

Confidentiality Requested:

Yes No

### Kansas Corporation Commission Oil & Gas Conservation Division

1187314

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
Address 2:	Feet from
City: State: Zip:+	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.xxxxxx) (e.gxxx.xxxxxxx)
Wellsite Geologist:	Datum: NAD27 NAD83 WGS84
Purchaser:	County:
Designate Type of Completion:	Lease Name: Well #:
☐ New Well ☐ Re-Entry ☐ Workover	Field Name:
□ Oil □ WSW □ SHOW   □ Gas □ D&A □ ENHR □ SIGW   □ OG □ GSW □ Temp. Abd.   □ CM (Coal Bed Methane) □ Cathodic □ Other (Core, Expl., etc.):    If Workover/Re-entry: Old Well Info as follows:	Producing Formation: Kelly Bushing: Total Vertical Depth: Plug Back Total Depth: Feet Multiple Stage Cementing Collar Used? Yes No  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  Plug Back Conv. to GSW Conv. to Producer  Commingled Permit #:  Dual Completion Permit #:  SWD Permit #:	Drilling Fluid Management Plan (Data must be collected from the Reserve Pit)  Chloride content: ppm Fluid volume: bbls  Dewatering method used:  Location of fluid disposal if hauled offsite:
☐ ENHR         Permit #:           ☐ GSW         Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
Spud Date or Date Reached TD Completion Date or Recompletion Date Recompletion Date	Quarter         Sec.         Twp.         S. R.         East         West           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 III Approved by: Date:				

Page Two



Operator Name:				Lease N	Name: _			Well #:		
Sec Twp	S. R	East	West	County	:					
<b>INSTRUCTIONS:</b> Shopen and closed, flow and flow rates if gas to	ing and shut-in pressu	ires, whe	ther shut-in pre	ssure reac	hed stati	c level, hydrosta	tic pressures, bott			
Final Radioactivity Log files must be submitte						gs must be ema	iled to kcc-well-lo	gs@kcc.ks.go	v. Digital elec	tronic log
Drill Stem Tests Taken (Attach Additional S		Ye	es No		L		on (Top), Depth an		Samp	
Samples Sent to Geol	ogical Survey	_ Ye	es No		Nam	е		Тор	Datur	n
Cores Taken Electric Log Run		Y€								
List All E. Logs Run:										
				RECORD	☐ Ne					
				conductor, su	rface, inte	ermediate, producti			I	
Purpose of String	Size Hole Drilled		e Casing (In O.D.)	Weig Lbs./		Setting Depth	Type of Cement	# Sacks Used	Type and P Additiv	
			ADDITIONAL	CEMENTIN	NG / SQL	JEEZE RECORD				
Purpose:	Purpose: Depth Type of Cement # Sa		# Sacks	Sacks Used Type and Percent Additives						
Perforate Protect Casing	Jop Zollow									
Plug Back TD Plug Off Zone										
1 ag on zono										
Did you perform a hydrau	ılic fracturing treatment o	n this well?	•			Yes	No (If No, ski	p questions 2 ar	nd 3)	
	otal base fluid of the hydra		J	,	0		_ , ,	p question 3)	(" 100 ")	
Was the hydraulic fractur	ing treatment information	submitted	to the chemical o	disclosure re	gistry?	Yes	No (If No, fill	out Page Three	of the ACO-1)	
Shots Per Foot			D - Bridge Plug Each Interval Perf				cture, Shot, Cement			Depth
	. ,							,		
TUBING RECORD:	Size:	Set At:		Packer At	t:	Liner Run:				
							Yes No			
Date of First, Resumed	Production, SWD or ENH	IR.	Producing Meth Flowing	nod:	g 🗌	Gas Lift C	Other (Explain)			
Estimated Production Per 24 Hours	Oil B	bls.	Gas	Mcf	Wate	er Bl	ols. G	as-Oil Ratio	Gr	ravity
DISDOSITIO	ON OF GAS:			METHOD OF	COMPLE	TION:		PRODUCTIO	ON INTERVAL:	
Vented Sold			Open Hole	Perf.	Dually	Comp. Con	nmingled	THODOUTIC	ZIV IIVI LTIVAL.	
(If vented, Sub			Other (Specify)		(Submit )	ACO-5) (Subi	mit ACO-4)			

Form	ACO1 - Well Completion	
Operator	Mai Oil Operations, Inc.	
Well Name	Axman-Stoss Unit 1	
Doc ID	1187314	

# 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	940	60-40 POZ	2% gel, 3% CC

# JAMES C. MUSGROVE

Petroleum Geologist 212 Main Street P.O. Box 215 Claflin, KS 67525

Office (620) 588-4250

Res. Claflin (620) 587-3444

Mai Oil Operations Axman-Stoss Unit #1 NE-NW-NE-SE (2480' FSL & 980' FEL) Section 7-17s-14w Barton County, Kansas Page 1

# **Dry and Abandoned**

Contractor:

Southwind Drilling Co. (Rig #3)

Commenced:

December 14, 2013

Completed:

December 20, 2013

Elevation:

1963' K.B; 1961' D.F; 1955' G.L.

Casing program:

Surface; 8 5/8" @ 941'

Production; none.

Sample:

Samples saved and examined 2800' to the Rotary Total Depth.

**Drilling time:** 

One (1) foot drilling time recorded and kept 2800 ft. to the Rotary Total

Depth.

Measurements:

All depths measured from the Kelly Bushing.

**Drill Stem Tests:** 

There were two (2) Drill Stem Tests ran by Trilobite Testing Co.

**Electric Log:** 

None.

<u>Formation</u>	Log Depth	Sub-Sea Datum
Anhydrite	938	+1025
Base Anhydrite	965	+998
Heebner	3140	-1177
Toronto	3152	-1189
Douglas	3172	-1209
Brown Lime	3207	-1244
Lansing Samples saved and a	3222	-1259
Arbuckle	3484	-1521
Rotary Total Depth	3497	-1534

(All top and zone determination were made from a correlation of Electric Log measurements).

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

# **TOPEKA SECTION**

3062-3078'

Limestone; tan, cream, fine and medium crystalline slightly dolomitic, poor intercrystalline type porosity, no shows.

Mai Oil Operations Axman-Stoss Unit #1 NE-NW-NE-SE (2480' FSL & 980' FEL) Section 7-17s-14w Barton County, Kansas Page 2

3092-3100'

Limestone; cream, white, light gray, finely crystalline,

fossiliferous, trace spotty stain, no free oil and no odor in fresh

samples.

## **TORONTO SECTION**

3152-3162'

Limestone; white, cream, finely crystalline, few fossiliferous, chalky, poor pinpoint porosity, trace poor stain, no free oil and no odor.

# LANSING SECTION

3222-3228'

Limestone; white, cream, finely crystalline, oolitic/fossiliferous,

chalky, poor visible porosity, plus white/cream, chert.

3240-3248'

Limestone; cream, tan, finely crystalline, oolitic, poor porosity,

chalky in part, plus chert as above.

3273-3280'

Limestone; cream, white, finely crystalline, oolitic, chalky, poor

porosity, no shows.

3298-3306'

Limestone; cream, white, tan, finely crystalline, oolitic, oomoldic,

poor to fair oomoldic porosity, golden brown stain, show of free

oil and faint odor in fresh samples.

**Drill Stem Test #1** 

3260-3305'

Times:

30-45-45-60

Blow:

Strong

Recovery:

90' thin watery mud finely crystalline, oolid sity, plus white/cream, cheri

180' muddy water

Pressures:

ISIP 576

psi y crystalline.

FSIP 559

IFP 21-83 psi above. psi

FFP 85-150

HSH 1606-1597

psi ely crystalline, colltic, chally psi

3348-3353'

Limestone; cream, white, tan, finely crystalline, few

oolitic/fossiliferous, slightly chalky, poor visible porosity, no

shows.

3376-3386'

Limestone; cream, tan, finely crystalline, few fossiliferous,

chalky, poorly develop porosity, spotty brown stain, no show of

free oil and no door.

3400-3410'

Limestone; cream, white, finely crystalline, dense.

#### CONGLOMERATE SECTION

3438-3484'

Varied colored chert in matrix of varied colored shale.

Mai Oil Operations Axman-Stoss Unit #1 NE-NW-NE-SE (2480' FSL & 980' FEL) Section 7-17s-14w Barton County, Kansas Page 3

# ARBUCKLE SECTION

3484-3497'

Dolomite; white/cream, fine and medium crystalline, poor to fair intercrystalline to fine vuggy porosity, scattered stain,trace free oil and faint odor in fresh samples

# **Drill Stem Test #2**

3414-3497'

Times:

15-45-15-45

Blow:

**Strong** 

Recovery:

2450' muddy water

Pressures: ISIP

1130

psi

**FSIP 1151** 

psi

IFP

881-1054

psi

**FFP** 

1072-1130

HSH 1726-1686

psi psi

**Rotary Total Depth** 

3497

# Recommendations:

The Mai Oil Operations, Axman-Stoss Unit #1 was plugged and abandoned at the Rotary Total Depth 3497.

Respectfully submitted;

Kurt Talbott,

Petroleum Geologist



# DRILL STEM TEST REPORT

Mai Oil Operations

7-17s-14w Barton, KS

Axman-Stoss Unit #1

8411 Preston Rd STE 800 Dallas TX 75225

Job Ticket: 56029

DST#:1

ATTN: Kurt Talbott

Test Start: 2013.12.18 @ 20:30:34

GENERAL INFORMATION:

Formation:

LKC E-G

Deviated:

No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial) Tester:

Tate Lang

Unit No:

49

1963.00 ft (KB)

Reference Bevations:

KB to GR/CF:

1955.00 ft (CF) 8.00 ft

Interval:

Time Test Ended: 02:45:04

Total Depth:

Time Tool Opened: 22:09:14

3260.00 ft (KB) To 3305.00 ft (KB) (TVD) 3305.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good

Hole Diameter: Serial #: 8898

Press@RunDepth:

Outside

20:30:35

149.69 psig @ 3269.00 ft (KB)

Capacity:

8000.00 psig

Start Date: Start Time:

2013.12.18 End Date:

End Time:

2013.12.19 Last Calib.: 02:45:04 Time On Btm:

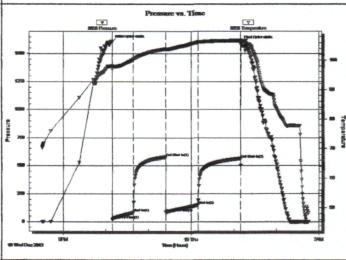
2013.12.19 2013.12.18 @ 22:09:04

Time Off Btm:

2013.12.19 @ 01:10:24

TEST COMMENT: B.O.B. In 20 mins

Dead no blow back B.O.B. In 30 mins Dead no blow back



_					
PRESSURE SUMMARY					
1	Time	Pressure	Temp	Annotation	
	(Min.)	(psig)	(deg F)		
	0	1606.31	97.98	Initial Hydro-static	
	1	21.28	96.90	Open To Flow (1)	
	30	82.96	100.31	Shut-In(1)	
	76	575.52	103.83	End Shut-In(1)	
1	76	85.48	103.61	Open To Flow (2)	
2	121	149.69	106.09	Shut-In(2)	
-	181	559.12	106.65	End Shut-In(2)	
	182	1597.16	106.65	Final Hydro-static	
		- 1			

#### Recovery

me (bbl)
5
6

Gas Rates

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

Trilobite Testing, Inc

Ref. No: 56029

Printed: 2013.12.23 @ 14:25:44



# DRILL STEM TEST REPORT

Mai Oil Operations

8411 Preston Rd STE 800

Dallas TX 75225

ATTN: Kurt Talbott

7-17s-14w Barton,KS

Axman-Stoss Unit #1

Job Ticket: 56030

DST#: 2

Test Start: 2013.12.20 @ 00:00:05

# GENERAL INFORMATION:

Time Tool Opened: 01:59:25

Time Test Ended: 07:16:14

Formation:

Arbuckle

Deviated:

No Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Reset)

Tester:

Tate Lang

Unit No:

49

KB to GR/CF:

1963.00 ft (KB)

Reference Bevations:

1955.00 ft (CF)

Interval: Total Depth:

3414.00 ft (KB) To 3497.00 ft (KB) (TVD)

3497.00 ft (KB) (TVD)

7.88 inches Hole Condition: Good

8.00 ft

Serial #: 8898 Press@RunDepth:

Hole Diameter:

Outside

1129.71 psig @ 3429.00 ft (KB)

00:00:06

2013.12.20

Capacity:

8000.00 psig

Start Date: Start Time:

2013.12.20 End Date: End Time:

07:16:15

Last Calib.: Time On Btm: 2013.12.20

2013.12.20 @ 01:59:05 Time Off Btm: 2013.12.20 @ 04:03:15

TEST COMMENT: B.O.B. in 30 sec

Dead no blow back B.O.B. in 30 sec Dead no blow back

5700 - 6700 -	MES Promun	ass Versperal	ure :	
	1	13		
5280 - 5100 -				- 50 Temperature
738 - 530 :			À	- 9 7
	230 -			

t	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
١	0	1726.41	99.87	Initial Hydro-static
	1	880.83	99.65	Open To Flow (1)
	16	1054.34	108.89	Shut-In(1)
,	62	1130.44	109.87	End Shut-In(1)
3	62	1072.31	109.84	Open To Flow (2)
atura.	75	1129.71	111.10	Shut-In(2)
Temperature (deg F)	124	1130.57	110.20	End Shut-In(2)
3	125	1685.72	110.32	Final Hydro-static
		-		

Length (ft)	Description	Volume (bbl)
1860.00	98%W 2%M	25.82
310.00	50%W 50%M	4.35
280.00	30%W 70%M	3.93
* Recovery from mult	tinle tests	
1 tooo to y 11 or 11 mar	upro tooto	

Gas Rates

Choke (inches) Pressure (psig)

Gas Rate (Mcf/d)

Trilobite Testing, Inc

Ref. No: 56030

Printed: 2013.12.23 @ 14:25:00

# 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. 7498

Date /2-15-13 7 17 14 From K5	1201 m								
10 00 00 11	100000000								
Location How 41281 30 RD 150 3w 120 Winter									
Lease Ax man -5+055 Well No. Owner	Owner								
Contractor Symbol & 3  To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish								
Type Job Son face cementer and helper to assist owner or contractor to do wo	cementer and helper to assist owner or contractor to do work as listed.								
Hole Size 12V4 T.D. 941 Charge To Mai Oil									
Csg. 25/8 Depth 940 Street	Street								
Tbg. Size Depth City State									
Tool Depth The above was done to satisfaction and supervision of owner age	The above was done to satisfaction and supervision of owner agent or contractor.								
Cement Left in Csg. 40 Shoe Joint Cement Amount Ordered 350 60/40 31/00									
Meas Line Displace 5 7 B L									
EQUIPMENT Common	Common								
Pumptrk No. Cementer Poz. Mix	Poz. Mix								
Bulktrk No. Driver Gel.									
Bulktrk 10 No. Driver Driver Calcium Calcium	a the main area lead								
JOB SERVICES & REMARKS Hulls	A Comment of the Comment								
Remarks: Salt									
Rat Hole Flowseal	Flowseal								
Mouse Hole Kol-Seal	Kol-Seal								
Centralizers Mud CLR 48	Mud CLR 48								
Baskets CFL-117 or CD110 CAF 38	CFL-117 or CD110 CAF 38								
D/V or Port Collar Sand	Sand								
876 on bottom Est Citylation Handling	Handling								
Mix 3503K V D'SDIGIR Phys Mileage									
FLOAT EQUIPMENT	FLOAT EQUIPMENT								
Cement (sew later) Guide Shoe 8 1/8 Rubber Plya	Quide Shoe 8 18 Rubber Plya								
Centralizer	Centralizer								
Baskets	ST. RAHR. S.								
AFU Inserts	researching								
Float Shoe									
Latch Down	Here and here								
Pumptrk Charge	Pumptrk Charge								
Mileage									
Tax									
Discount									
Signature ( my ) fuer Total Charge	Total Charge								

# 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. 7673

ad a decreta in spre	Sec.	Twp.	Range	-	County	State	On Location	Finish	
Date   2 - 20 - 13	/	17	14	Barton		r KS	Ta selektroneckontaco se	6:30 PM	
Location 281 & Eggs 4sale sine, 3h, to 70 Rd, 12N,									
Lease Axman - Stoss unit   Well No.				Owner wnZ					
Contractor Southwand 3			To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish						
Type Job Plag			cementer and helper to assist owner or contractor to do work as listed.						
Hole Size 7 % T.D.			Charge Mg, Oil						
Csg.	esg. Depth			Street					
Tbg. Size	Depth			City State					
Tool	LINUU A	Depth			The above was done to satisfaction and supervision of owner agent or contractor.				
Cement Left in Csg.	Csg. Shoe Joint			Cement Amount Ordered 220 sx 60/40 4 % gel 1/4 Flow					
Meas Line	A posta s	Displac	e		Control of the second				
To the second a grigary of	EQUIPM	ENT	padd ti blande b	de jarro	Common				
Pumptrk 15 No. Cementer Helper VICK				Poz. Mix					
Bulktrk 5 Driver	No Driver			Gel.					
Bulktrk Pu No. Driver Travis				Calcium					
JOB SERVICES & REMARKS				Hulls					
Remarks:				Salt	at the state of th		Sai The		
Rat Hole				Flowseal					
Mouse Hole				Kol-Seal	eye amento et is h,	MANO sand Years (MAN)	has bridge year		
Centralizers				Mud CLR 48					
Baskets				CFL-117 or CD110 CAF 38					
D/V or Port Collar	europiero.		4.000		Sand				
50sx at 3463					Handling				
505x at 900	61				Mileage	CTO CAR		2023 (2014)	
80 sx gt 430				Ci ya C		FLOAT EQUIPM	ENT	Lit theman enclose-	
10sx at 40 with ding					Guide Shoe				
30sx Rat				Centralizer					
					Baskets	- 100 mm	3		
					AFU Inserts	View Propin	STATE OF THE STATE OF THE STATE OF	a transition himself	
				Float Shoe	A B A TA		JA Ja ya tomba		
				Latch Down					
				I wood pl	4.06	Footbard Insurance Rea	१० क्यान स्टा भा		
							A Carolina	100 30000 5	
Pu						ırge		emiritical (A)	
Well from the more resident		t gotte box		Sample on the first					
4 Parameters and the second			Marke W. Conglish Mederi and Kindal		Mileage	Sylven Islam Kul	Tax	10-11-11-12-12	
The Real Control Are there	1,000	mar eld i	on which give	ed accept			Discount		
X Signature	hui		The second section of	, and the state of		Total Charge	Tanda rak manan		
VX A 1									