



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1088175
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: _____

1088175

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> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mikol Oil LLC
Well Name	Haberer 2-27
Doc ID	1088175

All Electric Logs Run

Compensated Density Neutron
Dual Induction
Micro Resistivity
Cement Bond

Form	ACO1 - Well Completion
Operator	Mikol Oil LLC
Well Name	Haberer 2-27
Doc ID	1088175

Tops

Name	Top	Datum
Stone Corral Anhydrite	1266	+819
Base Anhydrite	1300	+785
Topeka	3016	-931
Heebner Shale	3251	-1166
Toronto LS	3269	-1184
Lansing Group	3292	-1207
"G" Zone Porosity	3389	-1304
Stark Shale	3491	-1406
Base KS City Gp.	3538	-1453
Conglomerate Zone	3578	-1493
Simpson Sand	3632	-1547
Arbuckle	3672	-1587



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

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

27-10s-16w Rooks KS

Haberer

Job Ticket: 47187 **DST#: 1**
Test Start: 2012.05.27 @ 22:19:00

GENERAL INFORMATION:

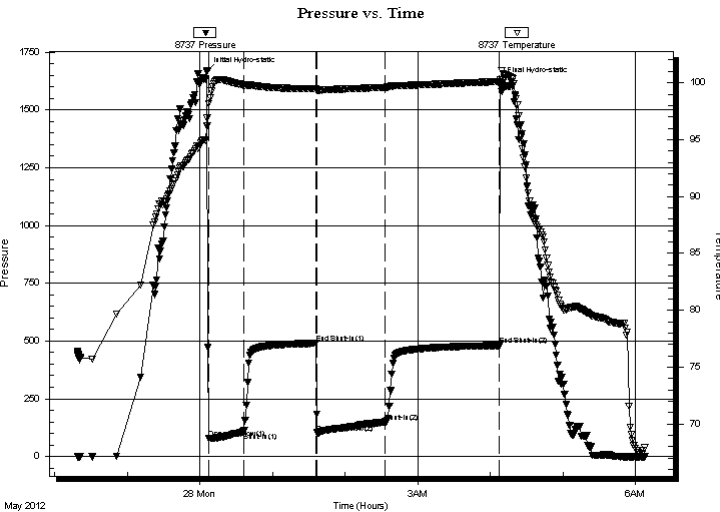
Formation: **"C-F"**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 00:07:30
Time Test Ended: 06:07:30
Interval: **3312.00 ft (KB) To 3385.00 ft (KB) (TVD)**
Total Depth: 3385.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Cody Bloedorn
Unit No: 44
Reference Elevations: 2085.00 ft (KB)
2078.00 ft (CF)
KB to GR/CF: 7.00 ft

Serial #: 8737

Outside

Press @ Run Depth: 148.85 psig @ 3382.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.05.27 End Date: 2012.05.28 Last Calib.: 2012.05.28
Start Time: 22:19:01 End Time: 06:07:30 Time On Btm: 2012.05.28 @ 00:06:00
Time Off Btm: 2012.05.28 @ 04:08:00

TEST COMMENT: 30 - IF- B.O.B. in 12 Min
60 - IS- No blow back
60 - FF- B.O.B. in 12 Min.
90 - FS- No blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1665.87	96.88	Initial Hydro-static
2	77.89	98.19	Open To Flow (1)
30	106.75	99.79	Shut-In(1)
90	490.18	99.49	End Shut-In(1)
91	102.55	99.38	Open To Flow (2)
147	148.85	99.60	Shut-In(2)
242	480.90	100.11	End Shut-In(2)
242	1623.35	100.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
62.00	GOCM, 20%O, 30%G, 60%M	0.59
124.00	GHOCM, 10%M, 40%O, 50%G	1.74
45.00	GMCO, 10%G, 40%M, 50%O	0.63
0.00	186' of G.I.P.	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

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

27-10s-16w Rooks KS
Haberer
Job Ticket: 47187 **DST#: 1**
Test Start: 2012.05.27 @ 22:19:00

Mud and Cushion Information

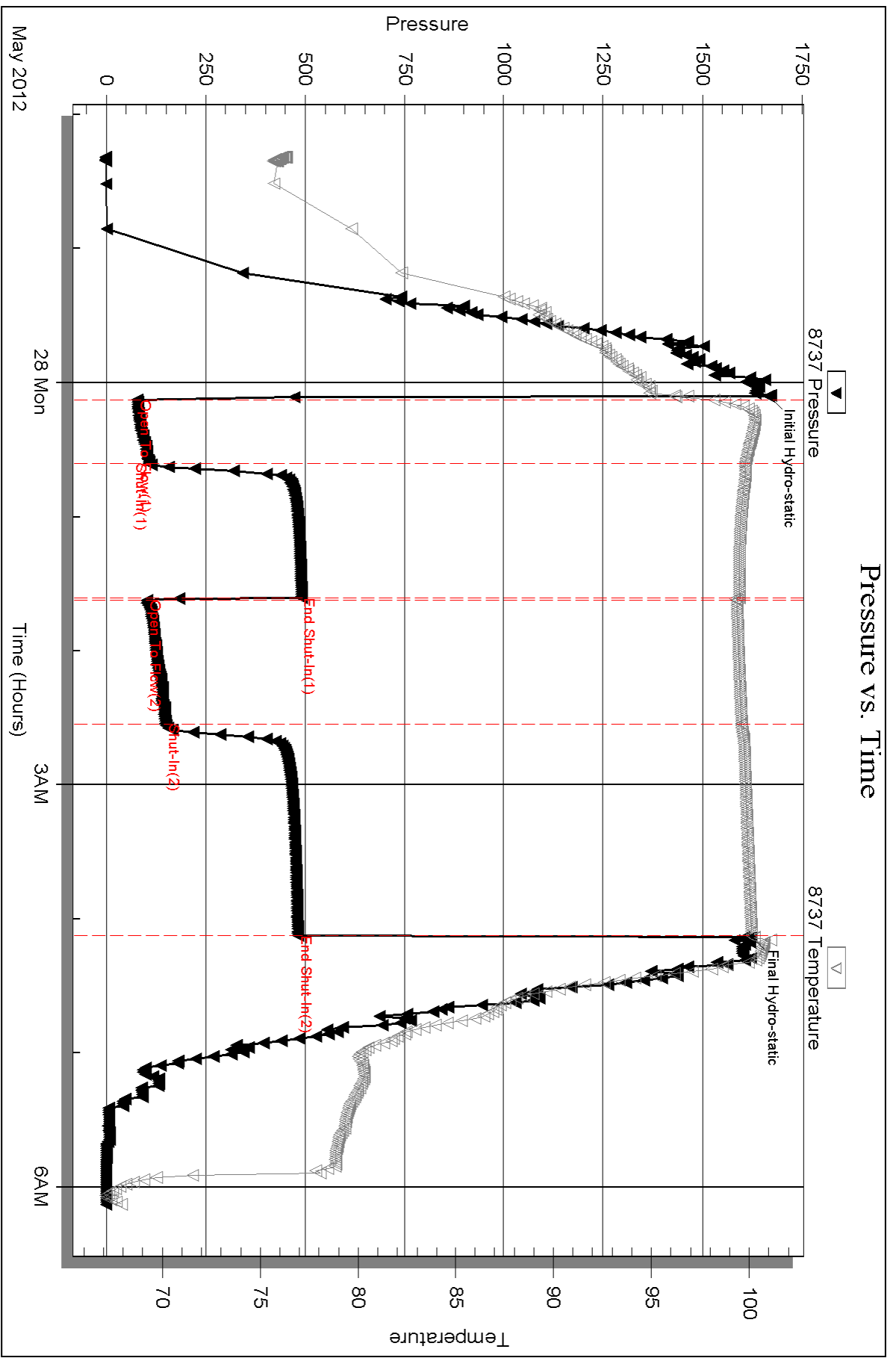
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
62.00	GOCM, 20%O, 30%G, 60%M	0.587
124.00	GHOCM, 10%M, 40%O, 50%G	1.739
45.00	GMCO, 10%G, 40%M, 50%O	0.631
0.00	186' of G.I.P.	0.000

Total Length: 231.00 ft Total Volume: 2.957 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mikoil Oil LLC
1407 Washington Cir.
Hays KS, 67601
ATTN: Bob Stozle

27-10s-16w Rooks KS

Haberer

Job Ticket: 47188 **DST#: 2**
Test Start: 2012.05.29 @ 01:48:00

GENERAL INFORMATION:

Formation: **Cong. & Sim. Snd**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 03:39:30
Time Test Ended: 06:59:00
Interval: **3535.00 ft (KB) To 3650.00 ft (KB) (TVD)**
Total Depth: 3650.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole (Reset)
Tester: Cody Bloedorn
Unit No: 44
Reference Elevations: 2085.00 ft (KB)
2078.00 ft (CF)
KB to GR/CF: 7.00 ft

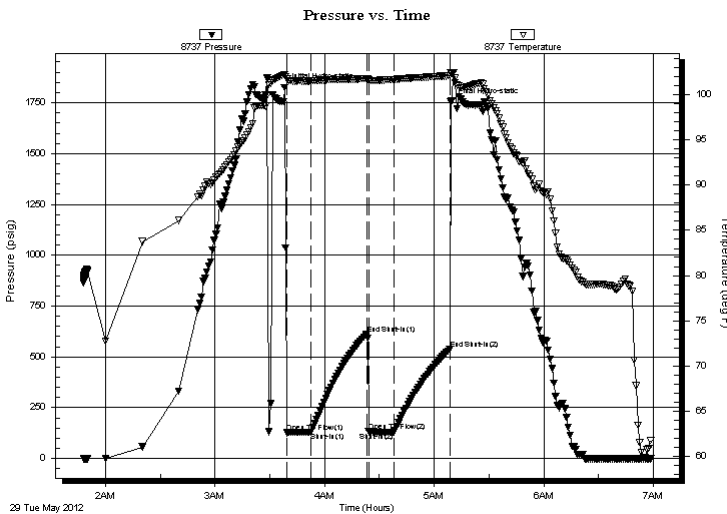
Serial #: 8737

Outside

Press @ Run Depth: 129.25 psig @ 3636.00 ft (KB) Capacity: 8000.00 psig
Start Date: 2012.05.29 End Date: 2012.05.29 Last Calib.: 2012.05.29
Start Time: 01:48:01 End Time: 06:59:00 Time On Btm: 2012.05.29 @ 03:38:00
Time Off Btm: 2012.05.29 @ 05:09:00

TEST COMMENT: 15 - IF- 1/4" blow , died in 12 Min.
30 - IS- No blow back
15 - FF- No blow
30 - FS- No blow back

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1824.85	102.22	Initial Hydro-static
2	127.14	101.74	Open To Flow (1)
15	128.58	101.51	Shut-In(1)
45	611.17	101.76	End Shut-In(1)
46	132.52	101.59	Open To Flow (2)
60	129.25	101.67	Shut-In(2)
91	538.93	102.09	End Shut-In(2)
91	1752.81	102.45	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
93.00	Mud - Oil Scum, 100%M	1.02

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
1407 Washington Cir.
Hays KS, 67601
ATTN: Bob Stozle

27-10s-16w Rooks KS
Haberer
Job Ticket: 47188 **DST#: 2**
Test Start: 2012.05.29 @ 01:48:00

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: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psig		
Salinity: 8000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
93.00	Mud - Oil Scum, 100%M	1.022

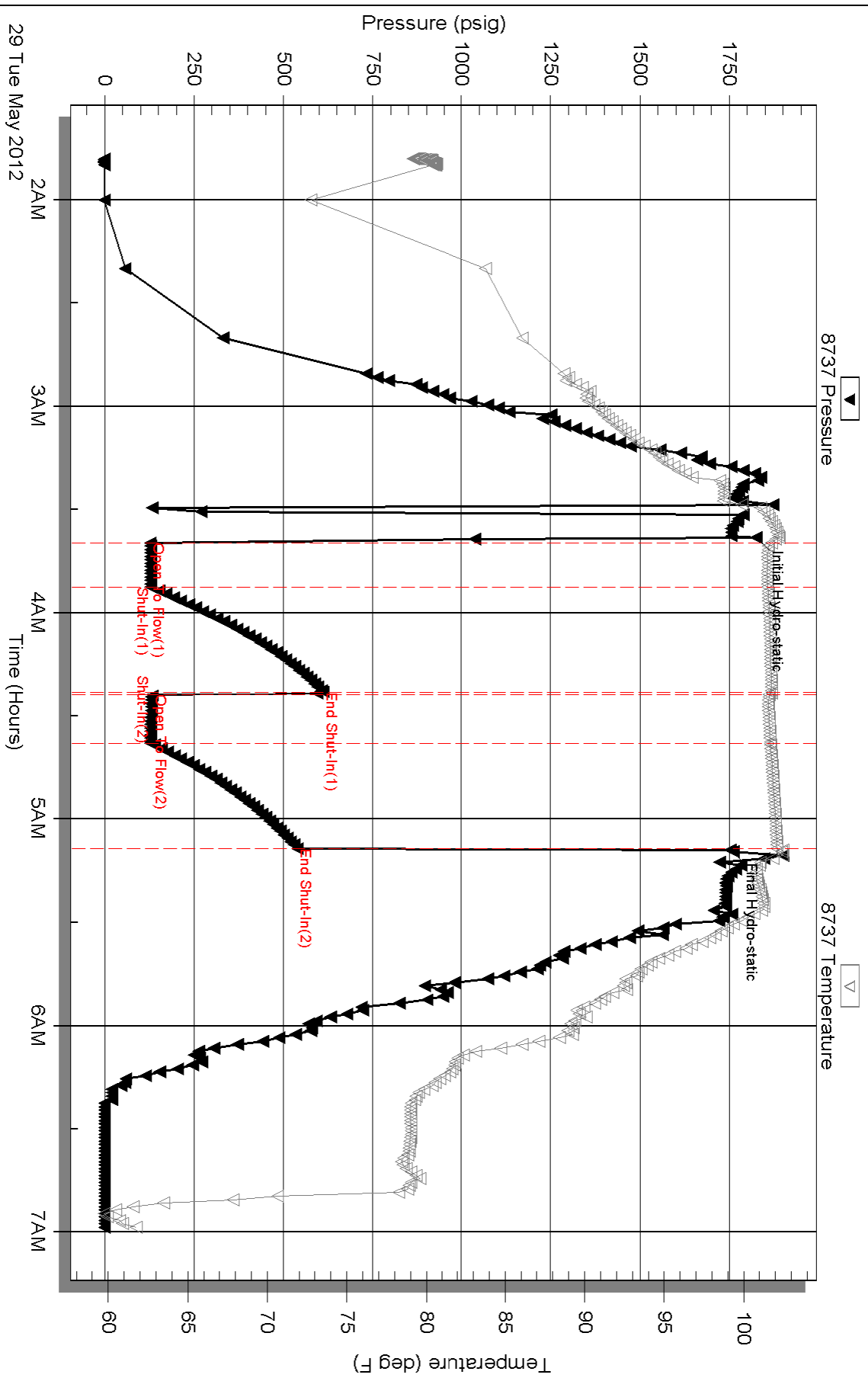
Total Length: 93.00 ft Total Volume: 1.022 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments: Tool slid 30' to bottom, causing it to open and close on the way to bottom.

Pressure vs. Time



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. 667

Date	5-23-12	Sec.	27	Twp.	10	Range	16	County	Rooks	State	KS	On Location		Finish	8:30pm
Lease	Huber	Well No.	2-27		Location Fairport 1 to 290 RD 2W W CCRD 1/2W Sinto										
Contractor	Discovery #4							Owner							
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	12 1/4		T.D.		223		Charge To								
Csg.	8 5/8		Depth		223		Mikol Oil								
Tbg. Size			Depth				Street								
Tool			Depth				City State								
Cement Left in Csg.	15'		Shoe Joint				The above was done to satisfaction and supervision of owner agent or contractor.								
Meas Line			Displace		13BC		Cement Amount Ordered 150 com 3 1/2 cc 2 1/2 cc 1								

EQUIPMENT

Pumptrk	No.	Cementer	5	5	Helper	Common	150
Bulktrk	No.	Driver			Driver	Poz. Mix	
Bulktrk	No.	Driver	12	12	Driver	Gel.	3

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
8 5/8 on bottom. Est. Circulation Mix	Sand
150 com 4 Displace.	Handling 158
	Mileage

Cement Circulated

FLOAT EQUIPMENT

Guide Shoe
Centralizer
Baskets
AFU Inserts
Float Shoe
Latch Down

Pumptrk Charge	Surface
Mileage	33

X Signature <i>[Signature]</i>	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. 672

Date	5-30-12	Sec.	27	Twp.	10	Range	16	County	Rees	State	KS	On Location		Finish	11:15 a.m.
Lease	Haberer	Well No.	2-27		Location Fairport v 290rd 2w 1w 2w 5into										
Contractor	Discovery #4							Owner							
Type Job	Production String							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. 3730												
Csg.	5 1/2 15.50		Depth 3729												
Tbg. Size			Depth												
Tool	Port Collar		Depth 1277												
Cement Left in Csg.	22.79		Shoe Joint 22.79												
Meas Line			Displace 883C												
EQUIPMENT															
Pumptrk	15	No.	Cement Helper	Craig											
Bulktrk		No.	Driver	Nick											
Bulktrk	14	No.	Driver	Doug											
JOB SERVICES & REMARKS															
Remarks:	500 gal mud clean														
Rat Hole	30		Common 200												
Mouse Hole	15		Poz. Mix												
Centralizers	Gel.														
Baskets	Calcium														
D/V or Port Collar	Hulls														
	30		Salt 17												
	15		Flowseal												
	Kol-Seal 1000#														
	Mud CLR 48 500														
	CFL-117 or CD110 CAF 38														
	Sand														
	3729		Insert @ 3710												
	Handling 227														
	Mileage														
FLOAT EQUIPMENT															
	5 1/2		Guide Shoe 5 1/2												
	7		Centralizer 7												
	1		Baskets 1												
	1		AFU Inserts Port Collar												
	1		Float Shoe 1												
	1		Latch Down 1												
	20 Recip. Scratchers														
	Pumptrk Charge prod long string														
	28		Mileage 28												
Tax															
Discount															
Total Charge															
X Signature <i>Mick Stone</i>															

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. 975

Date	6-11-12	Sec.	Twp.	Range	County	State	On Location	Finish
Lease	Hajeger	Well No.	2-27	Location		Fairport N to 290 Rd		
Contractor	APS	Owner		2W - N 1/2 W				
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.						
Csg.	5 1/2	Depth	Charge To Mikel Oil					
Tbg. Size	23	Depth	Street					
Tool		Depth	1270	City		State		
Cement Left in Csg.		Shoe Joint	The above was done to satisfaction and supervision of owner agent or contractor.					
Meas Line		Displace	Cement Amount Ordered		200 Q-MDC			
EQUIPMENT			1/2 lb Flo Seal per sk					
Pumptrk	5	No.	Cementor	Common				
			Helper	115				
Bulktrk	8	No.	Driver	Poz. Mix				
			Driver	Gel.				
Bulktrk		No.	Driver	Calcium				
			Driver	Hulls				
JOB SERVICES & REMARKS			Salt					
Remarks:								Flowseal
Rat Hole								50#
Mouse Hole								Kol-Seal
Centralizers								Mud CLR 48
Baskets								CFL-117 or CD110 CAF 38
D/V or Port Collar	1270	Port Collar @ 1270 Pressure casing						Sand
		To 1000psi Open tool						Handling
		Break circulation						200
		Mix 115 sk & Circulate Cement						Mileage
		Close tool & pressure casing to 1000psi						FLOAT EQUIPMENT
		Run Sigs & wash clean						Guide Shoe
		Used 115 sk						Centralizer
		Thank you						Baskets
		Signature						AFU Inserts
								Float Shoe
								Latch Down
								Pumptrk Charge
								port collar
								Mileage
								33
								Tax
								Discount
								Total Charge

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
Ward Loyd, Commissioner
Thomas E. Wright, Commissioner

Sam Brownback, Governor

July 20, 2012

Larry Denning
Mikol Oil LLC
1407 WASHINGTON CIR
HAYS, KS 67601

Re: ACO1
API 15-163-24040-00-00
Haberer 2-27
SE/4 Sec.27-10S-16W
Rooks 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,
Larry Denning