



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1095231
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: _____



1095231

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 <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No 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: _____	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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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

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> _____ <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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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

October 02, 2012

Allen Bangert
Mai Oil Operations, Inc.
8411 PRESTON RD STE 800
DALLAS, TX 75225-5520

Re: ACO1
API 15-009-25710-00-00
Holland 2
NW/4 Sec.21-16S-13W
Barton 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,
Allen Bangert

OPERATOR

Company: Mai Oil Operations
 Address: 8411 Preston Rd Ste 800
 Dallas, TX 75225

Contact Geologist: Allen Bangert
 Contact Phone Nbr: 214-219-8883
 Well Name: Holland #2
 Location: EE2-SE-SW-NW Sec. 21-T16S-R13W API: 15-009-25710-00-00
 Pool: 8 5/8" @ 450' Field: Trapp
 State: Kansas Country: USA

Scale 1:240 Imperial

Well Name: Holland #2
 Surface Location: EE2-SE-SW-NW Sec. 21-T16S-R13W
 Bottom Location:
 API: 15-009-25710-00-00
 License Number:
 Spud Date: 6/5/2012 Time: 1:00 PM
 Region: Barton County
 Drilling Completed: 6/11/2012 Time: 5:00 PM
 Surface Coordinates: 2310' FNL & 1185' FWL
 Bottom Hole Coordinates:
 Ground Elevation: 1946.00ft
 K.B. Elevation: 1954.00ft
 Logged Interval: 2800.00ft To: 3500.00ft
 Total Depth: 3460.00ft
 Formation: Arbuckle
 Drilling Fluid Type: Chemical/Fresh Water Gel

LOGGED BY

Company: Musgrove Petroleum
 Address: 212 Main Street
 Claflin, KS 67525
 Phone Nbr: 620-450-7087
 Logged By: Geologist Name: Kurt Talbott

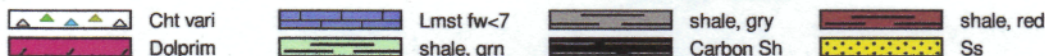
CONTRACTOR

Contractor: Southwind Drilling
 Rig #: 3
 Rig Type: mud rotary
 Spud Date: 6/5/2012 Time: 1:00 PM
 TD Date: 6/11/2012 Time: 5:00 PM
 Rig Release: Time:

ELEVATIONS

K.B. Elevation: 1954.00ft Ground Elevation: 1946.00ft
 K.B. to Ground: 8.00ft

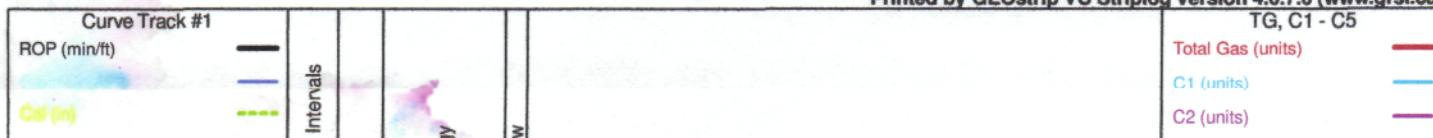
ROCK TYPES

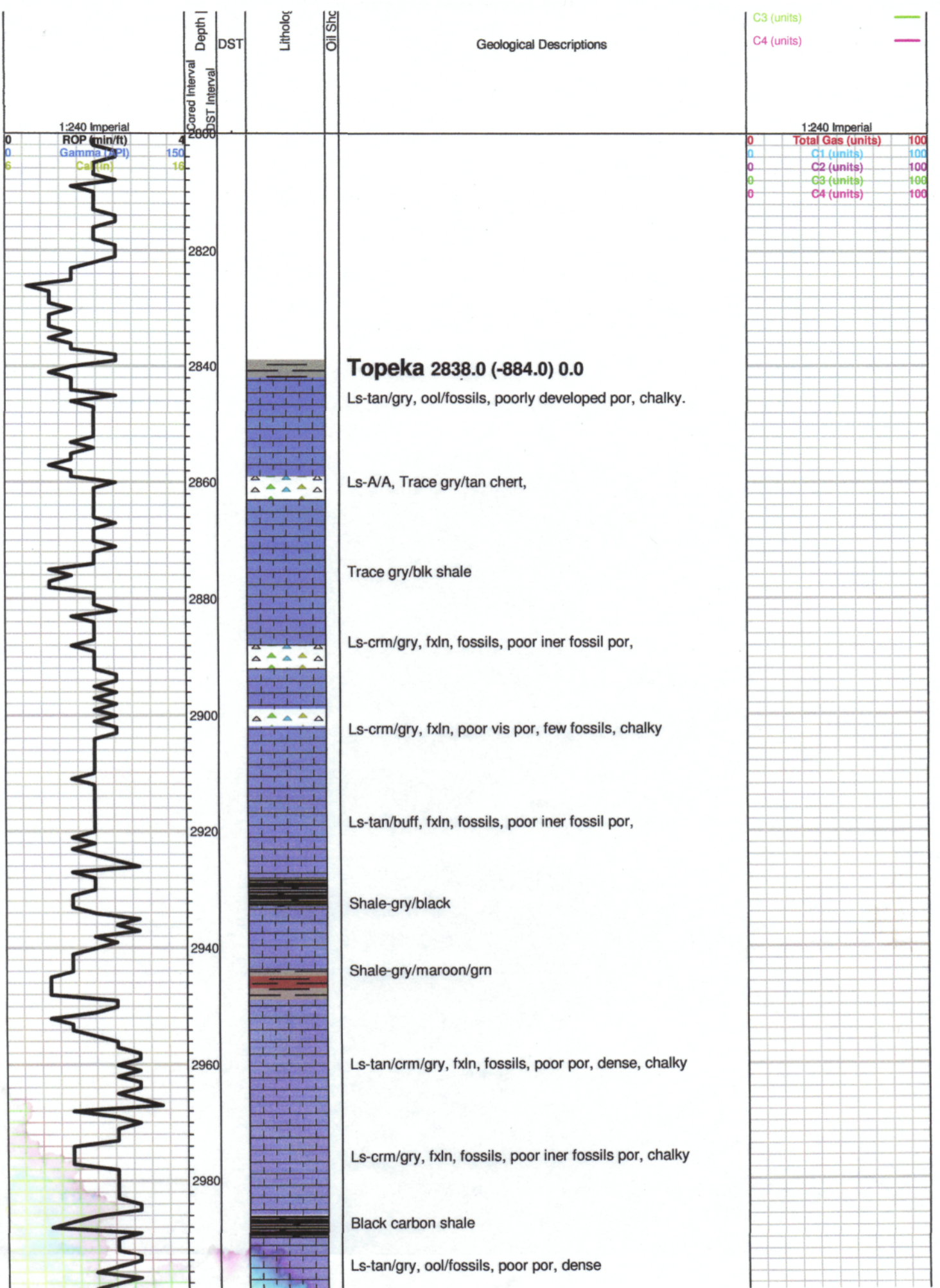


OTHER SYMBOLS

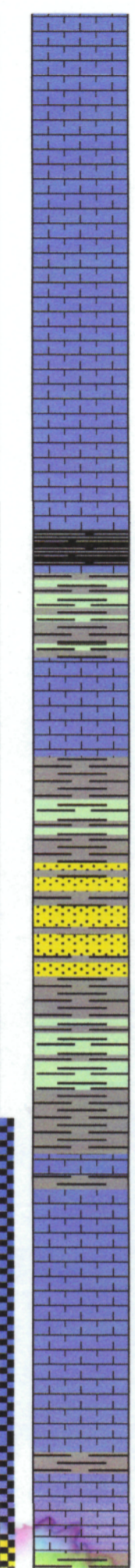
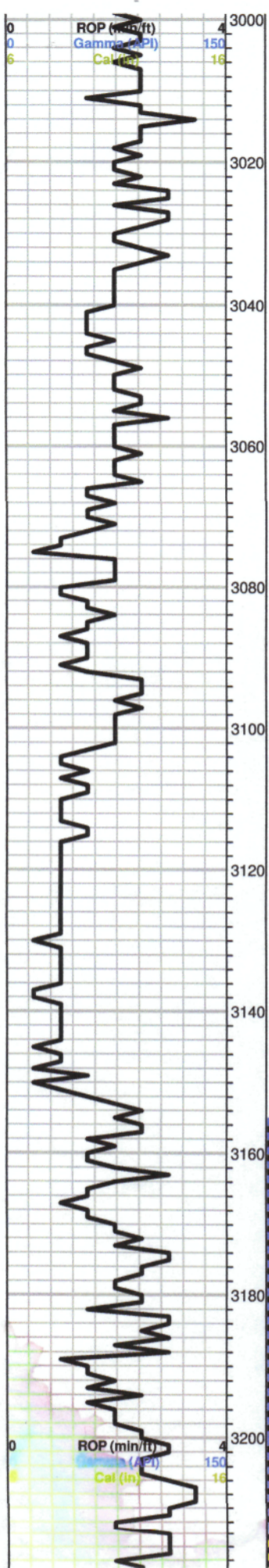
DST


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





1:240 Imperial		
0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100



Ls-tan, fxln, dense, chert-wht/gry,

Ls-tan, fxln, few fossils, poor por, trace brown stains, NSFO, no odor

Ls-tan, fxln, few fossils, chalky, poor vis por, trace stains, NSFO, no odor

Ls-gry/wht, chalky, poor vis por, Trace gry chert

Heebner 3072.0 (-1118.0) 0.0

Black Carbon Shale

Shale-gry/grn

Toronto 3092.0 (-1138.0) 0.0

Ls-wht/gry, fxln, few fossils, chalky, Brwn stns, NFO, no odor

Douglas 3104.0 (-1150.0) 0.0

Shale-gry/gryish grn

A/A

Sand-vfg, grysish grn, sub rounded, cal, few shaley, NS

A/A

Brown Lime 3153.0 (-1199.0) 0.0

Ls-tan/buff/gry, dense, poor por

Lansing 3162.0 (-1208.0) 0.0

Ls-gry/wht, fxln, few fossils, chalky, Trace poor string, TrSFO, no odor, Few ool/oom

Ls-gry, med xln, chalky, poor staining

Ls-gry, oom, fair oom por, brwn stains/sat, SFO, faint odor

Shale-gry

Ls-crm/tan, fxln, few dolomite, fossils, good iner clast por, brwn stns/sat, SFO, faint odor,

0	Total Gas (units)	100
0	C1 (units)	100
0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

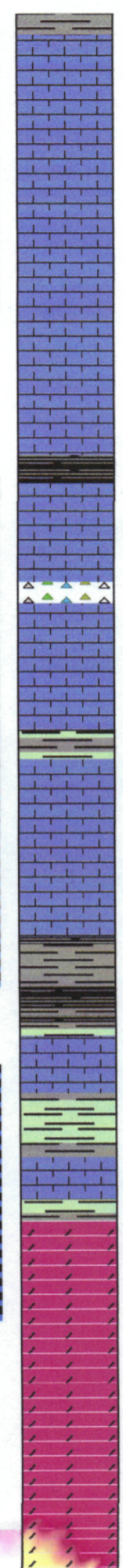
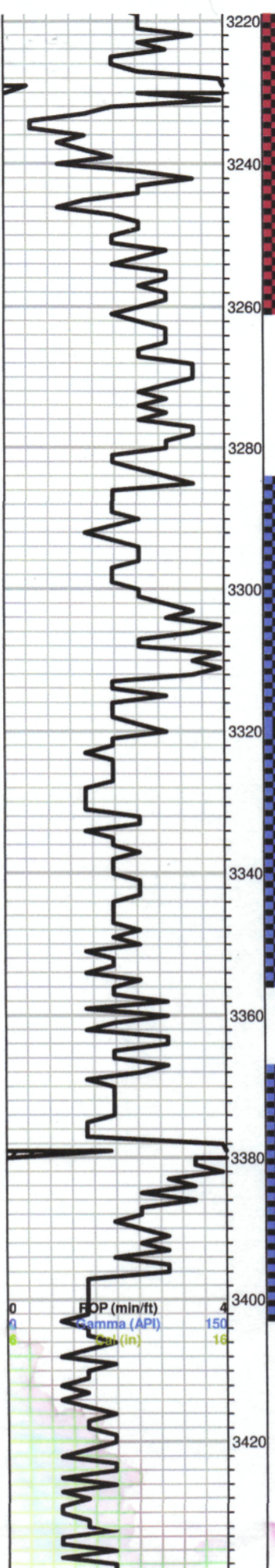
DST #1 3155-3220
30-30-45-45
IF: 2 1/4" Blow
ISI: No return
FF: 1 1/2" Blow
FSI: No return

Recovery:
60' VSOCGM
(5%g 5%o 90%m)

Pressures:
ISIP 405psi
FSIP 409psi
IFP 35-49psi
FFP 58-102psi
HSH 1612-1512psi

0	C2 (units)	100
0	C3 (units)	100
0	C4 (units)	100

DST #2 3216-3260
30-30-45-45
IF: 1/4" Blow



Ls-tan/gry, fxln, poor iner clast por, trace brwn stns, slightly sat, Fair SFO, fair odor

Ls-crm/wht, fxln, ool, good oom por, golden brwn stains, slightly sat, SFO, good odor, cherty

Ls-crm/tan, f-med xln, poor iner xln por, Trace golden brwn stns,

Ls-crm/tan/buff, fxln, dense, poro iner xln, por, chalky

Ls-A/A, shale-gry/brwn

Black carbon shale

Ls-crm/tan, fxln, poro vis por, chalky

Ls-crm/tan, fxln, poor vis por, dense

Ls-crm/tan/wht, fxln, ool, poor iner ool por, golden brown stains, SFO, faint odor

Ls-crm/tan, fxln, ool, poor/fair ine rool por, brwn stains, TrSFO, faint odor

Ls-crm/wht, fxln, ool, dense, poor iner ool por, brwn stains, TrSFO, faint odor,

Ls-A/A

Shale-gry/grn

Ls-crm/tan, fxln, ool, dense, poor iner ool por w/trace poor vug por, sucrosic, trace spotty stns, NSFO

Ls-crm/tan, ool, dense, poor vis por, slightly cherty
Shale-gry/grn/brwn

Arbuckle 3394.0 (-1440.0) 0.0

Dol-wht/CRM, fxln, few med, few rhombic, poor/fair iner xln por, Brwn stns, Fair SFO, Faint/fair odor

Dol-wht, f-med xln, few rhombic, fair/goood iner xln por w/ scattered fair vug por, golden brwn stains, FrSFO, good odor

Dol-wht/CRM, med xln, few rhombic, dense, fair iner xln por w/scattered poor vug, brwn stns, TrSFO, faint/fair odor.

Dol-wht, f-med xln, sucrosic, poor iner xln por w/ trace vuggy por, poor brwn stning, TrSFO, Faint odor.

IF: 1/4" Blow
FF: No blow, tool flushed, no help

Recovery:
10' Mud w/oil scum

Pressures:
ISIP 395psi
FSIP 454psi
IFP 33-36psi
FFP 35-37psi
HSH 1610-1538psi

DST #3 3284-3355
30-30-45-45
IF: 1/4" Blow
FF: No blow

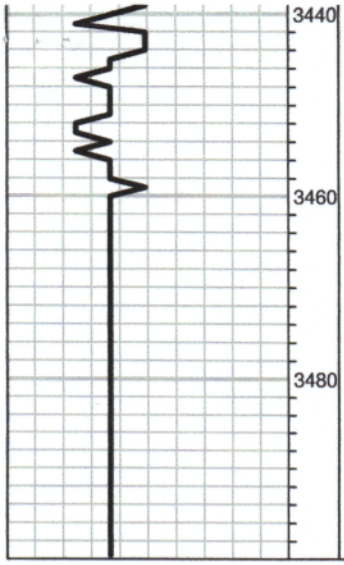
Recovery:
10' mud w/oil scum

Pressures:
ISIP 74psi
FSIP 72psi
IFP 45-49psi
FFP 49-55psi
HSH 1670-1631psi

DST #4 3367-3402
30-30-30-30
IF: BOB 3 min
ISI: Surface Blow
FF: 5" Blow
FSI: Surface Blow

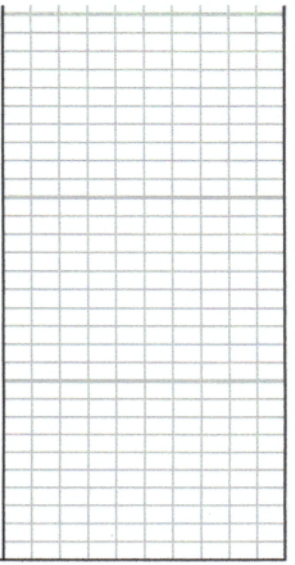
Recovery:
1078' Gas in Pipe
263' Gassy Oil
(20%gas 80%oil)
186' Highly Oil Cut Mud
(30%oil 70%mud)

Pressures:
ISIP 592psi
FSIP 532psi
IFP 76-126psi
FFP 142-182psi
HSH 1696-1637psi



Dol-wht, f xln, few rhomic, dense, poor iner xln por, trace stns, NSFO, very faint odor.

Dol-wht, fxln, poor iner xln por, dense,





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mai Oil Operations
8411 Preston Rd, Ste 800
Dallas TX 75225
ATTN: Jim Musgrove

21-16s-13w Barton KS
Holland #2
Job Ticket: 47759 **DST#: 4**
Test Start: 2012.07.11 @ 02:04:00

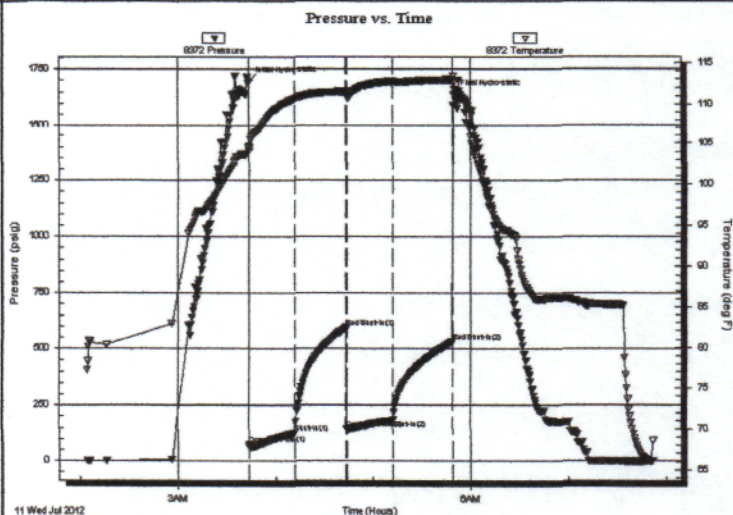
GENERAL INFORMATION:

Formation: **Arbuckle**
 Deviated: **No** Whipstock: ft (KB)
 Time Tool Opened: 03:43:40
 Time Test Ended: 07:52:00
 Test Type: Conventional Bottom Hole (Reset)
 Tester: Cody Bloedorn
 Unit No: 39
 Interval: **3367.00 ft (KB) To 3402.00 ft (KB) (TVD)**
 Total Depth: 3402.00 ft (KB) (TVD)
 Reference Elevations: 1946.00 ft (KB)
 1941.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 5.00 ft

Serial #: 8372 **Outside**
 Press@RunDepth: 182.67 psig @ 3399.00 ft (KB) Capacity: 8000.00 psig
 Start Date: 2012.07.11 End Date: 2012.07.11 Last Calib.: 2012.07.11
 Start Time: 02:04:05 End Time: 07:51:59 Time On Btm: 2012.07.11 @ 03:43:30
 Time Off Btm: 2012.07.11 @ 05:49:30

TEST COMMENT: 30 - IF- B.O.B. in 3 min.
 30 - IS- Surface blow back
 30 - FF- 5" blow
 30 - FS- Surface blow

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1696.22	104.63	Initial Hydro-static
1	76.45	104.06	Open To Flow (1)
29	126.02	110.69	Shut-In(1)
60	592.94	111.52	End Shut-In(1)
61	142.88	110.88	Open To Flow (2)
89	182.67	112.76	Shut-In(2)
126	532.84	112.97	End Shut-In(2)
126	1637.68	112.48	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
186.00	HOCM, 30%O, 70%M	2.61
263.00	GO, 20%G, 80%O	3.69
0.00	107' of G.I.P.	0.00

* Recovery from multiple tests

Gas Rates

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

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. 701

Date	7-5-12	Sec.	21	Twp.	16	Range	13	County	Broton	State	KS	On Location		Finish	11.30pm	
Lease	Holland	Well No.	# 2	Location	South to N E into											
Contractor	Southwind 3							Owner	Susan K							
Type Job	Surface							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.								
Hole Size	8 1/2		T.D.	450		Depth	440									
Csg.	8 5/8		Depth	440												
Tbg. Size			Depth													
Tool			Depth													
Cement Left in Csg.	15		Shoe Joint	15		The above was done to satisfaction and supervision of owner agent or contractor.										
Meas Line			Displace	27.5		Cement Amount Ordered	250 @ 38cc 290cc									

EQUIPMENT

Pumptrk #5 No.	Cementer	Math	Common	150
Bulktrk #10 No.	Helper	Brett	Poz. Mix	100
Bulktrk No.	Driver	Lubric	Gel.	5
	Driver		Calcium	10

JOB SERVICES & REMARKS

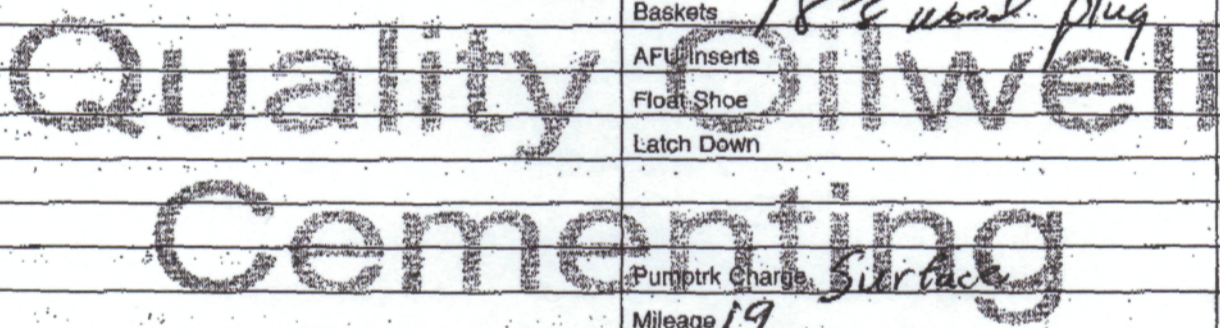
Remarks:	Hulls
Rat Hole	Salt
Mouse Hole	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48
D/V or Port Collar	CFL-117 or CD110 CAF 38

Cement did curdulate

Sand	
Handling	100
Mileage	

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	18" wood plug
AFU Inserts	
Float Shoe	
Latch Down	



Pumptrk Charge	Surface
Mileage	19

Signature	Jan Huer	Tax	
		Discount	
		Total Charge	

QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

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

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

No. 909

Date	7-12-12	Sec.	21	Twp.	16	Range	13	County	Barton	State	Ks	On Location		Finish	3:15 PM
Lease	Holland		Well No.	2		Location	Susank, Ks - 1/2 N, E Into								
Contractor	Southwind #3					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	Production					Charge To	mai oil operations								
Hole Size	7 7/8"		T.D.	3460'		Depth	3449'								
Csg.	5 1/2" 11#		Depth	867.85'		Street									
Tbg. Size	Port Collar		Depth	19.75'		City	State								
Tool	19.75'		Shoe Joint	83 1/2 BLS		The above was done to satisfaction and supervision of owner agent or contractor.									
Cement Left in Csg.	Displace		Cement Amount Ordered		160 sx 60/40 1000 10% Salt										
Meas Line	EQUIPMENT		2% Gel 1/4 # Flw-seal - 1000 gal Mud Clear 48												
Pumptrk	5	No.	Cementer	Brett		Common.									
Bulktrk	10	No.	Helper	Jason		Poz. Mix									
Bulktrk	p.u.	No.	Driver	Rick		Gel.									
JOB SERVICES & REMARKS															
Remarks:	Calcium														
Rat Hole	Hulls														
Mouse Hole	Salt														
Centralizers	1-10		Flowseal												
Baskets	Kol-Seal														
D/V or Port Collar	J4 # 62 - 867.85'		Mud CLR 48												
pipe on bottom, break Circulation															
pump 1000 gal mud clear 48															
plug Rathole w/ 30 sx. Hook to															
5 1/2" Casing and mpx 130 sx															
60/40 12% Salt 2% Gel 1/4 # Flow-seal															
shut down, wash pump + lines															
Released plug + Displaced with 83 1/2															
BLS of water. Released + held															
Lift pressure 700 #															
Land plug to 1600 #															
FLOAT EQUIPMENT															
Guide Shoe															
Centralizer 10 turbos															
Baskets 1 weatherford															
AFU Inserts															
Float Shoe 1															
Latch Down 1															
Pumptrk Charge															
Mileage															
Tax															
Discount															
Total Charge															
X Signature	Jay Kruen														

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. 929

Date	8-2-12	Sec.	21	Twp.	16	Range	13	County	Barber	State	Ks	On Location		Finish	9:45 AM	
Lease	Holland	Well No.	2		Location		Susank, Ks - 1/2 N, E/into									
Contractor	Express well service							Owner:								
Type Job	port collar							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.								
Hole Size	T.D.							Charge To								
Csg.	5 1/2"							To								
Tbg. Size	2 7/8"							main oil operations								
Tool	port collar							Depth 867'								
Cement Left in Csg.	Shoe Joint							Street								
Meas Line	Displace 4 BLS							City								
EQUIPMENT							State									
Pumptrk	16	No.	Cementer Helper		Travis		The above was done to satisfaction and supervision of owner agent or contractor.									
Bulktrk	14	No.	Driver		Brian		Cement Amount Ordered 225 sx 60/40 4% Gel 1/2 H									
Bulktrk	p.u.	No.	Driver		Rick		Common.									
JOB SERVICES & REMARKS							Poz. Mix									
Remarks:								Gel.								
Rat Hole								Calcium								
Mouse Hole								Hulls								
Centralizers								Salt								
Baskets								Flowseal								
D/V or Port Collar	Lead hole, pressure to 1000# tool closed, open tool, break circulation, mix 135 sx 60/40 4% Gel 1/2 Flowseal, Displaced w/ 4 BLS of 1120. Closed tool + pressure to 1000# tool closed. Run 10 JTS tubing + wash clean.							Kol-Seal								
								Mud CLR 48								
								CFL-117 or CD110 CAF 38								
								Sand								
								Handling								
								Mileage								
								FLOAT EQUIPMENT								
								Guide Shoe								
								Centralizer								
								Baskets								
								AFU Inserts								
								Float Shoe								
								Latch Down								
								1 - 5 1/2" opening tool								
								Pumptrk Charge								
								Mileage								
								Tax								
								Discount								
								Total Charge								
X Signature	Allen Bryant															