 9.00 lb/gal Cushion Length: ft
Viscosity: 76.00 sec/qt Cushion Volume: bbl

Water Loss: 6.40 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 800.00 ppm
Filter Cake: 2.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
5.00	Mud with oil spots 100%M	0.025

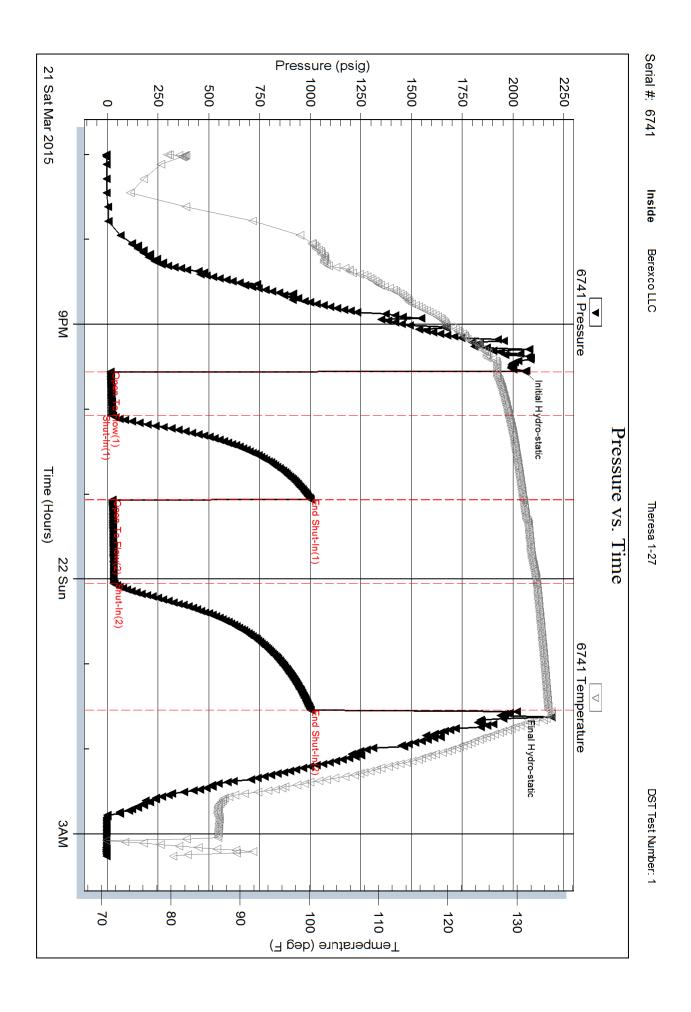
Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 60824 Printed: 2015.03.22 @ 13:09:40



Trilobite Testing, Inc

Ref. No:

60824

Printed: 2015.03.22 @ 13:09:40

Trilobite Testing, Inc

Ref. No: 60824

Printed: 2015.03.22 @ 13:09:40



Berexco LLC

27 1S 36W Rawlins KS

2020 N Bramblew ood

Wichita KS 67206

Theresa 1-27

Job Ticket: 60825

DST#: 2

ATTN: Bryan Bynog Test Start: 2015.03.22 @ 17:20:00

**GENERAL INFORMATION:** 

LKC "B&C" Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:08:00 Time Test Ended: 03:24:00

Interval:

4095.00 ft (KB) To 4225.00 ft (KB) (TVD)

Total Depth: 4225.00 ft (KB) (TVD)

7.88 inches Hole Condition: Fair Hole Diameter:

Test Type: Conventional Bottom Hole (Reset)

Unit No: 66

Robert Zodrow

Reference Elevations:

3133.00 ft (KB) 3122.00 ft (CF)

KB to GR/CF: 11.00 ft

Serial #: 6741 Inside

Press@RunDepth: 4096.00 ft (KB) 482.27 psig @

Start Date: 2015.03.22 End Date: Start Time: 17:20:05

End Time:

2015.03.23

03:24:00

Capacity:

Tester:

8000.00 psig

Last Calib.: Time On Btm:

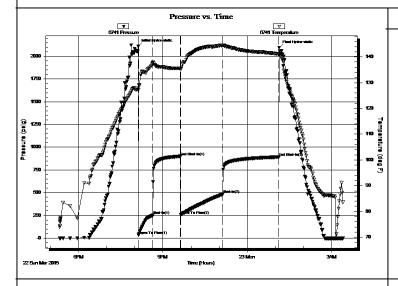
2015.03.23 2015.03.22 @ 20:07:30

Time Off Btm:

2015.03.23 @ 01:08:30

TEST COMMENT: 30-IF- Bob in 12 mins

60-ISI-No return 90-FF- Bob in 21 mins 120-FSI- No return



#### PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	2107.95	127.87	Initial Hydro-static
1	31.57	127.16	Open To Flow (1)
31	251.37	137.64	Shut-In(1)
90	900.63	135.60	End Shut-In(1)
91	255.83	135.27	Open To Flow (2)
181	482.27	144.47	Shut-In(2)
300	892.43	141.10	End Shut-In(2)
301	2093.52	140.97	Final Hydro-static

#### Recovery

Length (ft)	Description	Volume (bbl)
820.00	MW 15%M 85%W	8.06
180.00	WM 10%W 90%M	2.63
60.00	OCM 2%O 98%M	0.88
* Recovery from mult	tiple tests	

#### Gas Rates

Choke (inches) Pressure (psig) Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 60825 Printed: 2015.03.23 @ 05:57:11



**FLUID SUMMARY** 

Berexco LLC

27 1S 36W Rawlins KS

2020 N Bramblew ood Wichita KS 67206 Theresa 1-27

Job Ticket: 60825

DST#: 2

ATTN: Bryan Bynog

Test Start: 2015.03.22 @ 17:20:00

#### **Mud and Cushion Information**

Mud Type: Gel Chem Cushion Type: Oil API: deg API

Viscosity: 59.00 sec/qt Cushion Volume: bbl

Water Loss: 6.80 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 900.00 ppm Filter Cake: 2.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
820.00	MW 15%M 85%W	8.061
180.00	WM 10%W 90%M	2.632
60.00	OCM 2%O 98%M	0.877

Total Length: 1060.00 ft Total Volume: 11.570 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location: Recovery Comments: RW .325 @ 54 Deg F = 35000

Trilobite Testing, Inc Ref. No: 60825 Printed: 2015.03.23 @ 05:57:11

Trilobite Testing, Inc

Ref. No: 60825

Printed: 2015.03.23 @ 05:57:11



Berexco LLC

27 1S 36W Rawlins KS

2020 N Bramblew ood Wichita KS 67206 Theresa 1-27

Tester:

Unit No:

Job Ticket: 65001

DST#:3

3122.00 ft (CF)

ATTN: Bryan Bynog

Test Start: 2015.03.23 @ 15:30:00

#### **GENERAL INFORMATION:**

Formation: LKC "D&E"

Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Reset)

Time Tool Opened: 17:43:30 Time Test Ended: 00:37:00

Interval:

4215.00 ft (KB) To 4310.00 ft (KB) (TVD) Reference

Total Depth: 4310.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 3133.00 ft (KB)

Robert Zodrow

66

KB to GR/CF: 11.00 ft

Serial #: 6741 Inside

Press@RunDepth: 54.49 psig @ 4216.00 ft (KB) Capacity: 8000.00 psig

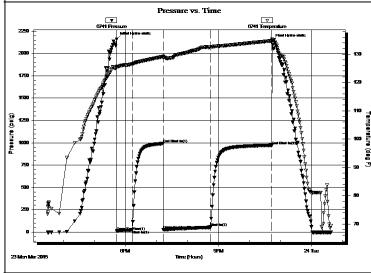
 Start Date:
 2015.03.23
 End Date:
 2015.03.24
 Last Calib.:
 2015.03.24

 Start Time:
 15:30:05
 End Time:
 00:37:00
 Time On Btm:
 2015.03.23 @ 17:43:00

 Time Off Btm:
 2015.03.23 @ 22:43:30

TEST COMMENT: 30-IF- Blow built to 3/4"

60-ISI- No return 90-FF- No blow 120-FSI- No return



	PRESSURE SUMMARY						
	Time	Pressure	Temp	Annotation			
	(Min.)	(psig)	(deg F)				
	0	2160.05	125.45	Initial Hydro-static			
	1	12.47	125.33	Open To Flow (1)			
	30	24.93	126.45	Shut-In(1)			
,	90	991.81	129.09	End Shut-In(1)			
3	91	27.30	128.70	Open To Flow (2)			
	181	54.49	132.41	Shut-In(2)			
,	300	972.41	134.68	End Shut-In(2)			
9	301	2139.41	135.25	Final Hydro-static			

#### Recovery

Length (ft)	Description	Volume (bbl)
60.00	MUD 100%M	0.30
* Recovery from mul	tiple tests	•

Gas Rat	es	
Choko (inchos)	Proceuro (peig)	Gas Pato (Mof/d)

Trilobite Testing, Inc Ref. No: 65001 Printed: 2015.03.24 @ 03:50:34



**FLUID SUMMARY** 

deg API

ppm

Berexco LLC

27 1S 36W Rawlins KS

2020 N Bramblew ood Wichita KS 67206 Theresa 1-27

Job Ticket: 65001

Serial #:

DST#:3

ATTN: Bryan Bynog

Test Start: 2015.03.23 @ 15:30:00

**Mud and Cushion Information** 

Mud Type: Gel Chem Cushion Type:

Mud Weight: 9.00 lb/gal Cushion Length: ft

Oil API: Water Salinity:

Cushion Length: ft
Cushion Volume: bbl

55.00 sec/qt Cushion Volume:
6.80 in<sup>3</sup> Gas Cushion Type:

Gas Cushion Pressure: psig

Salinity: 1600.00 ppm Filter Cake: 3.00 inches

**Recovery Information** 

Viscosity:

Water Loss:

Resistivity:

Recovery Table

Length Description Volume bbl

60.00 MUD 100%M 0.295

Total Length: 60.00 ft Total Volume: 0.295 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

ohm.m

Trilobite Testing, Inc Ref. No: 65001 Printed: 2015.03.24 @ 03:50:35

Trilobite Testing, Inc

Ref. No:

65001

Printed: 2015.03.24 @ 03:50:35

# ALLIED OIL & GAS SERVICES, LLC 064161 Federal Tax I.D. # 20-8651475

REMIT TO P.O. BOX 93999 SOUTHLAKE, TEXAS 76092	SERVICE POINT:
DATE 3-25-15 SEC. 7 TWP. S RANGE 36 W C	ALLED OUT ON LOCATION JOB START JOB FINISH
A 1	
LEASE LECKS WELL# 12 LOCATION M. 6 1)0	nald N to Rd Z, Kawlins KS
OLD OR NEW (Circle one) 1/2 E N = P	into
CONTRACTOR Keredio 10	OWNER Same
HOLE SIZE 778 T.D. 4660	CEMENT
CASING SIZE DEPTH	AMOUNT ORDERED 255 SKS / ite
TUBING SIZE DEPTH DRILL PIPE 4/2 DEPTH 3040	60/40/41.gel 14#. Flo-seal
DRILL PIPE 412 DEPTH 3060' TOOL DEPTH	
PRES. MAX MINIMUM	COMMÖN @
MEAS. LINE SHOE JOINT	POZMIX@_
CEMENT LEFT IN CSG. PERFS.	GEL@
DIGDI A OFFICE THE STATE OF THE	CHLORIDE @@
EQUIPMENT	ASC @ 1892 4834,65
C —	Flo-seal 64 # @ 297 190,08
PUMPTRUCK CEMENTER and France -	@
# 1/00 HELPER Standon Wilkinson	Material Total @ 5014.68
BULK TRUCK	- (2015 87 /403)
# 890/241 DRIVERGEORGE COTONT	
BÜLK TRUCK  # DRIVER	@
# DRIVER	HANDLING 273.8744 @ 2.48 679.20
THE TIME A A PRINTED	MILEAGE 11.44 lons v. 50 mins 2.75 1573.00
REMARKS:	TOTAL
Mix 50sks @ 3010 Displace of mod	( )
my 100sts (@ 3070; 1)5/dies w/ mod mix 50sts @ 3(00)	SERVICE
mix 10 sks w/plug @ 40	DEPTH OF JOB
my 30 sts in Ritt	PUMP TRUCK CHARGE 260.47
mio 15 sks in m. H	EXTRA FOOTAGE@
1 1 0 ca 2	MILEAGE MIHA 50 @ 7.70 385,00
Pay 1 Cto	A CANADON D
and the same of th	MANIFOLD @ 4.40 11/(
	MANIFOLD @ 4.40 N/C
CHARGETO: Berexco //c	m/LV 50 @ 4.40 N/C
	m/LV 50 @ 4.40 N/C
STREET	m/LV 50 @ 4.40 N/C
	m/LV 50 @ 4.40 N/C
STREET	
STREET	M/LV 50 @ 4.40 N/C @  (2095.06/403) TOTAL 5,237.67  PLUG & FLOAT EQUIPMENT  85 /8 Norden Plug @ 110.60
STREET STATE ZIP	
STREET STATE ZIP  To: Allied Oil & Gas Services, LLC.	M/LV 50 @ 4.40 N/C  @  (2095.06/403) TOTAL 5,237.67  PLUG & FLOAT EQUIPMENT  \$\frac{55/8}{\text{Norden}P/\text{Ug}} @ 170.60  @  @  @  @
STREET STATE ZIP  To: Allied Oil & Gas Services, LLC. You are hereby requested to rent cementing equipment	M/LV   50 @ 4.40 N/C
STREET STATE ZIP  To: Allied Oil & Gas Services, LLC.	M/LV   50 @ 4.40 N/C
CITYSTATEZIP  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	M/LV 50 @ 4.40 N/C  @  (2095.06/403) TOTAL 5,237.67  PLUG & FLOAT EQUIPMENT  \$\frac{55/8}{\text{Norden}P/\text{Ug}} @ 170.60  @  @  @  @
CITYSTATEZIP  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"	M/LV 50 @ 4.40 N/C  @  (2095.06/403) TOTAL 5,237.67  PLUG & FLOAT EQUIPMENT  S5 /8 Norden Plug @ 110.60  @  TOTAL 110.00
CITYSTATEZIP  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	M/LV   50 @ 4.40   M/C
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.	M/LV   50 @ 4.40   M/C
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"	M/LV   50 @ 4.40   M/C
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.	M/LV   50 @ 4.40   M/C



## CEMENTING LOG

STAGE NO.

, , ,	Berexe	o Oak		Ticket No. <b>(o.9</b> ) Rig <b>T<i>Zelrec</i> (c.c</b>	70	AmtSks Yield	_ ft³/sk Density PP
Lease_	resec			Well No	27		
County/	Sawlins	21		State <u>K.S</u>			
Location	2/-/-	$\varphi$	i	Field		LEAD: Pump Time	hrs. Type
CASING DATA	: Conductor	П	рта	Squeeze M	lisc 🎵		Excess
	Surface			roduction Li		Amt Sks Yield TAIL: Pump_Time	1
Size	Туре			Collar		ME Flo-scal	Evense
					******	Amt. 255 Sks Yield 1.42	ft³/sk Density / J. A. D. PPG
						WATER: Lead <u> </u>	gals/sk Total Bbls
	·						·
Casing Depths:	Top		_ Bottom			Pump Trucks Used 122 - Bran	don
					<del></del>	Bulk Equips 10/211- Ocorge	
<del></del>							
Drill Pipe: Size	4/7	Weight		Collars			
Open Hole: Size		T.D	600 ft.	P.B. to 30 67	) ft.	Float Equip: Manufacturer	
CAPACITY FACT						Shoe: Type	
Casing:			Lin. ft./I	3bl		float: Type	
Open Holes:				3bl		Centralizers: Quantity Plugs Top	
Drill Pipe:				ЗЫ		Stage Collare	
Annulus:			•	3bl		Special Equip. 53/8 Moeda	n plug
	*			3bl		Disp. Fluid Type War Amt.	Bbls. WeightPPG
Perforations:	rom	ft, to	)	ft. Amt		Aud Type 5 / 30	Weight PPG
		,	····			010	
COMPANY REPF	RESENTATIVE					CEMENTER PART S	
TIME	PRESSU	RES PSI	FLU	JID PUMPED I	DATA		
AM/PM	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	REMAR	KS
	07.0.110		1,000	Time I Gried	DOIS IVIII.	Hald Sold	medin
			5	150000		pulson inverter Soa	
· · · · · · · · · · · · · · · · · · ·			2	1.3		mil 50-5k (@ 1306	
			5	18		7.	765
			30	48		Displace at mud	
			5	53		pino water spice	cer
			16	69		min 100 cks @ 00	270' @ 144
			5	74	~~~	washing prings +	/Mrs.
<del>-</del>			13	8		Misplace wimu	d a la l
			8	75		miv systse	360 6 13.5
			3	102		MIN 10 SK 69 SK	is pluy
."			3	105		MINO SUSTINE	M 1L
			>-	100		1118 13 583 /2	M. PT
<u> </u>			· · · · · · · · · · · · · · · · · · ·				
					<del></del>		
						1	

## BEREXCO, LLC. THERESA #1-27 W2NENENW SECTION 27 1S-36W RAWLINS COUNTY, KANSAS

GEOLOGIST WILLIAM B. BYNOG

#### **RESUME**

OPERATOR:

BEREXCO, LLC.

WELL NAME & NUMBER:

THERESA #1-27

LOCATION:

**W2NENENW SECTION 27 1S-36W** 

COUNTY:

**RAWLINS** 

STATE:

KANSAS

SPUD DATE: 3-17-2015

COMPLETION DATE: 3-24-2015

**ELEVATIONS:** 

GL: 3122

KB: 3133

CONTRACTOR:

BEREDCO RIG 10

LOGS: LOG TECH

TYPES: RAG, MICROLOG

WELLSITE ENGINEER:

NONE

MUD COMPANY:

MORGAN MUD

MUD TYPE & ENGINEER:

FRESH CHEMICAL

**GEOLOGIST:** 

WILLIAM B. BYNOG

HOLE SIZE:

7 7/8

MUD LOGGING BY:

**NONE** 

DRILL STEM TEST COMPANY:

TRILOBITE

DRILL STEM TEST:

DST#1 4025-4113, DST#2 4095-4225, and

DST #3 4215-4310

WELL STATUS:

P & A

#### DISCUSSION

Theresa #1-27 1S-36W was drilled a total depth of 4400 feet testing the Lansing Kansas City in Rawlins County, Kansas. This well was drilled with the help of seismic data and well control.

Structurally, Theresa #1-27 came in 24 feet low to the prognosis and low to productive wells in the area.

As a result of running low there were either tight zones with fair shows or wet zones with fair porosity development.

There were minor shows of dead oil up hole in the Foraker and lower Wabaunsee formations, none worthy of a drill stem test. The Lansing A zone was the first good show and was tested on drill stem test #1 recovering only 5 feet of mud with oil spots. The B zone was associated with a good drilling break and had good sample shows. Drill stem test #2 on the B zone recovered 1060 feet of muddy water or watery mud with 60 feet of oil cut mud. The C and E zones both had oil shows and were tested together on drill stem test #3 recovering 60 feet of mud.

Logs agreed with sample evaluation recording fair porosity development but low resistive, porous zones indicating water or depleted reservoirs.

A decision was made to plug and abandon based on the poor drill stem test recoveries and log calculations.

	3500-44	<b>SHALE</b>	red,firm	argillaceo	ous,silty i	in part
--	---------	--------------	----------	------------	-------------	---------

3544-64 LIMESTONE pale gray, slightly hard, fossils, chalky in part, poor vis porosity, no shows

3544-3600 SHALE as above

3600-20 LIMESTONE gray, very hard, dense, chalky in part, poor porosity, no shows abundant Chert white, ornd

3620-44 SHALE red, firm, becoming very silty

**FORAKER** 

3644-58 LIMESTONE white, firm, very oolitic, chalky, poor intergranular porosity, spotty black dead stain, no live oil

3658-81 LIMESTONE dark gray brown, very hard, dense, fossils, poor porosity, no shows with very thin SHALE as above

3681-92 LIMESTONE white, soft, very sandy, chalky, poor vis porosity, no shows

3692-3730 SHALE red, gray, firm, very silty

3730-40 LIMESTONE buff,pale gray,hard,blocky,dense,sandy in part,chalky in part poor porosity,no shows

3740-60 SHALE red, very soft, very argillaceous

3760-70 LIMESTONE buff,very hard,dense,sandy in part,blocky,no shows	
3760-3810 SHALE red, very soft, very argillaceous	
3810-42 LIMESTONE off white, slightly hard, oolitic, chalky, poor vis intergranular pordead black stain, no free oil with thin SHALE as above	sity,spotty
3842-62 SHALE red, very soft, very argillaceous TOPEKA	
3862-3904 LIMESTONE buff,pale yell,very hard,dense,crptoxln, blocky,no shows son orange with thin SHALE as above	ne Chert
3904-26 SANDSTONE translucent, pale yell, unconsolidated, m to coarse grained, round very large grains, good porosity, no shows	ed, some
3964-50 SHALE red, firm, very silty	
3950-79 SHALE red,maroon,firm,silty becoming argillaceous OREAD	
3979-96 LIMESTONE white, firm, micxln, chalky in part, fair crystalline porosity, no sho	ws

3996-4010 LIMESTONE pale gray brown, very hard, very dense, crptoxln, no shows

4010-30 LIMESTONE gray,gray brown ,very hard,very dense,crptoxln, blocky,abundant Chert orange,no shows
4030-60 SHALE black, gray black, firm, fissile, slightly carbonaceous with thin LIMESTONE gray brown, very hard, very dense, blocky, crptoxln, no shows
4060-81 Shale red,soft,very argillaceous LANSING A
4081-90 LIMESTONE off white, firm, oolitic, good oomoldic porspty to even light brown stain, good cut, no free oil
4090-4100 LIMESTONE buff,hard,dense,micxln,poor porosity,no shows
4100-11 SANDSTONE pale gray, friable, very fine to fine good, rounded, wsrtd, fair intergranular porosity, very spotty live light brown stain, poor cut, no free oil with thin SHALE as above
4111-44 SHALE red,soft,argillaceous B
4144-50 LIMESTONE white, firm, oolitic, chalky in part, fair intergranular and pinpoint vuggy porosity, spotty live brown stain, good cut, fair show free oil

4150-54 LIMESTONE as above with black asphalt stain, good cut, no free oil

4154-58 LIMESTONE buff, very hard, dense, crptoxln, no shows
4158-68 SHALE green, firm, fissile
4168-75 LIMESTONE buff, very hard, dense, no shows
4175-4202 SHALE red,soft,very argillaceous
4202-10 LIMESTONE white, firm, chalky, slightly oolitic, poor pinpoint vuggy porosity, spotty black asphalt dead stain, no free oil
4210-20 LIMESTONE pale gray white, slightly hard, very chalky in part, poor vis porosity, no shows
4220-46 SHALE red, firm, fissile, argillaceous D
4246-62 LIMESTONE buff,pale gray,very hard,dense,chalky in part,poor porosity,no shows
4262-90 SHALE as above becoming slightly hard, fissile  E
4290-95 LIMESTONE white, slightly hard, micrpxln, chalky in part, poor crystalline porosity, very spotty faint brown stain, weak cut, no free oil

4295-4306 LIMESTONE white, firm, very chalky, poor vis porosity, no shows
4306-28 SHALE red,soft,very argillaceous  F
r
4328-40 LIMESTONE white, buff, hard, fnly microcrystalline, chalky in part poor porosity, no shows
4340-50 SHALE as above
4350-60 LIMESTONE buff, pale gray, hard, dense, vfny microcrystalline, poor porosity, no shows with thin SHALE as above
RTD 4400'
LTD 4402'