



KANSAS CORPORATION COMMISSION 1097631  
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 # 34132  
Name: Mikol Oil LLC  
Address 1: 1407 WASHINGTON CIR  
Address 2: \_\_\_\_\_  
City: HAYS State: KS Zip: 67601 + \_\_\_\_\_  
Contact Person: Larry Denning  
Phone: (785) 259-2360  
CONTRACTOR: License # 31548  
Name: Discovery Drilling  
Wellsite Geologist: Robert Stolze  
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  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_

<u>9/7/2012</u>	<u>9/14/2012</u>	<u>9/15/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-163-24062-00-00  
Spot Description: \_\_\_\_\_  
NE NE SW NW Sec. 33 Twp. 10 S. R. 17  East  West  
1360 Feet from  North /  South Line of Section  
1115 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Rooks  
Lease Name: Schrandt Well #: 1-33  
Field Name: Unknown  
Producing Formation: None  
Elevation: Ground: 2079 Kelly Bushing: 2087  
Total Depth: 3780 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 220 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: 22000 ppm Fluid volume: 320 bbls  
Dewatering method used: Evaporated  
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

- 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: 11/02/2012



1097631

Operator Name: Mikol Oil LLC Lease Name: Schrandt Well #: 1-33  
 Sec. 33 Twp. 10 S. R. 17  East  West County: Rooks

**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 checked="" type="checkbox"/> Yes <input 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:  <small>Dual Induction Log                  Compensated Density Neutron Log.                  Borehole Compensated Sonic Log.</small>	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Attached Top Attached Datum Attached
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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 Pipe	12.25	8.625	23	220	Common	390	2% Gel & 3% CC

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
— Perforate				
— Protect Casing	-			
— Plug Back TD				
— Plug Off Zone	-			

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: <input type="checkbox"/> Yes <input type="checkbox"/> No
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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 Bbbs. Gas Mcf Water Bbbs. 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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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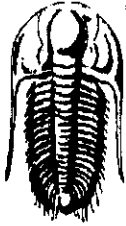
Form	ACO1 - Well Completion
Operator	Mikol Oil LLC
Well Name	Schrandt 1-33
Doc ID	1097631

Tops

Stone Corral Anhydrite	1334	+748
Base Anhydrite	1366	+716
Topeka	3051	-969
Heebner Sh.	3277	-1195
Toronto LS	3294	-1212
Lansing Gp.	3316	-1234
Stark Shale	3512	-1430
Base KS City Gp	3551	-1469
Conglomerate Zn.	3602	-1520
Arbuckle	3691	-1609







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

### FLUID SUMMARY

Mkol Oil, LLC

**33-10s-17w Rooks KS**

1407 Washington Cir.  
Hays KS, 67601

**Schrandt # 1-33**

Job Ticket: 49471

**DST#: 1**

ATTN: Bob Stolze

Test Start: 2012.09.11 @ 16:57:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	Mud - Oil Scum, 100%M	0.587

Total Length: 62.00 ft

Total Volume: 0.587 bbl

Num Fluid Samples: 0

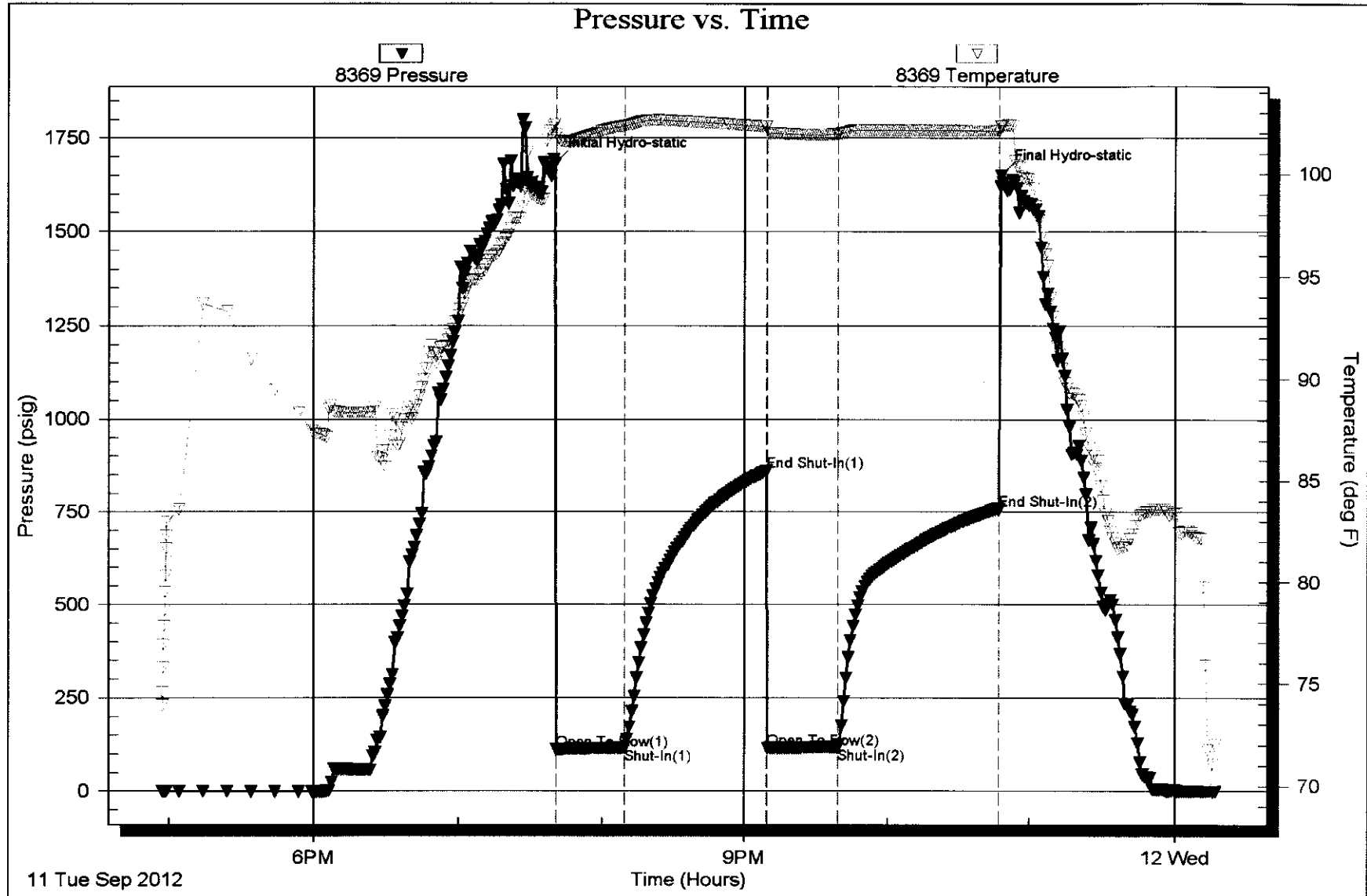
Num Gas Bombs: 0

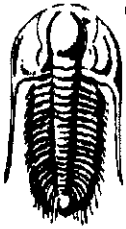
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC.**

**DRILL STEM TEST REPORT**

Mkol Oil, LLC  
 1407 Washington Cir.  
 Hays KS, 67601  
 ATTN: Bob Stolzie

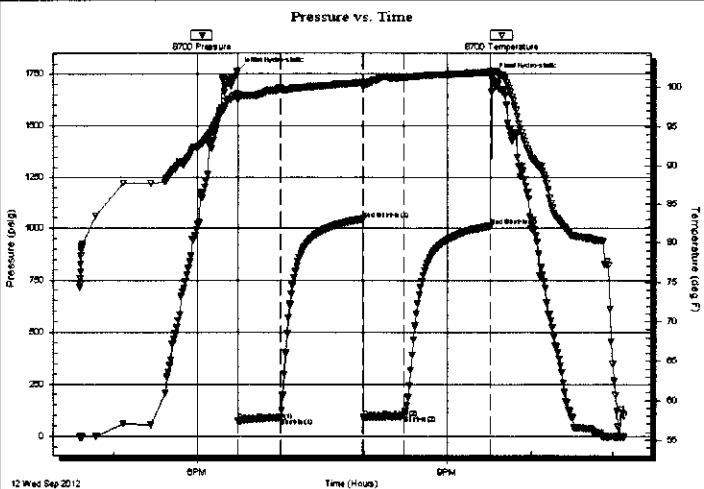
**33-10s-17w Rooks KS**  
**Schrandt # 1-33**  
 Job Ticket: 49472 **DST#: 2**  
 Test Start: 2012.09.12 @ 16:35:00

**GENERAL INFORMATION:**

Formation: **"H-L"**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 18:29:30  
 Time Test Ended: 23:08:00  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cody Bloedorn  
 Unit No: 42  
 Interval: **3430.00 ft (KB) To 3550.00 ft (KB) (TVD)**  
 Total Depth: 3550.00 ft (KB) (TVD)  
 Reference Elevations: 2082.00 ft (KB)  
 2077.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 KB to GR/CF: 5.00 ft

**Serial #: 8700 Outside**  
 Press@RunDepth: 102.14 psig @ 3534.00 ft (KB) Capacity: 8000.00 psig  
 Start Date: 2012.09.12 End Date: 2012.09.12 Last Calib.: 2012.09.12  
 Start Time: 16:35:05 End Time: 23:07:59 Time On Btm: 2012.09.12 @ 18:29:00  
 Time Off Btm: 2012.09.12 @ 21:32:00

**TEST COMMENT:** 30 - IF- 1 1/4" Blow .  
 60 - ISF- No blow back.  
 30 - FF- No blow  
 60 - FSF- No blow back.



**PRESSURE SUMMARY**

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1766.40	99.19	Initial Hydro-static
1	72.44	98.40	Open To Flow (1)
31	89.22	99.90	Shut-In(1)
90	1043.28	100.64	End Shut-In(1)
91	89.50	100.06	Open To Flow (2)
120	102.14	101.27	Shut-In(2)
182	1009.08	101.93	End Shut-In(2)
183	1737.04	102.12	Final Hydro-static

**Recovery**

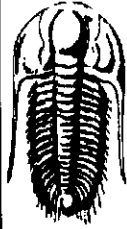
Length (ft)	Description	Volume (bbl)
50.00	Mud - Oil Scum, 100%M	0.42

**Gas Rates**

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

\* Recovery from multiple tests





**TRILOBITE  
TESTING, INC.**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mkol Oil, LLC

**33-10s-17w Rooks KS**

1407 Washington Cir.  
Hays KS, 67601

**Schrandt # 1-33**

Job Ticket: 49472

**DST#: 2**

ATTN: Bob Stolze

Test Start: 2012.09.12 @ 16:35:00

**Mud and Cushion Information**

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.60 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 5000.00 ppm			
Filter Cake: inches			

**Recovery Information**

Recovery Table

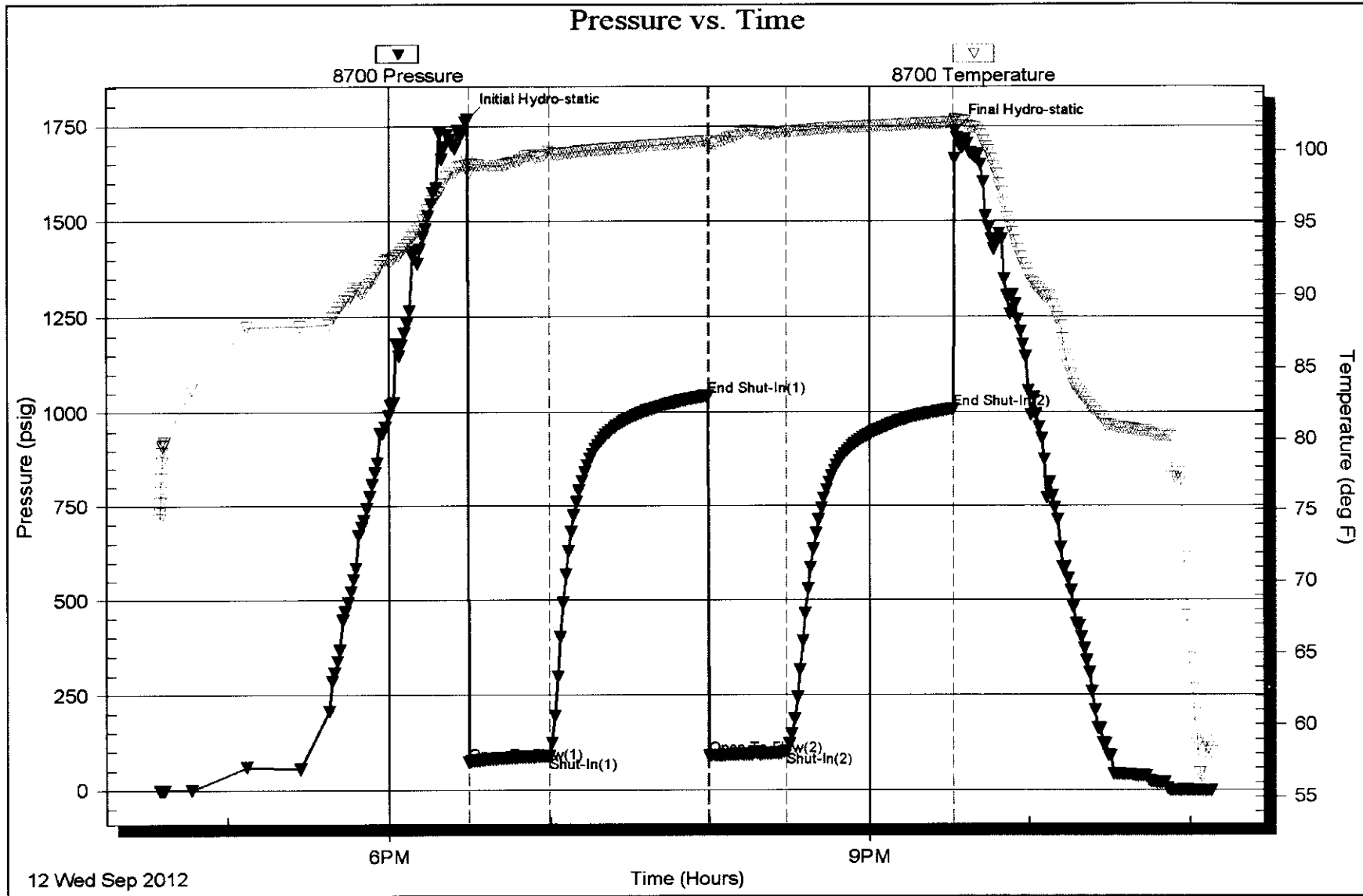
Length ft	Description	Volume bbl
50.00	Mud - Oil Scum, 100%M	0.419

Total Length: 50.00 ft      Total Volume: 0.419 bbl

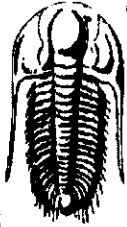
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:

Laboratory Name:      Laboratory Location:

Recovery Comments:







**TRILOBITE  
TESTING, INC.**

## DRILL STEM TEST REPORT

**FLUID SUMMARY**

Mkol Oil, LLC

**33-10s-17w Rooks KS**

1407 Washington Cir.  
Hays KS, 67601

**Schrandt # 1-33**

Job Ticket: 49473

**DST#: 3**

ATTN: Bob Stolze

Test Start: 2012.09.13 @ 09:13:00

### Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 54.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.60 in<sup>3</sup>

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 5000.00 ppm

Filter Cake: inches

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Mud - w Show of oil, 100%M	0.148

Total Length: 30.00 ft

Total Volume: 0.148 bbl

Num Fluid Samples: 0

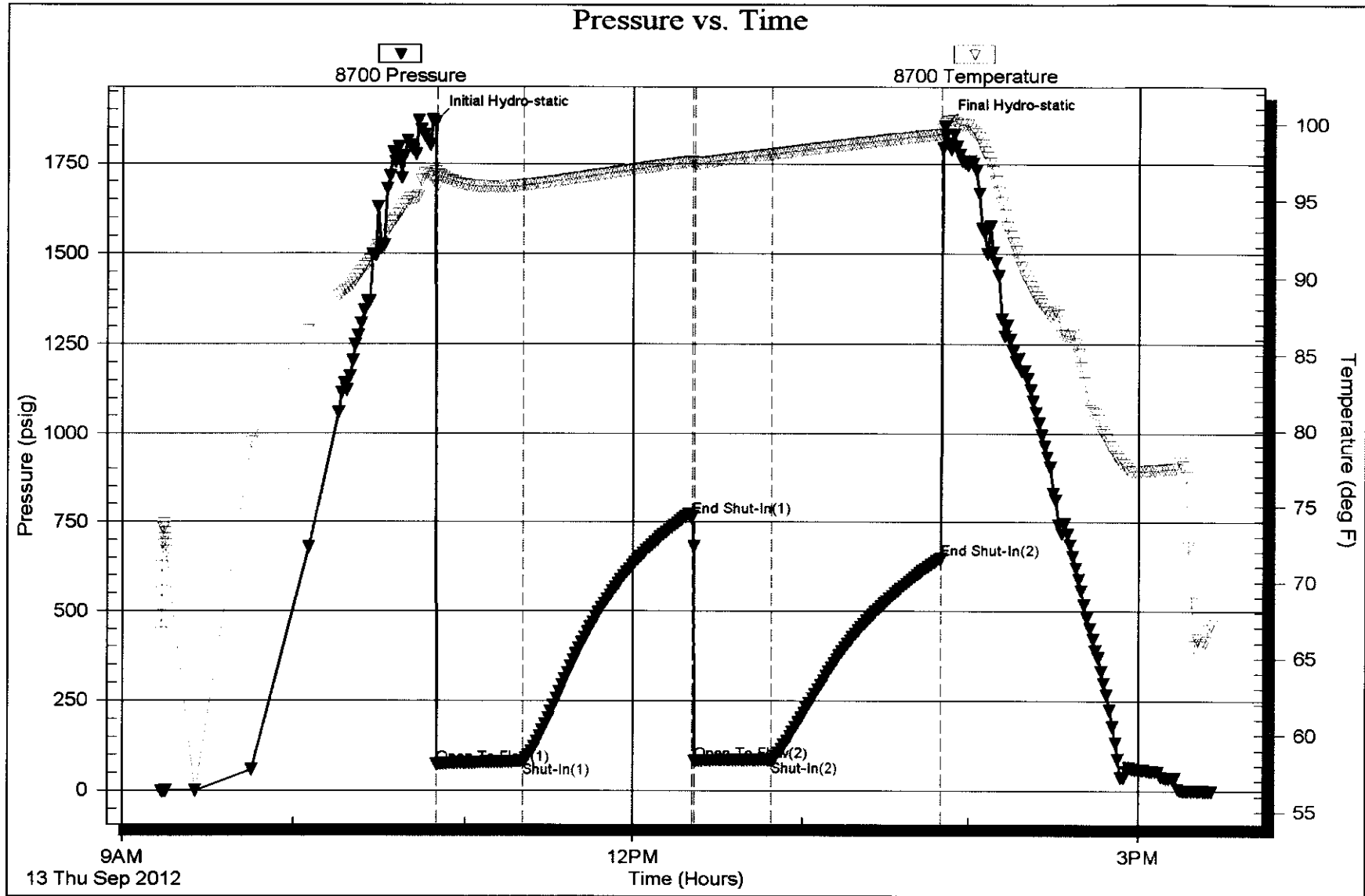
Num Gas Bombs: 0

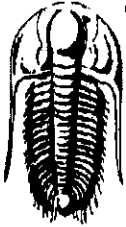
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:





**TRILOBITE TESTING, INC**

# DRILL STEM TEST REPORT

Mikol Oil, LLC  
 1407 Washington Cir.  
 Hays KS, 67601  
 ATTN: Bob Stolzle

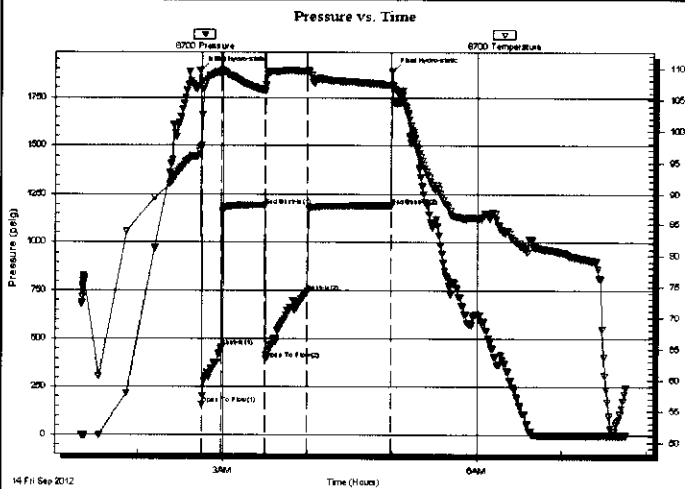
**33-10s-17w Rooks KS**  
**Schrandt # 1-33**  
 Job Ticket: 49474      **DST#: 4**  
 Test Start: 2012.09.14 @ 01:20:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 02:45:00  
 Time Test Ended: 07:45:30  
 Test Type: Conventional Bottom Hole (Reset)  
 Tester: Cody Bloedorn  
 Unit No: 42  
 Interval: **3587.00 ft (KB) To 3695.00 ft (KB) (TVD)**  
 Total Depth: 3695.00 ft (KB) (TVD)  
 Reference Elevations: 2082.00 ft (KB)  
 Hole Diameter: 7.88 inches Hole Condition: Fair                      2077.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8700**      **Outside**  
 Press@RunDepth: 744.25 psig @ 3687.00 ft (KB)      Capacity: 8000.00 psig  
 Start Date: 2012.09.14      End Date: 2012.09.14      Last Calib.: 2012.09.14  
 Start Time: 01:20:05      End Time: 07:45:29      Time On Btm: 2012.09.14 @ 02:44:30  
 Time Off Btm: 2012.09.14 @ 04:59:30

**TEST COMMENT:** 15 - IF- B.O.B. in 2 Minutes  
 30 - IS- No blow back.  
 30 - FF- B.O.B. in 2 Minutes  
 60 - FS- No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1890.83	97.36	Initial Hydro-static
1	159.17	97.69	Open To Flow (1)
15	456.69	109.45	Shut-In(1)
45	1190.67	106.54	End Shut-In(1)
46	395.39	106.34	Open To Flow (2)
75	744.25	109.52	Shut-In(2)
134	1191.02	107.44	End Shut-In(2)
135	1884.56	107.04	Final Hydro-static

## Recovery

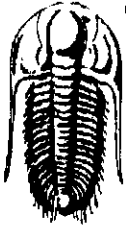
Length (ft)	Description	Volume (bbl)
62.00	Mud - Skim of Oil, 100%M	0.59
1147.00	MW, 10%M, 90%W	16.09
248.00	WM, 5%W, 95%M	3.48

\* Recovery from multiple tests

## Gas Rates

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





**TRILOBITE  
TESTING, INC**

**DRILL STEM TEST REPORT**

**FLUID SUMMARY**

Mkol Oil, LLC

**33-10s-17w Rooks KS**

1407 Washington Cir.  
Hays KS, 67601

**Schrandt # 1-33**

Job Ticket: 49474

**DST#: 4**

ATTN: Bob Stolze

Test Start: 2012.09.14 @ 01:20:00

**Mud and Cushion Information**

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in<sup>3</sup>

Gas Cushion Type:

Gas Cushion Pressure:

psig

Resistivity: ohm.m

Salinity: 5000.00 ppm

Filter Cake: inches

**Recovery Information**

Recovery Table

Length ft	Description	Volume bbl
62.00	Mud - Skim of Oil, 100%M	0.587
1147.00	MW, 10%M, 90%W	16.089
248.00	WM, 5%W, 95%M	3.479

Total Length: 1457.00 ft

Total Volume: 20.155 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

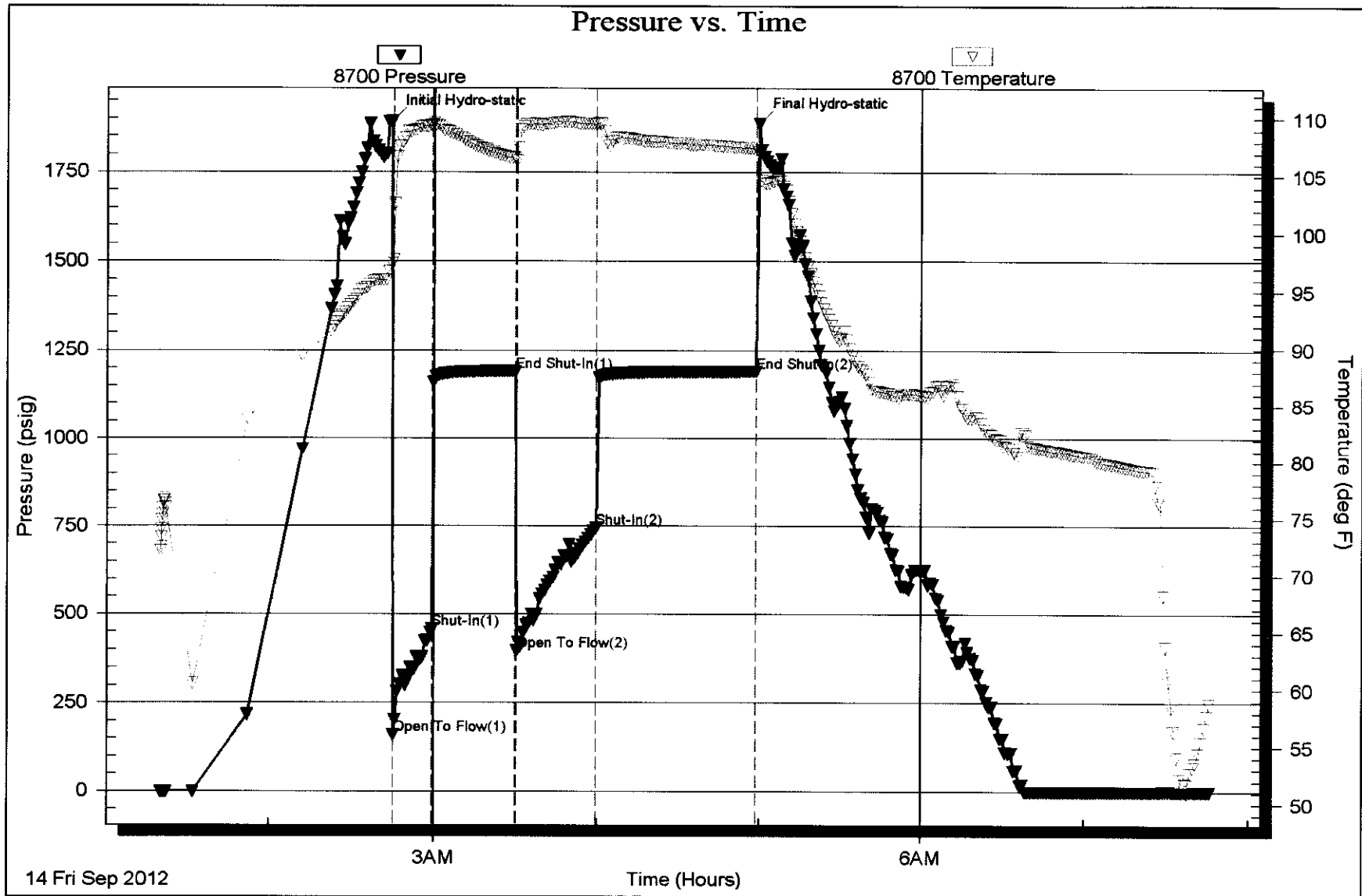
Serial #:

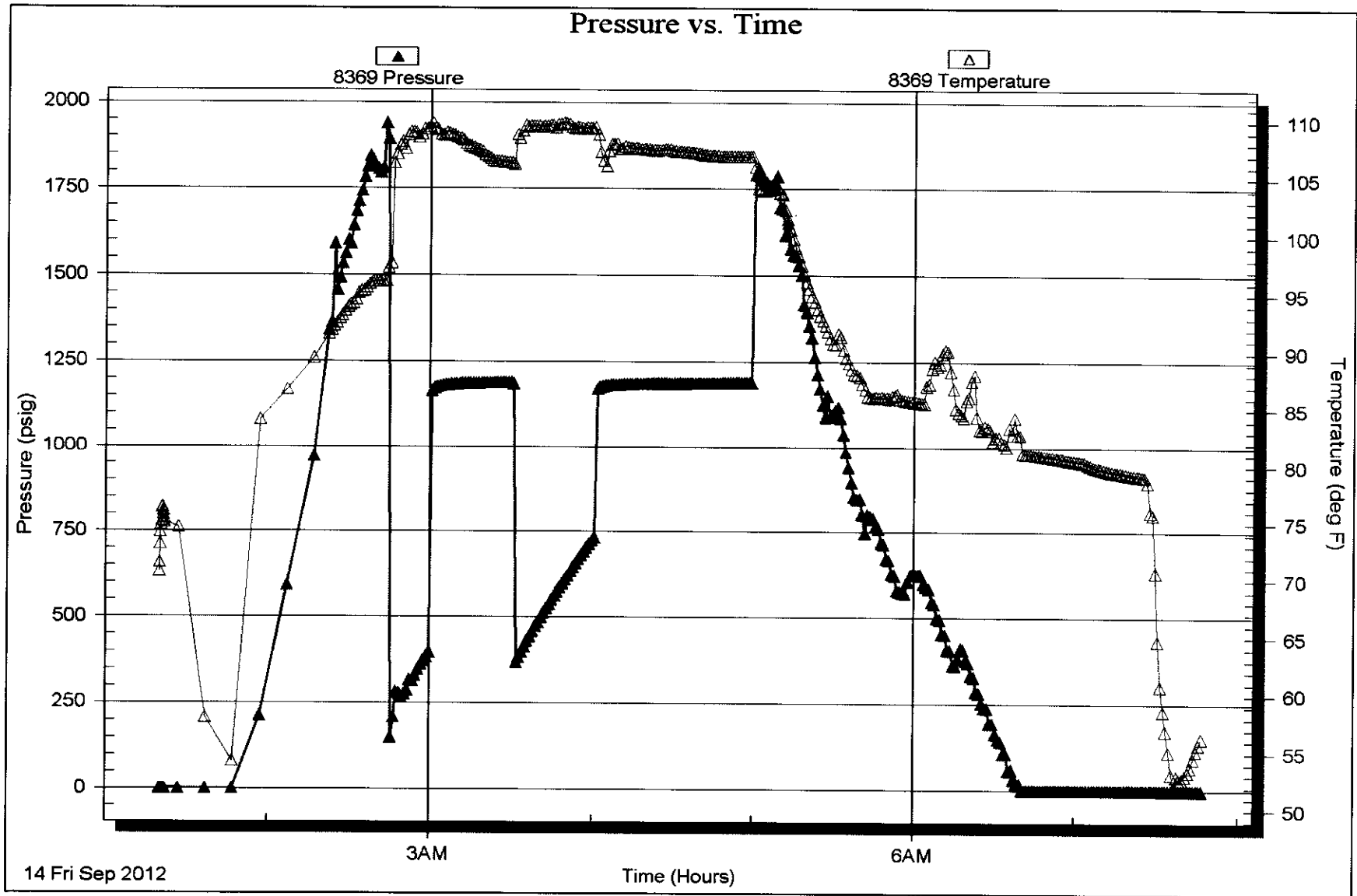
Laboratory Name:

Laboratory Location:

Recovery Comments:







# QUALITY OILWELL CEMENTING, INC.

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

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

No. 5361  
9-15-12

Date	9-14-12	Sec.	33	Twp.	10	Range	17	County	Rooks	State	Ks	On Location	Finish	2:45 AM	
Lease	Schrandt			Well No.	1-33			Location	Hay's N to River Rd, 4E to Taylor						
Contractor	Discovery #4							Owner	Rd, 3 N to Curve, N into						
Type Job	Plug							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	7 7/8"		T.D.	3780'			Charge To	Mikol oil							
Csg.			Depth				Street								
Tbg. Size	45" D.P.		Depth	3670'			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	245 SX 6040 4 1/2 Gal 1/4#FS.							
Meas Line			Displace	1120/1mm											

### EQUIPMENT

Pumptrk	5	No.	Cementer	Brett	Common	147
			Helper			
Bulktrk	4	No.	Driver	Levy	Poz. Mix	98
			Driver			
Bulktrk	plu	No.	Driver	Rick	Gel.	9
			Driver			

### JOB SERVICES & REMARKS

Remarks:	Calcium
Rat Hole	Hulls
Mouse Hole	Salt
Centralizers	Flowseal 60#
Baskets	Kol-Seal
D/V or Port Collar	Mud CLR 48
3670' - 25 SX	CFL-117 or CD110 CAF 38
1370' - 25 SX	Sand
804' - 100 SX	Handling 234
270' - 40 SX	Mileage
40' - 10 SX w/ plug	<b>FLOAT EQUIPMENT</b>
Rathole - 30 SX	Guide Shoe
mousehole - 15 SX	Centralizer
	Baskets
	AFU Inserts
	Float Shoe
	Latch Down
	1 - Dry hole plug
	Pumptrk Charge plug
	Mileage 25

Cement did Circulate

X Signature *[Signature]*

Tax	
Discount	
<b>Total Charge</b>	

# QUALITY OILWELL CEMENTING, INC.

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

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

No. 6535

Date	9-8-12	Sec.	33	Twp.	10	Range	17	County	Rooks	State	KS	On Location	Finish	7:30 a.m.		
Location								Turkville 30' Ex. Lipton								
Lease	Schmitt		Well No.		1-33		Owner									
Contractor	D. Sperry #4		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	Surface		Charge To								Mikel Oil					
Hole Size	12 1/4		T.D.		221		Street									
Csg.	8 5/8		Depth		220		City								State	
Tbg. Size			Depth				The above was done to satisfaction and supervision of owner agent or contractor.									
Tool			Depth				Cement Amount Ordered								26000m 3 1/2 CC 2 1/2 Gel	
Cement Left in Csg.	15'		Shoe Joint				Meas Line								Displace 13BC	
<b>EQUIPMENT</b>												Common		390'		
Pumptrk	16		No.		Cement		Helper		Cms		Poz. Mix					
Bulktrk			No.		Driver		Trows				Gel.		5			
Bulktrk	8		No.		Driver		Cody				Calcium		17			
<b>JOB SERVICES &amp; REMARKS</b>												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				
Mixed 200SK 3 1/2 CC 2 1/2 Gel												Handling		4/2		
Down Surface Pipe + Displaced												Mileage				
13BC - NO Circulation. Mixed												<b>FLOAT EQUIPMENT</b>				
60SK 3 1/2 CC 2 1/2 Gel Down Backside												Guide Shoe				
No Fill.												Centralizer		8 5/8		
												Baskets		1		
Mixed 100SK 5 1/2 CC with Hare												AFU Inserts				
Mixed 30SK 5 1/2 CC Cement												Float Shoe				
(Circulator)												Latch Down				
												Pumptrk Charge		Surface		
												Mileage		25		
												Tax				
												Discount				
Signature												Total Charge				