



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1184995
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: _____

1184995

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

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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Mikol Oil LLC
Well Name	Gosser 2-14
Doc ID	1184995

All Electric Logs Run

Micro Log
Compensated Density / Neutron Log
Dual Induction Log
Cement Bond Log

Form	ACO1 - Well Completion
Operator	Mikol Oil LLC
Well Name	Gosser 2-14
Doc ID	1184995

Tops

Name	Top	Datum
Top Anhydrite	1231	+770
Base Anhydrite	1269	+732
Topeka	2915	-914
Heebner	3139	-1138
Toronto	3160	-1159
LKC	3182	-1181
BKC	3430	-1429
Arbuckle	3501	-1500

STATE CORPORATION COMMISSION OF KANSAS CONSERVATION DIVISION

PERFORMANCE TEST
BARREL TEST

OPERATOR Mikol Oil LLC 34132 LOCATION OF WELL NW NE SE NE
 LEASE Gosser OF SEC 14 10S 17W
 WELL NO 2-14 COUNTY Rooks
 FIELD Gosser PRODUCTIVE FORMATION LKC
 Date Taken 12-18-2013 Date Effective _____
 Well Depth _____ Test Prod. Form. _____ Perfs 3425-28 3342-46 3320-24 3182-85
 Casing Size 5 1/2 WT. 15.5# Depth 3584 Acid 1500 15%
 Tubing Size 2 7/8 Depth of Perfs _____ Gravity 32
 Pump Type Insert Bore 21/2X1 1/2X 12 Purchaser NCRA
 Well Status Pumping

Pumping, flowing

TEST DATA

Permanent _____ Field _____ Special _____
 Flowing _____ Swapping _____ Pumping X

STATUS BEFORE TEST

PRODUCED 24 HOURS
 SHUT IN 0 HOURS

DURATION OF TEST _____ HOURS _____ MINUTES _____ SECONDS

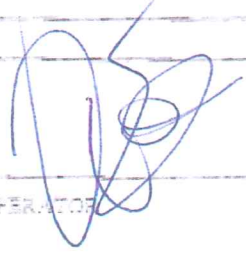
CAUSES WATER _____ INCHES _____ PERCENTAGE
 OIL _____ INCHES _____ PERCENTAGE

GROSS FLUID PRODUCTION RATE (BARRELS PER DAY) 72.25
 WATER PRODUCTION RATE (BARREL PER DAY) 37.88
 OIL PRODUCTION RATE (BARRELS PER DAY) 34.37 PRODUCTIVITY _____
 STROKES PER MINUTE 8.5
 LENGTH OF STROKE 63 INCHES
 REGULAR PRODUCING SCHEDULE 24 HOURS PER DAY

COMMENTS

WITNESSES

Richard Wilcox



FOR STATE

FOR OPERATOR

FOR OFFICE

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. 7231

Date <i>11-1-13</i>	Sec. <i>14</i>	Twp. <i>10</i>	Range <i>17</i>	County <i>Rooks</i>	State <i>KS</i>	On Location	Finish <i>4:15pm</i>
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Location *Codell 5 out of town to bottom of First big hill*

Lease <i>Gasser</i>	Well No. <i>2-14</i>	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.
Contractor <i>Discovery</i>		
Type Job <i>long string</i>		
Hole Size <i>7 7/8</i>	T.D. <i>3585</i>	Charge To <i>Mikol Oil</i>
Csg. <i>5 1/2 #15.5</i>	Depth <i>3588.19</i>	Street
Tbg. Size	Depth	City State
Tool	Depth <i>3585</i>	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg.	Shoe Joint <i>21.56</i>	Cement Amount Ordered <i>200 Com 10% salt</i>
Meas Line	Displace <i>84.8 bbl</i>	

EQUIPMENT

Pumptrk <i>5</i>	No.	Cementer Helper <i>Lonnie W.</i>	Common <i>200</i>
Bulktrk <i>14</i>	No.	Driver Driver <i>Chad</i>	Poz. Mix
Bulktrk <i>PH</i>	No.	Driver Driver <i>Travis</i>	Gel.
			Calcium

JOB SERVICES & REMARKS

Remarks:	Hulls
Rat Hole <i>30sx</i>	Salt <i>17</i>
Mouse Hole <i>15sx</i>	Flowseal
Centralizers	Kol-Seal
Baskets	Mud CLR 48 <i>500 gal</i>
BAV or Port Collar <i>1230</i>	CFL-117 or CD110 CAF 38
<i>Pipe on bottom broke circulation. Pumped 500gal Mud CLR 48 with 10 bbl fw. Plugged Rat hole with 30sx and Mouse with 15sx. Hooked to 5 1/2 Mixed 15.5 sx COM 10% salt</i>	Sand
<i>Shut down washed pumps and lines Released plug and displaced with 84.8661 fw plug landed and held</i>	Handling <i>217</i>
	Mileage

FLOAT EQUIPMENT

<i>Lift Pressure 800 psi</i>	Guide Shoe
<i>Plug landed at 1200 psi</i>	Centralizer <i>6</i>
	Baskets <i>2</i>
	AFU Inserts
	Float Shoe <i>1</i>
	Latch Down <i>1</i>
	<i>1 Port collar</i>
	Pumptrk Charge
	Mileage <i>45</i>

X
Signature *Leroy W. Pishes*

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. 7224

Date <i>10-26-13</i>	Sec. <i>14</i>	Twp. <i>10</i>	Range <i>17</i>	County <i>Rooks</i>	State <i>KS</i>	On Location	Finish <i>7:30AM</i>
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Location *Codell 5*

Lease <i>Gosser</i>	Well No. <i>2-14</i>	Owner
Contractor <i>Discovery 2</i>		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 <i>Surface</i>		
Hole Size <i>12 1/4</i>	T.D. <i>223</i>	Charge To <i>Mikol Oil</i>
Csg. <i>8 5/8</i>	Depth <i>222.40</i>	Street
Tbg. Size	Depth	City State
Tool	Depth	The above was done to satisfaction and supervision of owner agent or contractor.
Cement Left in Csg. <i>20</i>	Shoe Joint <i>20</i>	Cement Amount Ordered <i>150 sx Con 3%cc 2%gel</i>
Meas Line	Displace <i>12 3/4 bbl</i>	

EQUIPMENT

Pumptrk <i>5</i>	No.	Cementer <i>Lonnie W.</i>	Common <i>150</i>
Bulktrk <i>1</i>	No.	Helper	Poz. Mix
Bulktrk <i>PU</i>	No.	Driver <i>David</i>	Gel. <i>3</i>
		Driver <i>Travis</i>	Calcium <i>5</i>

JOB SERVICES & REMARKS

Remarks: <i>Cement did circulate</i>	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

Handling *158*

Mileage

FLOAT EQUIPMENT

Guide Shoe

Centralizer

Baskets

AFU Inserts

Float Shoe

Latch Down

Pumptrk Charge *Surface*

Mileage *45*

X Signature *[Handwritten Signature]*

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. 7479

Date	11-15-13	Sec.	14	Twp.	10	Range	17	County	Rocks	State	KS	On Location		Finish	3:45pm
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Location Cedar 15 winter

Lease	<u>GROSSER</u>	Well No.	<u>214</u>	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.	
Contractor	<u>Prime Hawk</u>				Charge To	<u>M. Kol Oil</u>
Type Job	<u>Port Collar</u>				Street	
Hole Size	<u>7 7/8</u>	T.D.		City		State
Csg.	<u>5 1/2</u>	Depth		The above was done to satisfaction and supervision of owner agent or contractor.		
Tbg. Size	<u>2 7/8</u>	Depth		Cement Amount Ordered	<u>200 QMDC 14750</u>	
Tool	<u>Dans Packer Central</u>	Depth	<u>1230</u>			
Cement Left in Csg.		Shoe Joint				

Meas Line Displace 6BCL USED 1405K

EQUIPMENT				Common	<u>140</u>
Pumptrk	<u>5</u>	No.	Cementer Helper <u>Craig</u>	Poz. Mix	
Bulktrk		No.	Driver <u>Matt</u>	Gel.	
Bulktrk	<u>9</u>	No.	Driver Driver <u>Chris</u>	Calcium	

JOB SERVICES & REMARKS		Hulls
Remarks:	<u>KCC Rick Williams</u>	Salt
Rat Hole		Flowseal
Mouse Hole		Kol-Seal <u>50#</u>
Centralizers	<u>Cement Circulator</u>	Mud CLR 48
Baskets		CFL-117 or CD110 CAF 38
D/V or Port Collar		Sand
	<u>Test to seat for tool & M.V 1405K + Cement Circulator</u>	Handling <u>200</u>
	<u>Close Tool Test to seat. Run 5 joints wash clean.</u>	Mileage

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge port collar
Mileage 45

Signature <u>George W. Peshes</u>	Tax
	Discount
	Total Charge

COMPANY: Mikal Oil LLC
 WELL: Gosser # 2-14
 FIELD: Wildcat

LOCATION: 1451' N14E & 649' E12E
 SEC. 14 TWP. 15S R0E. 17W
 COUNTY: Rooks
 STATE: Kansas

ELEVATION: 2001
 DB: 1943
 PRODUCTION: LKc

OPERATOR: Mikal Oil LLC
 CONTRACTOR: Discoverly Drilling, King #2
 COMPANY: 11-13
 CASING RECORD: Wellbore Geologist: Marc Downing; Wellbore Survey: Nabors
 SURF: 45' @ 223' PROD: 5 1/2" @ 3580

TOTAL DEPTH DRILLERS: 3585'
 TOTAL DEPTH LOG: 3581'

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SURF SEA POSITION	STRUCTURAL POSITION
Top Anhydrite	1231	1269	+776	+4
Base Anhydrite	2914	2915	+732	NA
Tapoka	3134	3134	-914	NA
HEEBNER	3158	3158	-1134	+15
Taranto	3182	3182	-1429	NA
LKC	3182	3182	-1429	+14
BKC	3428	3428	-1929	NA
Arbuckle	3500	3501	-1500	+14

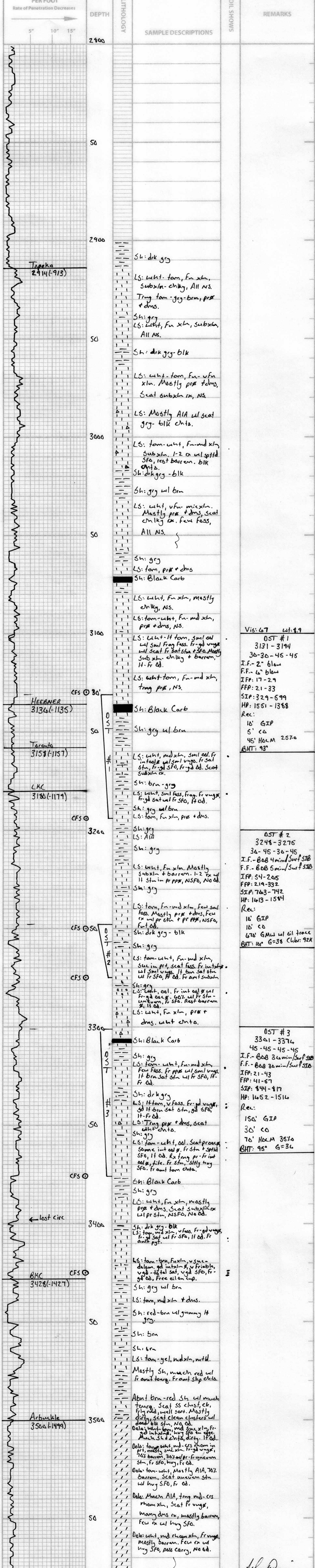
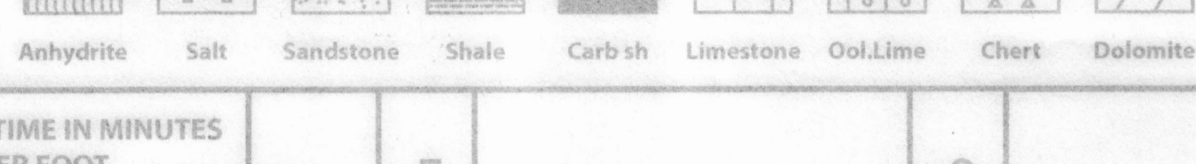
REFERENCE WELL FOR STRUCTURE: Hayward Drilling Co.
 SE-SE-N14E Sec. 14-15-17W
 Tanker #1

NO.	DRILL STEM TESTS				RECOVERY
	INTERVAL	DEPTH	ESP/Time	HP/HP	

REMARKS AND RECOMMENDATIONS: Due to structural position, DST recovery, & log evaluation, it was decided to set 5 1/2" production casing.

Perforate:
 Arbuckle: 3501-610 (first set plug if wet)
 LKC: 3182-28
 I: 3342-46
 H: 3320-24
 A: 3182-85
 F: 3170-73 (before abandonment)

LEGEND



Marc Downing



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mkol Oil Co LLC.

14-10s-17w Rooks

1407 Washington cir.
Hays Ks. 67601

Gosser 2-14

Job Ticket: 54328

DST#: 1

ATTN: Marc Downing

Test Start: 2013.10.29 @ 18:10:01

GENERAL INFORMATION:

Formation: **Tor. LKC"A"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:59:00

Time Test Ended: 00:11:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Andy Carreira

Unit No: 68

Interval: 3131.00 ft (KB) To 3194.00 ft (KB) (TVD)

Reference Elevations: 2001.00 ft (KB)

Total Depth: 3194.00 ft (KB) (TVD)

1993.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8372 Inside

Press @ Run Depth: 33.10 psig @ 3138.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.29

End Date:

2013.10.30

Last Calib.: 2013.10.30

Start Time: 18:10:01

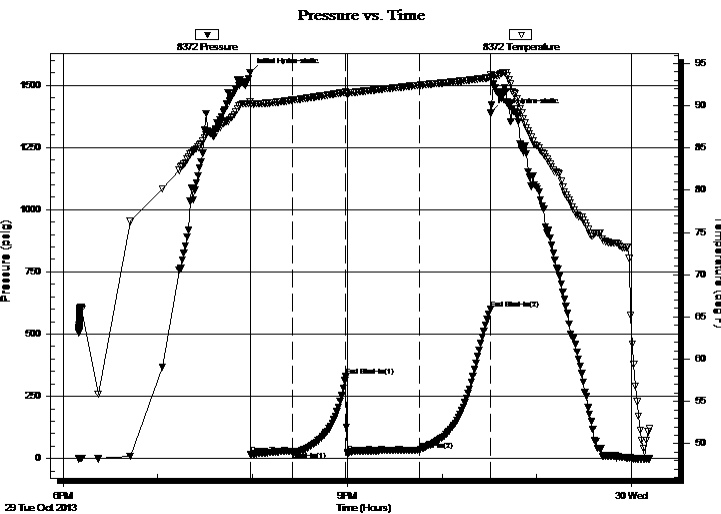
End Time:

00:11:30

Time On Btm: 2013.10.29 @ 19:58:30

Time Off Btm: 2013.10.29 @ 22:31:00

TEST COMMENT: IF:(30min) 1" blow in 7 min. Built to 2"
ISl:(30min) No Return
FF:(45min) 3" blow in 9min. 5" in 28 min. Built to 6"
FSl:(45min) No Return



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1551.31	90.50	Initial Hydro-static
1	17.52	90.19	Open To Flow (1)
27	29.19	90.66	Shut-In(1)
61	329.36	91.61	End Shut-In(1)
62	21.35	91.53	Open To Flow (2)
108	33.10	92.43	Shut-In(2)
152	599.36	93.35	End Shut-In(2)
153	1388.29	93.72	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
45.00	HOCM o=25% m=75%	0.36
5.00	CO	0.07
0.00	GIP=10 ft	0.00

Gas Rates

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



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Mkol Oil Co LLC.

14-10s-17w Rooks

1407 Washington cir.
Hays Ks. 67601

Gosser 2-14

Job Ticket: 54328

DST#: 1

ATTN: Marc Downing

Test Start: 2013.10.29 @ 18:10:01

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: 67.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 6.40 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 1500.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
45.00	HOCM o=25% m=75%	0.358
5.00	CO	0.070
0.00	GIP=10 ft	0.000

Total Length: 50.00 ft Total Volume: 0.428 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

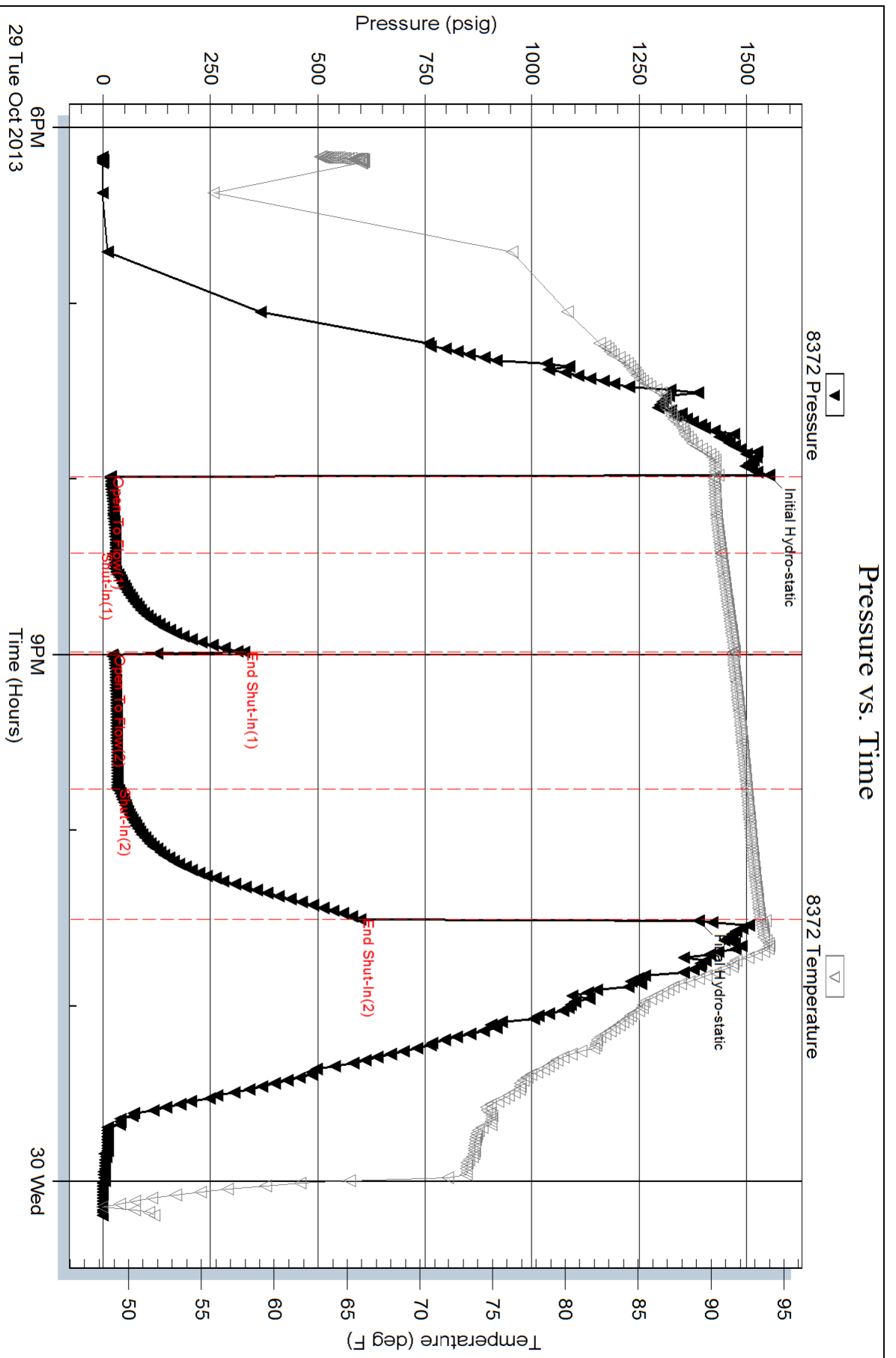
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Pressure vs. Time





**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Mkol Oil Co LLC.

14-10s-17w Rooks

1407 Washington cir.
Hays Ks. 67601

Gosser 2-14

Job Ticket: 54329

DST#: 2

ATTN: Marc Downing

Test Start: 2013.10.30 @ 10:23:01

GENERAL INFORMATION:

Formation: **LKC"E+F"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:42:30

Time Test Ended: 16:28:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 68

Interval: 3248.00 ft (KB) To 3275.00 ft (KB) (TVD)

Reference Elevations: 2001.00 ft (KB)

Total Depth: 3275.00 ft (KB) (TVD)

1993.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8372

Inside

Press @ Run Depth: 332.68 psig @ 3249.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.30

End Date: 2013.10.30

Last Calib.: 2013.10.30

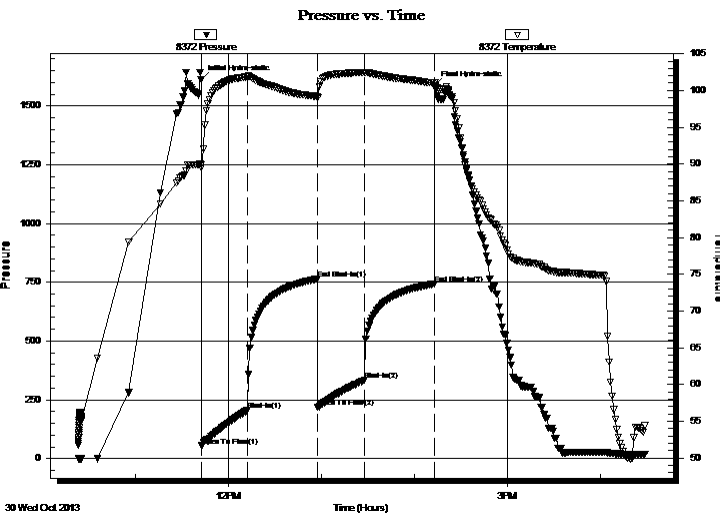
Start Time: 10:23:01

End Time: 16:28:30

Time On Btm: 2013.10.30 @ 11:42:00

Time Off Btm: 2013.10.30 @ 14:13:00

TEST COMMENT: IF:(30min) BOB in 4 min.
 ISl:(45min) Return surface blow 12 min. after bleed off. Died in 30 min.
 FF:(30min) BOB in 5 min.
 FSl:(45min) Retirn surface blow 3 min. after bleed off. Reduced to intermittent in 17 min.



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1613.15	89.93	Initial Hydro-static
1	54.29	89.49	Open To Flow (1)
30	205.91	101.88	Shut-In(1)
75	763.66	99.18	End Shut-In(1)
76	219.48	99.01	Open To Flow (2)
106	332.68	102.43	Shut-In(2)
151	742.75	101.00	End Shut-In(2)
151	1584.79	100.99	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
670.00	GMW w / trace of oil	9.13
10.00	Oil	0.14
0.00	GIP = 10 ft	0.00

* 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 Co LLC.

14-10s-17w Rooks

1407 Washington cir.
Hays Ks. 67601

Gosser 2-14

Job Ticket: 54329

DST#: 2

ATTN: Marc Downing

Test Start: 2013.10.30 @ 10:23:01

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:

92000 ppm

Viscosity: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
670.00	GMW w / trace of oil	9.125
10.00	Oil	0.140
0.00	GIP = 10 ft	0.000

Total Length: 680.00 ft Total Volume: 9.265 bbl

Num Fluid Samples: 0

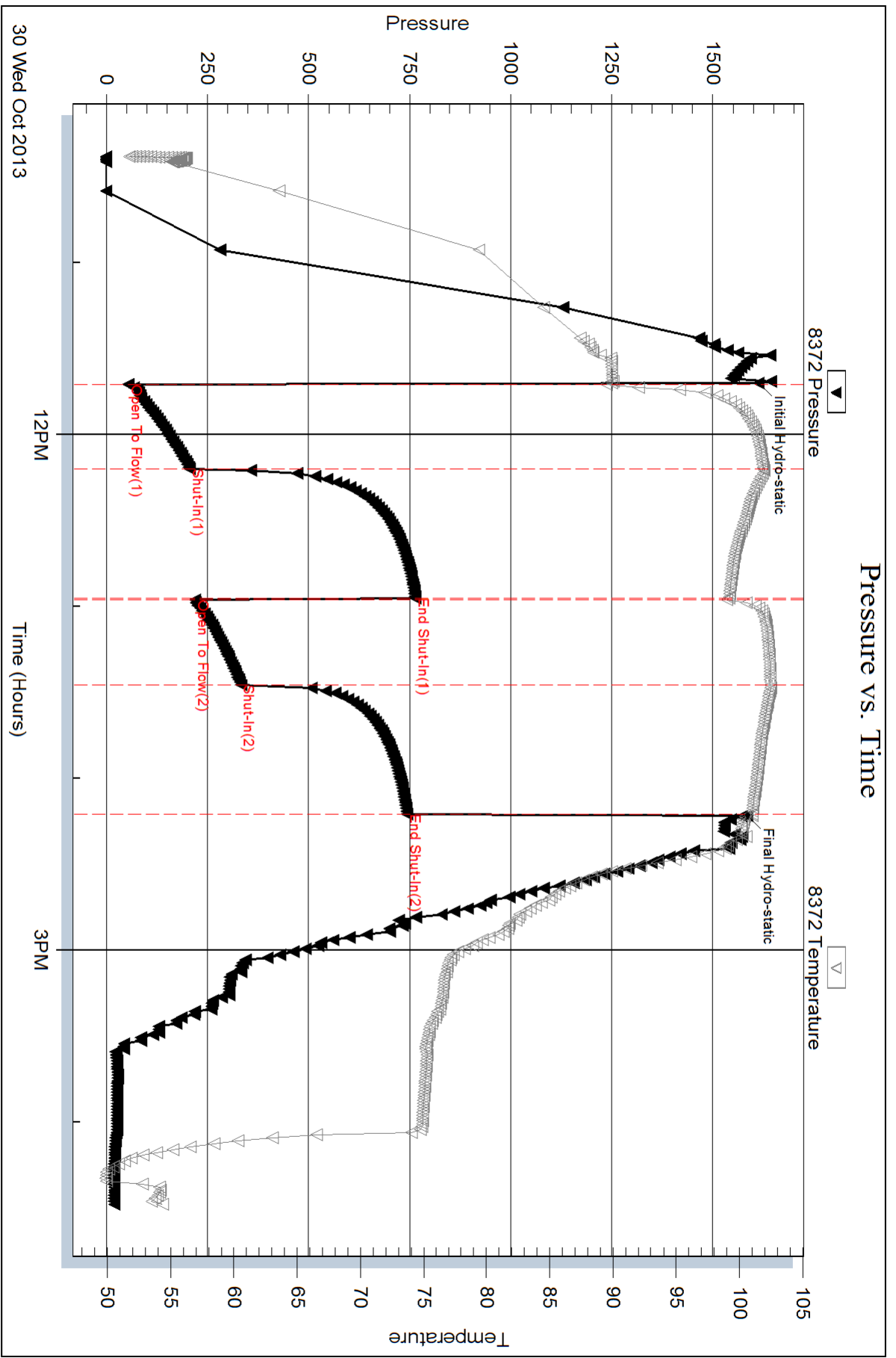
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Resistivity- .128 @ 49 deg = 92000

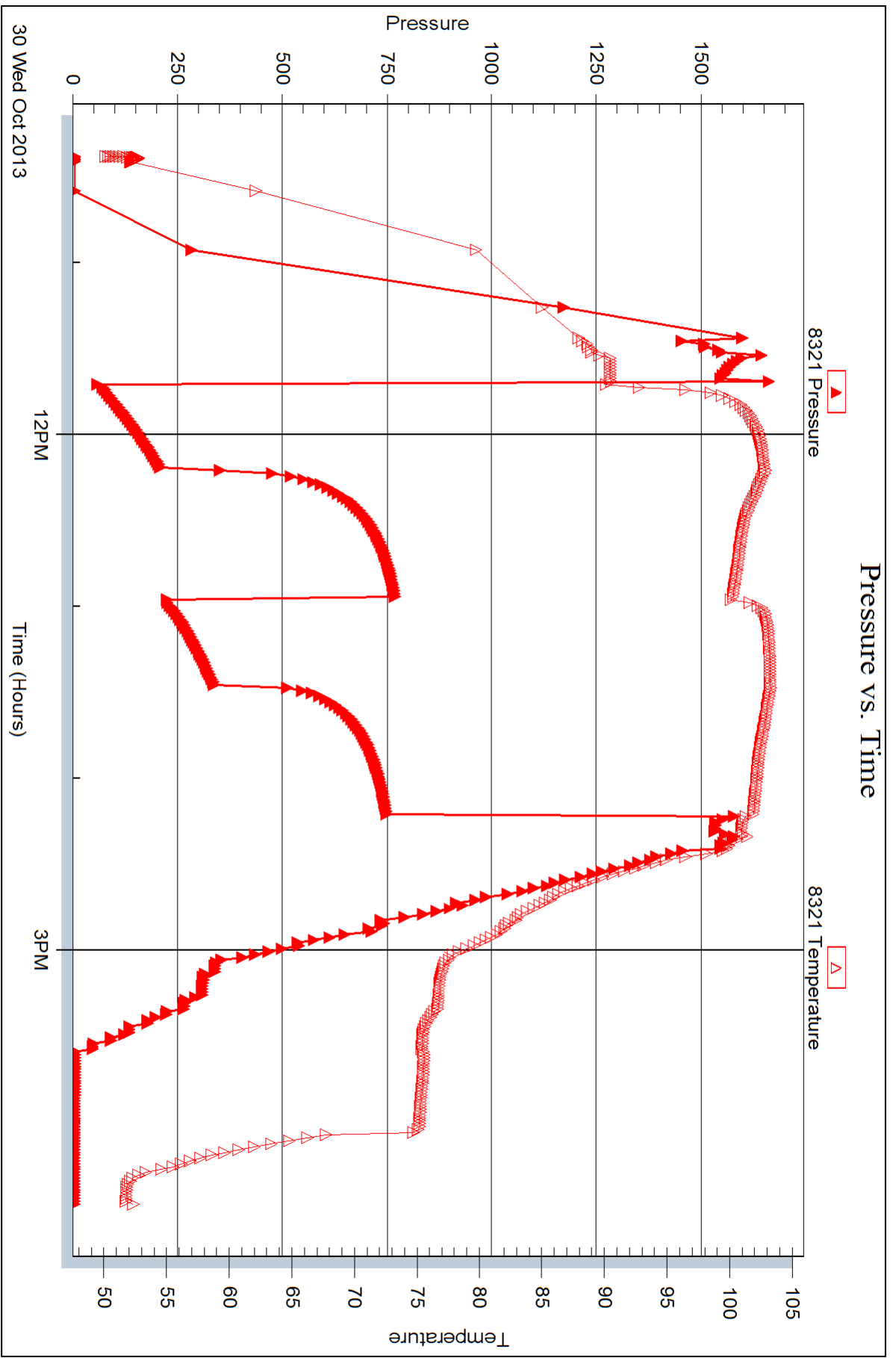


Serial #: 8321

Outside Mkol Oil Co LLC

Gosser 2-14

DST Test Number: 2



Trilobite Testing, Inc

Ref. No: 54329

Printed: 2013.10.30 @ 19:17:47



TRILOBITE TESTING, INC.

DRILL STEM TEST REPORT

Mkol Oil Co LLC.

14-10s-17w Rooks

1407 Washington cir.
Hays Ks. 67601

Gosser 2-14

Job Ticket: 54330

DST#: 3

ATTN: Marc Downing

Test Start: 2013.10.31 @ 02:20:01

GENERAL INFORMATION:

Formation: **LKC"H-J"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:02:00

Time Test Ended: 09:13:30

Test Type: Conventional Bottom Hole (Reset)

Tester: Andy Carreira

Unit No: 68

Interval: 3301.00 ft (KB) To 3376.00 ft (KB) (TVD)

Reference Elevations: 2001.00 ft (KB)

Total Depth: 3376.00 ft (KB) (TVD)

1993.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 8.00 ft

Serial #: 8372 Inside

Press @ RunDepth: 57.52 psig @ 3304.00 ft (KB)

Capacity: 8000.00 psig

Start Date: 2013.10.31

End Date: 2013.10.31

Last Calib.: 2013.10.31

Start Time: 02:20:01

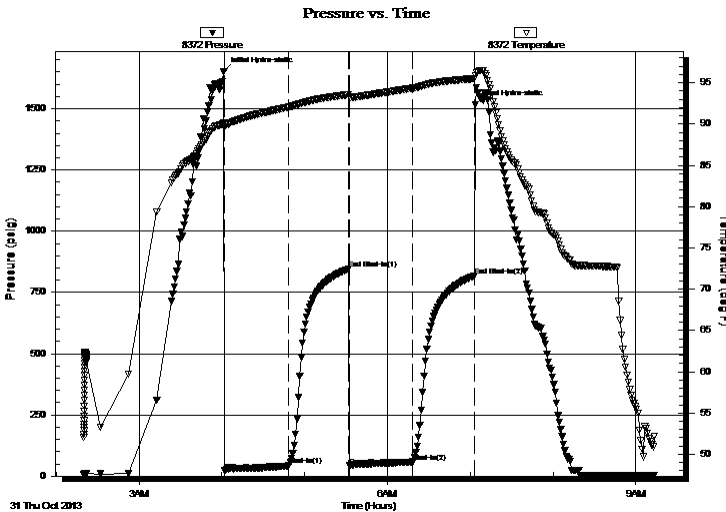
End Time: 09:13:30

Time On Btm: 2013.10.31 @ 04:01:30

Time Off Btm: 2013.10.31 @ 07:03:30

TEST COMMENT: IF:(45min) 2" blow in 7 min. 6" in 17 min. BOB in 36 min.
IS:(45min) Return surface blow 36 min after bleed off.
FF:(45min) 2" blow in 1 min. 6" in 10 min. BOB in 30 min.
FS:(45min) Return intermittent surface blow 1 min after bleed off.

PRESSURE SUMMARY



Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	1652.65	90.13	Initial Hydro-static
1	21.48	89.64	Open To Flow (1)
47	43.09	92.06	Shut-In(1)
90	844.69	93.56	End Shut-In(1)
91	41.99	93.30	Open To Flow (2)
137	57.52	94.33	Shut-In(2)
182	817.51	95.50	End Shut-In(2)
182	1516.43	95.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	HOCM o=35% m=65%	0.71
30.00	CO o=100%	0.42
0.00	GIP= 150 ft	0.00

* 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 Co LLC.

14-10s-17w Rooks

1407 Washington cir.
Hays Ks. 67601

Gosser 2-14

Job Ticket: 54330

DST#: 3

ATTN: Marc Downing

Test Start: 2013.10.31 @ 02:20:01

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: 70.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 7.20 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 2000.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
70.00	HOCM o=35% m=65%	0.709
30.00	CO o=100%	0.421
0.00	GIP = 150 ft	0.000

Total Length: 100.00 ft

Total Volume: 1.130 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

Serial #: 8372

Inside

Mkol Oil Co LLC

Gosser 2-14

DST Test Number: 3

Pressure vs. Time

