

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5259
Name: Mal Oil Operations, Inc.
Address 1: P.O. Box 33
Address 2: _____
City: Russell State: Ks. Zip: 67665 + _____
Contact Person: Allen Bangert
Phone: (785) 483-2169
CONTRACTOR: License # 33350
Name: Southwind Drilling, Inc.
Wellsite Geologist: Kitt Noah
Purchaser: NCRA
Designate Type of Completion:
 New Well _____ Re-Entry _____ Workover _____
 Oil _____ SWD _____ SLOW _____
_____ Gas _____ ENHR _____ SIGW _____
_____ CM (Coal Bed Methane) _____ Temp. Abd. _____
_____ Dry _____ Other _____
(Core, WSW, Expl., Cathodic, etc.)

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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: _____ Plug Back Total Depth _____
_____ Commingled _____ Docket No.: _____
_____ Dual Completion _____ Docket No.: _____
_____ Other (SWD or Enhr.?) _____ Docket No.: _____
07/17/2009 07/24/2009 07/24/2009
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 009-25325-0000
Spot Description: 140' South & 160' East
_____ SE _____ NE Sec. 15 Twp. 17 S. R. 15 East West
2120 Feet from North / South Line of Section
500 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Barton
Lease Name: Helfrich Well #: 1
Field Name: Wildcat
Producing Formation: Lansing
Elevation: Ground: 1954' Kelly Bushing: 1962'
Total Depth: 3560' Plug Back Total Depth: 3527'
Amount of Surface Pipe Set and Cemented at: 429' 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 Ait I ncr 9-29-09
(Data must be collected from the Reserve Pit)
Chloride content: 73000 ppm Fluid volume: 300 bbls
Dewatering method used: Let dry
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

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.

Signature: Allen Bangert
Title: Prod. Supt. Date: 09/14/2009
Subscribed and sworn to before me this 14 day of September,
20 09.
Notary Public: Lori Crathorne
Date Commission Expires: 7-7-2010

KCC Office Use ONLY
 Letter of Confidentiality Received
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
_____ UIC Distribution

NOTARY PUBLIC - State of Kansas
LORI CRATHORNE
My Appt. Expires 7-7-2010

Operator Name: Mai Oil Operations, Inc. Lease Name: Heifrich Well #: 1
 Sec. 15 Twp. 17 S. R. 15 East West County: Barton

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 copy of all Electric Wireline 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 <i>(Submit Copy)</i> List All E. Logs Run: CNFD, DIL, Micro ✓	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">Name</td> <td style="width:15%;">Top</td> <td style="width:15%;">Datum</td> </tr> <tr> <td>Anhydrite</td> <td>988'</td> <td>+974</td> </tr> <tr> <td>Topeka</td> <td>2946'</td> <td>-984</td> </tr> <tr> <td>Heebner</td> <td>3178'</td> <td>-1216</td> </tr> <tr> <td>Toronto</td> <td>3190'</td> <td>-1228</td> </tr> <tr> <td>Lansing</td> <td>3238'</td> <td>-1276'</td> </tr> <tr> <td>Base Kansas City</td> <td>3466'</td> <td>-1504</td> </tr> <tr> <td>Arbuckle</td> <td>3488'</td> <td>-1526'</td> </tr> </table>	Name	Top	Datum	Anhydrite	988'	+974	Topeka	2946'	-984	Heebner	3178'	-1216	Toronto	3190'	-1228	Lansing	3238'	-1276'	Base Kansas City	3466'	-1504	Arbuckle	3488'	-1526'
Name	Top	Datum																							
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Arbuckle	3488'	-1526'																							

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 1/4"	8 5/8"	20#	429'	60-40 Poz	225	2%Gel, 3%CC
Production	7 7/8"	5 1/2"	14#	3555'	60-40Poz		

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				

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
3	3415-19', 3402-06', 3321-24', 3311-14', 3257-61'	6750 gal 20% HCL	
	3194-98'		
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TUBING RECORD:	Size: 2 7/8"	Set At: 3522'	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or Enhr. 08/18/2009		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)		
Estimated Production Per 24 Hours	Oil Bbls. 100	Gas Mcf	Water Bbls. 0	Gas-Oil Ratio Gravity

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input checked="" 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 <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: 3194-3419' OA
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REMIT TO P.O. BOX 31
RUSSELL, KANSAS 67665

SERVICE POINT: Russell

Helfrich #1

DATE <u>7-24-09</u>	SEC <u>15</u>	TWP <u>13</u>	RANGE <u>15</u>	CALLED OUT	ON LOCATION	JOB START <u>7:15 PM</u>	JOB FINISH <u>5:15 PM</u>
LEASE <u>WAL</u>	WELL# <u>1</u>	LOCATION <u>28384 SW 6W 6S</u>				COUNTY <u>WORTH</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)							

CONTRACTOR Geothusind Orley
 TYPE OF JOB L.S.
 HOLE SIZE 7 7/8 T.D. 3560
 CASING SIZE 5 1/2 DEPTH 3555
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 20.00
 PERFS.
 DISPLACEMENT 864
 EQUIPMENT
 PUMP TRUCK CEMENTER B. D.
 # 409 HELPER S. A. W.
 BULK TRUCK
 # 473 DRIVER Chew
 BULK TRUCK
 # DRIVER

OWNER

CEMENT	AMOUNT ORDERED		
	<u>1750 lb</u>	<u>60/40</u>	<u>10% 12.25</u>
	<u>290 lb</u>	<u>4" F10</u>	<u>1000 WFR 2</u>
COMMON	<u>105'</u>	@	<u>13.50</u> <u>1417.50</u>
POZMIX	<u>20</u>	@	<u>2.50</u> <u>500.00</u>
GEL	<u>2</u>	@	<u>20.25</u> <u>60.75</u>
CHLORIDE		@	
ASC		@	
	<u>Self</u>	@	<u>71.21</u> <u>148.75</u>
	<u>F. Sol</u>	@	<u>2.45</u> <u>105.25</u>
		@	
	<u>1000 Gal WFR 2</u>	@	<u>1.10</u> <u>1100.00</u>
		@	
		@	
		@	
		@	
HANDLING	<u>175</u>	@	<u>2.25</u> <u>393.75</u>
MILEAGE	<u>101.5</u>	@	<u>4.50</u> <u>457.50</u>
			TOTAL <u>3092.10</u>

REMARKS:

Pipe out @ 3555.43
Subsided 20.00
total = 3535.43
pump run 9:15 AM - 1:45 PM
semi pump plug with 800 gal oil
water sand plug = 1500 @ standard hold
3000 R.H. mfg 14.8-10

CHARGE TO: Maid Oil
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB		
PUMP TRUCK CHARGE		<u>1957.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>25</u>	@ <u>7.00</u> <u>175.00</u>
MANIFOLD	@	
	@	
	@	
	@	
		TOTAL <u>2132.00</u>

PLUG & FLOAT EQUIPMENT

<u>9" Turbo Cent Mixer</u>	@	<u>41.00</u>	<u>369.00</u>
<u>1" Guide Stone</u>	@		<u>100.00</u>
<u>1" Catcher</u>	@		<u>164.00</u>
	@		
	@		
			TOTAL <u>633.00</u>

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME _____
 SIGNATURE [Signature]

SALES TAX (if Any) _____
 TOTAL CHARGES 2132.00
 DISCOUNT [Stamp] IF PAID IN 30 DAYS

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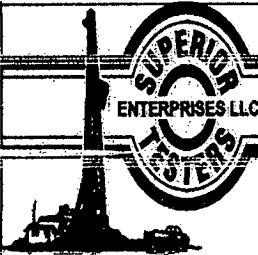
QUALITY OILWELL CEMENTING, INC.

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

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

No. 8405

Date	7-18-09	Sec.	Twp.	Range	County	State	On Location	Finish
					Barton	Ks		3:45 AM
Lease	Helfrich	Well No.	1		Location	Galatia E 45 1/4 S		
Contractor	Southwind Drilling Rig 3				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.	429		Charge To			
Csg.	8 3/8	Depth	428		Mlai Oil			
Tbg. Size		Depth			Street			
Drill Pipe		Depth			City		State	
Tool		Depth			The above was done to satisfaction and supervision of owner agent or contractor.			
Cement Left in Csg.	10-15	Shoe Joint			CEMENT			
Press Max.		Minimum			Amount Ordered 225 60% 3% CC 2% gel			
Meas Line	20#	Displace	27 RBL		Common			
Perf.				Poz. Mix				
EQUIPMENT					Gel.			
Pumptrk	9	No.	Cementer	Dave		Calcium		
			Helper					
Bulktrk	8	No.	Driver	Doug		Mills		
			Driver					
Bulktrk	PU	No.	Driver	Darin		Salt		
			Driver					
JOB SERVICES & REMARKS					Flowseal			
Pumptrk Charge	Surface							
Mileage								
Footage								
			Total		Handling			
Remarks:					Mileage			
					Pump Truck Charge			
					FLOAT EQUIPMENT			
					Guide Shoe			
					Centralizer			
					Baskets			
					AFU Inserts			
					8 9/8 Woodson			
					Rotating Head			
					Squeeze Mainfold			
Signature						RECEIVED Tax SEP 15 2009 Discount		
						Total Charge RCC WICHITA		



DRILL STEM TEST REPORT

Mai Oil Operations
 8411 Preston Road Suite 800
 Dallas, Texas 75225
 ATTN: Kitt Noah

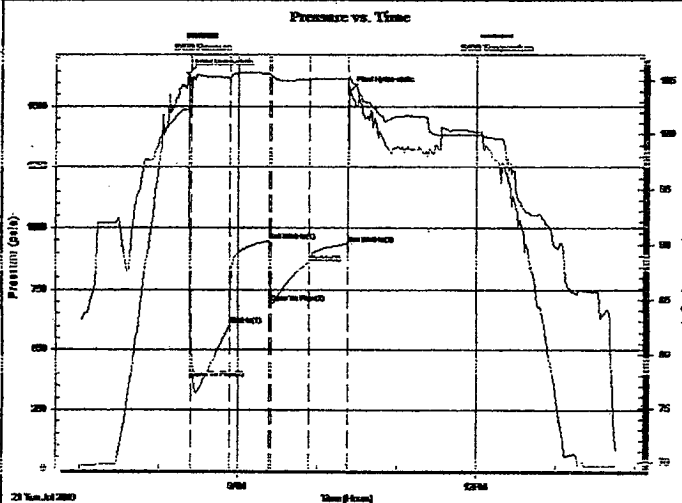
Helfrich # 1
15-17s-15w
 Job Ticket: 16761 DST#: 1
 Test Start: 2007.07.21 @ 07:00:12

GENERAL INFORMATION:

Formation: **Lansing Kansas City**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 08:23:42
 Time Test Ended: 13:46:42
 Interval: **3248.00 ft (KB) To 3262.00 ft (KB) (TVD)**
 Total Depth: **3262.00 ft (KB) (TVD)**
 Hole Diameter: **7.80 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Real-Time)**
 Tester: **Gene Budig**
 Unit No: **3335**
 Reference Elevations: **1962.00 ft (KB)**
1954.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 8400 **Inside**
 Press@RunDepth: **857.67 psia @ 3258.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2009.07.21** End Date: **2009.10.21** Last Calib.: **2009.07.22**
 Start Time: **07:00:12** End Time: **13:46:42** Time On Btrr: **2009.07.21 @ 08:21:42**
 Time Off Btrr: **2009.07.21 @ 10:24:12**

TEST COMMENT: 30 minutes 1st open strong blow gas to surface in 6 minutes gas fluxuated from 31.9 mcf to 46.9 mcf
 30 minutes 1st shut-in-strong blow back
 30 minutes 2nd open-strong blow gas fluxuated from 37.6 to 46.9
 30 minutes 2nd shut-in strong blow back



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1637.50	102.26	Initial Hydro-static
2	379.51	101.77	Open To Flow (1)
32	603.31	105.25	Shut-in(1)
62	947.48	105.62	End Shut-in(1)
63	696.77	105.47	Open To Flow (2)
92	857.67	105.08	Shut-in(2)
121	935.14	105.14	End Shut-in(2)
123	1564.98	105.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2800.00	Clean Gassy Oil 35% Gas 65% Oil	39.28

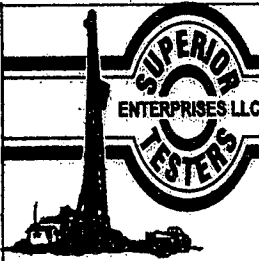
Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50		

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Mai Oil Operations
 8411 Preston Road Suite 800
 Dallas, Texas 75225
 ATTN: Kitt Noah

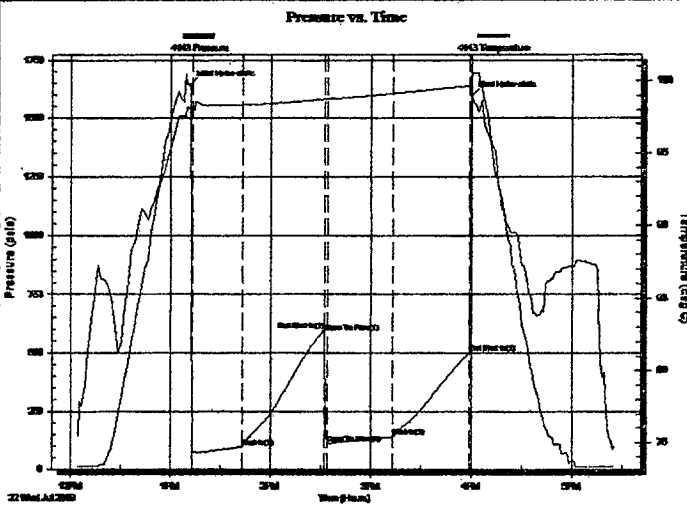
Helfrich # 1
 15-17s-15w
 Job Ticket: 16762 DST#: 2
 Test Start: 2009.07.22 @ 12:04:43

GENERAL INFORMATION:

Formation: **Lansing Kansas City**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: **13:12:43**
 Time Test Ended: **17:27:43**
 Interval: **3298.00 ft (KB) To 3330.00 ft (KB) (TVD)**
 Total Depth: **3330.00 ft (KB) (TVD)**
 Hole Diameter: **7.80 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Real-Time)**
 Tester: **Gene Budig**
 Unit No: **3335-42**
 Reference Elevations: **1962.00 ft (KB)**
1954.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 4143 Outside
 Press@RunDepth: **502.78 psia @ 3327.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2009.07.22** End Date: **2009.07.22** Last Calib.: **2009.07.22**
 Start Time: **12:04:43** End Time: **17:24:59** Time On Btm: **2009.07.22 @ 13:11:29**
 Time Off Btm: **2009.07.22 @ 15:59:59**

TEST COMMENT: 30 Minutes 1st Flow built to the bottom of a 5 gallon bucket in 1 minute
 45 Minutes 1st Shut-in blow built to the bottom of a 5 gallon bucket in 32 minutes
 45 Minutes 2nd Flow built to the bottom of a 5 gallon bucket in 1 1/2 minutes
 45 Minutes 2nd Shut-in blow built to the bottom of a 5 gallon bucket in 28 minutes



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg C)	Annotation
0	1643.02	98.12	Initial Hydro-static
2	74.33	98.09	Open To Flow (1)
32	95.00	98.34	Shut-In(1)
81	599.47	98.76	End Shut-In(1)
83	110.70	98.78	Open To Flow (2)
122	139.81	99.14	Shut-In(2)
168	502.78	99.68	End Shut-In(2)
169	1596.67	100.45	Final Hydro-static

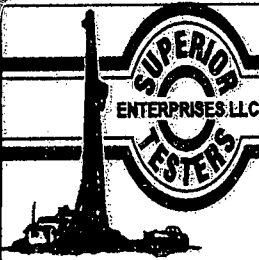
Recovery

Length (ft)	Description	Volume (bbl)
2150.00	Gas in the pipe	30.16
90.00	muddy gassy oil 10g70o20m	1.26
120.00	muddy gassy oil 20g60o20m	1.68
60.00	Frothy muddy gassy oil no grind out	0.84

Gas Rates

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

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Mai Oil Operations
 8411 Preston Road Suite 800
 Dallas, Texas 75225
 ATTN: Kitt Noah

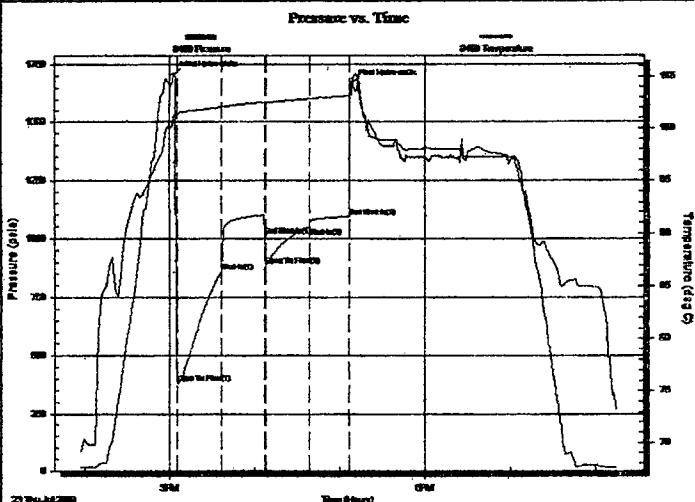
Helfrich # 1
15-17s-15w
 Job Ticket: 16763 DST#: 3
 Test Start: 2009.07.23 @ 00:00:00

GENERAL INFORMATION:

Formation: **Lansing Kansas City**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened:
 Time Test Ended:
 Test Type: **Conventional Bottom Hole (Real-Time)**
 Tester: **Gene Budig**
 Unit No: **3335**
 Interval: **3369.00 ft (KB) To 3428.00 ft (KB) (TVD)**
 Total Depth: **3428.00 ft (KB) (TVD)**
 Hole Diameter: **7.80 inches** Hole Condition: **Poor**
 Reference Elevations: **1962.00 ft (KB)**
1954.00 ft (CF)
 KB to GR/CF: **8.00 ft**

Serial #: 8400 Inside
 Press@RunDepth: **1093.36 psia @ 3419.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2009.07.23** End Date: **2009.07.23** Last Calib.: **2009.07.23**
 Start Time: **13:56:39** End Time: **20:15:09** Time On Btm: **2009.07.23 @ 15:03:09**
 Time Off Btm: **2009.07.23 @ 17:08:39**

TEST COMMENT: 30 Minutes 1st Opening Strong blow built to the bottom of a 5 gallon bucket in less than 1 minute with gas to surface
 6 minutes
 30 Minutes 1st Shut-In good blow back
 30 Minutes 2nd Opening Strong blow



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg C)	Annotation
0	1705.86	101.18	Initial Hydro-static
3	381.93	101.38	Open To Flow (1)
34	861.61	102.08	Shut-In(1)
65	1011.42	102.52	End Shut-In(1)
65	886.65	102.53	Open To Flow (2)
96	1047.92	102.89	Shut-In(2)
124	1093.36	103.18	End Shut-In(2)
126	1668.16	104.27	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
70.00	oil cut gassy mud 35%g 10%O 55m	0.98
120.00	Slightly mud cut gassy oil	1.68
240.00	very slightly mud cut gassy oil	3.37
2480.00	clean gassy oil 30% gas 70% oil	34.79

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	0.50	6.50	43.85
Last Gas Rate	0.50	1.50	10.12
Max. Gas Rate	0.50	6.50	43.85

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