



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1139717
OIL & GAS CONSERVATION DIVISION

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 # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- 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:

Operator: _____

Well Name: _____

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 #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ Feet

Multiple Stage Cementing Collar Used? Yes No

If yes, show depth set: _____ Feet

If Alternate II completion, cement circulated from: _____

feet depth to: _____ w/ _____ sx cmt.

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:

Operator Name: _____

Lease Name: _____ License #: _____

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: _____



1139717

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, 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 / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method:
 Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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OPERATOR

Company: MUSTANG ENERGY CORPORATION
 Address: PO BOX 1121
 HAYS, KANSAS 67601

Contact Geologist: ROD BRIN
 Contact Phone Nbr: 785-623-0533
 Well Name: GOTTSCHALK # 1
 Location: E2 NW NW NE Sec.2-16s-19w
 Pool: WILDCAT
 State: KANSAS
 API: 15-165-22,014-00-00
 Field: UNNAMED
 Country: USA

Scale 1:240 Imperial

Well Name: GOTTSCHALK # 1
 Surface Location: E2 NW NW NE Sec.2-16s-19w
 Bottom Location:
 API: 15-165-22,014-00-00
 License Number: 33922
 Spud Date: 3/4/2013 Time: 6:45 PM
 Region: RUSH COUNTY
 Drilling Completed: 3/11/2013 Time: 11:28 AM
 Surface Coordinates: 330' FNL & 2005' FEL
 Bottom Hole Coordinates:
 Ground Elevation: 2000.00ft
 K.B. Elevation: 2008.00ft
 Logged Interval: 2900.00ft To: 3650.00ft
 Total Depth: 3650.00ft
 Formation: LANSING-KANSAS CITY
 Drilling Fluid Type: CHEMICAL/FRESH WATER GEL

SURFACE CO-ORDINATES

Well Type: Vertical
 Longitude: Latitude:
 N/S Co-ord: 330' FNL
 E/W Co-ord: 2005' FEL

LOGGED BY

Company: SOLUTIONS CONSULTING, INC
 Address: 108 W 35TH
 HAYS, KS 67601

Phone Nbr: (785) 639-1337
 Logged By: Geologist Name: HERB DEINES

CONTRACTOR

Contractor: DISCOVERY DRILLING INC
 Rig #: 4
 Rig Type: MUD ROTARY
 Spud Date: 3/4/2013 Time: 6:45 PM
 TD Date: 3/11/2013 Time: 11:28 AM
 Rig Release: 3/12/2013 Time: 10:00 AM

ELEVATIONS

K.B. Elevation: 2008.00ft Ground Elevation: 2000.00ft
 K.B. to Ground: 8.00ft

NOTES


RECOMMENDATION TO RUN PRODUCTION CASING TO FURTHER TEST AND DEVELOP PAY ZONES IN LANSING-KANSAS CITY AND ARBUCKLE.

DRILL STEM TESTING: TRILOBITE TESTING INC.: FOUR (4) CONVENTIONAL AND ONE(1) CONVENTIONAL STRADDLE TEST

SUMMARY OF FORMATION TOPS:

ANHYDRITE TOP	1207+ 801
ANHYDRITE BASE	1239+ 769
TOPEKA	2965- 957
HEEBNER SHALE	3249-1241
TORONTO	3269-1261
LKC	3294-1286
BKC	3537-1529
MARMATON	3566-1558
ARBUCKLE	3580-1572
REAGAN SS	3638-1630
RTD	3650-1642
LTD	3651-1643

DST # 1 "H" "I" LKC

	DRILL STEM TEST REPORT	
	Mustang Energy Corporation PO Box 1121 Hays, KS. 67601 ATTN: Herb Deines	2-16s-19w-Rush Gottschalk #1 Job Ticket: 50545 DST#: 1 Test Start: 2013.03.09 @ 01:42:10

GENERAL INFORMATION:

Formation: **H-I**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 03:51:40
 Time Test Ended: 07:52:10

Test Type: Conventional Bottom Hole (Initial)
 Tester: Jason McLemore
 Unit No: 54

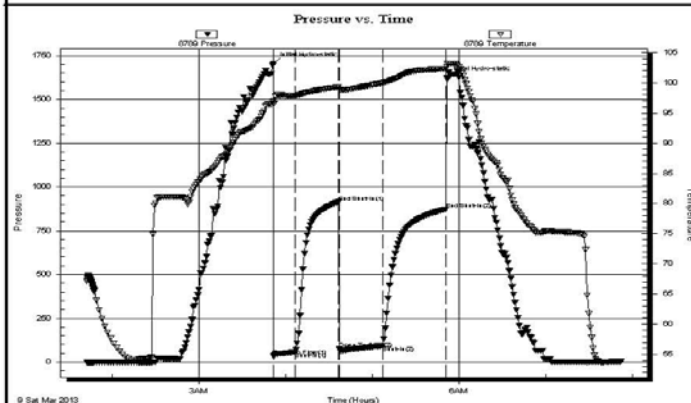
Interval: **3412.00 ft (KB) To 3467.00 ft (KB) (TVD)**
 Total Depth: 3467.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good

Reference Elevations: 2008.00 ft (KB)
 2000.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8789 Inside

Press@RunDepth: 91.98 psig @ 3449.00 ft (KB)
 Start Date: 2013.03.09 End Date: 2013.03.09 Capacity: 8000.00 psig
 Start Time: 01:42:12 End Time: 07:52:10
 Time On Btm: 2013.03.09 @ 03:51:25
 Time Off Btm: 2013.03.09 @ 05:51:25

TEST COMMENT: IFF-Good Blow, BOB in 8 Min.
 ISI-Blow back Built to 3/4"
 FFP-Good Blow, BOB in 4 Min.
 FSI-Blow back Built to 1-1/4"



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1705.54	97.00	Initial Hydro-static
1	36.10	96.51	Open To Flow (1)
15	57.07	97.88	Shut-In(1)
45	914.22	99.32	End Shut-In(1)
46	73.34	98.96	Open To Flow (2)
76	91.98	99.97	Shut-In(2)
120	873.10	102.31	End Shut-In(2)
120	1624.14	102.71	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
60.00	V SOCMW-5% O-85% W-10% M	0.57
60.00	Frothy OCVM-35% G-30% O-15% W-20% M	0.84
30.00	HOCVM-40% O-10% W-50% M	0.42

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


0.00	210' Gas In Pipe	0.00

Trilobite Testing, Inc

Ref. No: 50545

Printed: 2013.03.09 @ 22:51:01

DST # 2 "J" "K" LKC

 TRILOBITE TESTING, INC.	DRILL STEM TEST REPORT	
	Mustang Energy Corporation	2-16s-19w-Rush
	PO Box 1121 Hays, KS. 67601 ATTN: Herb Deines	Gottschalk #1 Job Ticket: 50546 DST#: 2 Test Start: 2013.03.09 @ 15:10:10

GENERAL INFORMATION:

Formation: **J-K**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 16:42:40
 Time Test Ended: 19:43:55

Interval: 3462.00 ft (KB) To 3517.00 ft (KB) (TVD)
 Total Depth: 3517.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good

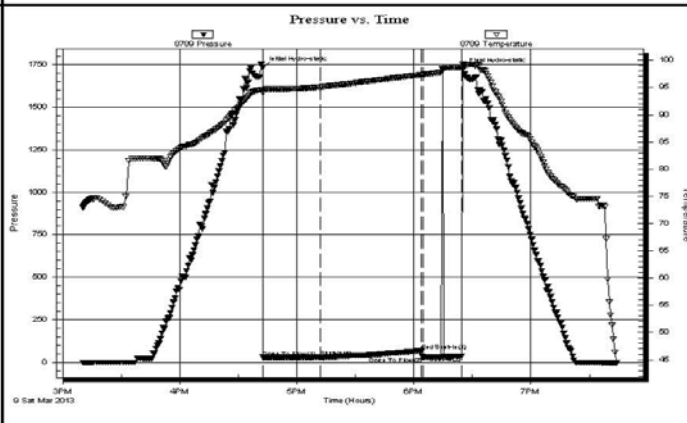
Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54

Reference Elevations: 2008.00 ft (KB)
 2000.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8789 Inside

Press@RunDepth: 30.03 psig @ 3499.00 ft (KB)	Capacity: 8000.00 psig
Start Date: 2013.03.09	Last Calib.: 2013.03.09
Start Time: 15:10:12	Time On Btm: 2013.03.09 @ 16:42:25
End Date:	Time Off Btm: 2013.03.09 @ 18:25:10
End Time: 19:43:55	

TEST COMMENT: IFF-Dead
 ISI-Dead
 FFP_Dead, Flush Tool, Still Dead. Pull Tool



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1732.73	94.53	Initial Hydro-static
1	28.94	94.11	Open To Flow (1)
30	30.03	95.10	Shut-In(1)
82	68.98	97.35	End Shut-In(1)
82	30.94	97.36	Open To Flow (2)
103	34.59	98.73	Shut-In(2)
103	1722.87	99.37	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
6.00	Drilling Mud	0.03

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

Trilobite Testing, Inc

Ref. No: 50546

Printed: 2013.03.09 @ 22:52:00

DST # 3 ARBUCKLE



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mustang Energy Corporation
 PO Box 1121
 Hays, KS. 67601
 ATTN: Herb Deines

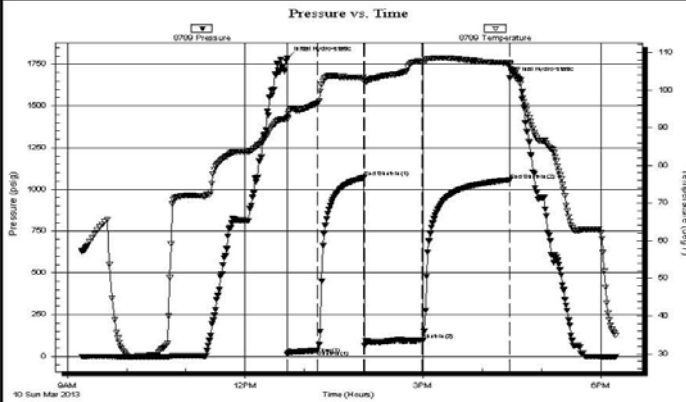
2-16s-19w-Rush
Gottschalk #1
 Job Ticket: 50547 **DST#: 3**
 Test Start: 2013.03.10 @ 09:14:41

GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 12:42:56
 Time Test Ended: 18:15:26
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54
 Interval: **3572.00 ft (KB) To 3591.00 ft (KB) (TVD)**
 Total Depth: 3591.00 ft (KB) (TVD)
 Reference Elevations: 2008.00 ft (KB)
 Hole Diameter: 7.80 inches Hole Condition: Good
 KB to GR/CF: 8.00 ft

Serial #: 8789 Inside
 Press@RunDepth: 96.95 psig @ 3573.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.03.10 End Date: 2013.03.10 Last Calib.: 2013.03.10
 Start Time: 09:14:43 End Time: 18:15:26 Time On Btm: 2013.03.10 @ 12:42:41
 Time Off Btm: 2013.03.10 @ 16:28:11

TEST COMMENT: IFP-Fair Blow, Built to 5-3/4"
 ISI-Intermittant Surface Blow back for 12 Min.
 FFP-Weak Blow, Built to 4-1/2"
 FSI-Dead



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1789.08	92.86	Initial Hydro-static
1	13.29	92.40	Open To Flow (1)
31	37.40	96.52	Shut-In(1)
78	1070.79	103.40	End Shut-In(1)
79	63.53	102.13	Open To Flow (2)
136	96.95	107.66	Shut-In(2)
225	1056.85	107.20	End Shut-In(2)
226	1666.89	106.88	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
50.00	OCM-25%O-75%M	0.43
100.00	Free Oil	1.40
0.00	120' Gas In Pipe	0.00

Gas Rates

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

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 50547

Printed: 2013.03.10 @ 22:46:11

DST # 4 ARBUCKLE - 6' DEEPER THEN TEST # 3



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mustang Energy Corporation
 PO Box 1121
 Hays, KS. 67601
 ATTN: Herb Deines

2-16s-19w-Rush
Gottschalk #1
 Job Ticket: 50548 **DST#: 4**
 Test Start: 2013.03.10 @ 22:44:03

GENERAL INFORMATION:

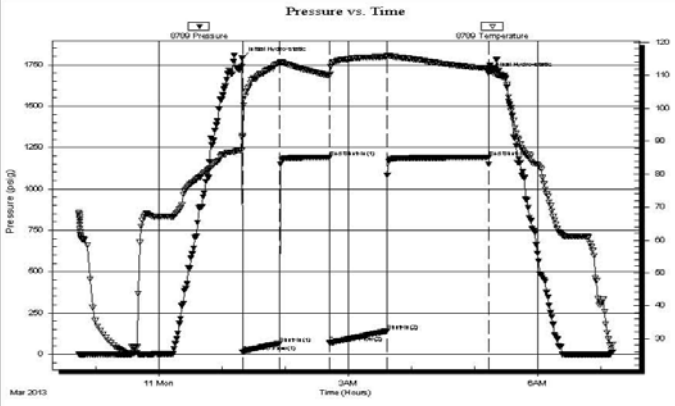
Formation: **Arbuckle**
 Deviated: No Whipstock: 0.00 ft (KB)
 Time Tool Opened: 01:19:18
 Time Test Ended: 07:10:33
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Jason McLemore
 Unit No: 54

Time Test Ended: 07:10:33
Interval: 3590.00 ft (KB) To 3597.00 ft (KB) (TVD)
 Total Depth: 3597.00 ft (KB) (TVD)
 Hole Diameter: 7.80 inches Hole Condition: Good

Unit No. 54
 Reference Elevations: 2008.00 ft (KB)
 2000.00 ft (CF)
 KB to GR/CF: 8.00 ft

Serial #: 8789 Inside
 Press@RunDepth: 140.26 psig @ 3591.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.03.10 End Date: 2013.03.11 Last Calib.: 2013.03.11
 Start Time: 22:44:05 End Time: 07:10:33 Time On Btm: 2013.03.11 @ 01:19:03
 Time Off Btm: 2013.03.11 @ 05:13:18

TEST COMMENT: IFF-Fair Blow, Built to 7-1/2"
 ISI-A Few Scattered Bubbles of Blow back
 FFP-Fair Blow, Built to 6"
 FSI-Dead



PRESSURE SUMMARY			
Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1790.30	91.18	Initial Hydro-static
1	12.79	91.64	Open To Flow (1)
36	67.20	113.80	Shut-In(1)
83	1189.46	109.91	End Shut-In(1)
84	69.17	110.24	Open To Flow (2)
138	140.26	115.69	Shut-In(2)
234	1189.51	112.11	End Shut-In(2)
235	1696.74	112.20	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
280.00	Muddy Water W/Oil Scum	3.65
1.00	Free Oil	0.01
0.00	30' Gas In Pipe	0.00

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

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No: 50548

Printed: 2013.03.11 @ 08:17:18

DST # 5 STRADDLE TEST OF "C" - "D" TOP PACKER HELD THRU 1ST OPEN AND FAILED DURING SHUT IN PERIOD

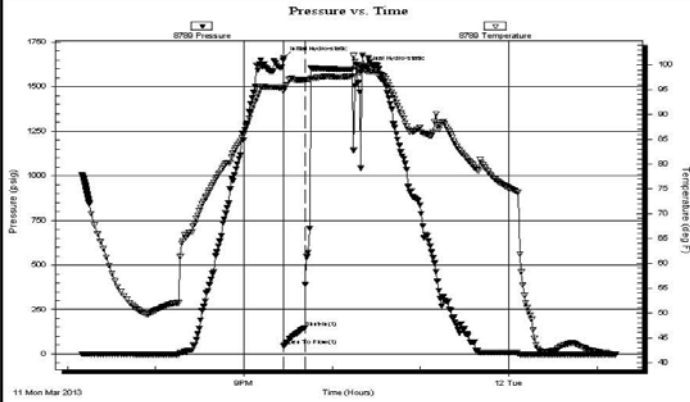


DRILL STEM TEST REPORT
 Mustang Energy Corporation **2-16s-19w-Rush**
 PO Box 1121 **Gottschalk #1**
 Hays, KS. 67601 Job Ticket: **DST#: 5**
 ATTN: Herb Deines Test Start: 2013.03.11 @ 19:09:48

GENERAL INFORMATION:
 Formation: **C-D**
 Deviated: No Whipstock: 0.00 ft (KB) Test Type: Conventional Straddle (Reset)
 Time Tool Opened: 21:27:03 Tester: Jason McLemore
 Time Test Ended: 01:12:48 Unit No: 54
Interval: 3302.00 ft (KB) To 3348.00 ft (KB) (TVD) Reference Elevations: 2008.00 ft (KB)
 Total Depth: 3651.00 ft (KB) (TVD) 2000.00 ft (CF)
 Hole Diameter: 7.80 inches Hole Condition: Good KB to GR/CF: 8.00 ft

Serial #: 8789 Inside
 Press@RunDepth: psig @ 3339.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2013.03.11 End Date: 2013.03.12 Last Calib.: 2013.03.12
 Start Time: 19:09:50 End Time: 01:12:48 Time On Btm: 2013.03.11 @ 21:26:48
 Time Off Btm: 2013.03.11 @ 22:20:03

TEST COMMENT: IFF-Strong Blow, BOB in 4 Min.
 ISI-Dead
 FFP-BOB on Open, Lost Packer Seat, Pull Tool



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1660.82	95.47	Initial Hydro-static
1	48.03	94.71	Open To Flow (1)
15	147.90	96.91	Shut-In(1)
54	1610.93	99.21	Final Hydro-static

Length (ft)	Description	Volume (bbl)
420.00	Drilling Mud	5.62
120.00	Watery Mud 50/50	1.68

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

* Recovery from multiple tests

Trilobite Testing, Inc

Ref. No:

Printed: 2013.03.12 @ 06:18:34

ROCK TYPES

	Clystgy		Lmst fw>7		Carbon Sh		Dol Lime
	Dolprim		shale, grn		shale, red		Lscongl
	Lmst fw<7		shale, gry		Ss		

ACCESSORIES

MINERAL

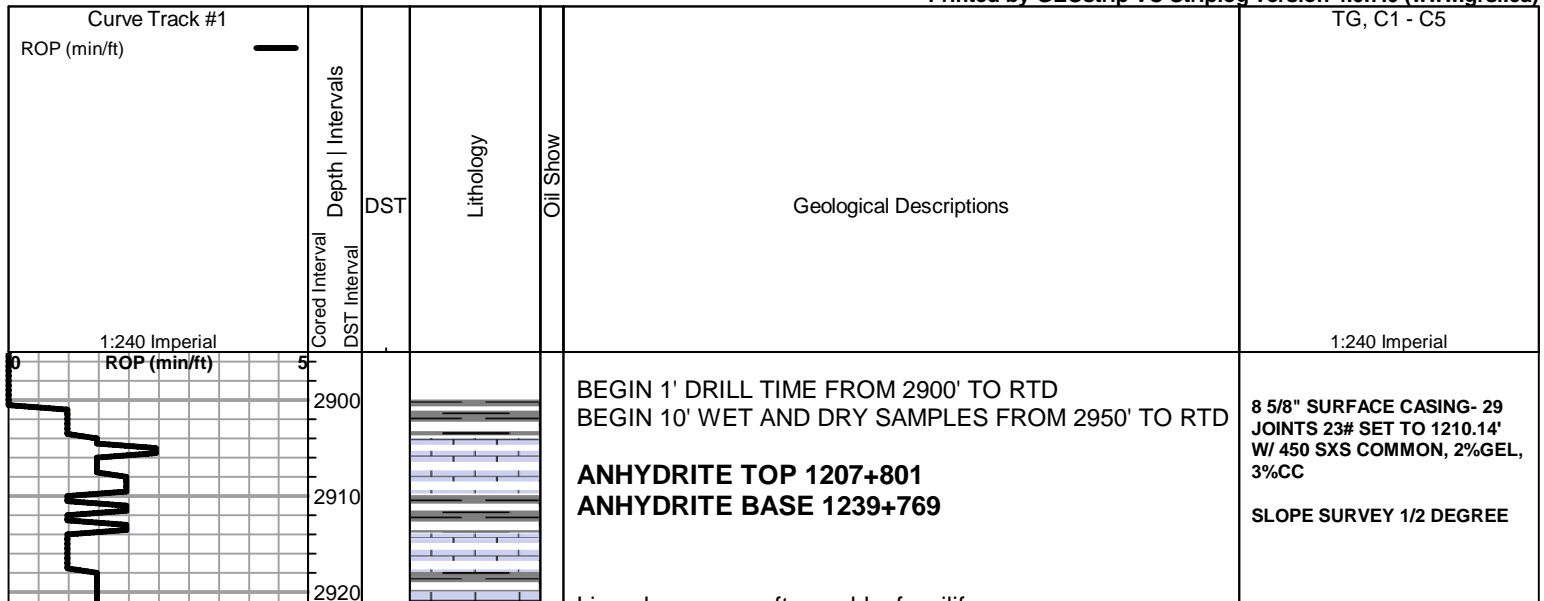
- ▲ Chert, dark
- ⊘ Nodules
- P Pyrite
- Sandy
- Varicolored chert
- △ Chert White

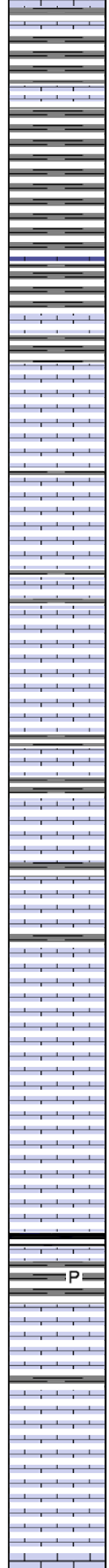
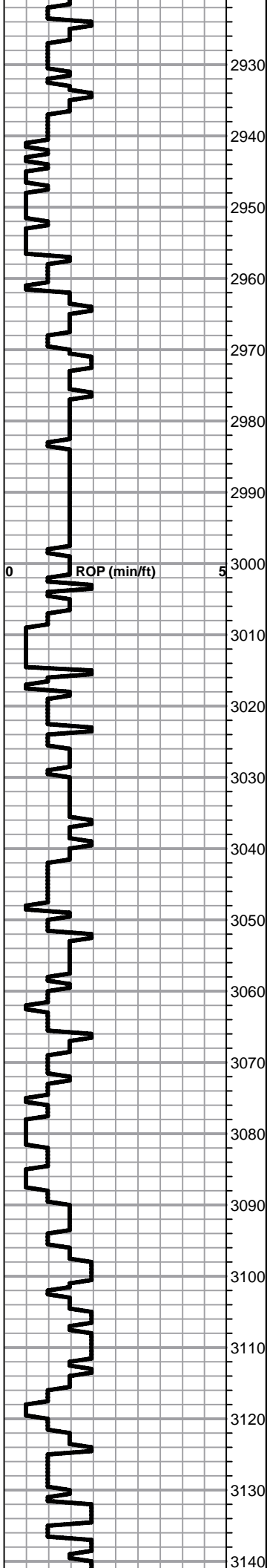
OTHER SYMBOLS

DST

- DST Int
- DST alt
- Core

Printed by GEOstrip VC Striplog version 4.0.7.0 (www.grsi.ca)





Lime, brn-gray, soft crumbly, fossiliferous
 Shale, lt gray, soft mud-sticky clumps

Lime, lt brn, soft on crush, slightly fossiliferous
 Shale, lt gray, soft, sticky clumps

Shale, lt-med gray, soft blocky - sticky argillaceous clumps

TOPEKA 2965-957

Lime, lt brn-gray, fnxln, trashy boundary with dark gray shaley lime near shale boundary

Lime, med brn-grayish brn, fnxln, soft on crush, slight chalk

Lime, med brn-grayish brn, fnxln, soft on crush

Lime, lt-med brn, fnxln, soft chalky matrix in part, slightly fossiliferous

Lime, lt-med brn-grayish brn, fnxln, with soft chalk matrix in part

Lime, speckled gray granular lime with chalk matrix, NS

Lime, lt-med brn-grayish brn, fnxln

Lime, lt-med brn, soft chalk matrix, NS
 Shale, dove gray, soft argillaceous clumps

Lime, lt-med brn, soft chalk matrix with sticky chalk clumps

Lime, lt-med brn, fnxln-granular, fusulinids

Lime, lt-med brn, fnxln-granular, scattered fusulinids

Lime, lt-med brn-grayish brn, granular with chalk matrix in part, slightly fossiliferous

Lime, lt-med brn, granular, chalky matrix, slightly fossiliferous

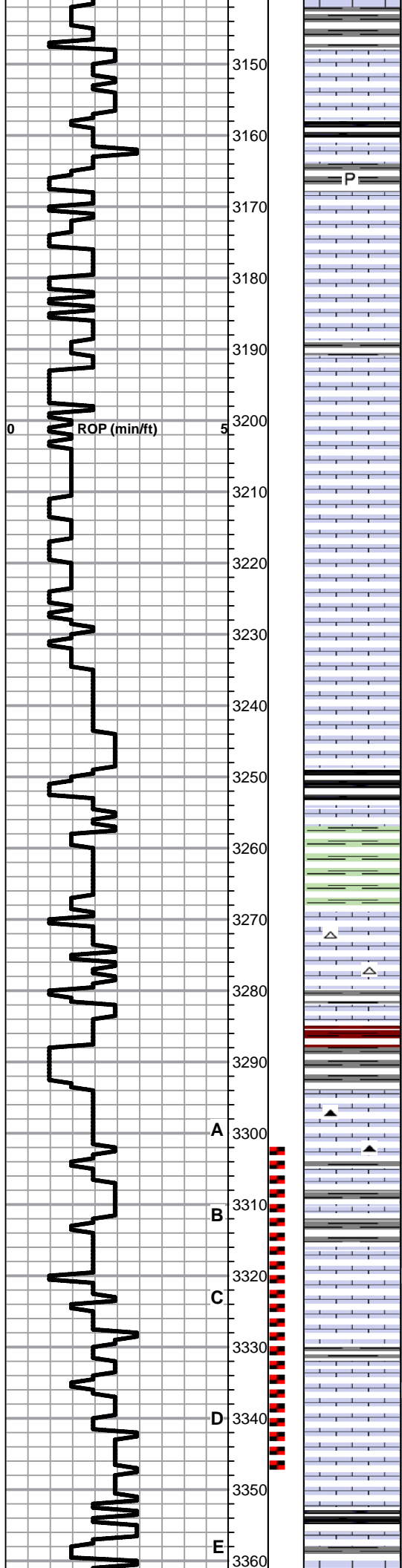
Shale, black carbonaceous
 Lime, med brn, fnxln

Lime, crm-lt brn, fnxln, bedded chalk in part

Shale, med-dark gray, soft blocky
 Lime, crm-lt brn, fnxln, bedded chalk in part, NS

Lime, lt-med brn, granular, slightly fossiliferous-fusulinids
 slight chalk in part

Lime, crm-lt brn, increasing fnxln, slight chalk



Lime, lt brn, fnxln grading into dark brn-grayish brn near shale boundary

Shale, black carbonaceous, blocky

P

Lime, offwhite-lt brn, mostly granular, slight chalk NS

Lime, lt-med brn, granular with fnxln in part

Lime, lt-med brn, mostly granular, bed chalk in part

Lime, lt-med brn, granular, scattered bedded chalk

Lime, crm-lt brn, granular-fnxln, slight chalk

Lime, crm-lt brn, granular, scattered chalk
1 chip granular w/ ppt porosity,
SFO on crush with lt odor, source?

Lime, lt-med brn, granular, bedded chalk

Lime, lt-med brn, granular-fnxln, bedded chalk

HEEBNER SHALE 3249-1241

Shale, black carbonaceous, fissile, blocky

Lime, med brn, vfxln, hard on crush

Shale, lime green, forming soft mud clumps

TORONTO 3269-1261

Lime, white fnxln, bedded chalk, NS

Lime, white-crm, fnxln, bedded chalk, NS

Shale, reddish brn-tan, sticky clumps-gray soft blocky

LKC 3294-1286

Lime, lt-med brn, fnxln, slight bedded chalk in part

Shale, med gray, soft

Lime, crm-med brn, fnxln, slightly fossiliferous

Lime, crm-tan, mostly fnxln, scattered granular w spotty
dead oil staining in fine interxln porosity, NFO, No Odor

Lime, crm-tan, fnxln, bedded chalk, NS

Lime, crm-tan, fnxln, soft on crush, trace of spotty staining
in fossiliferous lime NFO, No Odor

Lime, crm-tan, fnxln, slight chalk

Shale, black carbonaceous, blocky

Lime, lt-med brn, fnxln

**DST # 5 STRADDLE TEST
3302' TO 3348' SEE HEADER
FOR TEST SUMMARY. TOP
PACKER FAILED DURING 1ST
SHUT IN. NOTED THIN
WATERY SECTIONS IN
RECOVERED FLUIDS
INDICATING SALT WATER**

**"C" ZONE KNOWN WATER
BEARING BENCH IN LOW
WELLS TO NORTH**

**"D" ZONE HAD FAIR
STAINING AND SHOULD BE
PERFORMED IN LOG
INTERVAL 3336-41 PRIOR TO
ABANDONMENT OF WELL**

A

B

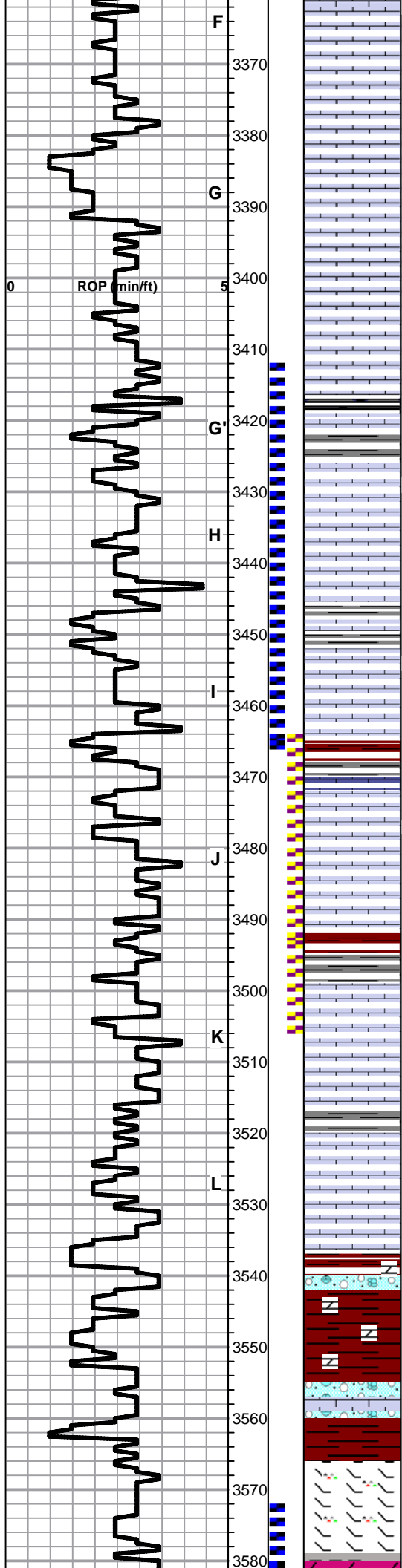
C

D

E

D

●



Lime, crm-tan, fnxln, bedded chalk, scattered gilsonite and dead oil, NFO, or fresh oil staining noted

Lime, crm-tan, fnxln, bedded chalk, no visible porosity

Lime, crm-tan, granular, chalk, NS

Lime, tan-lt brn, fn-vfxln

Lime, crm-lt brn, fnxln, hard on crush, bed chalk in part

Shale, black, carbonaceous, fissile
Lime, crm-lt brn, fnxln

● Lime, crm-lt brn, fnxln w bedded chalk, trace of lt staining in oolitic and fossil fragment bed partially cemented with sparry calcite

Lime, crm-tan-lt gray, fnxln, bedded chalk

● Lime, crm-tan, fnxln, thin oolitic and fossiliferous bed with interparticle porosity, few specks of free floating oil in tray

Lime, crm-tan, fnxln, chalk in part

Shale, red-gray, soft sticky clumps with firm in part

○ Lime, crm-tan, fn-vfxln in part,, few chips of oolitic/oomoldic found with scattered stain, NFO, No Odor

Lime, crm-lt brn, fnxln, slight bedded chalk

Shale, reddish brn-gray, soft forming soft argillaceous clumps

Lime, crm-tan, fnxln-granular, V Lt Odor, lt stain in fine ppt porosity

Lime, crm-lt brn, fn-vfxln, slight chalk

Shale, gray, soft blocky
Lime, lt brn-lt gray, fnxln

Lime, lt brn, microxln, hard on crush

BKC 3537-1529

Shale, reddish brn-dark brn, soft w/ lt red wash

Shale, reddish brn, soft with lt red wash

Clastic lime mix, chert w/ red shale staining

MARMATON 3566-1558

Lime, crm-lt brn, dolomitic, hard on crush

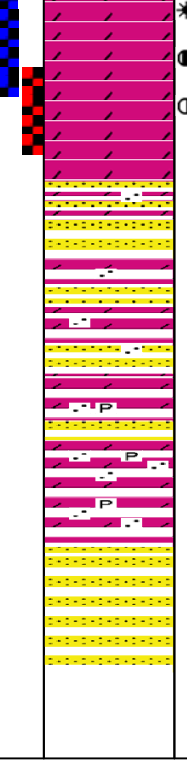
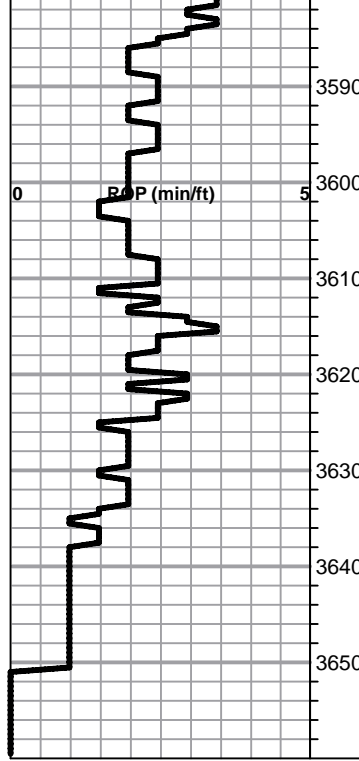
Lime, crm-lt brn, dolomitic, fnxln, hard on crush

ARBUCKLE 3580-1572

DST # 1 3412' TO 3467' SEE HEADER FOR TEST SUMMARY

DST # 2 3462' TO 3517' SEE HEADER FOR TEST SUMMARY

DST # 3 3572' TO 3591' SEE HEADER FOR TEST SUMMARY



* Dolomite, crm-lt brn, mostly fnxln with lt odor in fine xln lime

● Dolomite, crm-lt brn, fnxln-granular, lt scattered to sat stain, some chips sucrosic. Fine grain size increasing gradually into med grained with depth, lt odor, f-g staining, VMSFO

Dolomite, crm-lt brn with increasing quartz grain content with clusters- both fused and loose mix w dolomite. Log show zone very wet.

Sandstone resulting from dissolution of dolomite

Mix of dolomite and quartz sand with thin beds of sand

Dolomite, tan-lt brn, fnxln-granular, pyritic in part, sandy

REAGAN SAND 3638-1630

Sandstone, white, poorly sorted pure quartz sand, very clean

RTD 3650-1642 LTD 3651-1643

DST # 4 3590' TO 3597' SEE HEADER FOR TEST SUMMARY

OIL/WATER CONTACT 3602' ON LOG

SLOPE SURVEY 2.5 DEGREES @ 3650'

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. 6464

Date	3-19-13	Sec.	Twsp.	Range	County	State	On Location	Finish
					Rush	KS		4:15pm
					Location to Schoenhen 4w to 210D 15 EBS into			
Lease	Gottschalk			Well No.	1			
Contractor	Laschler			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.				
Type Job	Squeeze			Charge To				
Hole Size	7 7/8			Mustang Energy				
Csg.	2 5/8			Street				
Tbg. Size	2 7/8			City				
				State				
Tool				The above was done to satisfaction and supervision of owner agent or contractor.				
Cement Left in Csg.				Cement Amount Ordered				
				100 com				
Meas Line	Displace			USED 30SK				
				Common 30				
EQUIPMENT								
Pumptrk	9	No.	Cement	Cra. g				
			Helper					
Bulktrk		No.	Driver	Cody				
			Driver					
Bulktrk	3	No.	Driver	Heath				
			Driver					
JOB SERVICES & REMARKS				Hulls				
Remarks:				Salt				
Rat Hole				Flowseal				
Mouse Hole				Kol-Seal				
Centralizers				Mud CLR 48				
Baskets				CFL-117 or CD110 CAF 38				
D/V or Port Collar				Sand				
Pen's 3601-D3				Handling 100				
Rate 4BL @ 1000#				Mileage				
Packer set to Squeeze @ 3500				FLOAT EQUIPMENT				
Mix 30SK & Squeezed to 1800#				Guide Shoe				
Wash out Drill 6 joints & Shut in @ 500#				Centralizer				
				Baskets				
				AFU Inserts				
				Float Shoe				
				Latch Down				
				Pumptrk Charge Squeeze				
				Mileage 16				
				Tax				
				Discount				
				Total Charge				
Signature				Randy B				

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. 6461

Date	3-12-13	Sec.	2	Twp.	16	Range	19	County	Rehsh	State	KS	On Location		Finish	11:00 A.M.
Location <u>Schoenchen 4w 1s E. Sinto</u>															
Lease	Gottschalk			Well No.	1			Owner							
Contractor								To Quality Oilwell Cementing, Inc.							
Type Job								You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.							
Hole Size				T.D.				Charge To							
7 7/8				3650				Mustang Energy							
Csg.				Depth				Street							
5 1/2				3635											
Tbg. Size				Depth				City				State			
Tool				Depth				The above was done to satisfaction and supervision of owner agent or contractor.							
Cement Left in Csg.				Shoe Joint				Cement Amount Ordered							
21.10				21.10				190 com 10% salt 5% gelomite							
Meas Line				Displace				Seal mud Clear							
				86BC											
EQUIPMENT															
Pumptrk				No.				Common							
15				Cementer				190							
				Helper											
Bulktrk				No.				Poz. Mix							
				Driver											
Bulktrk				No.				Gel.							
1				Driver											
				Driver				Calcium							
				Doug											
JOB SERVICES & REMARKS															
Remarks:								Hulls							
								Salt 18							
Rat Hole								Flowseal							
30SK															
Mouse Hole								Kol-Seal							
15SK								950H							
Centralizers								Mud CLR 48							
								500 Gal							
Baskets								CFL-117 or CD110 CAF 38							
D/V or Port Collar								Sand							
5 1/2 @ 3635 Insert @ 3614 Est.								Handling 218							
Circulation. Pump seal mud Clear +								Mileage							
10 BC Water spacer Plug Rathole + mouse hole.								FLOAT EQUIPMENT							
Clear-lines Displace Plug. Plug landed								Guide Shoe							
1800# Held. Release Pressure Dry.								Centralizer 7 Turbolizers							
								Baskets 1							
								AFU Inserts							
								Float Shoe 1							
								Latch Down							
								(Rotator)							
								Pumptrk Charge							
								prod Long string							
								Mileage 16							
Tax															
Discount															
Total Charge															
Signature <u>Rodney B</u>															

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025

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

No. 6453

Cell 785-324-1041

Date	Sec.	Twp.	Range	County	State	On Location	Finish
3/6/13	2	16	19	Rush	KS		3:30pm.
Lease				Well No. 1		Owner	
Gottschalk						To Quality Oilwell Cementing, Inc.	
Contractor				Discovery #4		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				Surface		Charge To	
Hole Size				12 1/4		Mustang Energy	
Csg.				8 5/8		Street	
Tbg. Size				Depth		City	
Tool				Depth		State	
Cement Left in Csg.				Shoe Joint		Cement Amount Ordered	
20.16				20.16		450 com 3 1/2 CC 2 1/2 6 EL	
Meas Line				Displace			
				75 1/2 BL			
EQUIPMENT				Common		450	
Pumptrk	9 No.	Cementer	Craig		Poz. Mix		
		Helper					
Bulktrk	No.	Driver	Cody		Gel. 9		
		Driver					
Bulktrk	13 No.	Driver	Heath		Calcium 16		
		Driver					
JOB SERVICES & REMARKS				Hulls			
Remarks:				Salt			
Rat Hole				Flowseal			
Mouse Hole				Kol-Seal			
Centralizers				Mud CLR 48			
Baskets				CFL-117 or CD110 CAF 38			
D/V or Port Collar				Sand			
8 5/8 on bottom. Est. Circulation-				Handling		475	
Mix 450 SK + Displace Plug.				Mileage			
FLOAT EQUIPMENT				Guide Shoe			
Cement Circulated!				Centralizer			
				Baskets		8 5/8 Baffle Plate	
				AFU Inserts		Rubber Plug	
				Float Shoe			
				Latch Down			
				Pumptrk Charge		long Surface	
				Mileage		16	
Tax							
Discount							
Total Charge							
Signature				Mike Jochen			

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/>

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

Sam Brownback, Governor

May 21, 2013

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

Re: ACO1
API 15-165-22014-00-00
Gottschalk 1
NE/4 Sec.02-16S-19W
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