Confidentiality Requested:

Yes No

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

1263951

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:	SecTwpS. R East _ West
Address 2:	Feet from North / South Line of Section
City:	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-Entry Workover	Field Name:
	Producing Formation:
Oil	Elevation: Ground: Kelly Bushing:
	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?
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)
	Chloride content: ppm Fluid volume: bbls
Commingled Permit #:	Dewatering method used:
Dual Completion Permit #:	Dowatering method asea.
SWD Permit #:	Location of fluid disposal if hauled offsite:
EOR Permit #:	Operator Name:
GSW Permit #:	Lease Name: License #:
	Quarter Sec TwpS. R East West
Spud Date or Date Reached TD Completion Date or Recompletion Date	County: Permit #:
Toompletion Date	Γ CITHIL π.

#### **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 Approved by: Date:						

Page Two

, 1263951

Operator Name:					Lease Na	me: _			Well #:		
Sec Twp	S. R.		East	West	County: _						
INSTRUCTIONS: S open and closed, flow and flow rates if gas	wing and shu	t-in pressure	s, whe	ther shut-in pr	essure reache	d stati	c level, hydrosta	tic pressures, t		val tested, time tool erature, fluid recovery,	
Final Radioactivity Lo files must be submitted							ogs must be ema	iled to kcc-wel	l-logs@kcc.ks.go	v. Digital electronic log	
Drill Stem Tests Take (Attach Additional			Ye	es No				on (Top), Depth		Sample	
Samples Sent to Geo	ological Surve	<b></b>	Ye	es 🗌 No		Nam	e		Тор	Datum	
Cores Taken Electric Log Run Geolgist Report / Mu List All E. Logs Run:	_		Ye	es No							
			Repo		RECORD conductor, surfa	Ne	ew Used	ion, etc.			
Purpose of String		Hole	Siz	e Casing	Weight		Setting	Type of	# Sacks	Type and Percent	
3	Dril	lled	Set	t (In O.D.)	Lbs. / Ft		Depth	Cement	Used	Additives	
				ADDITIONA	CEMENTING	/ ՏՈԼ	JEEZE RECORD			<u> </u>	
Purpose:	De	pth	Typo	of Cement	# Sacks Us		LLZL NLOOND	Typo an	d Parcent Additives		
Perforate		Sottom	туре	or Cement	# Sacks Os	eu	d Type and Percent Additives				
Protect Casing Plug Back TD											
Plug Off Zone											
<ol> <li>Did you perform a hy</li> <li>Does the volume of t</li> </ol>		•			nt exceed 350 00	)O gallo	Yes	= ' '	skip questions 2 ar skip question 3)	nd 3)	
Was the hydraulic fra		-		_		-		= '	fill out Page Three	of the ACO-1)	
Date of first Production	/Injection or Po	sumod Produc	ation/	Producing Met	hod:						
Injection:	i/injection of ne	sumed Froduc	ZUOTI/	Flowing	Pumping		Gas Lift 0	Other (Explain)			
Estimated Production		Oil Bbls	i.	Gas	Mcf	Wate	er B	bls.	Gas-Oil Ratio	Gravity	
Per 24 Hours										,	
DISPOSIT	ION OF GAS:				METHOD OF C	OMPLE	ETION:		PRODUCTIO	ON INTERVAL:	
Vented Sol		on Lease		Open Hole	Perf.			nmingled	Тор	Bottom	
(If vented, Se	ubmit ACO-18.)					(Submit	ACO-5) (Sub	mit ACO-4)			
Shots Per	Perforation	Perforation	1	Bridge Plug	Bridge Plug		Acid	Fracture, Shot, 0	Cementing Squeeze	Record	
Foot	Тор	Bottom		Туре	Set At				Kind of Material Used)		
			+			+					
TUBING RECORD:	Size:		Set At:		Packer At:						

Form	ACO1 - Well Completion			
Operator	Mustang Energy Corporation			
Well Name Antenen 1				
Doc ID	1263951			

#### Casing

Purpose Of String	Size Hole Drilled	Size Casing Set	Weight	Setting Depth	Type Of Cement		Type and Percent Additives
Surface	.25	.625	23	220	80/20 poz	150	2%gel- 3%cc
Production	.875	.500	15.5	4498	QPRO-C		10%SALT- 5%GILSO NITE

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

Phone 785-483-2025 Call 705 224 1041 Home Office P.O. Box 32 Russell, KS 67665 No. 1280

OCI 703-024-1041		A LIVE TO SERVER					CONTRACT ST WAY		
Sec.	Twp.	Range	NI	County	State	On Location	Finish		
Date 6-27-2015 2	20	22	/V	ess	KANSAS	RD 2	NO RO		
act bns assessmin , company		W 4	Locati	on Bazi	we Ks. 75	on DD Zu	) ON 60-		
Lease ANIENE	NV	Vell No.	ixam edi	Owner 2 5 74 E T					
Contractor DISCOVERY	DALG,	Rig #	3	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.					
Type Job Cement	URFOR	e	ALEN"		d helper to assist ow	ner or contractor to do	work as listed.		
Hole Size 12 14	T.D.	221	seutuso s	Charge \( \)	NUSTANG	ENERG	Y CORE		
Csg. 8 78 NEW	Depth	221'		Street		sei gyarboits bog a	muz gldsnopgo:		
Tbg. Size 23# csg	Depth	partus flerta e:	ong Jaen	City	handise listed in "Qi	State	A 830199 No of lookduz sta		
Tool of the same o	Depth		11217131	The above wa	as done to satisfaction a	nd supervision of owner	the same of the sa		
Cement Left in Csg. 15	Shoe Jo	oint	1	Cement Amo	ount Ordered 15	0 SX /20	poz mix		
Meas Line	Displace	13	BBL	Entrant been of	3% CC	2% GreL	nu od VILIAUO		
	PMENT	eliqqus ed /v	r memgi	Common	20	t to get to or from the	sengiupe grilliug		
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Bulktrk 15 No. Driver Driver	en YTUAN	LONNIE	We	Gel.	MER will pay QUAL	ner material, CUSTO	ical solution or o		
Bulktrk No. Driver Driver	on lugation and grass	DAVID	1.	Calcium 4	ntipeda asimento se	JL, CHARGES: Unle	- DEADHA		
JOB SERVICE	S & REMAI	RKS	all orduc	Hulls	JABILITIES: 1. QUA	CONDITIONS AND	BOIVESS -		
Remarks:	vol gidni s	od fon Herte Y	LIAUD	Salt	itions beyond QUAL	n and unknown cond	so many uncerta		
Rat Hole 101 anua 10 amiato lie	bos you to	mops bas as	ni sepa	Flowseal	repa areomo de YTI	JAUO aseirmed blod	bus basish viia		
Mouse Hole				Kol-Seal			- A/A		
Centralizers		and seem to mile	oon and	Mud CLR 48	в депета дину вижиева, в	one let le Asedord at	bas renvo		
Baskets	ar damage	marvor loss, o	n ,ilow c	CFL-117 or	CD110 CAF 38	, pollution, surface or	alliga tiO (8)		
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Vising Tuesday	<sub>6</sub> :110.			7.0	FLOAT EQUIPM	IENT	us ent YTLIAUD		
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				Centralizer	abada.	nination of water or c	smoo vd beausa		
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Signature 1	ou w						INTOLIT AND IN		

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

Cell 785-324-1041	Twp.	Range	County	State 19VIA	On Location	Finish		
Date 7-4-15 2	20	arti 5 ) oltalom	Ness	K5 despited	ng bully cement, are	7:00 PM		
per "PENAOT CLUS" melt taovatni k	o esert rette	ding the maxim	Location Bc 2	DO Ro	75 DW	15 Ein		
let bus Alatelm a ed at bemoeb	der [	Well No. #/	Owner	any such interest should be	II wat aldadiiqqa 19	agree to pay und		
Lease Antenen	neitro	Well No. #	To Quality	Oilwell Cementing, Inc.	nali be deducted fro	excess interest s		
Contractor Discovery #3	AS level	grae that KANS	You are he	reby requested to rent and helper to assist ow	cementing equipmenter or contractor to de	t and turnish work as listed.		
Type Job Production Sti	1 2	1100		<u>ca for osa captono br</u>	I W <del>blev bna flun ora</del> - N 2533 V	<del>Televinos eirū nikw</del> Buricotta —		
Hole Size / /g	T.D.	44960	Ve ed Harris Viiso Di	Austrag Ene	to mas ent of bi	any way pertainin		
Csg. 5 /2	Depth	4498.00	· Olloct		as and alformay's law	nos eltanceser		
Tbg. Size	Depth	11117 01	City	mandise (isted in "QU). All prices are exclusiv	State	t or contractor		
Tool Part Collar	Depth	145/61		vas done to satisfaction a	_	agent or contractor		
Cement Left in Csg.	Shoe J	oint 42.4"	Cement Ai	mount Ordered 200	Q-pro-C	5% Dilan		
Meas Line	Displac	e 106 bb		1 - 61	Ne to de so beceuse	5% Gilgon		
JAUD vd berteinna 11,10 EQUIP	MENT	beliggus ed fliw	Common	200 @ pro-c	to get to or from the	sezadiupe paiilur		
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JOB SERVICES	& REMA	RKS	Hulls	I WAY TO BEEN SELVED LABIN TO COLLAR	ase degreed ed aw., L <u>OMA SMOFFIGMOS</u>	CONTROL STORES		
Remarks: O Medong of senting	roi aidail	ed fon liede YT	MAUS Salt /8	Salt o 18 LAUS broyed encilibroom remains bris in sheory when				
Rat Hole 30 sx	na remos	mnandisə, CAS	Flowseal	Flowseal				
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Centralizers 1,2,3,4,5	7.9	,76	Mud CLR	Mud CLR 48 500 90				
Baskets 6 + 7)	agamala	eservoir loss, o	CFL-117 c	CFL-117 or CD110 CAF 38				
Proper Port Collar 5+ 71	@ 1L	157.61	Sand	Ho sonamohed 2Y1	LIAUQ diw notioena	ng out of or In obj		
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X Signature	a solin	oo mennegerin			Total Charge	CTZLID ent to lo		



Mustang Energy Corp.

PO Box 1121 Antenen #1

Hays Ks 67601 Job Ticket: 62894

ATTN: Jeff Law ler Test Start: 2015.07.02 @ 01:55:00

2-20s-22w-Ness

Tester:

Unit No:

Dustin Ellis

59-Great Bend-130

DST#: 1

2258.00 ft (CF)

#### GENERAL INFORMATION:

Formation: Ft. Scott

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

Time Tool Opened: 03:56:30 Time Test Ended: 06:58:00

terval: 4290.00 ft (KB) To 4330.00 ft (KB) (TVD) Reference Elevations: 2265.00 ft (KB)

Interval: 4290.00 ft (KB) To 4330.00 ft (KB) (TVD)

Total Depth: 4330.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 7.00 ft

Serial #: 8525

Press@RunDepth: 24.64 psig @ ft (KB) Capacity: 5000.00 psig

 Start Date:
 2015.07.02
 End Date:
 2015.07.02
 Last Calib.:
 2015.07.02

 Start Time:
 01:56:00
 End Time:
 06:58:00
 Time On Btm:
 2015.07.02 @ 03:56:00

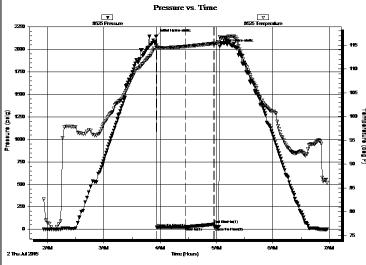
 Time Off Btm:
 2015.07.02 @ 05:03:30

TEST COMMENT: 1st Open 30 min Weak surface blow .

1st Shut in 30 min No blow back.

2nd Open 10 min Dead Flushed tool .No Help pulled tool.

2nd Shut in WA



	PRESSURE SUMMARY										
	Time	Pressure	Temp	Annotation							
	(Min.)	(psig)	(deg F)								
	0	2147.47	114.94	Initial Hydro-static							
	1	20.74	114.47	Open To Flow (1)							
	31	24.64	114.70	Shut-In(1)							
7	61	55.39	115.34	End Shut-In(1)							
e diu	62	25.51	115.35	Open To Flow (2)							
Temperature (deg F)	68	2033.96	116.72	Final Hydro-static							
(d e g											
9											

#### Recovery

Description	Volume (bbl)
Mud 100%	0.04
	·

Gas Rat	es	
Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)

Trilobite Testing, Inc Ref. No: 62894 Printed: 2015.07.02 @ 22:46:21



**FLUID SUMMARY** 

ppm

DST#: 1

Mustang Energy Corp.

ATTN: Jeff Law ler

2-20s-22w-Ness

PO Box 1121

Antenen #1

Serial #:

Hays Ks 67601

Job Ticket: 62894

Test Start: 2015.07.02 @ 01:55:00

Water Salinity:

**Mud and Cushion Information** 

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

Mud Weight: Cushion Length: 9.00 lb/gal ft Viscosity: 50.00 sec/qt

Cushion Volume: bbl

Water Loss: 9.59 in<sup>3</sup> Gas Cushion Type:

> Gas Cushion Pressure: psig

6800.00 ppm Salinity: Filter Cake: 1.00 inches

**Recovery Information** 

Resistivity:

Recovery Table

Volume Description Length ft bbl 8.00 Mud 100% 0.039

Total Length: Total Volume: 8.00 ft 0.039 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0

Laboratory Name: Laboratory Location:

Recovery Comments:

ohm.m

Printed: 2015.07.02 @ 22:46:22 Trilobite Testing, Inc Ref. No: 62894

Trilobite Testing, Inc



Mustang Energy Corp.

PO Box 1121 Hays Ks 67601

ATTN: Jeff Lawler

#### 2-20s-22w-Ness

#### Antenen #1

Job Ticket: 62895 **DST#: 2** 

Test Start: 2015.07.03 @ 04:50:00

#### **GENERAL INFORMATION:**

Formation: Basal Cherokee Sand

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:36:30 Time Test Ended: 11:02:00

Interval: 4320.00 ft (KB) To 4390.00 ft (KB) (TVD)

Total Depth: 4390.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)

Tester: Dustin Elis

Unit No: 59-Great Bend-130

Reference Elevations: 2265.00 ft (KB)

2258.00 ft (CF)

5000.00 psig

KB to GR/CF: 7.00 ft

Serial #: 8525 Inside

Press@RunDepth: 263.02 psig @ 4385.22 ft (KB) Capacity:

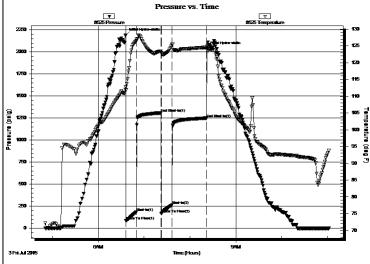
 Start Date:
 2015.07.03
 End Date:
 2015.07.03
 Last Calib.:
 2015.07.03

 Start Time:
 04:51:00
 End Time:
 11:02:00
 Time On Btm:
 2015.07.03 @ 06:36:00

 Time Off Btm:
 2015.07.03 @ 08:22:30

TEST COMMENT: 1st Open 15 min. BOB in 5 min.

1st Shut in 30 min. No blow back. 2nd Open 15 min BOB in 5 min. 2nd Shut in 45 min No blow back.



	FINESSUIN SUIVIIVIAIN										
	Time	Pressure	Temp	Annotation							
	(Min.)	(psig)	(deg F)								
	0	2190.01	112.75	Initial Hydro-static							
	1	85.84	111.84	Open To Flow (1)							
	14	181.98	126.46	Shut-In(1)							
	46	1307.33	123.39	End Shut-In(1)							
	47	167.63	122.91	Open To Flow (2)							
	61	263.02	125.45	Shut-In(2)							
ì	106	1248.52	124.53	End Shut-In(2)							
,	107	2037.15	124.82	Final Hydro-static							
			1								

PRESSURE SUMMARY

#### Recovery

Length (ft)	ngth (ft) Description	
380.00	380.00 GMCO 75%Oil 10%gas 15%mud	
200.00	200.00 GMCO 85%Oil 10%gas 5%mud	
0.00	95ft. gas in pipe	0.00

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

Trilobite Testing, Inc Ref. No: 62895 Printed: 2015.07.03 @ 11:41:40



**FLUID SUMMARY** 

ppm

Mustang Energy Corp.

2-20s-22w-Ness

PO Box 1121

Antenen #1

Hays Ks 67601

Job Ticket: 62895

DST#: 2

ATTN: Jeff Lawler

Test Start: 2015.07.03 @ 04:50:00

**Mud and Cushion Information** 

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

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

Viscosity: 50.00 sec/qt Cushion Volume: bbl

Water Loss: 9.59 in<sup>3</sup> Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 6800.00 ppm Filter Cake: 1.00 inches

#### **Recovery Information**

#### Recovery Table

Length ft	Description	Volume bbl
380.00	GMCO 75%Oil 10%gas 15%mud	5.045
200.00	GMCO 85%Oil 10%gas 5%mud	2.805
0.00	95ft. gas in pipe	0.000

Total Length: 580.00 ft Total Volume: 7.850 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 62895 Printed: 2015.07.03 @ 11:41:40

70

75

80

85

90

95

100

Temperature (deg F)

105

110

115

120

125

130