



KANSAS CORPORATION COMMISSION 1105383  
 OIL & GAS CONSERVATION DIVISION

Form ACO-1  
 June 2009

Form Must Be Typed  
 Form must be Signed  
 All blanks must be Filled

WELL COMPLETION FORM  
 WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 33922  
 Name: Mustang Energy Corporation  
 Address 1: PO BOX 1121  
 Address 2: \_\_\_\_\_  
 City: HAYS State: KS Zip: 67601 + \_\_\_\_\_  
 Contact Person: Rodney Brin  
 Phone: ( 785 ) 623-3637  
 CONTRACTOR: License # 33575  
 Name: WW Drilling, LLC  
 Wellsite Geologist: Herb Deines  
 Purchaser: Coffeyville

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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  

<u>09/05/2012</u>	<u>09/09/2012</u>	<u>09/18/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-051-26373-00-00  
 Spot Description: \_\_\_\_\_  
W2 NW SE NW Sec. 22 Twp. 11 S. R. 19  East  West  
1650 Feet from  North /  South Line of Section  
1550 Feet from  East /  West Line of Section  
 Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
 County: Ellis  
 Lease Name: M.R. Allen Well #: 13  
 Field Name: Solomon  
 Producing Formation: Arbuckle  
 Elevation: Ground: 1959 Kelly Bushing: 1964  
 Total Depth: 3550 Plug Back Total Depth: 3528  
 Amount of Surface Pipe Set and Cemented at: 218 Feet  
 Multiple Stage Cementing Collar Used?  Yes  No  
 If yes, show depth set: \_\_\_\_\_ Feet  
 If Alternate II completion, cement circulated from: 3550  
 feet depth to: 440 w/ 425 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 18000 ppm Fluid volume: 300 bbls  
 Dewatering method used: Hauled to Disposal  
 Location of fluid disposal if hauled offsite: \_\_\_\_\_  
 Operator Name: Mustang Energy Corporation  
 Lease Name: Allen License #: 33922  
 Quarter SW Sec. 22 Twp. 11 S. R. 19  East  West  
 County: Ellis Permit #: 15-051-02,289-0001

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

- Letter of Confidentiality Received  
 Date: \_\_\_\_\_  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
 ALT  I  II  III Approved by: Deanna Garrison Date: 12/20/2012



1105383

Operator Name: Mustang Energy Corporation Lease Name: M.R. Allen Well #: 13  
 Sec. 22 Twp. 11 S. R. 19  East  West County: Ellis

**INSTRUCTIONS:** Show important tops and base 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. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  Micro Log, Compensated Neutron Density, Dual Induction	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Anhydrite</td> <td>1251</td> <td>+731</td> </tr> <tr> <td>Base</td> <td>1294</td> <td>+670</td> </tr> <tr> <td>Heebner</td> <td>3133</td> <td>-1169</td> </tr> <tr> <td>LKC</td> <td>3176</td> <td>-1212</td> </tr> <tr> <td>Arbuckle</td> <td>3479</td> <td>-1515</td> </tr> </tbody> </table>	Name	Top	Datum	Anhydrite	1251	+731	Base	1294	+670	Heebner	3133	-1169	LKC	3176	-1212	Arbuckle	3479	-1515
Name	Top	Datum																	
Anhydrite	1251	+731																	
Base	1294	+670																	
Heebner	3133	-1169																	
LKC	3176	-1212																	
Arbuckle	3479	-1515																	

CASING RECORD <input checked="" 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
Surface	12.25	8.625	23	218	common	150	3%cc,2%Gel
Production	7.875	5.5	15.5	3543	QMDC	425	10% salt,5%Gil

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input checked="" type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	440-0	common	100	3% CC, 2% gel

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
1	3498		
1	3503		

TUBING RECORD: Size: <u>2.875</u> Set At: <u>3500</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or ENHR. _____		Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____	
Estimated Production Per 24 Hours	Oil Bbls. <u>20</u>	Gas Mcf _____	Water Bbls. <u>500</u> Gas-Oil Ratio _____ Gravity _____

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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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# MUSTANG ENERGY CORPORATION

Scale 1:240 Imperial

Well Name: M.R. ALLEN #13  
 Surface Location: W2 NW SE NW 22-11S-19W  
 Bottom Location:  
 API: 15-051-26373-0000  
 License Number: 33922  
 Spud Date: 9/5/2012 Time: 11:00 PM  
 Region: ELLIS  
 Drilling Completed: 9/9/2012 Time: 6:23 PM  
 Surface Coordinates: 1650' FNL & 1550 FWL  
 Bottom Hole Coordinates:  
 Ground Elevation: 1959.00ft  
 K.B. Elevation: 1964.00ft  
 Logged Interval: 2000.00ft To: 3550.00ft  
 Total Depth: 3550.00ft  
 Formation: ARBUCKLE  
 Drilling Fluid Type: CHEMICAL/FRESH WATER

### OPERATOR

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

Contact Geologist: ROD BRIN  
 Contact Phone Nbr: (785) 623-0533  
 Well Name: M.R. ALLEN #13  
 Location: W2 NW SE NW 22-11S-19W API: 15-051-26373-0000  
 Pool: Field: SOLOMON  
 State: KANSAS Country: USA

### SURFACE CO-ORDINATES

Well Type: Vertical  
 Longitude: -99.4203279 Latitude: 39.0838663  
 N/S Co-ord: 1650' FNL  
 E/W Co-ord: 1550 FWL

### LOGGED BY



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

Phone Nbr: (785)259-3737  
 Logged By: Geologist Name: JEFF LAWLER

### CONTRACTOR

Contractor: WW DRILLING, LLC  
 Rig #: 6  
 Rig Type: MUD ROTARY  
 Spud Date: 9/5/2012 Time: 11:00 PM  
 TD Date: 9/9/2012 Time: 6:23 PM  
 Rig Release: 9/10/2012 Time: 2:00 PM

### ELEVATIONS

K.B. Elevation: 1964.00ft Ground Elevation: 1959.00ft  
 K.B. to Ground: 5.00ft

### NOTES

DUE TO STRUCTURAL POSITION AND LOG ANALYSIS DECISION WAS MADE TO RUN 5 1/2" PRODUCING CASING AND FURTHER EVALUATE ZONES WITH PERFORATION.

RESPECTFULLY SUBMITTED,  
 JEFF LAWLER

### WELL COMPARISON SHEET

FORMATION	M.R. ALLEN #13				NE SW NW 22-11-19				NW SE SW NW 22-11-19				NE SE NW 22-11-19				SE SW NW 22-11-19			
	DEPTH	LOG	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM	DEPTH	DATUM		
AMPHIBOLITE 100'	1275	206			1270	717			1270	717										
MASS	1287	867																		
NEVA	2005	-881																		
SHIPRA	2824	-664	2818	-663				2805	-668			2800	-672			28	2800	-664		
HOUGHES SHALE	3184	-1120	3180	-1119				3155	-1140			3155	-1140			14	3163	-1185		
WICHITA	3962	-1188	3968	-1196				3989	-1289											
LSG	3382	-1238	3380	-1233				3399	-1232			3377	-1240			6	3205	-1207		
ARC	3090	-1436						3020	-1534											
CONGLOMERATE			3432	-1472								3438	-1471							
BRONSON SHALE			3484	-1528								3485	-1504				3485	-1485		
ARBUCKLE	3478	-1515	3499	-1522				3493	-1514			3483	-1514			3	3502	-1505		
SD	3500	-1544						3500	-1522			3486	-1530			64	3486	-1509		
LTD												3486	-1519							

DST #1 CONGLOMERATE SAND 3404' - 3471'



**TRILOBITE TESTING, INC**

### DRILL STEM TEST REPORT

Mustang Energy Corp  
P.O. Box 1121  
Hays KS 67601  
ATTN: Jeff Lawler

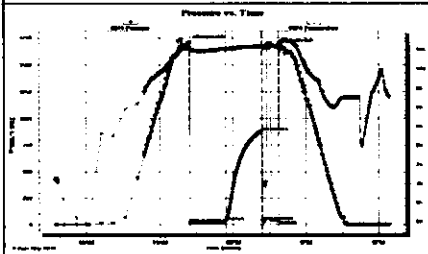
22 11s 19w EMs  
MR Allen # 13  
Job Ticket: 48653  
DST# 1  
Test Start 2012 09 06 @ 09 35 00

#### GENERAL INFORMATION

Formation Cong Sand  
Deviated No Whipslock 1964.00 R (KB)  
Time Tool Opened 11:24:45  
Time Test Ended 14:10:00  
Test Type Conventional Bottom Hole (Initial)  
Tester Jim Swery  
Unit No. 68  
Intervals: 3404.00 R (KB) To 3471.00 R (KB) (TVD)  
Reference Elevations 1964.00 R (KB)  
Total Depth: 3471.00 R (KB) (TVD)  
1966.00 R (CF)  
Hole Diameter 7.88 inches Hole Condition Fair  
KB to GR/CF 5.00 R

Serial #: 8674 Inside  
Press @ Run Depth 31.33 psig @ 3405.00 R (KB)  
Start Date 2012 09 06 End Date 2012 09 06 Capacity 8000.00 psig  
Start Time 09 35 05 End Time 14 05 44 Last Calib. 2012 09 06  
Time On Btm 2012 09 06 @ 11 24 30  
Time Off Btm 2012 09 06 @ 12 37 45

TEST COMMENT: 30-JFP: Surface Blow Died in 27min  
30-JRP: No Blow  
12-FPP: No Blow Flushed Surface Blow  
D-FSIP: Pulled



Time (Min)	Pressure (psig)	Temp (deg F)	Annotation
0	1706.26	105.61	Initial Hydro-static
1	19.15	104.81	Open To Flow(1)
30	31.33	105.16	Shut-In(1)
60	679.03	105.84	End Shut-In(1)
60	35.12	105.84	Open To Flow(2)
73	38.06	105.72	Shut-In(2)
74	1670.56	106.38	Final Hydro-static

Length (ft)	Description	Volume (bbl)
10.00	MUD 100%	0.05

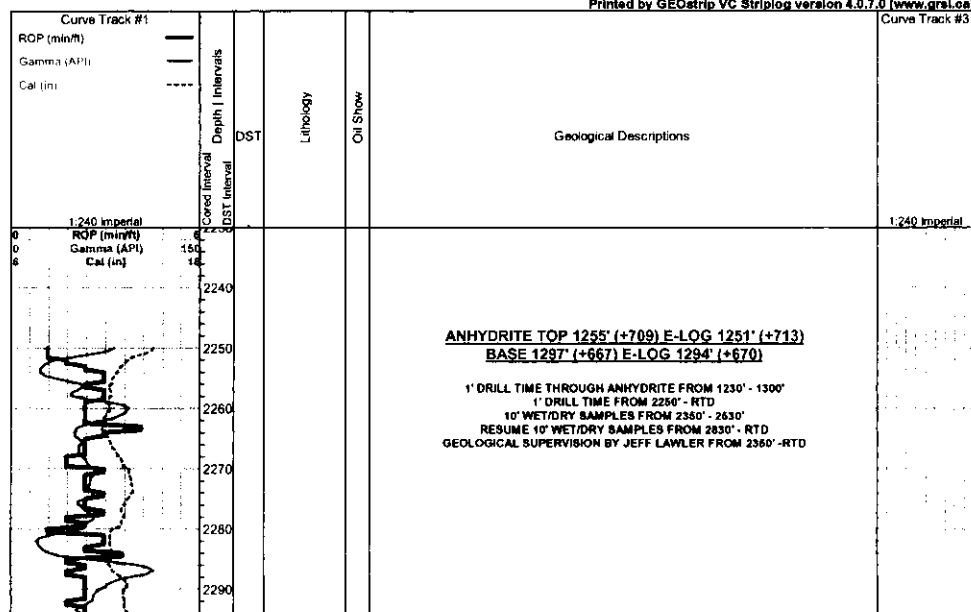
Gas Rates			
	Checked	Pressure (psig)	Gas Rate (Mc/d)

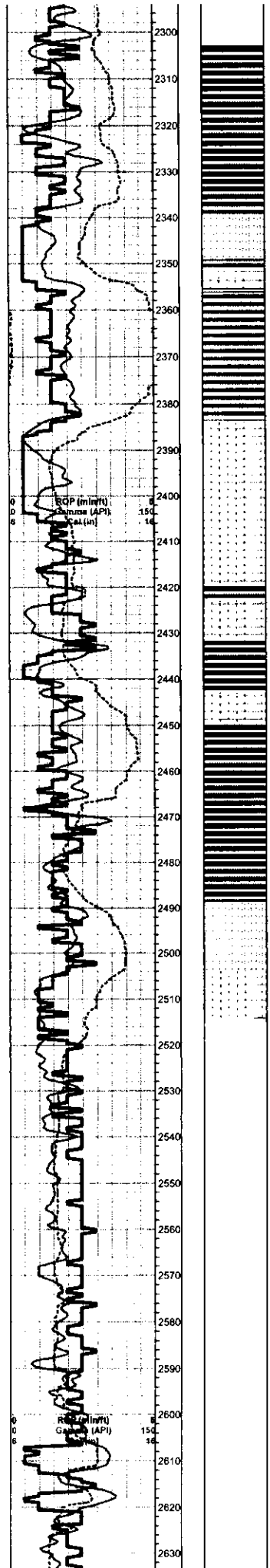
Triobite Testing, Inc      Ref No 48653      Printed 2012 09 06 @ 17 21 40

ROCK TYPES					
	Chl		Dolprim		shale, gm
	Chl vari		Dolsec		shale, gry
	Chlcong1		Lmet fw7>		shale, red
					Shcol
					Ss
					Lscong1

ACCESSORIES	
<b>MINERAL</b>	<b>STRINGER</b>
- Sandy	Chart
	— green shale

OTHER SYMBOLS	
<b>DST</b>	
■ DST Int	
■ DST alt	





Sh- Red Maroon Brown Gray, abundant soft silty gummy chips, silty gritty & earthy, sctrd Med gr dove gray sorted & consolidated Ss, speckled w/ glauconite, very friable

Sh- A/A, few massive chips of yellow dense well cemented, chalk

ShSs- A/A, brown fn grm, consolidated & very friable to moderately cemented, moderately well developed, consistent fn ppt porosity, WK QUESTIONABLE STN, VRY LT GSY SHN, DULL SCTRDR FLOR, NO ODR

Lm- Cream Deep Cream, FXLN, dense, well cemented, silty, sctrd XLN, tight

Sh- Various dark colored shales A/A, w/ purple & lm green, very soft calcareous siltstone

NEVA 2405' (-441) E-LOG 2383' (-419) Lm- Cream FXLN, micro-oolitic, sctrd intercastic connectivity, most skeletal dissolution, vuggy, clean & barren

Lm- Lt Gray, Fn Gm, dense, well cemented, silty, silty, tight w/ sctrd vry fn ppt porosity, barren, NS

Sh- Maroon Purple Red Gray, soft, some gummy argillaceous

Lm- Brown, dense well cemented, argillaceous Ls, tight, no visible porosity

Sh- Brick Red, gritty & earthy, brown dense, well compacted, slick, several pyrite clusters

Lm- Cream Off White, FXLN, dense, well cemented, silty cherty, tight, no vis. porosity, some soft chalky chips, very few carbonate chips in sample

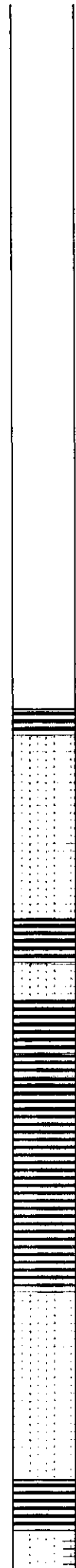
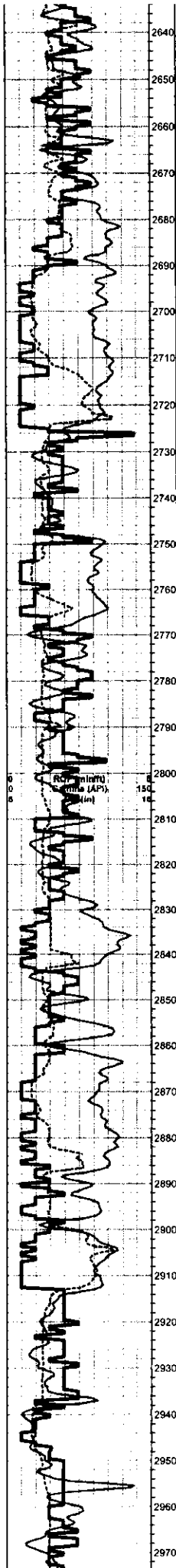
ShSs- Abundant mix of various dark colored interbedded shales, some red sandy shale & soft red Ss

Sh- A/A

Sh- Maroon Gray Red Lm Green, soft shale & gritty sandy lime

Ss- Lt Brown Red Frosted Dove Gray, consolidated, well sorted, some sp w/ glauconite, friable to loosely cemented

Lm- Cream VF grn, dense, very well cemented & tight, minimal to no vis. porosity, few chips of brown argillaceous Ls w/o vis. grains, dense mud matrix, well cemented



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Sh- Lt & Dk Gray Lm Green, abundant dark gray slick dense silvers & soft gray shale, soft calcareous lm green shale

Lm- Cream Off White, FXLN & Fm gm, mix of chalky fm gm, some mud supported matrix, fs & dense, and FXLN, fs, light w/ scrd micro XLN porosity, NS

Lm- Cream Off White Tan, VF-FXLN, fs, poorly developed w/ wk interXLN porosity, NS

Lm- Cream Off White, VF-FXLN, gritty al dolomitic, light, FXLN w/ scrd dense micro XLN secondary porosity, few scrd FXLN high energy w/ fs fragments, interbedded shale beds

Lm- Cream Off White, FXLN, crumbly, dense fenestral ppt porosity, fs, chalky in part, clean & barren

Lm- Tan Gray, VF-FXLN, dense, very well cemented, sl cherty, light w/ minimal to scrd vis. porosity

Sh- Gray Off White, Lt & Dk gry, soft & dense, slick & waxy, mixed w/ fs soft chalk & lime

Lm- Lt Gray Off White, F-Med XLN, trashy, high energy bio-clastic, al cherty, dense, & semi-brittle

Sh- Gray Lm Green, soft, some scrd chalky lime

Sh- Lt & Dk Gray Lm Green Off White, soft gray & lm green shales, gummy, al fs white chalk

Sh- A/A, increasing gummy argillaceous gray clumps, few gritty & earthy maroon chips

Sh- Brown Gray, increasing argillaceous gummy brown clumps, Se- Dove Gray, consolidated & VF gm, speckled w/ glauconite

Sh- Brown & Maroon, sl massive, soft, gritty

**TOPEKA 2912' (-948) E-LOG 2913' (-949)** Lm- Cream Off White Lt Gray, VFXLN & VF gm, mix of dense argillaceous Ls w/o vs grains & fs VF-FXLN, light w/ scrd XLN porosity, some trashy fs intercasts, few scrd large crinoids, NS

Lm- Lt Gray Cream Off White, VF-FXLN, fs, most gritty, sl dolomitic, light w/ scrd vry fn ppt porosity, light, sl chalky in part

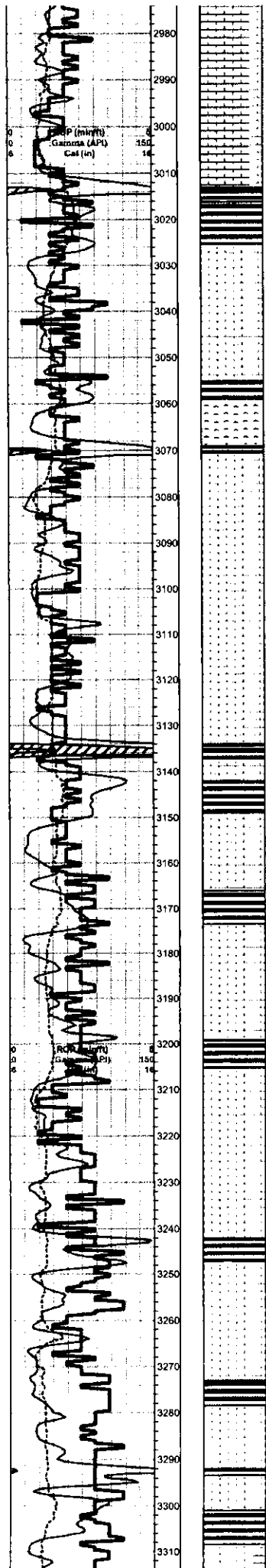
Lm- Tan, VFXLN, dense, siliceous matrix, light w/ minimal vis. porosity, scrd recrystallized secondary porosity

Lm- Cream Off White w/ Sl Lm Green Tan, FXLN, sl gritty, fs, scrd fn ppt porosity, SCTRD GSY STN, SL SFO, GSY ODR, chalky in part

Lm- Gray Tan, VF gm & FXLN, dense, mix of tight dense aigal Ls & semi-brittle light FXLN, clean & barren

Sh- Interbedded soft gray & black shale

Lm- Cream Tan Off White, FXLN, some gritty VFXLN gritty dolomitic Ls, light w/ consistant vry



In ppt porosity, & FXLN fsi & fsi fragments, some trashy, barren & NS

Lm- Tan Cream, FXLN, mix of gritty tight FXLN, w/ min. vs. porosity, & sub-crypto XLN, tight w/ vs. grains or porosity, clean & barren

Lm- Tan Lt Gray, fsi, chalky in part, dense fenestral XLN porosity

Lm- Cream Tan, FXLN, some w/ dense micro fsi, loosely cemented, poorly developed, sctrd to dense XLN porosity

Lm- Cream Off White, FN gm, dense, loosely cemented, heavily mottled dolomitic Ls, constant fn ppt porosity, NS

Sh- Black Gray Maroon, soft, carbonaceous, gritty & earthy

Lm- Cream Off White, VF-FXLN, few crypto-XLN w/ vs. grains, mostly dense, well cemented, sl cherty Ls w/ no - minimal vs. porosity, tight, clean, & barren

Lm- Tan Cream, Fn gm, dense, sl chalky matrix, gritty, constant vry fn ppt porosity, heavily mottled, fsi, NS

Lm- Cream Lt Gray, FXLN, mix of gritty sl dolomitic cherty Ls fsi w/ small fusulinids, bedded gray chert w/ fusulinids, & FXLN semi-brittle Ls, clean

Chert- Smokey Gray Cream, fsi w/ fusulinids, sharp angular bedded chert

Sh- Black Gray Maroon, soft black carbonaceous, gritty & earthy

Chert- Gray Tan, trashy reworked chert w/ fsi fragments

Lm- Cream Tan, F-Med Gm, fsi w/ few sctrd small oolites, most w/ chalky matrix, loosely cemented & crumbly, 1 w/ few sctrd vugs, most w/ vry fn - fn ppt porosity, 1-2 w/ WK SCTR STN, SL GSY SHEEN, NSFO, NO ODR

Lm- Cream Tan, FXLN, fsi cherty Ls, dense, some w/ siliceous cementation som w/ tight sparry cementation, sctrd fn ppt - minimal vs. porosity, clean & barren

Lm- Cream Lt Gray Tan, FXLN, mix of sl chalky, fsi w/ sctrd ppt porosity, FXLN, dense, tight & well cemented w/ minimal vs. porosity, fsi & sl trashy high energy mix

Lm- Cream Off White, Fn Gm & FXLN, most heavily mottled & sl chalky fn gm matrix, few chips of fsi cream lime mud matrix, fsi w/ fusulinids, sctrd fn ppt porosity, WK SCTR STN, NSFO, FR ODR, SL GSY SHEEN

**HEEBNER 3134' (-1170) E-LOG 3133' (-1189)** Sh- Black Gray Maroon, black fissile, slaty carbonaceous, soft, smooth, gritty & earthy

Sh- Lm Green Gray, soft, dull, smooth

**TORONTO 3162' (-1188) E-LOG 3162' (-1188)** Lm- Cream Off White, VF-F gm, dense, sl chalky, few FXLN, dense, very well cemented w/ sctrd vs. grains, 1-2 chips massive, minimal vs. porosity, few sctrd solution veins w/ recrystallization w/in, WK STN W/IN VEINS, NSFO, NO ODR

**LKC 3162' (-1218) E-LOG 3170' (-1212)** Lm- White Cream, VF-FXLN, pristine, sl oolitic & fsi, few w/ sctrd vs. grains, most w/ o, tight, dense, brittle, few chips of fsi semi-translucent sharp angular bedded chert, very clean

Lm- Off White Golden Brown, FXLN, dense, poorly developed w/ sctrd XLN porosity, near pristine, few chips of golden brown fresh chert

Sh- Gray Lm Green Brown, soft, dull, smooth, brown gritty & earthy

Lm- Cream Tan, Med XLN, fsi w/ fusulinids & oolites, sctrd development from edge vuggy to very well developed consistent fn ppt porosity, sctrd interoolite porosity, SCTR GSY STN, RECRYSTALLIZATION W/IN VUGS, NSFO, FNT ODR, few chips of densely packed oolitic bioclastic, well cemented, sctrd white chert

Sh- Maroon Brick red, soft, gritty & earthy, very soft, limy

Lm- Cream Off White Buff, VF-Med XLN, fsi, sl oolitic, sctrd development from vry sctrd edge ppt - moderately developed sctrd ppt porosity, SCTR LT STN, NSFO, FR GSY ODR

Lm- Cream Tan, FXLN, dense, massive, vry well cemented, sctrd ppt - small vuggy porosity, SAT DRK STN, SL SFO UPON CRUSH, FR GSY ODR, GD GSY SHEEN

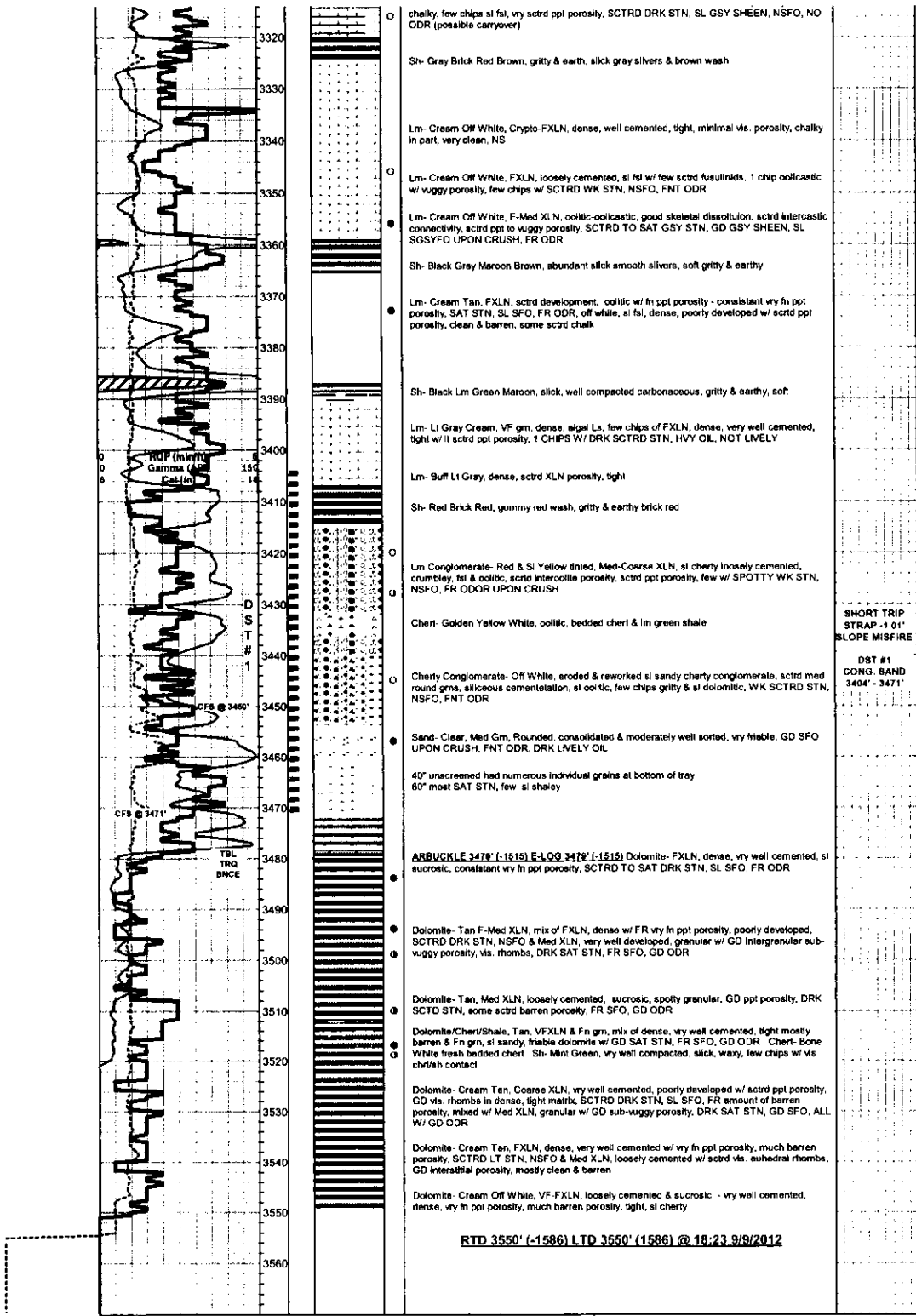
Lm- Cream Off White, Med XLN, oolitic, sctrd spherical pearl shaped, vry well developed w/ GD interoolitic ppt porosity, DRK STN, SL SFO UPON CRUSH, FR GSY ODR

Dolomite - Cream, FXLN, sucrosic, vry well developed w/ abundant vry fn ppt porosity, loosely well cemented, SAT DRK STN, NEAR 100%, SL SFO, GSY SHEEN, GD GSY ODR

Lm- Cream Off White, VF-FXLN, dense, sl fsi, semi-brittle, tight, some crypto-XLN w/ vs. grains, sctrd cream sl cherty Ls

Sh- Drk Gray, abundant waxy slick silvers

Lm- Cream Off White, FXLN, dense, well cemented, minimal vs. - sctrd XLN porosity, sl



chalky, few chips of fs, vry scrd ppt porosity, SCTRDRK STN, SL GSY SHEEN, NSFO, NO ODR (possible carryover)

Sh- Gray Brick Red Brown, gritty & earthy, slick gray silvers & brown wash

Lm- Cream Off White, Crypto-FXLN, dense, well cemented, tight, minimal vis. porosity, chalky in part, very clean, NS

Lm- Cream Off White, FXLN, loosely cemented, sl fs w/ few scrd fusulnids, 1 chip oolitic w/ vuggy porosity, few chips w/ SCTRDRK STN, NSFO, FNT ODR

Lm- Cream Off White, F-Med XLN, oolitic-oolitic, good skeletal dissolution, scrd intercastic cohesivity, scrd ppt to vuggy porosity, SCTRDRK TO SAT GSY STN, GD GSY SHEEN, SL SSSYFO UPON CRUSH, FR ODR

Sh- Black Gray Maroon Brown, abundant slick smooth silvers, soft gritty & earthy

Lm- Cream Tan, FXLN, scrd development, oolitic w/ fn ppt porosity - constant vry fn ppt porosity, SAT STN, SL SFO, FR ODR, off white, sl fs, dense, poorly developed w/ scrd ppt porosity, clean & barren, some scrd chalk

Sh- Black Lm Green Maroon, slick, well compacted carbonaceous, gritty & earthy, soft

Lm- Lt Gray Cream, VF gm, dense, sigal Lt, few chips of FXLN, dense, very well cemented, tight w/ ll scrd ppt porosity, 1 CHIPS W/ DRK SCTRDRK STN, HVY OL, NOT LEVELY

Lm- Buff Lt Gray, dense, scrd XLN porosity, tight

Sh- Red Brick Red, gummy red wash, gritty & earthy brick red

Lm Conglomerate- Red & Sl Yellow tinted, Med-Coarse XLN, sl cherty loosely cemented, crumbly, fs & oolitic, scrd interoolite porosity, scrd ppt porosity, few w/ SPOTTY WK STN, NSFO, FR ODOR UPON CRUSH

Chert- Golden Yellow White, oolitic, bedded chert & lm green shale

Cherty Conglomerate- Off White, eroded & reworked sl sandy cherty conglomerate, scrd med round grms, siliceous cementation, sl oolitic, few chips gritty & sl dolomitic, WK SCTRDRK STN, NSFO, FNT ODR

Sand- Clear, Med Gm, Rounded, consolidated & moderately well sorted, vry friable, GD SFO UPON CRUSH, FNT ODR, DRK LEVELY OIL

40" uncreened had numerous individual grains at bottom of tray  
80" most SAT STN, few sl shaly

**ARRUCKLE 3479' (-1515) E-LOG 3479' (-1515) Dolomite- FXLN, dense, vry well cemented, sl sucrosic, constant vry fn ppt porosity, SCTRDRK TO SAT DRK STN, SL SFO, FR ODR**

Dolomite- Tan F-Med XLN, mix of FXLN, dense w/ FR vry fn ppt porosity, poorly developed, SCTRDRK STN, NSFO & Med XLN, very well developed, granular w/ GD Intergranular sub-vuggy porosity, vis. rhombs, DRK SAT STN, FR SFO, GD ODR

Dolomite- Tan, Med XLN, loosely cemented, sucrosic, spotty granular, GD ppt porosity, DRK SCTDRK STN, some scrd barren porosity, FR SFO, GD ODR

Dolomite/Chert/Shale, Tan, VF XLN & Fn gm, mix of dense, vry well cemented, tight mostly barren & Fn gm, sl sandy, friable dolomite w/ GD SAT STN, FR SFO, GD ODR Chert- Bone White fresh bedded chert Sh- Mint Green, vry well compacted, slick, waxy, few chips w/ vis chrt/sh contact

Dolomite- Cream Tan, Coarse XLN, vry well cemented, poorly developed w/ scrd ppt porosity, GD vis. rhombs in dense, light matrix, SCTRDRK STN, SL SFO, FR amount of barren porosity, mixed w/ Med XLN, granular w/ GD sub-vuggy porosity, DRK SAT STN, GD SFO, ALL W/ GD ODR

Dolomite- Cream Tan, FXLN, dense, very well cemented w/ vry fn ppt porosity, much barren porosity, SCTRDRK LT STN, NSFO & Med XLN, loosely cemented w/ scrd vis. euhedral rhombs, GD interstitial porosity, mostly clean & barren

Dolomite- Cream Off White, VF-FXLN, loosely cemented & sucrosic - vry well cemented, dense, vry fn ppt porosity, much barren porosity, tight, sl cherty

SHORT TRIP STRAP -1.01' SLOPE MISFIRE

DST #1 CONG. SAND 3404' - 3471'

**RTD 3550' (-1586) LTD 3550' (1586) @ 18:23 9/9/2012**



# QUALITY OILWELL CEMENTING, INC.

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

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

No. 732

Date	9-5-12	Sec.	11	Twp.	19	Range	19	County	Ellis	State	KS	On Location		Finish	545 pm
Lease	MR. Allen		Well No.	# 13		Location	S. 1/2 Sec. 11 T. 19 R. 19								
Contractor	M/G					Owner	To Quality Oilwell Cementing, Inc.								
Type Job	Surface					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	1 7/8		T.D.	218		Charge To	Mustang Energy								
Csg.	E 56		Depth	15		Street	Mustang Energy								
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	150 3/4" 2 1/2 GCL								
Meas Line			Displace	10.5											
<b>EQUIPMENT</b>															
Pumptrk	No. 49	Cementer	Matt		Common										
Bulktrk	No. 14	Helper			Poz. Mix										
Bulktrk	No.	Driver	Cody		Gel.										
<b>JOB SERVICES &amp; REMARKS</b>															
Remarks:						Calcium									
Rat Hole						Hulls									
Mouse Hole						Salt									
Centralizers						Flowseal									
Baskets						Kol-Seal									
D/V or Port Collar						Mud CLR 48									
					CFL-117 or CD110 CAF 38										
					Sand										
					Handling										
					Mileage										
<b>FLOAT EQUIPMENT</b>															
					Guide Shoe										
					Centralizer										
					Baskets										
					AFU Inserts										
					Float Shoe										
					Latch Down										
					Pumptrk Charge										
					Mileage										
														Tax	
														Discount	
														Total Charge	
X Signature <i>[Signature]</i>															

# QUALITY OILWELL CEMENTING, INC.

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

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

No. 5356

Date	9-10-12	Sec.	22	Twp.	11	Range	19	County	Ellis	State	Ks	On Location	Finish	1:15 PM
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Lease	M R Allen	Well No.	13	Location	Yocemento + I-70, 11 N, E/4th
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Contractor	W-W #6
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Type Job	Lorigs' Line
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Hole Size	7 7/8"
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Csg.	3 1/2 15 1/2 No.
------	------------------

Tbg. Size	Depth
-----------	-------

Tool	Depth
------	-------

Cement Left in Csg.	Shoe Joint
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Meas Line	Displace
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**EQUIPMENT**

Pumptrk	5	No.	Cementer	Brett	Rick	
			Helper			Common
Bulktrk	12	No.	Driver	Lannie		Poz. Mix
Bulktrk	14	No.	Driver	Levi		Gel.

**JOB SERVICES & REMARKS**

Remarks:	The above was done to satisfaction and supervision of owner agent or contractor.
Rat Hole	Cement Amount Ordered
Mouse Hole	500 gal mud Clear 48, 425 QMDC
Centralizers	1, 3, 5, 7, 9, 11, 13, 54
Baskets	2, 55
DV or Port Collar	Pipe on bottom, break
Circulation	<del>no circulation</del>
	pump 500 gal mud Clear 48, plug
	Rat hole w/ 30 5/8, Hook to Shell casing
	& mix 395 ss QMDC K.F.S., 1505x

**FLOAT EQUIPMENT**

Common 10% Salt 5% Gilsomite, shut	Guide Shoe
down, Wash pump & lines, Released	Centralizer 8 turbs
plug & Displaced with 83 3/4 BLS.	Baskets 2
Lift pressure 800 #	AFU Inserts
Land plug to 1500 #	Float Shoe 1
	Latch Down 1

Cement did NOT Circulate. 1- Rotating head Assy

Pumptrk Charge	
Mileage	

X Signature *Ray B*

	Tax
	Discount
	Total Charge