Сс	onfiden	tiality	Requested:
	Yes	ΠN	0

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1244763

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:			
Address 2:	Feet from Dorth / 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 #			
Name:	(e.g. xx.xxxx) (e.gxxx.xxxxx)		
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84		
Purchaser:	County:		
Designate Type of Completion:	Lease Name: Well #:		
New Well Re-Entry Workover	Field Name:		
	Producing Formation:		
	Elevation: Ground: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth:		
□ OG □ GSW □ Temp. Abd			
CM (Coal Bed Methane)	Amount of Surface Pipe Set and Cemented at: Feet		
Cathodic Other (Core, Expl., etc.):	Multiple Stage Cementing Collar Used?		
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 Total Depth:			
Deepening Re-perf. Conv. to ENHR Conv. to SWD	Drilling Fluid Management Plan		
Plug Back Conv. to GSW Conv. to Produ			
_	Chloride content: ppm Fluid volume: bbls		
Commingled Permit #:	Dewatering method used:		
Dual Completion Permit #:			
SWD Permit #:			
ENHR Permit #: GSW Permit #:	Operator Name:		
GSW Permit #:	Lease Name: License #:		
Spud Date or Date Reached TD Completion Date or	Quarter Sec TwpS. R 🔲 East 🗌 West		
Recompletion Date Reached TD 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	1244763
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INCEDUCTIONS. Chause important tang of formations panatrated De	tail all carea. Bapart all final	ponion of drill atoms toots giving interval tootod, 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	Lo	g Formatio	Formation (Top), Depth an		Sample
Samples Sent to Geolog	ical Survey	Yes No	Name			Тор	Datum
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No					
List All E. Logs Run:							
		CASING		Used			
			onductor, surface, inter		ion, 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 / SQUE	EZE RECORD		·	·

Purpose: Perforate	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				D - Bridge Plugs Set/Type Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth		
TUBING RECORD:	Siz	ze:	Set At:		Packer	r At:	Liner R	un:	No	
Date of First, Resumed Production, SWD or ENHR			} .	Producing M	lethod:	ping	Gas Lift	Other (Explain)		
Estimated Production Per 24 Hours		Oil Bb	ls.	Gas	Mcf	Wate	er	Bbls.	Gas-Oil Ratio	Gravity
DISPOSITION OF GAS:				Open Hole	Perf.	OF COMPLE	Comp.	Commingled (Submit ACO-4)	PRODUCTION IN	IERVAL:
(IT vented, Sub	omit ACC	-18.)		Other (Specify)						

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Miller Farms 3
Doc ID	1244763

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	23	515	60-40 POZ	275	2% gel, 3% CC
Production	7.875	5.5	14	3489	60-40 POZ		2% gel, 10 % salt 1/4 PPS Flocele

Office (620) 588-4250

Mai Oil Operations Miller Farms #3 NE-NE-SW-NE (1465' FNL & 1460' Section 33-15s-13w Barton County, Kansas

Page 1

5 1/2" Disposal Casing Set

Contractor:	Southwind Drilling Co. (rig #3)
Commenced:	November 17, 2014
Completed:	November 23, 2014
Elevation:	1981' K.B., 1979' D.F., 1973' G.L.
Casing program:	Surface; 8 5/8" @ 515 Production, 5 ½" @ 3675'
Sample:	Samples saved and examined 3000' to the Rotary Total Depth.
Drilling time:	One (1) foot drilling time recorded and kept 3000' to the Rotary Total Depth.
Measurements:	All depths measured from the Kelly Bushing.
Drill Stem Tests:	There were four (4) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log:	By Nabors Completion and Production Services Co.; Dual Induction, Compensated Density/Neutron Log and Micro.

Formation	Log Depth	Sub-Sea Datum
Anhydrite	938	+1043
Base Anhydrite	968	+1013
Heebner	3130	-1149
Toronto	3148	-1167
Brown Lime	3204	-1223
Lansing	3214	-1233
Base Kansas City	3419	-1438
Arbuckle	3427	-1446
Rotary Total Depth	3675	-1694
Log Total Depth	3676	-1695

All tops and zones corrected to Electric Log Measurement

Res. Claflin (620) 587-3444

Page 2

SAMPLE ANALYSIS, SHOWS OF OIL, TESTING DATA, ETC.

TOPEKA SECTION

- 3072-3090' Limestone, gray, tan, finely crystalline, few fossiliferous, poor visible porosity, cherty in part, no shows.
- 3094-3114' Limestone, cream, tan, finely crystalline, oolitic/fossiliferous, poor intercrystalline porosity, dark brown spotty stain, no free oil and no odor in fresh samples.

TORONTO SECTION

3147-3160' Limestone, white, finely crystalline, poor visible porosity, chalky, few cherty, no shows.

LANSING SECTION

- 3204-3215' Limestone, tan, gray, finely crystalline, few fossiliferous, poor visible porosity, plus gray/cream chert.
- 3236-3245' Limestone, cream, tan, finely crystalline, oolitic, fossiliferous, suboomoldic, chalky, poor visible porosity, brown stain, no free oil and faint odor.
- 3261-3270' Limestone, cream, tan, finely crystalline, oolitic, poor visible porosity, dense, no shows.
- 3274-3290' Limestone, cream, tan, finely crystalline, oolitic in part, sub-oomoldic, poor visible porosity, chalky, no show of oil and faint odor in samples.
- 3290-3306' Limestone, white, cream, finely oolitic, fair pinpoint and fine vuggy porosity, chalky, trace spotty brown stain, no free oil and no odor in fresh samples.
- 3346-3352' Limestone, white, light gray finely crystalline, oolitic, oomoldic, fair oomoldic porosity, golden brown to dark brown stain, show of free oil and good odor.
- 3360-3366' Limestone, white, cream, oolitic, poor to fair vuggy type porosity, light brown stain, show of free oil and fair odor in fresh samples.
- 3378-3390' Limestone, white, cream, finely crystalline, oolitic, poor to fair intercrystalline to vuggy type porosity, golden brown to dark brown stain, show of fee oil and good odor in fresh samples.

Page 3

Drill Stem T	est #1		3328-3397
Times:	30-45	-30-60	
Blow:	Stron	g	
Recovery:			oil and gas cut muddy water 75% water; 10% mud)
Pressures:	ISIP FSIP IFP FFP HSH	894 902 322-743 768-872 1679-1611	psi psi psi psi

ARBUCKLE SECTION

3435-3445'

3426-3435' Dolomite, white, cream, light gray, finely crystalline, poor to fair intercrystalline porosity, golden brown stain, show of free oil and good odor in fresh samples.

Drill Stem T	est #2	3398-3435
Times:	30-45-30-60	
Blow:	Strong	
Recovery:	15' clean oil 55' muddy oil (75% oil; 25% mu	d)
Pressures:	ISIP 186 FSIP 176 IFP 38-42 FFP 50-53 HSH 1702-1661	psi psi psi psi
	wn stain, show of fre	o medium crystalline, fair inter-crystalline ee oil and fair odor, trace pyrite and
porosity, bro	wn stain, show of fre chert.	
porosity, bro white boney	wn stain, show of fre chert.	ee oil and fair odor, trace pyrite and
porosity, bro white boney Drill Stem T	wn stain, show of fre chert. est #3	ee oil and fair odor, trace pyrite and
porosity, bro white boney <u>Drill Stem T</u> Times:	wn stain, show of fre chert. est #3 30-45-45-60	ee oil and fair odor, trace pyrite and <u>3398-3445</u>

Page 4

3445-3455'	Dolomite, buff, fine to medium crystalline, scattered inter-crystalline porosity, dark brown to black stain trace of free oil and faint odor in fresh samples.

	Drill Stem To	est #4		3438-3455
	Times:	30-30-30-30		
	Blow:	Weak		
	Recovery:	10' very slightly (1% oil; 99% mu		
	Pressures:	ISIP 643 FSIP 348 IFP 21-22 FFP 22-23 HSH 1702-1650	psi psi psi psi psi	
3458-3470'			crystalline, poor to fa ack stain, weak show	
3470-3500'			edium crystalline, suc potty stain, no free o	
3500-3540'	Dolomite, tar chert, no sho		sucrosic, poor porosi	ty, trace white/tan
3540-3570'		eam, light gray, fine ne porosity, cherty	e to medium crystallin in part, no shows.	e, poorly developed
3570-3600'	Dolomite, as	above.		
3600-3620'		nite, light gray, fine d chalky luster, no	to medium crystalline shows.	e, few slightly
3620-3640'			lium crystalline, fair ir ite/cream, boney che	-
3640-3660'		nite, cream, fine an an, boney, chert, fe	d medium crystalline, w glauconitic.	scattered porosity,
3660-3675			o medium crystalline rt, glauconitic, no sho	

Rotary Total Depth	3675
Log Total Depth	3676

Page 5

Recommendations:

The 5 1/2" disposal casing set and cemented at 3675.

Respectfully yours,

Kinst Talbott

Kurt Talbott Petroleum Geologist

RILOBITE	DRILL STEM TES			460 4 444	Darton K	<u> </u>	
TESTING, INC		36-16s-14w Barton,KS					
	8411 Preston Road Suite 800 Dallas, TX 75225+5520	8411 Preston Road Suite 800 Dallas, TX 75225+5520			ns #3	DST#	. 4
	ATTN: Kurt Talbot			Ticket: 61 t Start: 20)14.11.21 @		
GENERAL INFORMATION:							
Formation:LKC H-JDeviated:NoWhipstock:Time Tool Opened:14:44:30Time Test Ended:19:47:30	ft (KB)		Test	ter:	Conventional Ken Swinney S1		lole (Initial)
Interval: 3328.00 ft (KB) To 33			Refe	erence 🖽	evations:		0 ft (KB)
Total Depth: 3397.00 ft (KB) (TV Hole Diameter: 7.88 inchesHole	VD) e Condition: Fair			KB t	o GR/CF:		0 ft (CF) 0 ft
						0.0	
Serial #: 6749 Inside Press@RunDepth: 872.50 psig Start Date: 2014.11.21 Start Time: 13:22:00	 3393.28 ft (KB) End Date: End Time: 	2014.11.21 19:47:30	Capacity Last Calit Time On Time Off	b.: Btm: 2	2 2014.11.21 @ 2014.11.21 @	2014.11.2 2) 14:43:3	0
FFP 30 Minutes E	OB in 45 seconds Surface blow back BOB in 1 minute 45 seconds Very weak surface blow back						
Pressure vs. T	Sime The second se						
579		Time (Min.)	PF Pressure (psig)	RESSUR Temp (deg F)	RE SUMMA Annotation		
Pressure vs. 1 090 from an		(Min.) 0	Pressure (psig) 1679.26	Temp (deg F) 92.58	Annotation	n -static	
778 Del Pressure vs. T		(Min.)	Pressure (psig)	Temp (deg F)	Annotation Initial Hydro Open To Fk	n -static	
		(Min.) 0 1 31 75	Pressure (psig) 1679.26 322.94 743.70 894.86	Temp (deg F) 92.58 92.22 94.34 94.65	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In	n static ow (1) (1)	
		(Min.) 0 1 31 75 76	Pressure (psig) 1679.26 322.94 743.70 894.86 768.66	Temp (deg F) 92.58 92.22 94.34 94.65 94.63	Annotation Initial Hydro Open To Flo Shut-In(1) End Shut-In Open To Flo	n static ow (1) (1)	
		(Min.) 0 1 31 75 76 106 165	Pressure (psig) 1679.26 322.94 743.70 894.86 768.66 872.50 908.67	Temp (deg F) 92.58 92.22 94.34 94.65 94.63 95.24 96.55	Annotation Initial Hydro Open To Fit Shut-In(1) End Shut-In Open To Fit Shut-In(2) End Shut-In	n static ow (1) (1) ow (2) (2)	
		(Min.) 0 1 31 75 76 106	Pressure (psig) 1679.26 322.94 743.70 894.86 768.66 872.50	Temp (deg F) 92.58 92.22 94.34 94.65 94.63 95.24	Annotation Initial Hydro Open To Fit Shut-In(1) End Shut-In Open To Fit Shut-In(2) End Shut-In	n static ow (1) (1) ow (2) (2)	
		(Min.) 0 1 31 75 76 106 165	Pressure (psig) 1679.26 322.94 743.70 894.86 768.66 872.50 908.67	Temp (deg F) 92.58 92.22 94.34 94.65 94.63 95.24 96.55 99.82	Annotation Initial Hydro Open To Fit Shut-In(1) End Shut-In Open To Fit Shut-In(2) End Shut-In	n static ow (1) (1) ow (2) (2)	
The provide state of the provi	Colume (bbl)	(Min.) 0 1 31 75 76 106 165	Pressure (psig) 1679.26 322.94 743.70 894.86 768.66 872.50 908.67	Temp (deg F) 92.58 92.22 94.34 94.65 94.63 95.24 96.55 99.82	Annotation Open To Fit Shut-In(1) End Shut-In Open To Fit Shut-In(2) End Shut-In Final Hydro	n static ow (1) (1) ow (2) (2) static	Gas Rate (Mct/d)
Protections Prote	Colume (bbl)	(Min.) 0 1 31 75 76 106 165	Pressure (psig) 1679.26 322.94 743.70 894.86 768.66 872.50 908.67	Temp (deg F) 92.58 92.22 94.34 94.65 94.63 95.24 96.55 99.82	Annotation Open To Fit Shut-In(1) End Shut-In Open To Fit Shut-In(2) End Shut-In Final Hydro	n static ow (1) (1) ow (2) (2) static	Gas Rate (Mcf/d)
Differences Diffe	Colume (bbl)	(Min.) 0 1 31 75 76 106 165	Pressure (psig) 1679.26 322.94 743.70 894.86 768.66 872.50 908.67	Temp (deg F) 92.58 92.22 94.34 94.65 94.63 95.24 96.55 99.82	Annotation Open To Fit Shut-In(1) End Shut-In Open To Fit Shut-In(2) End Shut-In Final Hydro	n static ow (1) (1) ow (2) (2) static	Gas Rate (Mct/d)
elither 2011	Colume (bbl)	(Min.) 0 1 31 75 76 106 165	Pressure (psig) 1679.26 322.94 743.70 894.86 768.66 872.50 908.67	Temp (deg F) 92.58 92.22 94.34 94.65 94.63 95.24 96.55 99.82	Annotation Open To Fit Shut-In(1) End Shut-In Open To Fit Shut-In(2) End Shut-In Final Hydro	n static ow (1) (1) ow (2) (2) static	Gas Rate (Mct/d)
Differences Diffe	Colume (bbl)	(Min.) 0 1 31 75 76 106 165	Pressure (psig) 1679.26 322.94 743.70 894.86 768.66 872.50 908.67	Temp (deg F) 92.58 92.22 94.34 94.65 94.63 95.24 96.55 99.82	Annotation Open To Fit Shut-In(1) End Shut-In Open To Fit Shut-In(2) End Shut-In Final Hydro	n static ow (1) (1) ow (2) (2) static	Gas Rate (Mct/d)

Test Concention into parated 36-165-14W EartOF, RS Miller Farms #3 Job Toket: 62026 DST#: 2 ATTN: Kurt Tabot Test Start: 2014.11.22 @ 02-49:00 SENERAL INFORMATION: Test Type: Conventional Bottom Hole (Initial) Time Test Ended: 08:21:30 Serial #: 238.00 ft (KB) (TVD) Total Copensition: 7.88 incheshole Condition: Fair Serial #: 2014.11.22 End Date: 2014.11.22 Serial #: 67.09 Miller Scale 2014.11.22 00.00 prig Start The: 02:50:00 End Time: 08:21:30 Time Cale Condition: Fair KB to GRUCF: 8.00 ft Serial #: 6740 betti 53.24 psig 3431.00 ft (KB) 2014.11.22 Capacity:: 8000.00 psig Start Date: 2014.11.22 End Date: 2014.11.22 Question: 2014.11.22 Question: Start Date: 2014.11.22 Gold bettion: 11" Pressure Time for Bim: 2014.11.22 Question: Start Date: 2014.11.22 Question: 2014.11.22 Question: 2014.11.22 Questio: 2014.11.22 <t< th=""><th>1005</th><th>RILOBITE</th><th>DRILL STEM TE</th><th>S</th><th>T REPO</th><th>ORT</th><th></th><th></th><th></th><th></th></t<>	1005	RILOBITE	DRILL STEM TE	S	T REPO	ORT				
Delies: TX 75225+5520 Job Ticket: 60226 DST#: 2 ATTN: Kurt Tabot Test Start: 2014.11.22 @ 02:49:00 SENERAL INFORMATION: Test Start: 2014.11.22 @ 02:49:00 Servettion: Arbuckle Deviated: No Direction: Arbuckle Deviated: No The Your Provide Set 1:00 Test Type: Time Test Ended: 08:21:30 Test Fred Depreto: 3324.00 ft (KB) (TVD) fold Deprin: 53.24 psig 3324.00 ft (KB) (TVD) Test Type: fold Deprin: 53.24 psig Sart Table: 2014.11.22 Sart Table:			8411 Preston Road Suite 800			36-16s-14w Barton,KS				
ATTN: Kurt Tablot Test Start: 2014.11.22 @ 02-49:00 SERERAL INFORMATION: Correction: Arbuckle Deviated: No Whipstock: ft (KB) Deviated: No Whipstock: ft (KB) Time Test Ended: 0821:30 Tests Type: Conventional Bottom Hole (Initial) Test Ender: 3435.00 ft (KB) (TVD) Test: Ken environment fold Deprit: 32324 psig 3431.00 ft (KB) Capacity: 800.00 psig Start Table: 2014.11.22 End Date: 2014.11.22 B02.2130 Tree Off Btrr 2014.11.22 @ 06:56:30 Tme Off Btrr 2014.11.22 @ 06:56:30 TEST COMMENT: FP 30 Minutes Bob Ibit 011" FSI 50 Minutes No blow back Tme Off Btrr 2014.11.22 @ 06:56:30 Test Table: 30 42.05 88.68 Start-h(1) 90.27 Start Table: 30 42.05 88.68 Start-h(1) Start Table: Start Anotation Reference Elevatation: Start		ESTING , INC								2
Formation: Arbuckle Deviated: No Winjestock: ft (KB) Ther Fod Openeis 0411:00 Test Type: Conventional Bottom Hole (Initial) Time Tool Openeis 0411:00 Test Type: Conventional Bottom Hole (Initial) Time Test Ended: 08:21:30 Unit No: S1 Interval: 3398.00 ft (KB) To 3435.00 ft (KB) (TVD) 1973.00 ft (CF) Fold Depth: 5324 psig 3431.00 ft (KB) 2014.11.22 B000.00 psig Start Date: 2014.11.22 End Date: 2014.11.22 Capacity: 8000.00 psig Start Date: 2014.11.22 End Date: 2014.11.22 08:21:30 Time On Birrx 2014.11.22 @ 06:56:30 TEST COMMENT: FP 30 Minutes Bob Bio P2 minutes BS S4 5 Minutes No blow back Time Off Birrx 2014.11.22 @ 06:56:30 TEST COMMENT: FP 30 Minutes Bob Biow back Time Off Birrx 2014.11.22 @ 06:56:30 Test Type: Conventional Bottom back Time Off Birrx 2014.11.22 @ 06:56:30 Test Type: Conventional Bottom back Time Off Birrx 2014.11.22 @ 06:56:30 Test Type: Conventional Bottom back Time	W		ATTN: Kurt Talbot							2
Formation: Arbuckle Deviated: No Winjestock: ft (KB) Ther Fod Openeis 0411:00 Test Type: Conventional Bottom Hole (Initial) Time Tool Openeis 0411:00 Test Type: Conventional Bottom Hole (Initial) Time Test Ended: 08:21:30 Unit No: S1 Interval: 3398.00 ft (KB) To 3435.00 ft (KB) (TVD) 1973.00 ft (CF) Fold Depth: 5324 psig 3431.00 ft (KB) 2014.11.22 B000.00 psig Start Date: 2014.11.22 End Date: 2014.11.22 Capacity: 8000.00 psig Start Date: 2014.11.22 End Date: 2014.11.22 08:21:30 Time On Birrx 2014.11.22 @ 06:56:30 TEST COMMENT: FP 30 Minutes Bob Bio P2 minutes BS S4 5 Minutes No blow back Time Off Birrx 2014.11.22 @ 06:56:30 TEST COMMENT: FP 30 Minutes Bob Biow back Time Off Birrx 2014.11.22 @ 06:56:30 Test Type: Conventional Bottom back Time Off Birrx 2014.11.22 @ 06:56:30 Test Type: Conventional Bottom back Time Off Birrx 2014.11.22 @ 06:56:30 Test Type: Conventional Bottom back Time										
Deviated: No Whipstock: ft (KB) Time Tool Opened: 04:11:00 Time Tool Opened: 04:11:00 Time Tool Opened: 04:11:00 Time Tool Opened: 04:10:00 Time Tool Opened: 04:21:00 Time Tool Opened: 04:21:00 Time On Burn: 2014.11:22 Opened: 04:11:22 Open Too Flow Opened: 04:11:22 Time On Burn: 2014.11:22 Open Too Flow Opened: 04:11:22 Time On Burn: 2014.11:22 Open Too Flow Open Too Flow (1) 01:00:00 Time Tool Burn: 2014.11:22 Time Off Burn: 2014.00:00 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
Total Depti: 3435.00 ft (KB) (TVD) 1973.00 ft (CF) Note Clameter: 7.88 inchesHole Condition: Fair KB to GR/CF: 8.00 ft Serial #: 6749 Inside 6000.00 psig 3431.00 ft (KB) Press@RunDepth: 53.24 psig @ 3431.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.11.22 End Date: 2014.11.22 08:21:00 Time: 02:50:00 End Time: 08:21:00 Time Off Btm: 2014.11.22 @ 06:56:30 TEST COMMENT: FP 30 Minutes BOB in 29 minutes Sti 45 Munutes No blow back Time Time Pressure Time Off Btm: 2014.11.22 @ 06:56:30 TEST COMMENT: FP 30 Minutes doe blow balk Time Pressure Time Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30	Deviated: Time Tool Oper	No Whipstock: ned: 04:11:00	ft (KB)			Test	ter: H	Ken S		ble (Initial)
Hole Diameter: 7.88 inchesHole Condition: Fair KB to GRVCF: 8.00 ft Serial #: 5749 Inside Press@RunDepth: 53.24 psig @ 3431.00 ft (KB) 2014.11.22 Bom Date: 2014.11.22 8000.00 psig Start Time: 02:50:00 End Time: 2014.11.22 Capacity:: 8000.00 psig Start Time: 02:50:00 End Time: 2014.11.22 Use Cabbi: 2014.11.22 04:01:00 Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30 TEST COMMENT: FP 30 Minutes BOB in 29 minutes SI 45 Minutes No blow back Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30 Time Off Btm: 2014.11.22 @ 06:56:30 Pressure Time PF 30 Minutes No blow back FFP 30 Minutes Good blow back Time Pressure Time Off Btm: 2014.11.22 @ 06:56:30 Instantion Minutes Good blow back FFP 30 Minutes No blow back Time Pressure Time Off Btm: 2014.11.22 @ 06:56:30 Stant Time: Pressure <td< td=""><td>Interval:</td><td>3398.00 ft (KB) To 34</td><td>35.00 ft (KB) (TVD)</td><td></td><td></td><td>Refe</td><td>erence 🖯e</td><td>vation</td><td>is: 1981.00</td><td>ft (KB)</td></td<>	Interval:	3398.00 ft (KB) To 34	35.00 ft (KB) (TVD)			Refe	erence 🖯e	vation	is: 1981.00	ft (KB)
Serial #: 6749 Press@RunDepth: Inside 53.24 psig @ 3431.00 ft (KB) Start Date: Capacity: 8000.00 psig Last Calb: 2014.11.22 Start Time: 02:50:00 End Time: 08:21:30 Time On Bim: 2014.11.22 04:10:30 Time Off Bim: 2014.11.22 06:56:30 TEST COMMENT: EFP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FPP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FPP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FPP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FPP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FPP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FPP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FPP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FPP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FPP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FPP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back FP 30 Minutes BOB in 29 minutes BI 45 Minutes No blow back Finutes No blow in 10 Minutes BI 45 Bi 166 Bi 166 Bi 166	Total Depth:									. ,
Press@RunDepth: 53.24 psig @ 3431.00 ft (KB) Capacity: 8000.00 psig Start Date: 2014.11.22 End Date: 2014.11.22 Quit.11.22	Hole Diameter:	7.88 inchesHole	Condition: Fair				KB to	o GR/(C⊢: 8.00	ft
SI 45 Minutes No blow back FFP 30 Minutes No blow back FFP 30 Minutes No blow back Pressure vs. Time Pressure vs. Time Pressure (nm.) 0 1702.02 130.42.05 88.68 Shut-h(1) 138.27 186.14 90.27 186.14 196 186 186 186 186 186 186 186 18		epth: 53.24 psig 2014.11.22	End Date:	2		Last Calif Time On I	b.: Btm: 2		2014.11.22 1.22 @ 04:10:30	
Image: Second		FFP 30 Minutes FSI 60 Minutes N Pressure vs. 1	Good blow built to 11" No blow back			PF	RESSUR	ESL	JMMARY	
0 1702.02 89.21 Initial Hydro-static 0 166 165.176.99 90.28 Open To Flow (1) 106 53.24 91.51 Shut-In(2) End Shut-In(2) End Shut-In(2) Final Hydro-static Final Hydro-static Final Hydro-static 166 1661.60 94.73 Final Hydro-static Final Hydro-static 15.00 Description Volume (bbl) Chole (inches) Presure (psig) Gas Rate (Mcd/d)	1789	GPU Pressure	GP49 Temperakare	t	Time					
Image: series of the series		F		5						
30 42.05 88.68 Shut-h(1) 90.27 End Shut-h(1) End Shut-h(1) 90.28 Open To Flow (2) 106 53.24 91.51 165 176.99 93.89 166 1661.60 94.73 Final Hydro-static Final Hydro-static Gas Rates Choke (inches) Presure (psig) 15.00 Clean oil 0.21	1539		N I	•						
Image: constrained with the second	239		I N I	5						
Image: Second constrained of the second				•						
Image: Second constraints Image:		1	1	-mpen					. ,	
Image: Second law 2844 Image: Second law 2844 Image: Second law 2844	700	7 1		-						
Recovery Gas Rates Length (ft) Description Volume (bbl) 15.00 Clean oil 0.21		J		•	166	1661.60	94.73	Final	Hydro-static	
Recovery Gas Rates Length (ft) Description Volume (bbl) 15.00 Clean oil 0.21										
Length (ft) Description Volume (bbl) 15.00 Clean oil 0.21	22 Sal Nov 2014	Recovery					Ga	s Rat	es	
15.00 Clean oil 0.21	Length (ft)		Volume (bbl)				1			Gas Rate (Mcf/d)
55.00 Muddy Emulsified oil Mud 25% Emuls O 0.77 Image: Constraint of the second se	15.00	Clean oil	0.21		L				I	
	55.00	Muddy Emulsified oil Mud	25% Emuls O 0.77							

Ref. No: 62026

Printed: 2014.11.25 @ 13:54:14

10A7	RILOBITE	DRILL STEM TES						
部 '	ESTING , INC	Mai Oil Operations Incorperated	36-16s-14w Barton,KS					
ALC: NO DE LA COMPANY	ESTING, INC	8411 Preston Road Suite 800 Dallas, TX 75225+5520		Miller Farms #3 Job Ticket: 62027 DST#: 3				
		ATTN: Kurt Talbot					DST#: 3 @ 13:39:00	
							_	
GENERAL INF								
Formation: Deviated: Time Tool Opened Time Test Ended:		ft (KB)		Tes Tes Unit	ter:	Convention Ken Swinn S1	al Bottom Hol ey	e (Initial)
	3398.00 ft (KB) To 34	45.00 ft (KB) (TVD)		Ref	erence 🖽	evations:	1981.00	ft (KB)
Total Depth:	3445.00 ft (KB) (T)						1973.00	. ,
Hole Diameter:	7.00 InchesHole	Condition: Fair			KB (o GR/CF:	8.00	
Serial #: 674 Press@RunDept Start Date: Start Time:	-	@ 3441.00 ft (KB) End Date: End Time:	2014.11.22 18:58:00	Capacity Last Cali Time On Time Off	b.: Btm: 2		8000.00 2014.11.22 @ 14:47:30 @ 17:48:30	psig
	FFP 45 Mintues	Slight surface blow back Fair blow built to 7" Slight surface blow back	1			RESUMA		
	CARPESTE	6949 Yempendure	Time	Pressure	Temp	Annotat		
1750	N		(Min.)	(psig)	(deg F)			
			0	1715.54 40.08	83.41	Initial Hyd Open To		
1230			30	45.92	84.80			
			75	199.94	87.85			
			76 121	48.83 59.84	87.88 90.51	Open To Shut-In(2)		
			180	174.19		End Shut-		
	34		181	1651.20	93.67	Final Hyd	ro-static	
	Recovery			I	Ga	s Rates		
Length (ft)	Description	Volume (bbl)			Choke (i	nches) Press	sure (psig) Ga	s Rate (Mcf/d)
	Clean oil	0.07						
60.00 V	WCOM Water 10%/Oil 40	0%/Mud 50% 0.84						
L								

Ref. No: 62027

Printed: 2014.11.25 @ 13:53:51

RILOBITE	DRILL STEM TES	T REPO	ORT				
N.5-1-4	Mai Oil Operations Incorperated		36-16s-14w Barton,KS				
ESTING , INC	8411 Preston Road Suite 800 Dallas, TX 75225+5520			ler Farn Ticket: 62		DST#	4
	ATTN: Kurt Talbot					3 @ 00:35:00	-
GENERAL INFORMATION:							
Formation: Arbuckle							
Deviated: No Whipstock: Time Tool Opened: 01:58:30 Time Test Ended: 05:15:30	ft (KB)		Test Test Unit	ter: ł	Conventi Ken Swi S1	onal Bottom H nney	ole (Initial)
Interval: 3438.00 ft (KB) To 34			Refe	erence Be	vations:) ft (KB)
Total Depth: 3455.00 ft (KB) (TV Hole Diameter: 7.88 inches Hole				KB t	0 GR/CF) ft (CF)) ft
						0.00	
Serial #: 6749 Inside Press@RunDepth: 23.09 psig Start Date: 2014.11.23 Start Time: 00:36:00		2014.11.23 05:15:30	Capacity: Last Calit Time On I Time Off	o.: Btm: 2		8000.00 2014.11.23 23 @ 01:57:30 23 @ 03:59:00	3
FSI 30 Minutes N	blow back Weak surface blow died in 10 minu o blow back	tes					
Pressure vs. T 690 Pressure	INIC IVI Imponie	Time	Pressure	Temp	Anno		
170 I	- 35	(Min.)	(psig)	(deg F)			
		0	1702.57 21.05	88.41 89.44		ydro-static To Flow (1)	
		30	22.11		Shut-In		
2		60 61	643.00 22.18	90.13 89.92	End Sh	ut-In(1) To Flow (2)	
		91	23.09		Shut-In		
		121	348.43	92.73	End Sh	ut-In(2)	
29		122	1650.72	93.24	Final H	ydro-static	
Recovery				Ga	s Rate	s	
Length (ft) Description	Volume (bbl)			Choke (i	nches) P	ressure (psig)	Gas Rate (Mcf/d)
10.00 VSOCM Oil 1% Mud 99%	0.14						
Trilobite Testing Inc.						25 @ 13.52.	

Ref. No: 62028

Printed: 2014.11.25 @ 13:52:56

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

白綿衣 物地的

Phone 785-483-2025 Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 883

Cell 785-324-1041				1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			
Sec	A REAL PROPERTY OF A REAL PROPER	Range	0	County	State	On Location	Finish
Date - - - - - - - - - - - -	6116	14	Da	cton	15		Hous PM
OII F	in the state of the	nisten erk ged	Locati	on 281 +	Galatia	BIKtop 15	5 + 180 Rd
Lease Miller ta		Well No.	3	Owner 1/25	E StIpto		
Contractor Southwin	1 #3	di la to 7716 Altra di	01310	To Quality Oil	well Cementing, Inc.	cementing equipmen	t and furnish
Type Job Suctace				cementer and	helper to assist own	ner or contractor to do	work as listed.
Hole Size 1214"	T.D.	515'	1041 - 14 Al	Charge W	la' oil o	perations	1937 A
<u>Csg. 85/8"</u>	Depth	515'		Street		dina upper ever on Des	nakona tenyi yina.
Tbg. Size	Depth	Desite liente en	ing theres.	City	" An Moleci le alorierigh	State	230/84
Tool	Depth	e es lecte (T	in the second	The above was	done to satisfaction an	nd supervision of owner	agent or contractor.
Cement Left in Csg. 5	Shoe Jo	oint 15		Cement Amou	unt Ordered 275	60140 3% CC	2% Gel
Meas Line	Displac	e 31 3	14865	trent the second			
No Cementer	IPMENT	addraula ord flaw	Mail and	Common	an poir site, the Black	finitian to be tagent to	encide patrice
Pumptrk 🔨 Helper	Nick		Theat live	Poz. Mix	and the second second	a na talag balan pagang	
Bulktrk No. Driver	1500			Gel.	UD you live Period	NGO Generation and	Colonitated and
Bulktrk D. U. Driver	Kick		A.C. A	Calcium			
JOB SERVICI	ES & REMA	RKS	101112	Hulls	Charles and the second second second	MARKOTTOPOD 2	Droda and an
Remarks: Cement did	Carrier and	Cicculat	C	Salt			
Rat Hole	beni yeta ilar	tangé tahat telepi	1.000,85	Flowseal	a stastle at YTSU	UK? Seminread third a	oe
Mouse Hole	uiten anan	and the second second	. di	Kol-Seal			
Centralizers				Mud CLR 48			here surrows
Baskets				CFL-117 or C	D110 CAF 38	esta de contaise, se	ay an an
D/V or Port Collar			The app	Sand	and the second s	t with hand have an extreme	
				Handling			
		<u> </u>	1.1	Mileage		and the second se	
and the second s					FLOAT EQUIPME	INT	o des XTURAK.
anandra adam a channa				Guide Shee	Kubber	plucy	
10.000				Centralizer	abolt sono y	o Jakata 🖉 anatonana	NACING LABOR
tokana to 2000 as to manage	ing badances		S. Davier	Baskets			Charles and the second second
	() () () () () () () () () ()	9 10 10 10 10	1 m	AFU Inserts	New York	a series of the	the of the Managers
TO TRUE CONTRACTOR OF	and the second			Float Shoe			
				Latch Down		an all a second a	ROADELLADA
				ana dan dan dari da Malaka kan dari da			
		1 MAY	1 and			standards.	a make
				Pumptrk Char	ge		anticart CA
a de la cara la caracteristica de la	0) y(00,10) 88	entoentiso te g	SCHEDOR.	Mileage	e se bolitere aver		the analytic day
nang mang pang tanang dipantang pang tang tang tang tang tang tang tang t	and and particular		No. Planter		palaan adam yard. Shuqaan oo maada	Tax	o viti ski ko vo
· A.	tions and line	N CLAUTY &	at control			Discount	and the providence
Signature Juy /bri	er	ereduce respectively ()				Total Charge	Closed and the sector

QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107 1351 No.

Phone 785-483-2025 Cell 785-324-1041

Cell 785-324-1041										
an helle stander all the st	Sec.	Twp.	Range		County	State	On Location	Finish		
Date 11-24-14	36	16	14	Bar	ton	ks		7:30AM		
		and Alla	masia vint geia.	Locati	on Sysant	K-281,15,1%	ZE	and and free the		
Lease Miller Farm	5	1.1.1.1	Well No. 3	Live pril	Owner					
Contractor South win	d #3.	nollac	art in it it it.	ala o		ilwell Cementing, Inc.	cementing equipmen	t and furnish		
Type Job long strin					cementer an	d helper to assist owr	ner or contractor to de	o work as listed.		
Hole Size 7 78	in same	T.D.	3675	9 iz 9	Charge Mg	ioil				
Csg. 5 1/2 #14		Depth	3489.07		Street					
Tbg. Size	9 8 Q 1	Depth	alter de de soure da	neri p	City	in the factor of the	State	230m-1		
Tool		Depth				as done to satisfaction ar				
Cement Left in Csg.		Shoe J	loint 18.40			ount Ordered 160 sx	69/40, 10% se	alt, 2% gel		
Meas Line	1		e 84.6661		14 # Flo					
and the provident the of the	EQUIPM	IENT	will be supplied	interin (il	Common	apter start of starts				
Pumptrk / 7 No. Ceme Helpe	r LOM	Miew			Poz. Mix					
Bulktrk 15 No. Drive	, Don	5	N		Gel.	AUG VENTIN PRIM		and the second second		
Bulktrk Py No. Driver		5			Calcium	iliaidhe astroacht, aca	and Billerian	and a second second		
JOB SE	RVICES	& REMA	ARKS		Hulls		Charles and the second			
Remarks:			sellion finde VIII	161(5)	Salt	All in the part of the second	inder neer de state de la ca	alteria oranistrus		
Rat Hole 305x	in he bi	1.1.2.			Flowseal					
Mouse Hole					Kol-Seal					
Centralizers 1, 12, 5, 6,	9.				Mud CLR 48	1000 gal	at an a support of			
Baskets 3 1 #1	enens eg	n maio n	o isan novaesen	like a	CFL-117 or (CD110 CAF 38	Learning the second			
D/V or Port Collar					Sand			and the only		
Pipe on bottom bro	keen	really	Fron. broked		Handling	and a second second		an sal		
Eall and Sat Pack				21/	Mileage		and the second s	es es protación es		
Mind CER-48 wit	*000000000000000	101000000000000000000000000000000000000				FLOAT EQUIPM	ENT			
Pluged Rat hole					Guide Shoe					
51/2 and Mixed 13				100000000000000000000000000000000000000	Centralizer	5 turbo's	to adde			
Pumpand lines. R			A	for a little little little	Baskets /	Red	Partie Ciakusa			
with 84.6661 fue	Plug	lande	cl and held		AFU Inserts		a same			
1-Junit					Float Shoe			da di ani kanistr		
Lift press	ure?	00 0	51	7	Latch Down	1				
	anne.		TUASO bas b	also entre	1 Packer	shee	for the later states of the	a states a final		
Plug landed	atl	500	151	al and a second	1000	alles & branch				
the last state with the same		1			Pumptrk Cha	arge	Carlo Carros Carlos Carlos	r ober (
participation of data the content	101.0000				Mileage		and the second			
e di la receneración antenadar	ecommo		Raysen or resign	us press	moliti specie	Bank Start Indiana	🕷 Tax			
	11	/			and build by build		Discount			
X Signature	Yon	ne m	a malingenting o	n ex de	and the second		Total Charge			
								ter 1 22 marsh to		