Confidentiality Requested:

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION 1263663

Form ACO-1 November 2016 Form must be Typed Form must be Signed All blanks must be Filled

#### WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License #	API No.:
Name:	Spot Description:
Address 1:	
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 #	GPS Location: Lat:, Long:, (e.gxxx.xxxxx)
Name:	Datum: NAD27 NAD83 WGS84
Wellsite Geologist:	County:
Purchaser:	Lease Name: Well #:
Designate Type of Completion:	Field Name:
New Well Re-Entry Workover	
🗌 Oil 🔄 WSW 🔄 SWD	Producing Formation:
Gas DH EOR	Elevation: Ground: Kelly Bushing:
OG GSW	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 Total Depth:	
Deepening Re-perf. Conv. to EOR Conv. to SWD	Drilling Fluid Management Plan
Plug Back Liner Conv. to GSW Conv. to Producer	(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:
EOR Permit #:	
□ GSW Permit #:	Operator Name:
	Lease Name: License #:
Spud Date or         Date Reached TD         Completion Date or	Quarter Sec Twp S. 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 Drill Stem Tests Received
Geologist Report / Mud Logs Received
UIC Distribution
ALT I II III Approved by: Date:

	Page Two	1263663
Operator Name:	Lease Name:	Well #:
Sec TwpS. R East _ West	County:	
INSTRUCTIONS: Show important tops of formations penetrated. De	tail all cores. Report all fin	al conjes of drill stems tests giving interval tested, 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 T (Attach Additi			Yes	No		L	.og F	ormation	(Top), Dep	th and Datum	Sample
Samples Sent to		/ey	Yes	No		Nam	e			Тор	Datum
Cores Taken Electric Log Run Geolgist Report / List All E. Logs R	/ Mud Logs		☐ Yes ☐ Yes ☐ Yes	No No No							
					RECORD			sed			
			Report all s	strings set-o	conductor, su	irface, inte	ermediate	production	n, etc.		
Purpose of Str		e Hole rilled	Size Cas Set (In O		Weig Lbs. /		Set De	ting pth	Type of Cement		Type and Percent Additives
	·	·	AD	DITIONAL		NG / SQL	JEEZE R	ECORD		·	
Purpose: Perforate		epth Bottom	Type of Ce	ement	# Sacks	Used			Туре а	and Percent Additive	95
Protect Cas											
Plug Off Zo	one										
<ol> <li>Did you perform</li> <li>Does the volume</li> <li>Was the hydrauli</li> </ol>	e of the total base	fluid of the hydra	aulic fracturin	-		-	ons?	Yes Yes Yes	No (If N	o, skip questions 2 a o, skip question 3) o, fill out Page Thre	
Date of first Produc Injection:	ction/Injection or F	Resumed Produc		ducing Metl Flowing	hod:	g 🗌	Gas Lift	Oth	ner <i>(Explain)</i> _		
Estimated Produc Per 24 Hours	tion	Oil Bbls		Gas	Mcf	Wat	ər	Bbls	5.	Gas-Oil Ratio	Gravity
DISPO	DSITION OF GAS			Ν	METHOD OF	COMPLE	TION:			PRODUCT	ION INTERVAL:
Vented	Sold Used	d on Lease	Open I	Hole	Perf.	Dually	Comp.	Comn	ningled	Тор	Bottom
(If vente	d, Submit ACO-18.,	)				(Submi	ACO-5)	(Submi	t ACO-4)		
Shots Per Foot	Perforation Top	Perforation Bottom		e Plug /pe	Bridge Plu Set At	g		Acid, F		, Cementing Squeez I Kind of Material Use	

Packer At:

TUBING RECORD:

Size:

Set At:

Form	ACO1 - Well Completion
Operator	Mai Oil Operations, Inc.
Well Name	Wilborn "A" 1
Doc ID	1263663

### 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	514	60-40 POZ		2% gel, 3% CC
Production	7.875	5.5	14	3472	60-40 POZ	160	2 % gel

Office (620) 588-4250

Mai Oil Operations Wilborn 'A' #1 NE-SW-NW-NW (715' FNL & 440' FWL) Section 28-16s-13w Barton County, Kansas

Page 1

10 - 20 B

5

#### 5 1/2" Production Casing Set

Contractor:	Southwind Drilling Co. (rig #3)
Commenced:	July 8, 2015
Completed:	July 14, 2015
Elevation:	1961' K.B., 1959' D.F., 1953' G.L.
Casing program:	Surface; 8 5/8" @ 514' Production, 5 <sup>*</sup> ½" @ 3472'
Sample:	Samples saved and examined 2900' to the Rotary Total Depth.
Drilling time:	One (1) foot drilling time recorded and kept 2900' to the Rotary Total Depth.
Measurements:	All depths measured from the Kelly Bushing.
Drill Stem Tests:	There were three (3) Drill Stem Tests ran by Trilobite Testing Co.
Electric Log:	By Nabors, Dual Induction, Compensated Density/Neutron Log and Micro.

Formation	Log Depth	<u>Sub-Sea Datum</u>
Anhydrite	891	+1070
Base Anhydrite	921	+1040
Heebner	3073	-1112
Toronto	3090	-1129
Douglas	3102	-1141
Brown Lime	3153	-1192
Lansing	3161	-1200
Base Kansas City	3389	-1428
Arbuckle	3398	-1437
Rotary Total Depth	3475	-1514
Log Total Depth	3475	-1514

All tops and zones corrected to Electric Log Measurement

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

Res. Claflin (620) 587-3444

Mai Oil Operations Wilborn 'A' #1 NE-SW-NW-NW (715' FNL & 440' FWL) Section 28-16s-13w Barton County, Kansas

Page 2

#### **TOPEKA SECTION**

3020-3040' Limestone, gray, white, fossiliferous, few sub-oomoldic, fair porosity, no shows.

#### TORONTO SECTION

3090-3096' Limestone, white, tan, finely crystalline, slightly cherty, poor porosity; plus white, chalky, limestone, no shows.

#### LANSING SECTION

- 3154-3160' Limestone, tan, oomoldic, fair oomoldic porosity, brown stain, trace of free oil and faint odor in fresh samples.
- 3190-3197' Limestone, gray, white, oomoldic, scattered oomoldic porosity, brown stain, trace of free oil and faint odor in fresh samples.
- 3211-3214' Limestone, white, finely crystalline, chalky, scattered pin point porosity, trace brown stain, show of free oi and no odor in fresh samples.
- 3228-3236' Limestone, tan, oomoldic in part, good oomoldic porosity, good golden brown stain, show of free oil and faint to fair odor in fresh samples.

	DIOWIT Stain,	show of free of and	a faint to fair odor in fresh samples.
	Drill Stem T	lest #1	3158-3236
	Times:	30-30-45-60	
	Blow:	Strong	
	Recovery:	(40% gas; 25% oi 63' muddy gassy	nd gas cut mud, trace of water il; 5% water; 30% mud) watery oil il; 10% water; 10% mud)
	Pressures:	ISIP 586 FSIP 569 IFP 37-86 FFP 56-156 HSH 1534-1529	psi psi psi psi psi
3248-3260'	Limestone, t no shows.	tan, oomoldic, fair o	omoldic porosity, plus white oolitic chert

3293-3300' Limestone, cream, gray, tan, oolitic, oomoldic, fair oomoldic porosity, fair stain and saturation, show of free oi and fair odor in fresh samples.

- 3312-3320' Limestone, white, finely crystalline, few fossiliferous, chalky, poor visible porosity, trace brown stain, trace of free oil and no odor.
- 3331-3340' Limestone, tan, oolitic, chalky, trace poor stain, no show of free oil and no odor in fresh samples.

Mai Oil Operations Wilborn 'A' #1 NE-SW-NW-NW (715' FNL & 440' FWL) Section 28-16s-13w Barton County, Kansas

Page 3

3358-3363' Limestone, cream, white, tan, fine and medium crystalline chalky in part, no shows.

Drill Stem T	est #2		3286-3363
Times:	30-30-45-60		
Blow:	Strong		
Recovery:	2115' gas in pipe 160' muddy gass (45% gas; 50% oi 63' heavily oil cur (30% oil; 70% mu	y oil I; 5% mud) t mud	
Pressures:	ISIP 1055 FSIP 1042 IFP 37-54 FFP 63-98 HSH 1596-1575	psi psi psi psi psi	

3370-3390' Limestone, tan, gray, finely crystalline, chalky increasingly cherty, poor porosity, trace iron pyrite.

#### **ARBUCKLE SECTION**

- 3398-3403' Dolomite, cream, white, medium crystalline, poor visible porosity, trace stain, no show of free oil and questionable odor.
- 3403-3413' Dolomite, as above, increase in porosity, few with fair inter-crystalline porosity, brown spotty stain, show of free oil and faint odor in fresh samples.

Drill Stem Test #3 3386-3413 Times: 30-30-45-60 Blow: Strong 50' clean oil **Recovery:** 820' oil and gas cut muddy water (5% gas; 25% oil; 60% water; 10% mud) 570' muddy water, trace of oil psi Pressures: ISIP 1035 **FSIP 1022** psi psi IFP 85-360 psi FFP 367-645 HSH 1635-1003 psi

3413-3426' Dolomite, gray, white, medium crystalline, fair to good inter-crystalline porosity, brown stain, show of free oil and faint to fair odor in fresh samples.

Mai Oil Operations Wilborn 'A' #1 NE-SW-NW-NW (715' FNL & 440' FWL) Section 28-16s-13w Barton County, Kansas

Page 4

3426-3440'	Dolomite, as above, fair stain and saturation, show of free oil and faint/fair odor in fresh samples.
3440-3460'	Dolomite, white, gray, medium to coarse crystalline, fair inter-crystalline to vuggy type porosity, brown stain, show of free oil and fair odor in fresh samples.
3460-3475'	Dolomite, gray, white, finely crystalline, few cherty, plus white chert, no shows.
Rotary Total Depth Log Total Depth	3475 3475

#### **Recommendations:**

The 5 1/2" production casing was set and cemented on Mai Oil Operations Inc., Wilburn 'A' #1.

Respectfully yours,

may C. ľ James C. Musgrove Petroleum Geologist



CON-	RILOBITE			REPO					
生	Longer and the second s	Mai Oil Operations			28-	16s-13w	Barto	n,KS	
	ESTING , INC	8411 Preston Road Suite 80 Dallas TX 75225+5520	00			<b>born A</b>		DST	#:1
W)		ATTN: Jim Musgrove						1 @ 17:31:0	
ENERAL I	INFORMATION:								alan dan kang melangka kan dinana gelap ban
ormation: Deviated: ime Tool Ope	LKC A-F No Whipstock: aned: 18:59:30 ed: 23:20:30	ft (KB)			Tes Tes Unit	ter: ł	Convent Ken Swi 58		Hole (Initial)
nterval:	3158.00 ft (KB) To 32				Refe	erence Be	vations		.00 ft (KB)
otal Depth: lole Diameter:	3236.00 ft (KB) (T 7.88 inchesHole	/D) • Condition: Poor				KB t	o GR/CF		.00 ft (CF) .00 ft
Sie Dameter.							0.00	. 10	
Serial #: 6 ress@RunDe Start Date: Start Time:		@ 3232.19 ft (KB) End Date: End Time:		)15.07.11 23:20:30	Capacity Last Calil Time On Time Off	b.: Btm: 2		8000 2015.07 .11 @ 18:58 .11 @ 21:47	:30
	FFP 45 Minutes	Blow back built to 1 1/2" died a BOBt in 3 1/2 min Blow back bult to 10" then died			and remaine	ed through	out		
	FFP 45 Minutes	BOBt in 3 1/2 min Blow back bult to 10" then died		ak surface	PF	RESSUR	RESU	And a state of the	
	FFP 45 Minutes FSI 60 Minutes E	BOBt in 3 1/2 min Blow back bult to 10" then died					RESU	MMARY	
<b>53</b>	FFP 45 Minutes FSI 60 Minutes E	BOBt in 3 1/2 min Blow back bult to 10" then died		ak surface Time (Min.) 0	Pressure (psig) 1534.77	RESSUR Temp (deg F) 106.88	RE SUN Anno	tation tydro-static	
	FFP 45 Minutes FSI 60 Minutes E	BOBt in 3 1/2 min Blow back bult to 10" then died		Time (Min.) 1	Pressure (psig) 1534.77 37.69	RESSUR Temp (deg F) 106.88 105.94	RE SUM Anno Initial H Open	tation lydro-static To Flow (1)	
	FFP 45 Minutes FSI 60 Minutes E	BOBt in 3 1/2 min Blow back bult to 10" then died		Time (Min.) 0 1 31	Pressure (psig) 1534.77 37.69 86.65	RESSUR Temp (deg F) 106.88 105.94 109.96	RE SUM Anno Initial H Open	htation Hydro-static To Flow (1) h(1)	
	FFP 45 Minutes FSI 60 Minutes E	BOBt in 3 1/2 min Blow back bult to 10" then died	1 to w ea	Time (Min.) 1	Pressure (psig) 1534.77 37.69	RESSUR Temp (deg F) 106.88 105.94 109.96 110.40	RE SUM Anno Initial H Open T Shut-In End Sh	tation lydro-static To Flow (1)	
	FFP 45 Minutes FSI 60 Minutes E	BOBt in 3 1/2 min Blow back bult to 10" then died		Time (Min.) 0 1 31 60	Pressure (psig) 1534.77 37.69 86.65 586.03 96.02 156.18	RESSUR Temp (deg F) 106.88 105.94 109.96 110.40 110.02 110.89	RE SUM Anno Initial H Open Shut-Ir End Sh Open Shut-Ir	hydro-static To Flow (1) h(1) hut-ln(1) To Flow (2) h(2)	
	FFP 45 Minutes FSI 60 Minutes E	BOBt in 3 1/2 min Blow back bult to 10" then died	1 to w ea	Time (Min.) 0 1 31 60 61	Pressure (psig) 1534.77 37.69 86.65 586.03 96.02	RESSUR Temp (deg F) 106.88 105.94 109.96 110.40 110.02 110.89 111.54	Anno Initial H Open Shut-Ir End Sh Open Shut-Ir End Sh	hydro-static To Flow (1) n(1) nut-In(1) To Flow (2)	
	FFP 45 Minutes FSI 60 Minutes E	BOBt in 3 1/2 min Blow back bult to 10" then died	1 to w ea	Time (Min.) 0 1 31 60 61 106 166	Pressure (psig) 1534.77 37.69 86.65 586.03 96.02 156.18 569.69	RESSUR Temp (deg F) 106.88 105.94 109.96 110.40 110.02 110.89 111.54	Anno Initial H Open Shut-Ir End Sh Open Shut-Ir End Sh	tation hydro-static To Flow (1) n(1) nut-In(1) To Flow (2) n(2) nut-In(2)	
·	FFP 45 Minutes FSI 60 Minutes E	BOBt in 3 1/2 min Blow back bult to 10" then died	1 to w ea	Time (Min.) 0 1 31 60 61 106 166	Pressure (psig) 1534.77 37.69 86.65 586.03 96.02 156.18 569.69	RESSUR Temp (deg F) 106.88 105.94 109.96 110.40 110.02 110.89 111.54	Anno Initial H Open Shut-Ir End Sh Open Shut-Ir End Sh	tation hydro-static To Flow (1) n(1) nut-In(1) To Flow (2) n(2) nut-In(2)	
•	FFP 45 Minutes FSI 60	BOBt in 3 1/2 min Blow back bult to 10" then died	1 to w ea	Time (Min.) 0 1 31 60 61 106 166	Pressure (psig) 1534.77 37.69 86.65 586.03 96.02 156.18 569.69	RESSUR Temp (deg F) 106.88 105.94 109.96 110.40 110.02 110.89 111.54 112.10	Anno Initial H Open Shut-Ir End Sh Open Shut-Ir End Sh	tation tydro-static To Flow (1) n(1) To Flow (2) n(2) nut-In(2) tydro-static	
•	FFP 45 Minutes E FSI 60 Minutes E	BOBt in 3 1/2 min Blow back bult to 10" then died	1 to w ea	Time (Min.) 0 1 31 60 61 106 166	Pressure (psig) 1534.77 37.69 86.65 586.03 96.02 156.18 569.69	RESSUR Temp (deg F) 106.88 105.94 109.96 110.40 110.02 110.89 111.54 112.10	RE SUN Anno Initial H Open Shut-Ir End Sh Gopen Shut-Ir End Sh Final H	tation tydro-static To Flow (1) n(1) To Flow (2) n(2) nut-In(2) tydro-static	Gas Rate (Mcf/d
Length (ft)	FFP 45 Minutes F FSI 60 Minutes F Pressure vs. T	BOBt in 3 1/2 min Blow back bult to 10" then died	1 to w ea	Time (Min.) 0 1 31 60 61 106 166	Pressure (psig) 1534.77 37.69 86.65 586.03 96.02 156.18 569.69	RESSUR Temp (deg F) 106.88 105.94 109.96 110.40 110.02 110.89 111.54 112.10	RE SUN Anno Initial H Open Shut-Ir End Sh Gopen Shut-Ir End Sh Final H	tation tydro-static To Flow (1) n(1) nut-In(1) To Flow (2) n(2) nut-In(2) tydro-static	Gas Rate (Mcf/d
Length (ft) 0.00 262.00	FFP 45 Minutes F FSI 60 Minutes F Promuse vs. 1 For the second se	BOBt in 3 1/2 min Blow back bult to 10" then died	1 to w ea	Time (Min.) 0 1 31 60 61 106 166	Pressure (psig) 1534.77 37.69 86.65 586.03 96.02 156.18 569.69	RESSUR Temp (deg F) 106.88 105.94 109.96 110.40 110.02 110.89 111.54 112.10	RE SUN Anno Initial H Open Shut-Ir End Sh Gopen Shut-Ir End Sh Final H	tation tydro-static To Flow (1) n(1) nut-In(1) To Flow (2) n(2) nut-In(2) tydro-static	Gas Rate (Mct/d
Length (ft) 0.00 262.00 63.00	FFP 45 Minutes F FSI 60 Minutes F Pressure vs. 1 FFP 45 Minutes F Pressure vs. 1 FFP 45 Minutes F Pressure vs. 1 Free films F F F F F F F F F F F F F F F F F F F	BOBt in 3 1/2 min Blow back bult to 10" then died	1 to w ea	Time (Min.) 0 1 31 60 61 106 166	Pressure (psig) 1534.77 37.69 86.65 586.03 96.02 156.18 569.69	RESSUR Temp (deg F) 106.88 105.94 109.96 110.40 110.02 110.89 111.54 112.10	RE SUN Anno Initial H Open Shut-Ir End Sh Gopen Shut-Ir End Sh Final H	tation tydro-static To Flow (1) n(1) nut-In(1) To Flow (2) n(2) nut-In(2) tydro-static	Gas Rate (Mct/d
can contained a co	FFP 45 Minutes F FSI 60 Minutes F Promuse vs. 1 For the second se	BOBt in 3 1/2 min Blow back bult to 10" then died	1 to w ea	Time (Min.) 0 1 31 60 61 106 166	Pressure (psig) 1534.77 37.69 86.65 586.03 96.02 156.18 569.69	RESSUR Temp (deg F) 106.88 105.94 109.96 110.40 110.02 110.89 111.54 112.10	RE SUN Anno Initial H Open Shut-Ir End Sh Gopen Shut-Ir End Sh Final H	tation tydro-static To Flow (1) n(1) nut-In(1) To Flow (2) n(2) nut-In(2) tydro-static	Gas Rate (Mct/d

Trilobite Testing, Inc

Ref. No: 63039

Printed: 2015.07.14 @ 10:41:48

	RILOBITE	DRILL STEM TEST REPORT							
1		Mai Oil Operations			28-16s-13w Barton,KS			on,KS	
	ESTING , INC	8411 Preston Road Suite 800 Dallas TX 75225+5520		Wilborn A #1 Job Ticket: 63040 DST#: 2					• 2
									. 2
Mirelli,		ATTN: Jim Musgrove		Test Start: 2015.07.12 @ 10:58:00					
SENERAL IN	NFORMATION:								
Formation: Deviated: Time Tool Open Time Test Ende		ft (KB)			Tes	ter: ł	Conven Ken Sw 58	ntional Bottom H vinney	lole (Initial)
nterval:	3286.00 ft (KB) To 33	63.00 ft (KB) (TVD)			Ref	erence 🖽	vations	s: 1963.0	0 ft (KB)
otal Depth:	3363.00 ft (KB) (Th	-		1953.00 ft (CF)					
lole Diameter:	7.88 inchesHole	e Condition: Fair				KB t	o GR/C	F: 10.0	0 ft
Serial #: 68 ress@RunDep itart Date: itart Time:		@ 3359.19 ft (KB) End Date: End Time:		2015.07.12 16:37:00	Capacity Last Cali Time On Time Off	b.: Btm: 2		8000.0 2015.07.1 7.12 @ 12:21:0 7.12 @ 15:12:0	0
	Pressare vs. 1	Time (文)		Trees				IMMARY	
<b>1780</b>	GES Pressure	CESS Temperature	7	Time (Min.)	Pressure	Temp	Ann	otation	
	NY I		-1-	(IMIT.)	(psig) 1596.05	(deg F) 108.45	Initial	Hydro-static	
l.			1	1	37.00	107.84		To Flow (1)	
						100 10	Chut		
-			1-	31	54.92	108.19			
				60	1055.64	109.02	End S	Shut-In(1)	
			Temper	60 61	1055.64 63.09	109.02 108.75	End S Open	Shut-In(1) To Flow (2)	
			Tempereture	60 61 106	1055.64	109.02 108.75 109.52	End S Open Shut-	Shut-In(1) To Flow (2)	
				60 61 106	1055.64 63.09 98.69	109.02 108.75 109.52 110.86	End S Open Shut- End S	Shut-In(1) To Flow (2) In(2)	
70 70 70 70 70 70 70 70 70 70 70 70 70 7				60 61 106 166	1055.64 63.09 98.69 1042.68	109.02 108.75 109.52 110.86 111.51	End S Open Shut- End S Final I	Shut-In(1) To Flow (2) In(2) Shut-In(2) Hydro-static	
	Recovery	3%		60 61 106 166	1055.64 63.09 98.69 1042.68	109.02 108.75 109.52 110.86 111.51 Ga	End S Open Shut- End S Final I	Shut-In(1) To Flow (2) In(2) Shut-In(2) Hydro-static	
Length (ft)	Recovery Description	SHA Volume (bbl)		60 61 106 166	1055.64 63.09 98.69 1042.68	109.02 108.75 109.52 110.86 111.51	End S Open Shut- End S Final I	Shut-In(1) To Flow (2) In(2) Shut-In(2) Hydro-static	Gas R <i>a</i> te (Mcf/d)
Length (ft) 0.00	Recovery Description 2111' GIP	Volume (bbl)		60 61 106 166	1055.64 63.09 98.69 1042.68	109.02 108.75 109.52 110.86 111.51 Ga	End S Open Shut- End S Final I	Shut-In(1) To Flow (2) In(2) Shut-In(2) Hydro-static	Gas Rate (Mcf/d)
Length (ft) 0.00 157.00	Recovery Description 2111' GIP VGMCO Mud 5% Gas 45	Valume (bbl) 0.00 5% Oil 50% 2.20		60 61 106 166	1055.64 63.09 98.69 1042.68	109.02 108.75 109.52 110.86 111.51 Ga	End S Open Shut- End S Final I	Shut-In(1) To Flow (2) In(2) Shut-In(2) Hydro-static	Gas Rate (Mcf/d
Length (ft) 0.00 157.00	Recovery Description 2111' GIP	Volume (bbl)		60 61 106 166	1055.64 63.09 98.69 1042.68	109.02 108.75 109.52 110.86 111.51 Ga	End S Open Shut- End S Final I	Shut-In(1) To Flow (2) In(2) Shut-In(2) Hydro-static	Gas Rate (Mcf/d)
	Recovery Description 2111' GIP VGMCO Mud 5% Gas 45	Valume (bbl) 0.00 5% Oil 50% 2.20		60 61 106 166	1055.64 63.09 98.69 1042.68	109.02 108.75 109.52 110.86 111.51 Ga	End S Open Shut- End S Final I	Shut-In(1) To Flow (2) In(2) Shut-In(2) Hydro-static	Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 63040

Printed: 2015.07.14 @ 10:41:31

10XT	RILOBITE	DRILL STEM TEST REPORT							
		Mai Oil Operations		28-16s-13w Barton,KS					
	ESTING , INC	8411 Preston Road Suite 800 Dallas TX 75225+5520	)		Iborn A Ticket: 63		DST#:	•	
		ATTN: Jim Musgrove					@ 02:43:00	3	
APPENDING.		ATTN. Jiintwosgrove		105		/15.07.15 (	@ 02. <del>1</del> 3.00		
GENERAL INF	ORMATION:								
Formation: Deviated: Fime Tool Opened Fime Test Ended:		ft (KB)		Tes	ter: I	Conventior Ken Swinn 58	nal Bottom Ho ney	le (Initial)	
nterval: 33	386.00 ft (KB) To 34	13.00 ft (KB) (TVD)		Ref	erence Be	evations:	1963.00	ft (KB)	
Total Depth:	3413.00 ft (KB) (T	,						ft (CF)	
lole Diameter:	7.88 inchesHole	e Condition: Fair			KB t	to GR/CF:	10.00	ft	
Serial #: 6838 Press@RunDepth Start Date: Start Time:		<ul> <li>3409.00 ft (KB)</li> <li>End Date:</li> <li>End Time:</li> </ul>	2015.07.13 08:58:30	Capacity Last Cali Time On Time Off	b.: Btm: 2		8000.00 2015.07.13 3 @ 04:02:00 3 @ 06:54:00		
	ISI 30 Minutes N	No blow back BOB in 4 1/2 minutes							
	FSI 60 Minutes	No blow back		PI	RESSUE				
		No blow back	Time	Pl		RE SUM			
1758	FSI 60 Minutes	No blow back	an (Min.)	Pressure (psig)	Temp (deg F)	Annota	tion		
579	FSI 60 Minutes	No blow back	na (Min.)	Pressure (psig) 1635.37	Temp (deg F) 109.24	Annota Initial Hyd	tion Iro-static		
	FSI 60 Minutes	No blow back	a (Min.) 5 0 2	Pressure (psig) 1635.37 85.31	Temp (deg F) 109.24 108.86	Annota Initial Hyd Open To	tion Iro-static Flow (1)		
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	FSI 60 Minutes	No blow back	(Min.) (Min.) 0 2 32 62 63	Pressure (psig) 1635.37 85.31 360.84 1035.90 367.48	Temp (deg F) 109.24 108.86 120.57 119.11 118.87	Annota Initial Hyd Open To Shut-In(1 End Shut Open To	tion Flow (1) ) -In(1) Flow (2)		
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Trilobite Testing, Inc

Ref. No: 63041

Printed: 2015.07.14 @ 10:40:54

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

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

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

No. 1840

Cell 705-324-1041	Capital and capital products	1224(1)	Exc. C. Bestan	Notes and the set the set	the state of the second state of the	N 61 347
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Type Job Surface	and RESIDENTIAL SOL	1. 1. 1. 1.	cementer and	by requested to rent of helper to assist own	her or contractor to de	o work as listed.
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Signature July Jul	U		N. N. Camproor		Total Charge	
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## QUALITY OILWELL CEMENTING, INC. Federal Tax I.D.# 20-2886107

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

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

No. 1842

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Cell 785-324-1041						and the second			
Sec.	Twp.	Range	(	County	State	On Location	Finish		
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Lease Wilborn +	- Iv	Vell No.	Ser Mary	Owner					
Contractor Southing	d # 2	3		To Quality Oi	lwell Cementing, Inc. by requested to rent	cementing equipmen	t and furnish		
Type Job Producton		TAB STR		cementer an	d helper to assist owr	ner or contractor to de	o work as listed.		
Hole Size 77/5	T.D.	34751	estas li	Charge W	las oil	aperation	<		
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Tool	Depth			The above wa	s done to satisfaction an	nd supervision of owner	agent or contractor.		
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