

**CONFIDENTIAL**

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

5/6/12

OPERATOR: License # 5056  
Name: F.G. Holl Company, L.L.C.  
Address 1: 9431 E. Central, Suite 100  
Address 2: \_\_\_\_\_  
City: Wichita State: KS Zip: 67206 + \_\_\_\_\_  
Contact Person: Franklin R. Greenbaum  
Phone: (316) 684-8481, Ext. 206  
CONTRACTOR: License # 5929  
Name: Duke Drilling Company Inc.  
Wellsite Geologist: Rene Hustead  
Purchaser: NCRA

Designate Type of Completion:  
 New Well \_\_\_\_\_ Re-Entry \_\_\_\_\_ Workover \_\_\_\_\_  
 Oil \_\_\_\_\_ SWD \_\_\_\_\_ SIOW \_\_\_\_\_  
\_\_\_\_\_ Gas \_\_\_\_\_ ENHR \_\_\_\_\_ SIGW \_\_\_\_\_  
\_\_\_\_\_ CM (Coal Bed Methane) \_\_\_\_\_ Temp. Abd. \_\_\_\_\_  
\_\_\_\_\_ Dry \_\_\_\_\_ Other \_\_\_\_\_  
(Core, WSW, Expl., Cathodic, 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: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
\_\_\_\_\_ Commingled \_\_\_\_\_ Docket No.: \_\_\_\_\_  
\_\_\_\_\_ Dual Completion \_\_\_\_\_ Docket No.: \_\_\_\_\_  
\_\_\_\_\_ Other (SWD or Enhr.?) \_\_\_\_\_ Docket No.: \_\_\_\_\_  
03/17/2010      03/28/2010      04/20/2010  
Spud Date or      Date Reached TD      Completion Date or  
Recompletion Date           Recompletion Date

API No. 15 - 097-21669-0000  
Spot Description: 150' South of  
C NE SW SW Sec. 3 Twp. 29 S. R. 18  East  West  
840 Feet from  North /  South Line of Section  
990 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Kiowa  
Lease Name: MCKINLEY Well #: 1-3  
Field Name: Ursula  
Producing Formation: Marmaton  
Elevation: Ground: 2275' Kelly Bushing: 2288'  
Total Depth: 5500' Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 690' 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 AKIMS 513-10  
(Data must be collected from the Reserve Pit)  
Chloride content: 29,000 ppm Fluid volume: 1,200 bbls  
Dewatering method used: Hauled free fluids to SWD  
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: Franklin R. Greenbaum  
Title: Exploration Manager Date: 5/6/2010  
Subscribed and sworn to before me this 6th day of May 2010  
20 State of Kansas; Sedgwick County  
Notary Public: Betty H. Spotswood  
Date Commission Expires: 04/30/2014

**KCC Office Use ONLY**

Letter of Confidentiality Received  
 If Denied, Yes  Date: \_\_\_\_\_  
 Wireline Log Received  
\_\_\_\_\_ Geologist Report Received  
\_\_\_\_\_ UIC Distribution

**RECEIVED**  
KANSAS CORPORATION COMMISSION  
MAY 11 2010  
CONSERVATION DIVISION  
WICHITA KS

Notary Public - State of Kansas  
**BETTY H. SPOTSWOOD**  
My Appointment Expires 4/30/2014

Operator Name: F.G. Holl Company, L.L.C. Lease Name: MCKINLEY Well #: 1-3  
 Sec. 3 Twp. 29 S. R. 18  East  West County: Kiowa

**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 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 <i>(Submit Copy)</i>  List All E. Logs Run: CDL/CNL/ML DIL/BHCS/Microresistivity Sector bond/GR/CCL	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum See attachment
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CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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"	24#	690'	A-Con & Common	175sx & 125sx	
Production	7-7/8"	4-1/2"	10.5#	5480'	AA-2	190sx	

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
		Spotted 500 gal 10% MSA acid	
	4803', 04', 05', 06' Marmaton	Treat w/ 550 gal 15% dsfe acid	
	4811', 12', 14' Marmaton	Frac w/ 18,000#s total proppant	
	Reperf Marmaton 4803' -07', 4811'-14'		

TUBING RECORD: Size: <u>2-3/8"</u> Set At: _____ Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr. <u>04/20/2010</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i>	
Estimated Production Per 24 Hours	Oil Bbls. <u>50</u>	Gas Mcf	Water Bbls. 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 <i>(Specify)</i> _____	PRODUCTION INTERVAL: <u>4803' - 4811' OA Marmaton</u>
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MCKINLEY #1-3  
 KIOWA COUNTY, KANSAS

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Formation	Sample	Datum	E-Log	Datum
Anhydrite	812		1206	+1082
Herrington			2554	-266
Winfield			2618	-330
Towanda			2684	-397
Fort Riley			2740	-452
B/Florence			2840	-552
Kinney Ls			2873	-585
Wrefold			2908	-620
Council Grove			2941	-653
Crouse			2968	-680
Neva			3091	-803
Red Eagle			3143	-855
Onaga Shale				
Wabaunsee				
Root Shale				
Stotler			3523	-1235
Tarkio			3569	-1281
Howard			3725	-1437
Severy Shale			3825	-1537
Topeka			3837	-1549
Heebner	4166	-1878	4156	-1868
Toronto			4167	-1879
Douglas Sh.	4189	-1901	4179	-1891
Brown lime	4336	-2048	4326	-2038
LKC	4350	-2062	4343	-2055
BKC	4760	-2472	4744	-2456
Marmaton			4755	-2467
Marmaton Shale	4790	-2502		
Altamont	4812	-2524	4791	-2503
Conglomerate				
Mississippi			4954	-2666
Arbuckle				
RTD				

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Customer <b>7.9. Holl</b>	Lease No.	Date
Lease <b>McKinley</b>	Well # <b>1-3</b>	<b>03-17-10</b>
Field Order # <b>1516</b>	Station <b>PRATT</b>	Casing <b>8 5/8</b>
		Depth <b>690'</b>
Type Job <b>CNW 8 5/8 Surface</b>	Formation	County <b>KIOWA</b>
		State <b>KS</b>
		Legal Description <b>3-19-18</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
<b>8 5/8</b>								
Depth <b>690'</b>	Depth	From	To	Pre Pad			5 Min.	
Volume <b>42</b>	Volume	From	To	Pad			10 Min.	
Max Press <b>500</b>	Max Press	From	To	Frac			15 Min.	
Well Connection <b>P.C.</b>	Annulus Vol.	From	To	Water Used			Annulus Pressure	
Plug Depth <b>660</b>	Packer Depth	From	To	Flush			Total Load	

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HCC

Customer Representative	Station Manager <b>DAVE SCOTT</b>	Treater <b>Robert Sullivan</b>
Service Units <b>19867 19959 20920 19826 19865</b>		
Driver Names <b>Sullivan Melsow Phye</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<b>1200</b>					<b>on the safety meeting</b>
					<b>Run 16 JTS 8 5/8 23 CSG</b>
<b>1430</b>					<b>CASING ON BOTTOM</b>
<b>1445</b>					<b>Hook Rig Break circ</b>
<b>1500</b>	<b>200</b>		<b>4</b>	<b>5</b>	<b>St Spacer</b>
			<b>80</b>		<b>St mix 175sk A-con @ 12 1/2 gal</b>
			<b>30</b>	<b>5</b>	<b>St mix Tail 125 con 2 1/2 gal 3 1/2 cc 1/4 cc</b>
					<b>Shot down</b>
				<b>4</b>	<b>Release Plug &amp; St. Disp</b>
<b>1540</b>	<b>400</b>		<b>42</b>		<b>Plug down</b>
					<b>circ 10 bl. cont to pit</b>

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WICHITA, KS

**Job Complete**  
**Sullivan**

Customer <b>F.G. HULL CO. LLC</b>		Lease No. <b>CONFIDENTIAL</b>		Date <b>3-29-10</b>	
Lease <b>McKINLEY</b>		Well # <b>1-3</b>			
Field Order # <b>1103</b>	Station <b>PRATT, KS.</b>	Casing <b>4 1/2"</b>	Depth	County <b>KIOWA</b>	State <b>KS.</b>
Type Job <b>CNW- 4 1/2 L.S.</b>			Formation	Legal Description <b>43-12-B</b>	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>4 1/2"</b>	Tubing Size	Shots/Ft	<b>CMT -</b>	Acid <b>790SK AA2</b>	RATE	PRESS	ISIP	
Depth <b>3480</b>	Depth	From	To	Pre-Pad <b>@ 1.5 CUFT<sup>3</sup></b>	Max		5 Min.	
Volume <b>81.13</b>	Volume	From	To	Pad <b>60/40 P02</b>	Min		10 Min.	
Max Press <b>1500</b>	Max Press	From	To	Frac <b>@ 1.36 CUFT<sup>3</sup></b>	Avg		15 Min.	
Well Connection <b>P.C.</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>5437.75</b>	Packer Depth	From	To	Flush <b>86.5 BBL H<sub>2</sub>O</b>	Gas Volume		Total Load	

Customer Representative <b>ROB LONG</b>	Station Manager <b>DAVE SCOTT</b>	Treater <b>KEEVEN LESLEY</b>
Service Units <b>07283 27463 19832 21010</b>		
Driver Names <b>LESLEY VEATCH NALL</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
11:30 PM					ON LOCATION - SAFETY MEETING
12:45 AM					RUN CSG. 4 1/2" X 10.5"
					CENT. - 6, 9, 10, 11, 12, 13, 14, 15, 16, 17
1:20 AM					BASK - 8, 14
3:50 AM					CSG. ON BOTTOM
3:55 AM					HOOK UP TO CSG. - BREAK CIRC. W/RIG
6:07 AM			5	5	H <sub>2</sub> O AHEAD
6:09 AM			12	6	SUPERFLUSH
6:10 AM			5	6	H <sub>2</sub> O SPACER
6:12 AM			12	6	MIX CMT. @ 13.99 #/gal
6:20 AM			49	6	MIX TAIL CMT. @ 15.0 #/gal
6:21 AM					WASH PUMP & LINE CLEAN - DROP PLUG
6:25 AM			0	7	START DISPLACEMENT
6:37 AM			61	6	LIFT PRESSURE
6:54 AM			75	5	SLOW RATE
6:58 AM			86.5	4	PLUG DOWN - HELD
			10		PLUG R.H & M.H.
					JOB COMPLETE,
					THANK YOU, KEEVEN LESLEY

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MAY 11 2010

CONSERVATION DIVISION  
WICHITA, KS





## DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Rene

**3-29s-18w**

**Mckinley #1-3**

Start Date: 2010.03.23 @ 06:51:00

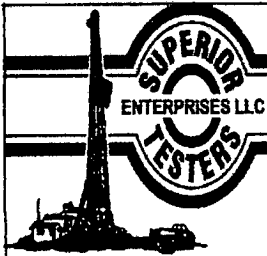
End Date: 2010.03.23 @ 15:15:00

Job Ticket #: 16267                      DST #: 1

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2010.03.30 @ 13:09:12

F.G.Holl Company L.L.C.      Mckinley #1-3      3-29s-18w      DST # 1      Altamont      2010.03.23



# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.  
 9431 East Central Suite 100  
 Wichita, Kansas 67206-2563  
 ATTN: Rene

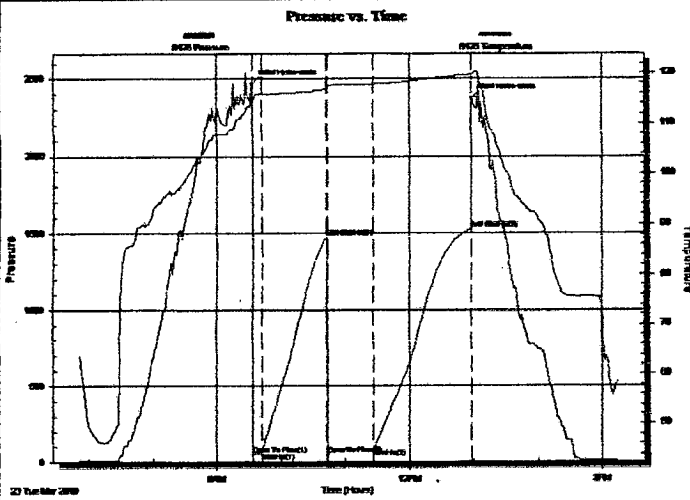
**Mckinley #1-3**  
**3-29s-18w**  
 Job Ticket: 16267      **DST#: 1**  
 Test Start: 2010.03.23 @ 06:51:00

## GENERAL INFORMATION:

Formation: **Altamont**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 09:34:00  
 Time Test Ended: 15:15:00  
 Interval: **4808.00 ft (KB) To 4828.00 ft (KB) (TVD)**  
 Total Depth: **4828.00 ft (KB) (TVD)**  
 Hole Diameter: **7.80 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budig  
 Unit No: 3335-90  
 Reference Elevations: 2288.00 ft (KB)  
 2275.00 ft (CF)  
 KB to GR/CF: 13.00 ft

**Serial #: 8425**      **Outside**  
 Press@RunDepth: 84.05 psia @ 4825.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2010.03.23      End Date: 2010.03.23      Last Calib.: 2010.03.23  
 Start Time: 06:51:00      End Time: 15:15:00      Time On Btm: 2010.03.23 @ 09:33:30  
 Time Off Btm: 2010.03.23 @ 12:59:00

**TEST COMMENT:** 10 Minutes 1st Flow -Weak building blow to fair blow to bottom of the bucket in 6 minutes  
 60 Minutes 1st Shut-In-No Blow back  
 45 Minutes 2nd Flow -Strong blow bottom of the bucket in 10 seconds decreased to a fair steady blow  
 90 Minutes 2nd Sht-In- No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2467.04	114.89	Initial Hydro-static
1	51.04	114.45	Open To Flow (1)
10	60.12	115.77	Shut-In(1)
70	1473.76	116.69	End Shut-In(1)
71	47.24	116.97	Open To Flow (2)
114	84.05	117.77	Shut-In(2)
205	1526.32	119.54	End Shut-In(2)
206	2371.19	119.88	Final Hydro-static

## Recovery

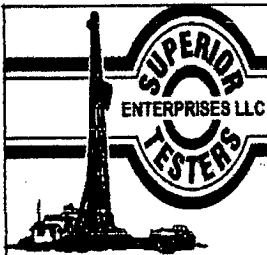
Length (ft)	Description	Volume (bbl)
3400.00	Gas in the pipe	13518.72
75.00	Clean gassy oil	1.05
150.00	Ocm 8%g 20%o 72%m	2.10

## Gas Rates

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







# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company L.L.C.  
 9431 East Central Suite 100  
 Wichita, Kansas 67206-2563  
 ATTN: Rene

**Mckinley #1-3**  
**3-29s-18w**  
 Job Ticket: 16267      **DST#: 1**  
 Test Start: 2010.03.23 @ 06:51:00

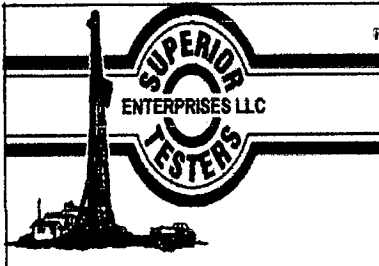
### Tool Information

Drill Pipe:	Length: 4528.00 ft	Diameter: 3.80 inches	Volume: 63.52 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.76 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 274.00 ft	Diameter: 225.00 inches	Volume: 13474.87 bbl	Weight to Pull Loose: 75000.00 lb
			<u>Total Volume: 13538.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4808.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4780.00	
Shut-In Tool	5.00			4785.00	
Hydraulic Tool	5.00			4790.00	
Jars	6.00			4796.00	
Safety Joint	2.00			4798.00	
Packer	5.00			4803.00	29.00      Bottom Of Top Packer
Packer	5.00			4808.00	
Perforations	15.00			4823.00	
Recorder	1.00	8405	Inside	4824.00	
Recorder	1.00	8425	Outside	4825.00	
Bullnose	3.00			4828.00	20.00      Bottom Packers & Anchor

**Total Tool Length: 49.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company L.L.C.  
 9431 East Central Suite 100  
 Wichita, Kansas 67206-2563  
 ATTN: Rene

**Mckinley #1-3**  
**3-29s-18w**  
 Job Ticket: 16267      **DST#: 1**  
 Test Start: 2010.03.23 @ 06:51:00

## Mud and Cushion Information

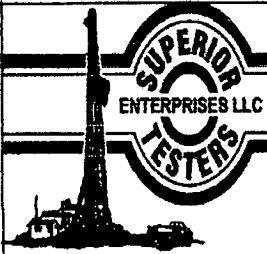
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.55 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Safinity: 3500.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3400.00	Gas in the pipe	13518.723
75.00	Clean gassy oil	1.052
150.00	Ocm 8%g 20%o 72%m	2.104

Total Length: 3625.00 ft      Total Volume: 13521.879 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

F.G.Holl Company L.L.C.  
9431 East Central Suite 100  
Wichita, Kansas 67206-2563  
ATTN: Rene

**Mckinley #1-3**  
**3-29s-18w**  
Job Ticket: 16267      **DST#: 1**  
Test Start: 2010.03.23 @ 06:51:00

## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

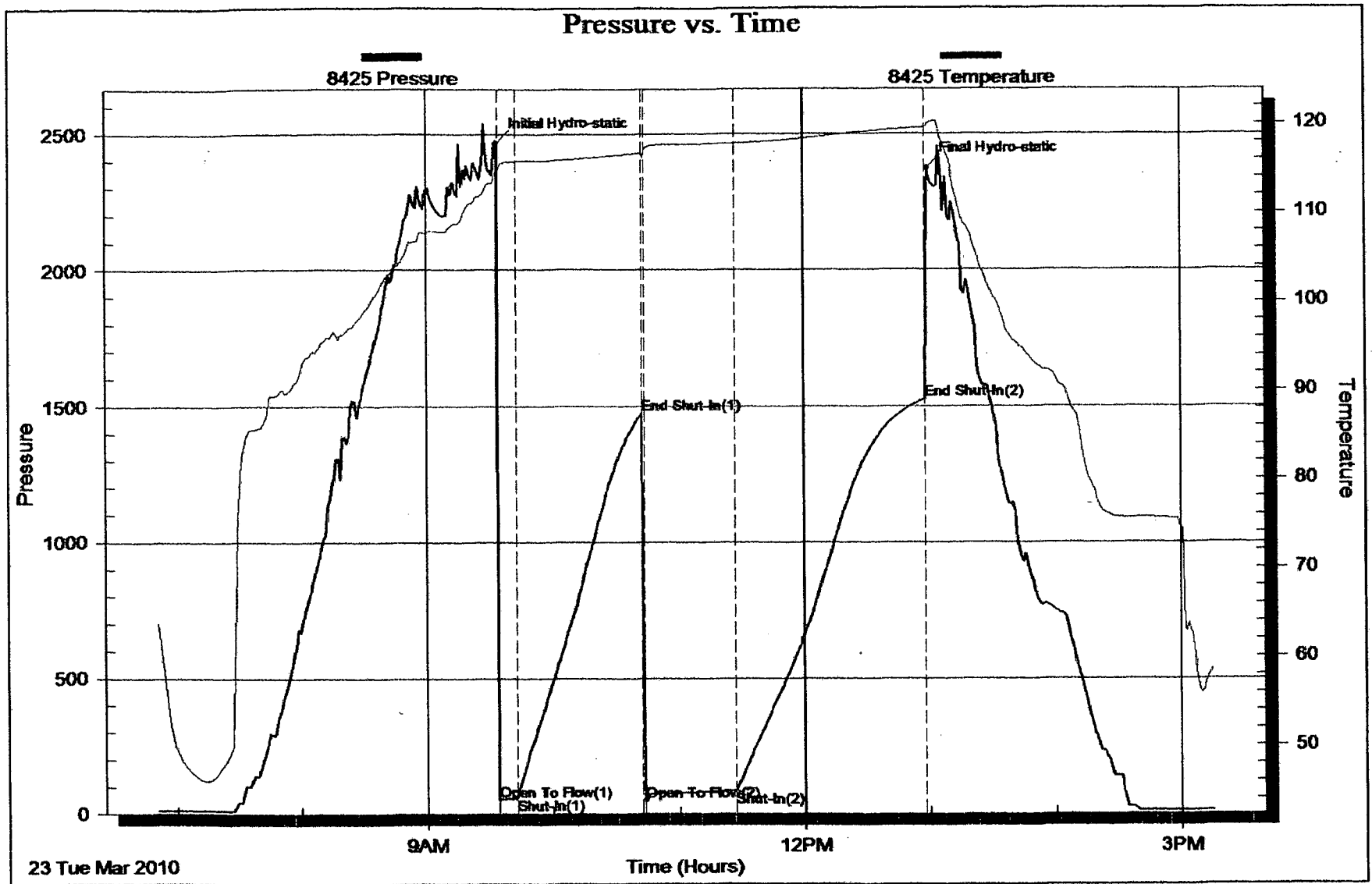
Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
		0.00	0.00	0.00

Serial #: 8425

Outside F.G.Holl Company L.L.C.

3-29s-18w

DST Test Number: 1



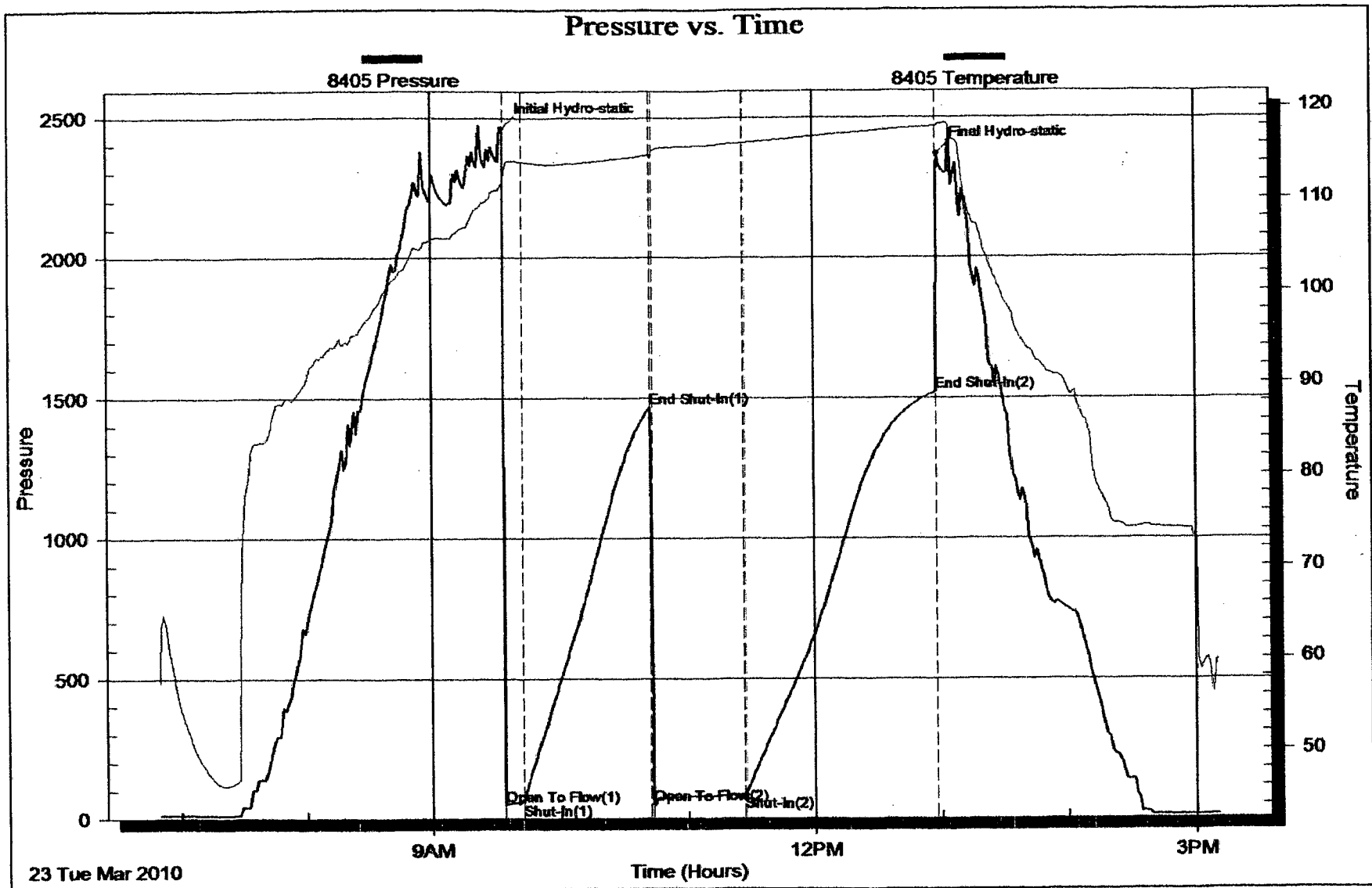
Serial #: 8405

Inside

F.G.Hall Company L.L.C.

3-29s-18w

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Rene

**3-29s-18w**

**Mckinley #1-3**

Start Date: 2010.03.24 @ 12:45:00

End Date: 2010.03.24 @ 00:00:00

Job Ticket #: 16268      DST #: 2

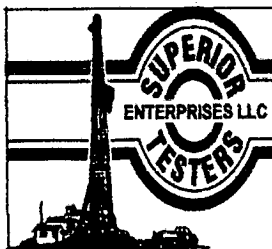
Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

Printed: 2010.03.30 @ 13:08:58

F.G.Holl Company L.L.C.      Mckinley #1-3      3-29s-18w      DST # 2      Pawnee      2010.03.24







# DRILL STEM TEST REPORT

F.G.Holl Company L.L.C.  
 9431 East Central Suite 100  
 Wichita, Kansas 67206-2563  
 ATTN: Rene

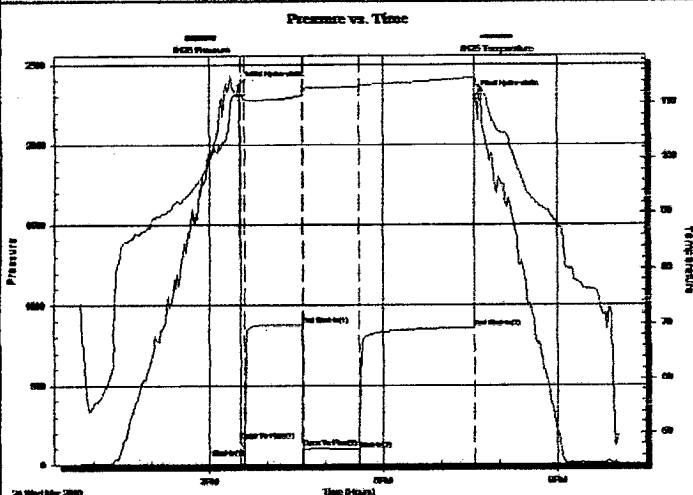
**Mckinley #1-3**  
**3-29s-18w**  
 Job Ticket: 16268 **DST#: 2**  
 Test Start: 2010.03.24 @ 12:45:00

## GENERAL INFORMATION:

Formation: **Pawnee**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 00:00:00 Tester: Gene Budig  
 Time Test Ended: 00:00:00 Unit No: 3335-90  
 Interval: 4830.00 ft (KB) To 4866.00 ft (KB) (TVD) Reference Elevations: 2288.00 ft (KB)  
 Total Depth: 4866.00 ft (KB) (TVD) 2275.00 ft (CF)  
 Hole Diameter: 7.80 inches Hole Condition: Fair KB to GR/CF: 13.00 ft

Serial #: **8425** Outside  
 Press@RunDepth: 862.98 psia @ 4863.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.03.24 End Date: 2010.03.24 Last Calib.: 2010.03.24  
 Start Time: 12:46:00 End Time: 22:04:30 Time On Btm: 2010.03.24 @ 15:31:00  
 Time Off Btm: 2010.03.24 @ 19:36:00

TEST COMMENT: 5 Minutes 1st Oening Strong blow with gas to surface in 3 1/2 minutes  
 60 Minutes 1st Shut-In-good blow back  
 60 Minutes 2nd Oening Strong blow see gas flow report  
 120 Minutes 2nd Shut-In good blow back



## PRESSURE SUMMARY

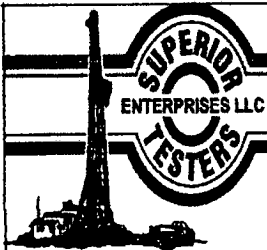
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2372.30	111.63	Initial Hydro-static
2	156.21	111.99	Open To Flow (1)
6	102.78	110.77	Shut-In(1)
65	880.27	111.44	End Shut-In(1)
66	106.97	111.97	Open To Flow (2)
125	97.34	113.15	Shut-In(2)
244	862.98	114.74	End Shut-In(2)
245	2307.08	113.36	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
150.00	Drilling Mud	0.74

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
First Gas Rate	1.00	9.00	258.74
Last Gas Rate	1.00	10.30	296.11
Max. Gas Rate	1.00	10.30	296.11



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company L.L.C.  
 9431 East Central Suite 100  
 Wichigta, Kansas 67206-2563  
 ATTN: Rene

**Mckinley #1-3**  
**3-29s-18w**  
 Job Ticket: 16268      **DST#: 2**  
 Test Start: 2010.03.24 @ 12:45:00

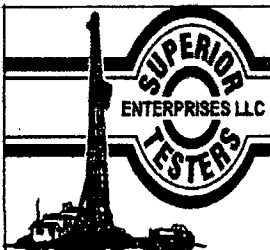
### Tool Information

Drill Pipe:	Length: 4558.00 ft	Diameter: 3.80 inches	Volume: 63.94 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.78 inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 274.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: - bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4830.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4802.00	
Shut-In Tool	5.00			4807.00	
Hydraulic Tool	5.00			4812.00	
Jars	6.00			4818.00	
Safety Joint	2.00			4820.00	
Packer	5.00			4825.00	29.00      Bottom Of Top Packer
Packer	5.00			4830.00	
Perforations	31.00			4861.00	
Recorder	1.00	8405	Inside	4862.00	
Recorder	1.00	8425	Outside	4863.00	
Bullnose	3.00			4866.00	36.00      Bottom Packers & Anchor

**Total Tool Length: 65.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company L.L.C.  
9431 East Central Suite 100  
Wichita, Kansas 67206-2563  
ATTN: Rene

**Mckinley #1-3**  
**3-29s-18w**  
Job Ticket: 16268      **DST#: 2**  
Test Start: 2010.03.24 @ 12:45:00

## Mud and Cushion Information

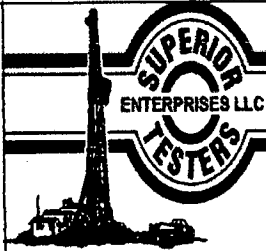
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 10.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.87 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5100.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
150.00	Drilling Mud	0.738

Total Length: 150.00 ft      Total Volume: 0.738 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

F.G.Holl Company L.L.C.  
9431 East Central Suite 100  
Wichita, Kansas 67206-2563  
ATTN: Rene

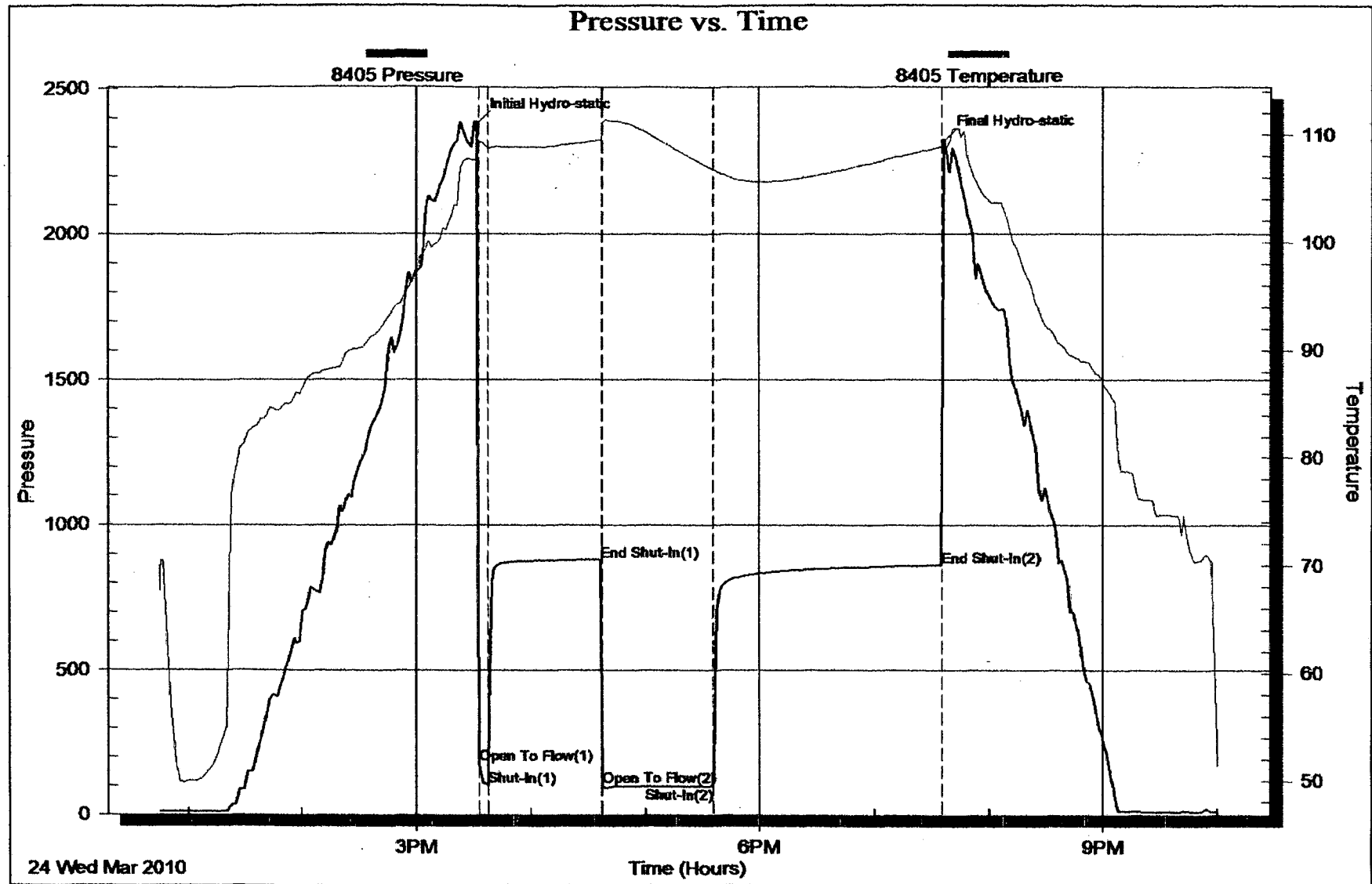
**Mckinley #1-3**  
**3-29s-18w**  
Job Ticket: 16268      **DST#: 2**  
Test Start: 2010.03.24 @ 12:45:00

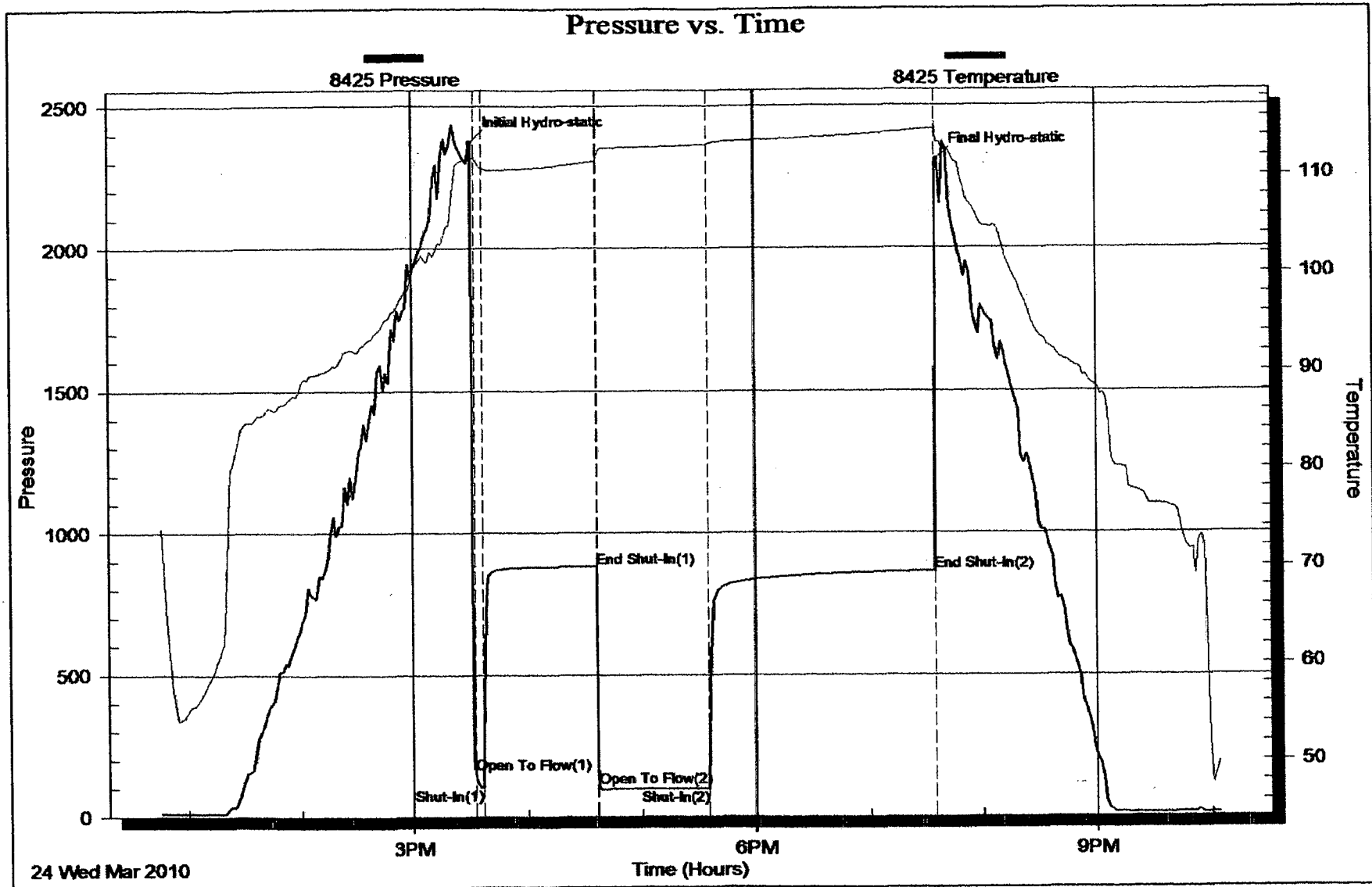
## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

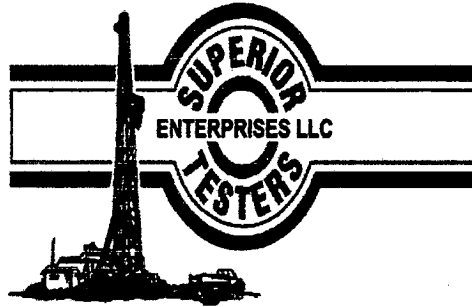
Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	5	1.00	9.00	258.74
2	10	1.00	10.30	296.11
2	20	1.00	10.30	296.11
2	30	1.00	10.30	296.11
2	40	1.00	10.30	296.11
2	50	1.00	10.30	296.11
2	60	1.00	10.30	296.11





24 Wed Mar 2010



## DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Rene

**3-29s-18w**

**Mckinley #1-3**

Start Date: 2010.03.25 @ 10:10:00

End Date: 2010.03.25 @ 00:00:00

Job Ticket #: 16269                      DST #: 3

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

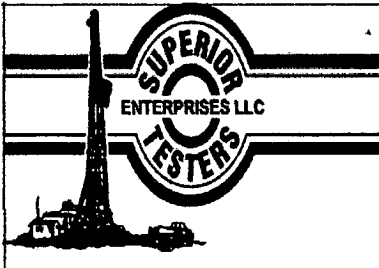
Printed: 2010.03.30 @ 13:08:39

F.G.Holl Company L.L.C.    Mckinley #1-3    3-29s-18w    DST # 3    Mississippi Chert    2010.03.25









# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Hoff Company L.L.C.  
 9431 East Central Suite 100  
 Wichita, Kansas 67206-2563  
 ATTN: Rene

**Mckinley #1-3**  
**3-29s-18w**  
 Job Ticket: 16269      DST#: 3  
 Test Start: 2010.03.25 @ 10:10:00

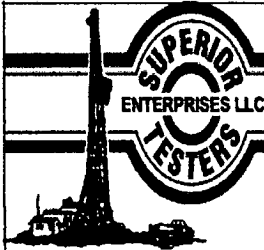
## Tool Information

Drill Pipe:	Length: 4622.00 ft	Diameter: 3.80 inches	Volume: 64.83 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: ft	Diameter: 2.76 inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 274.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 78000.00 lb
			Total Volume: - bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4910.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	51.85 ft			
Tool Length:	80.85 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4882.00	
Shut-in Tool	5.00			4887.00	
Hydraulic Tool	5.00			4892.00	
Jars	6.00			4898.00	
Safety Joint	2.00			4900.00	
Packer	5.00			4905.00	29.00      Bottom Of Top Packer
Packer	5.00			4910.00	
Perforations	4.00			4914.00	
Change Over Sub	0.75			4914.75	
Drill Pipe	31.35			4946.10	
Change Over Sub	0.75			4946.85	
Perforations	10.00			4956.85	
Recorder	1.00	8524	Inside	4957.85	
Recorder	1.00	8504	Outside	4958.85	
Bullnose	3.00			4961.85	51.85      Bottom Packers & Anchor

**Total Tool Length: 80.85**



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company L.L.C.  
9431 East Central Suite 100  
Wichita, Kansas 67206-2563  
ATTN: Rene

**Mckinley #1-3**  
**3-29s-18w**  
Job Ticket: 16269      **DST#: 3**  
Test Start: 2010.03.25 @ 10:10:00

## Mud and Cushion Information

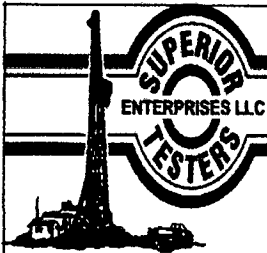
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.19 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5200.00 ppm			
Filter Cake: inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
15.00	Drilling Mud	0.074

Total Length: 15.00 ft      Total Volume: 0.074 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



# DRILL STEM TEST REPORT

**GAS RATES**

F.G.Holl Company L.L.C.  
9431 East Central Suite 100  
Wichita, Kansas 67206-2563  
ATTN: Rene

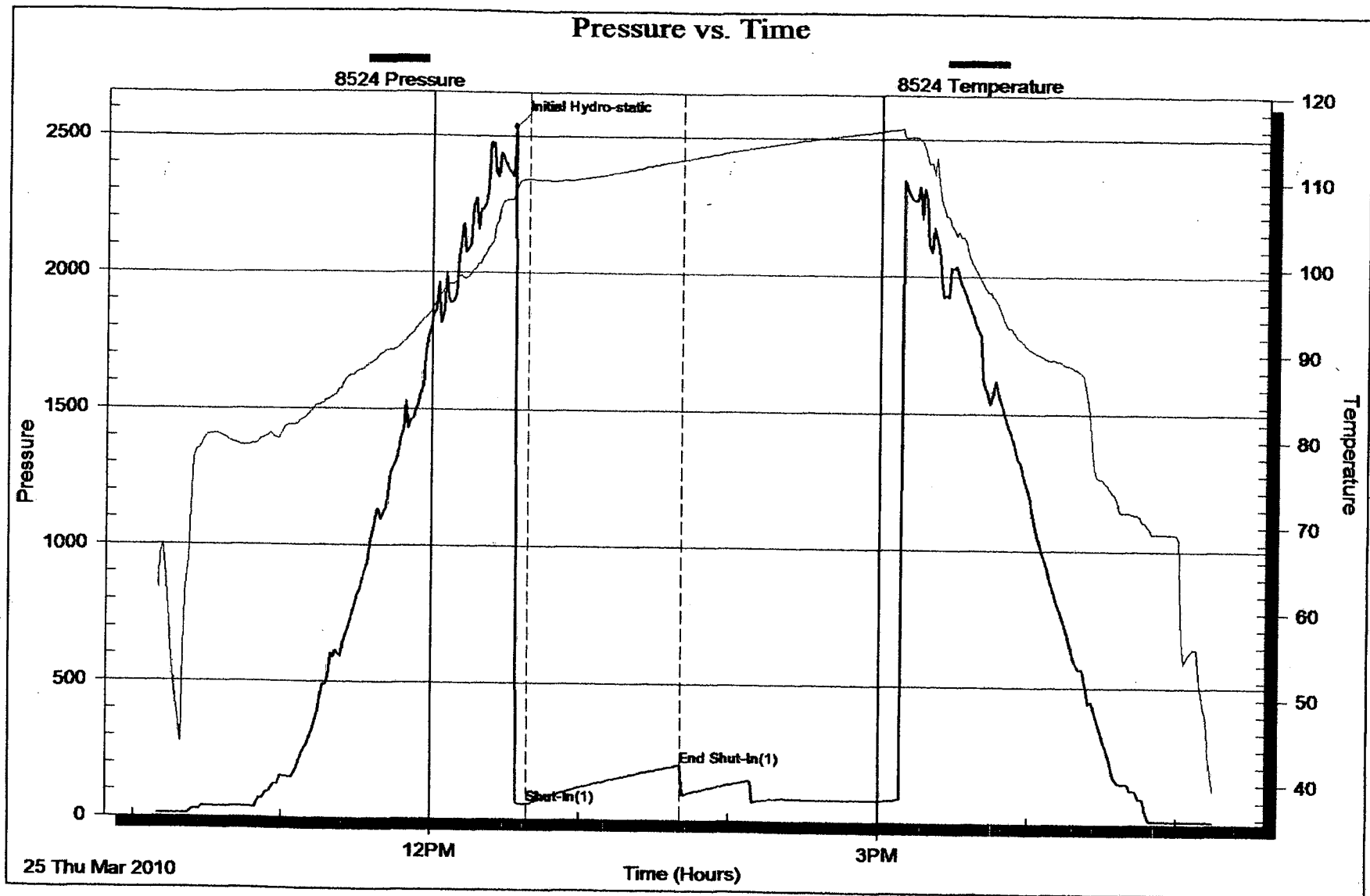
**Mckinley #1-3**  
**3-29s-18w**  
Job Ticket: 16269      **DST#: 3**  
Test Start: 2010.03.25 @ 10:10:00

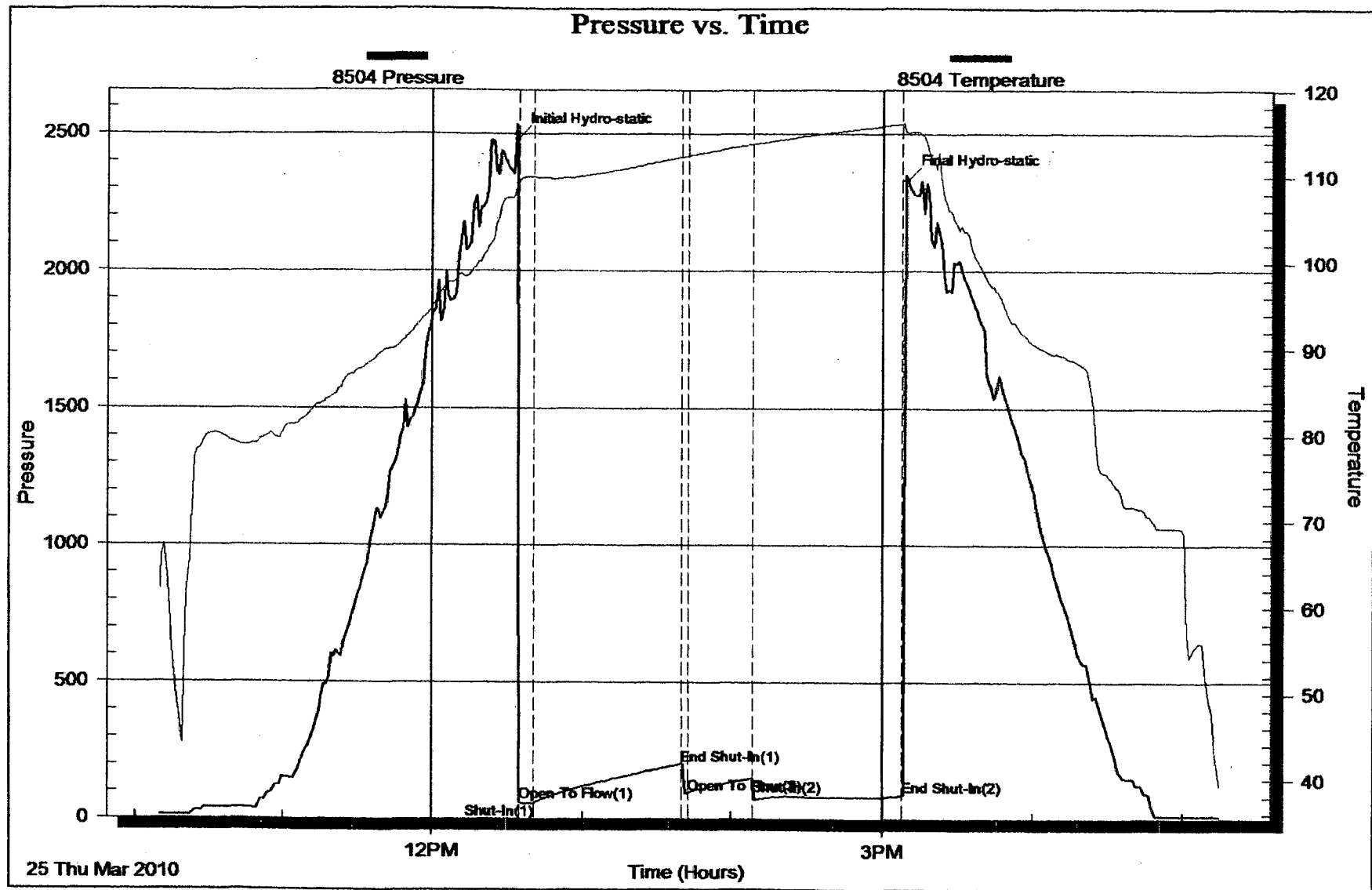
## Gas Rates Information

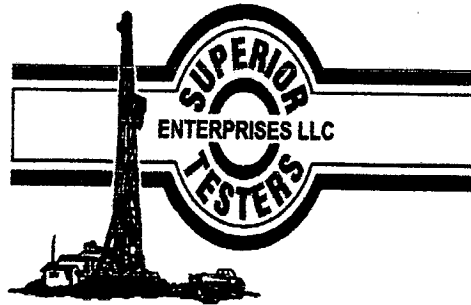
Temperature:            59 (deg F)  
Relative Density:        0.65  
Z Factor:                0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
		0.00	0.00	0.00







## DRILL STEM TEST REPORT

Prepared For: **F.G.Holl Company L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Rene

**3-29s-18w**

**Mckinley #1-3**

Start Date: 2010.03.26 @ 12:55:00

End Date: 2010.03.26 @ 20:35:15

Job Ticket #: 16270                      DST #: 4

Superior Testers Enterprises LLC  
PO Box 138 Great Bend KS 67530  
1-800-792-6902

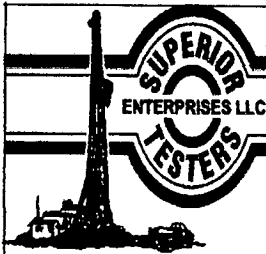
Printed: 2010.03.30 @ 13:08:24

F.G.Holl Company L.L.C.      Mckinley #1-3      3-29s-18w      DST # 4      Mississippi Chert      2010.03.26









# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G.Holl Company L.L.C.  
 9431 East Central Suite 100  
 Wichita, Kansas 67206-2563  
 ATTN: Rene

**Mckinley #1-3**  
**3-29s-18w**  
 Job Ticket: 16270      **DST#: 4**  
 Test Start: 2010.03.26 @ 12:55:00

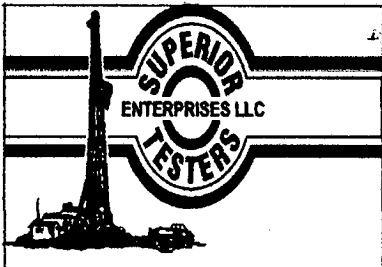
## Tool Information

Drill Pipe:	Length: 4686.00 ft	Diameter: 3.80 inches	Volume: 65.73 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length:            ft	Diameter: 2.76 inches	Volume: - bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 274.00 ft	Diameter: 2.25 inches	Volume: 1.35 bbl	Weight to Pull Loose: 72000.00 lb
			<u>Total Volume: - bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4963.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4935.00	
Shut-in Tool	5.00			4940.00	
Hydraulic Tool	5.00			4945.00	
Jars	6.00			4951.00	
Safety Joint	2.00			4953.00	
Packer	5.00			4958.00	29.00      Bottom Of Top Packer
Packer	5.00			4963.00	
Perforations	4.00			4967.00	
Recorder	1.00	8405	Inside	4968.00	
Recorder	1.00	8524	Outside	4969.00	
Bullnose	3.00			4972.00	9.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>38.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G.Holl Company L.L.C.  
9431 East Central Suite 100  
Wichita, Kansas 67206-2563  
ATTN: Rene

Mckinley #1-3  
3-29s-18w  
Job Ticket: 16270      DST#: 4  
Test Start: 2010.03.26 @ 12:55:00

## Mud and Cushion Information

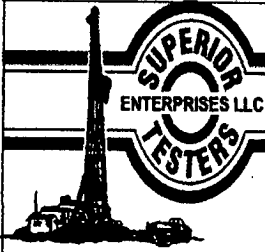
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.39 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 9700.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
65.00	Drilling Mud	0.320

Total Length: 65.00 ft      Total Volume: 0.320 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:



# DRILL STEM TEST REPORT

GAS RATES

F.G.Holl Company L.L.C.  
9431 East Central Suite 100  
Wichita, Kansas 67206-2563  
ATTN: Rene

Mckinley #1-3  
3-29s-18w  
Job Ticket: 16270      DST#: 4  
Test Start: 2010.03.26 @ 12:55:00

## Gas Rates Information

Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
2	25	0.50	1.85	12.48
2	30	0.50	2.60	17.54
2	35	0.50	2.95	19.90
2	40	0.50	3.25	21.92
2	50	0.50	3.52	23.74
2	60	0.50	3.73	25.13

