

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

1152832

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 II III Approved by: Date:

Page Two



Operator Name:			Lease Name: _			Well #:		
Sec Twp	S. R	East West	County:					
open and closed, flow and flow rates if gas t	ving and shut-in presson to surface test, along w	formations penetrated. I ures, whether shut-in pro vith final chart(s). Attach	essure reached stati n extra sheet if more	c level, hydrosta space is neede	itic pressures, bott d.	tom hole tempe	erature, fluid r	recovery,
		otain Geophysical Data a or newer AND an image		egs must be ema	ailed to kcc-well-lo	gs@kcc.ks.gov	 Digital elec 	tronic log
Drill Stem Tests Taken (Attach Additional	•	Yes No		_	on (Top), Depth ar		Samp	
Samples Sent to Geo	ological Survey	☐ Yes ☐ No	Nam	e		Тор	Datur	m
Cores Taken Electric Log Run		☐ Yes ☐ No ☐ Yes ☐ No						
List All E. Logs Run:								
		CASING	RECORD Ne	ew Used				
		Report all strings set-	conductor, surface, inte	ermediate, product	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 P Additiv	
		ADDITIONAL	OFMENTING / OOL					
Purpose:	Depth		CEMENTING / SQL	JEEZE RECORD		araant Additiraa		
Perforate	Top Bottom	Type of Cement	# Sacks Used		Type and F	ercent Additives		
Protect Casing Plug Back TD								
Plug Off Zone								
Did vou perform a hydra	ulic fracturing treatment o	on this well?		Yes	No (If No, ski	p questions 2 ar	nd 3)	
	=	raulic fracturing treatment ex	xceed 350,000 gallons		= ' '	p question 3)	,	
Was the hydraulic fractu	ring treatment information	n submitted to the chemical	disclosure registry?	Yes	No (If No, fill	out Page Three	of the ACO-1)	
Shots Per Foot		ON RECORD - Bridge Plug Footage of Each Interval Per			cture, Shot, Cement			Depth
	Сроспу Г	octago of Laon morvar i or	ioratou	(>1	mount and rand or ma	teriar Good)		Борит
TUBING RECORD:	Size:	Set At:	Packer At:	Liner Run:	Yes No			
Date of First, Resumed	Production, SWD or EN							
Fotimeted Device C	0" -	Flowing			Other (Explain)) O" D "		
Estimated Production Per 24 Hours	Oil E	Bbls. Gas	Mcf Wate	er B	bls. G	Gas-Oil Ratio	Gr 	ravity
DISPOSITI	ON OF GAS:	1	METHOD OF COMPLE	ETION:		PRODUCTIO	ON INTERVAL:	
Vented Sold		Open Hole	Perf. Dually	Comp. Con	mmingled			
	bmit ACO-18.)	Other (Specify)	(Submit)	ACO-5) (Sub	omit ACO-4)			

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

Phone 785-483-2025

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

Cell 785-324-1041						to at this contract.	under the regulariner	enialmut so, bige
elli ending "ATLIALIC"	Sec.	Twp.	Range	PEMO	County	State State	On Location	Finish
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Type Job Sur fact		AUD' to s	relige entite re	OMER	cementer an	nd helper to assist ov	vner or contractor to do	work as listed.
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QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

6791

Home Office P.O. Box 32 Russell, KS 67665 Phone 785-483-2025 Cell 785-324-1041 On Location Finish Sec. Twp. Range County State Location Na Well No. / -Owner 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. Mosterg Energy Hole Size T.D. 3753 Depth 3683 Street State Tbg. Size Depth City The above was done to satisfaction and supervision of owner agent or contractor. Depth Tool Cement Amount Ordered / 90 Cement Left in Csg. 42.40 Shoe Joint 42.40 Displace 86 3/41BL Meas Line EQUIPMENT Common Cementer Poz. Mix Pumptrk Helper Driver Gel. Bulktrk Driver Driver Bulktrk Calcium Driver JOB SERVICES & REMARKS Hulls Salt Remarks: Flowseal Rat Hole 305K Kol-Seal Mouse Hole 15.5K Centralizers CFL-117 or CD110 CAP 38 **Baskets** D/V or Port Collar Sand Handling Mileage FLOAT EQUIPMENT Guide Shoe Tunhols Centralizer **Baskets AFU Inserts** Float Shoe Latch Down Long String Pumptrk Charge Tax Discount X Signature Total Charge



Mustang Energy Corp

5-16-18, Rush, KS

PO Box 1121

Werth #1 Job Ticket: 50288

Tester:

Capacity:

DST#: 1

Hays KS 67601

Test Start: 2013.05.04 @ 00:40:00

ATTN: Herb Deines

GENERAL INFORMATION:

KC"C" Formation:

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:06:00 Time Test Ended: 06:44:30

Interval: 3330.00 ft (KB) To 3360.00 ft (KB) (TVD)

Total Depth: 3360.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair Test Type: Conventional Bottom Hole (Initial)

Brett Dickinson

Unit No: 59

Reference Elevations:

2034.00 ft (KB)

2027.00 ft (CF)

8000.00 psig

KB to GR/CF: 7.00 ft

Serial #: 8319 Inside

Press@RunDepth: 3334.00 ft (KB) 254.94 psig @

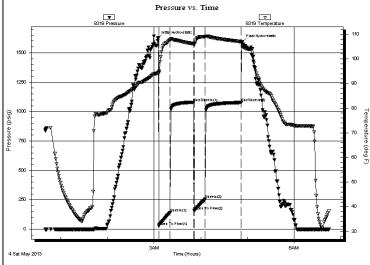
Start Date: 2013.05.04 End Date: 2013.05.04 Last Calib.: 2013.05.04 Start Time: 00:40:05 End Time: 2013.05.04 @ 03:05:00 06:44:29 Time On Btm:

> Time Off Btm: 2013.05.04 @ 04:53:30

> > PRESSURE SUMMARY

TEST COMMENT: IF-BOB in 6min

ISI-No blow FF-BOB in 7min FSI-No blow



1	Time	Pressure	Temp	Annotation
	(Min.)	(psig)	(deg F)	
	0	1623.94	94.41	Initial Hydro-static
	1	26.59	94.12	Open To Flow (1)
	16	142.74	107.80	Shut-In(1)
,	46	1079.29	106.07	End Shut-In(1)
	47	158.78	105.85	Open To Flow (2)
-	61	254.94	109.04	Shut-In(2)
(doa	107	1077.28	107.02	End Shut-In(2)
9	109	1594.98	105.38	Final Hydro-static

Cac Datas

Recovery

Length (ft)	Description	Volume (bbl)
435.00	Water	5.83
60.00	MCW 30%M 70%W	0.84
-		

Oas Nai		
Choko (inchos)	Proceuro (peig)	Gas Pato (Mcf/d)

Trilobite Testing, Inc. Ref. No: 50288 Printed: 2013.05.04 @ 06:54:43



FLUID SUMMARY

Mustang Energy Corp

5-16-18, Rush, KS

PO Box 1121

Werth #1

Hays KS 67601

Job Ticket: 50288

DST#:1

ATTN: Herb Deines

Test Start: 2013.05.04 @ 00:40:00

Mud and Cushion Information

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

Viscosity: 55.00 sec/qt Cushion Volume: bbl

Water Loss: 7.60 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1750.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
435.00	Water	5.829
60.00	MCW 30%M 70%W	0.842

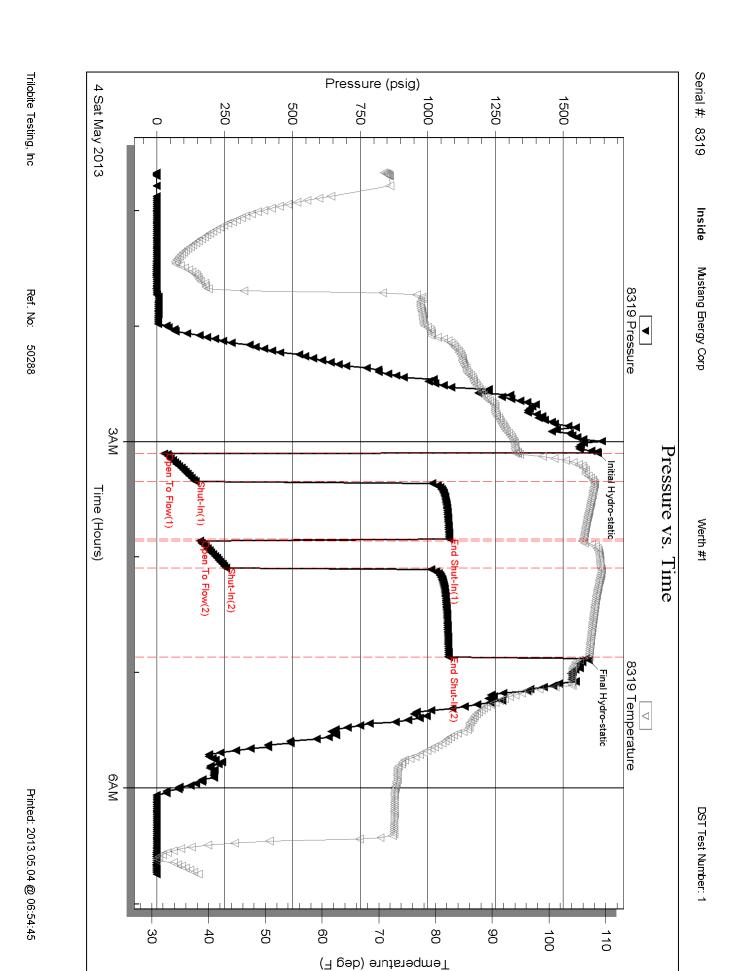
Total Length: 495.00 ft Total Volume: 6.671 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 50288 Printed: 2013.05.04 @ 06:54:45





Mustang Energy Corp

5-16-18, Rush, KS

PO Box 1121 Hays KS 67601 Werth #1

Job Ticket: 50289

DST#: 2

ATTN: Herb D

Test Start: 2013.05.05 @ 01:40:00

GENERAL INFORMATION:

Formation: Arb.

Total Depth:

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

Time Tool Opened: 03:45:30 Tester: Brett Dickinson
Time Test Ended: 08:30:00 Unit No: 59

110 100t Eliada. 00.00.00

Interval: 3556.00 ft (KB) To 3615.00 ft (KB) (TVD) Reference Elevations: 2034.00 ft (KB)

2027.00 ft (CF)

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

Serial #: 8319 Inside

Press@RunDepth: 58.53 psig @ 3560.00 ft (KB) Capacity: 8000.00 psig

 Start Date:
 2013.05.05
 End Date:
 2013.05.05
 Last Calib.:
 2013.05.05

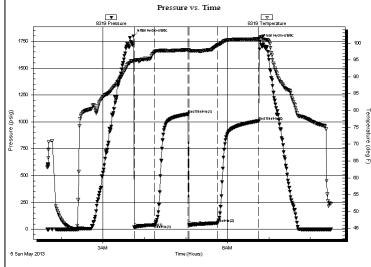
 Start Time:
 01:40:05
 End Time:
 08:29:59
 Time On Btm:
 2013.05.05 @ 03:44:30

Time Off Btm: 2013.05.05 @ 06:47:30

TEST COMMENT: IF-5in blow

ISI-No blow FF-4in blow FSI-No blow

3615.00 ft (KB) (TVD)



	PRESSURE SUMMARY					
1	Time	Pressure	Temp	Annotation		
	(Min.)	(psig)	(deg F)			
	0	1796.80	94.75	Initial Hydro-static		
	1	17.99	94.51	Open To Flow (1)		
	31	41.29	97.31	Shut-In(1)		
۱,	79	1071.62	98.00	End Shut-In(1)		
Temperature	80	36.74	97.75	Open To Flow (2)		
ratine	122	58.53	99.41	Shut-In(2)		
neb)	181	1008.84	101.21	End Shut-In(2)		
ן פ	183	1747.35	101.89	Final Hydro-static		

Cac Datas

Recovery

Length (ft)	Description	Volume (bbl)
40.00	OCM 45%O 55%M	0.29
45.00	MCO 60%O 40%M	0.63
15.00	SGO SGO 15%G 85%O	0.21
* Recovery from mult	tiple tests	

Ous rui		
Chalco (inabas)	Drocoure (poig)	Coo Roto (Mof/d)

Trilobite Testing, Inc Ref. No: 50289 Printed: 2013.05.05 @ 22:47:12



FLUID SUMMARY

Mustang Energy Corp

5-16-18, Rush, KS

PO Box 1121 Hays KS 67601 Werth #1

Job Ticket: 50289 **DST#: 2**

ATTN: Herb D

Test Start: 2013.05.05 @ 01:40:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Viscosity: 55.00 sec/qt Cushion Volume: bbl

Water Loss: 7.59 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1750.00 ppm Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	OCM 45%O 55%M	0.288
45.00	MCO 60%O 40%M	0.631
15.00	SGO SGO 15%G 85%O	0.210

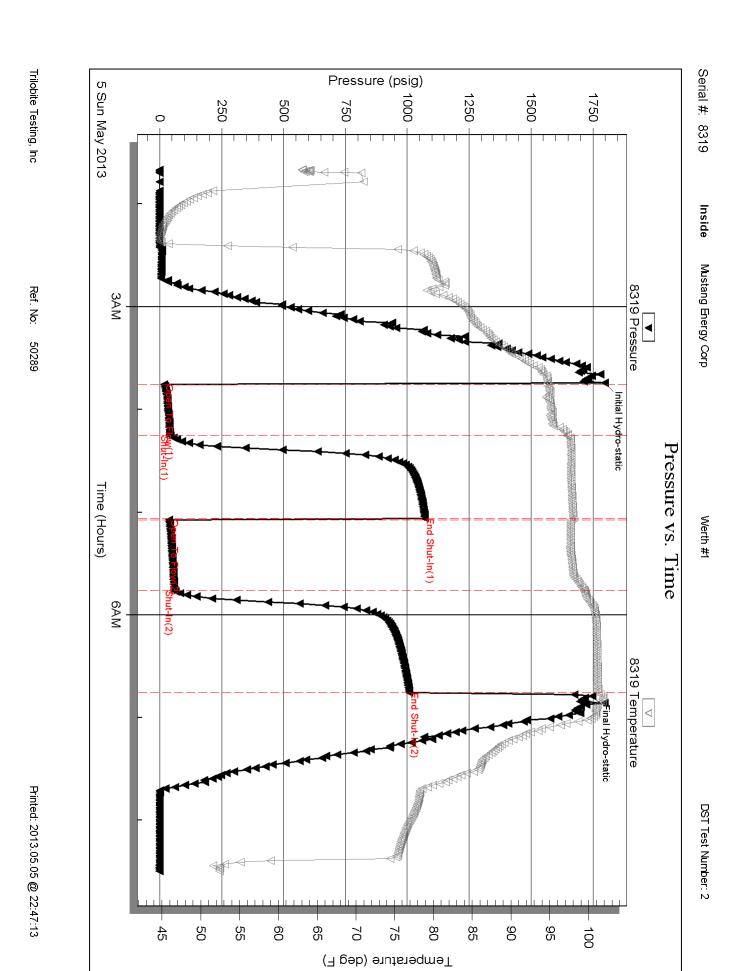
Total Length: 100.00 ft Total Volume: 1.129 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 50289 Printed: 2013.05.05 @ 22:47:12





Mustang Energy Corp

Werth #1

PO Box 1121 Hays KS 67601

Job Ticket: 50290

Tester:

5-16-18, Rush, KS

DST#:3

ATTN: Herb D

Test Start: 2013.05.05 @ 21:30:00

GENERAL INFORMATION:

Formation: Cong-Arb

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

Time Tool Opened: 23:01:30 Time Test Ended: 03:47:00

Unit No: 59

Reference Elevations:

Brett Dickinson

3552.00 ft (KB) To 3632.00 ft (KB) (TVD)

2034.00 ft (KB)

Total Depth: 3675.00 ft (KB) (TVD)

2027.00 ft (CF) KB to GR/CF: 7.00 ft

Hole Diameter: 7.88 inches Hole Condition: Fair

Inside

Serial #: 8319

Interval:

Press@RunDepth: 60.20 psig @ 3628.00 ft (KB) Capacity: 8000.00 psig

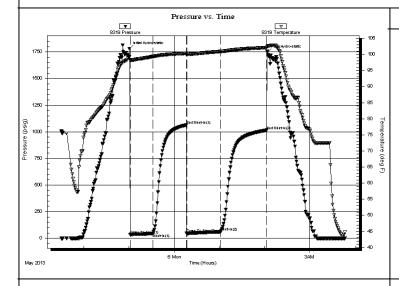
 Start Date:
 2013.05.05
 End Date:
 2013.05.06
 Last Calib.:
 2013.05.06

 Start Time:
 21:30:05
 End Time:
 03:46:59
 Time On Btm:
 2013.05.05 @ 23:00:30

 Time Off Btm:
 2013.05.06 @ 02:04:00

TEST COMMENT: IF-4in blow

ISI-No blow FF-3in blow FSI-No blow



PRESSURE SUMMARY

Time	Pressure	Temp	Annotation
(Min.)	(psig)	(deg F)	
0	1780.15	99.15	Initial Hydro-static
1	34.33	98.11	Open To Flow (1)
31	44.04	99.29	Shut-In(1)
76	1063.15	100.31	End Shut-In(1)
77	45.68	100.05	Open To Flow (2)
121	60.20	100.87	Shut-In(2)
182	1014.11	102.06	End Shut-In(2)
184	1745.65	102.46	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)	
85.00	OCM 30%O 70%M	0.92	
15.00	SGO 10%G 90%O	0.21	
* Recovery from multiple tests			

Gas Rates

Choke (inches)	Pressure (psig)	Gas Rate (Mcf/d)
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Trilobite Testing, Inc Ref. No: 50290 Printed: 2013.05.06 @ 06:23:13



Mustang Energy Corp

5-16-18, Rush, KS

PO Box 1121 Hays KS 67601 Werth #1

Job Ticket: 50290

DST#:3

ATTN: Herb D

Test Start: 2013.05.05 @ 21:30:00

Test Type: Conventional Straddle (Reset)

GENERAL INFORMATION:

Formation: Cong-Arb

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 23:01:30 Time Test Ended: 03:47:00

Interval:

Tester: Brett Dickinson
Unit No: 59

3552.00 ft (KB) To 3632.00 ft (KB) (TVD)

Reference Elevations: 2034.00 ft (KB)

Total Depth: 3675.00 ft (KB) (TVD)

2027.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 7.00 ft

Serial #: 6753 Below (Straddle)

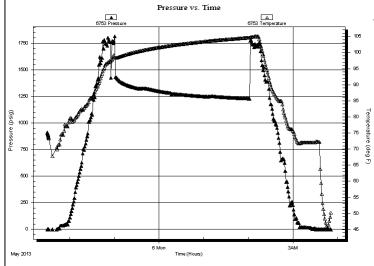
 Press@RunDepth:
 psig
 @ 3637.00 ft (KB)
 Capacity:
 8000.00 psig

Start Date: 2013.05.05 End Date: 2013.05.06 Last Calib.: 2013.05.06

Start Time: 21:30:05 End Time: 03:50:29 Time On Btm: Time Off Btm:

TEST COMMENT: IF-4in blow

ISI-No blow FF-3in blow FSI-No blow



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

PRESSURE SUMMARY

Recovery

Length (ft)	Description	Volume (bbl)		
85.00	OCM 30%O 70%M	0.92		
15.00	SGO 10%G 90%O	0.21		
* Recovery from multiple tests				

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

Trilobite Testing, Inc Ref. No: 50290 Printed: 2013.05.06 @ 06:23:13



FLUID SUMMARY

Mustang Energy Corp

5-16-18, Rush, KS

PO Box 1121 Hays KS 67601 Werth #1

Job Ticket: 50290

DST#:3

ATTN: Herb D

Test Start: 2013.05.05 @ 21:30:00

Mud and Cushion Information

Mud Type:Gel ChemCushion Type:Oil A Pl:deg A PlMud Weight:9.00 lb/galCushion Length:ftWater Salinity:ppm

Mud Weight:9.00 lb/galCushion Length:ftViscosity:55.00 sec/qtCushion Volume:bbl

7.59 in³ Gas Cushion Type:

Resistivity: ohm.m Gas Cushion Pressure: psig

Salinity: 1750.00 ppm Filter Cake: inches

Recovery Information

Water Loss:

Recovery Table

Length ft	Description	Volume bbl
85.00	OCM 30%O 70%M	0.919
15.00	SGO 10%G 90%O	0.210

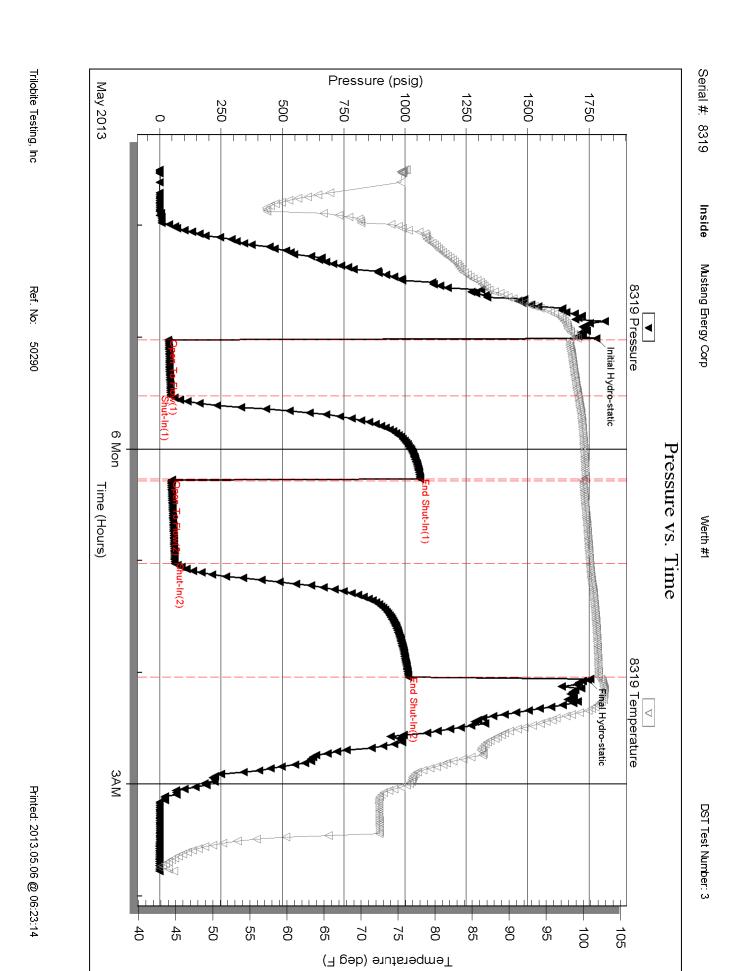
Total Length: 100.00 ft Total Volume: 1.129 bbl

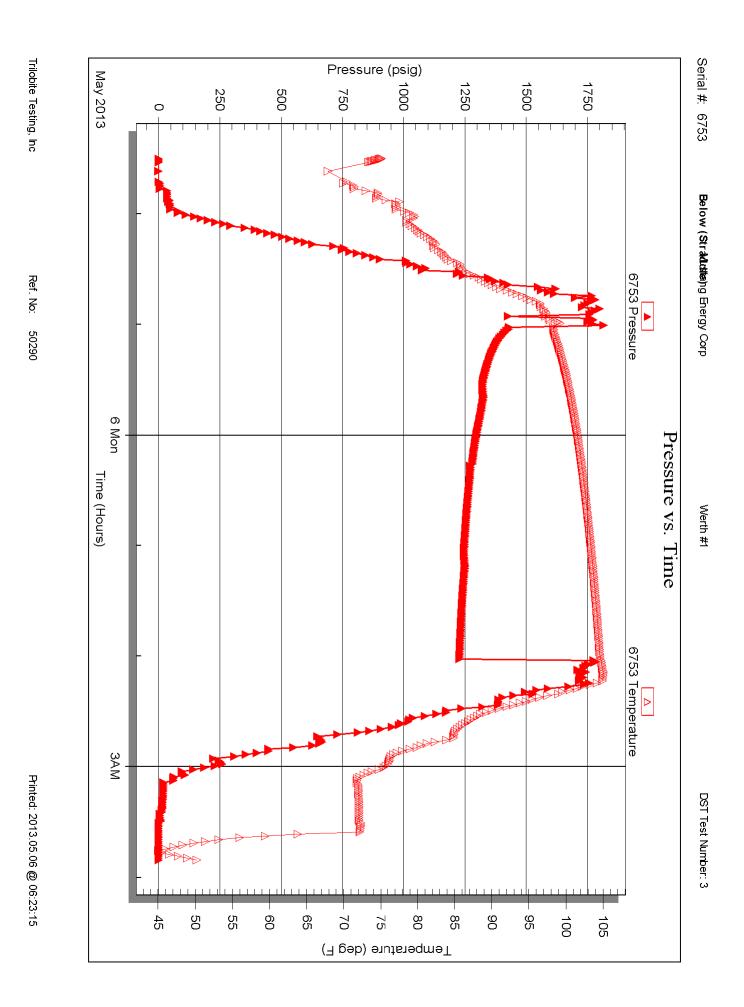
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:

Trilobite Testing, Inc Ref. No: 50290 Printed: 2013.05.06 @ 06:23:14





Conservation Division Finney State Office Building 130 S. Market, Rm. 2078 Wichita, KS 67202-3802



Phone: 316-337-6200 Fax: 316-337-6211 http://kcc.ks.gov/

Sam Brownback, Governor

Mark Sievers, Chairman Thomas E. Wright, Commissioner Shari Feist Albrecht, Commissioner

July 23, 2013

Rodney Brin Mustang Energy Corporation PO BOX 1121 HAYS, KS 67601

Re: ACO1 API 15-165-22023-00-00 Werth 1-5 SW/4 Sec.05-16S-18W Rush County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully, Rodney Brin