

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

RECEIVED ORIGINAL

SEP 14 2010

Form ACO-1  
June 2009  
Form Must Be Typed  
Form must be Signed  
Blanks must be Filled

KCC WICHITA

9/10/12

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., Rig #8  
Wellsite Geologist: Rene Husted  
Purchaser: NCRA

Designate Type of Completion:  
 New Well     Re-Entry     Workover  
 Oil     WSW     SWD     SIOW  
 Gas     D&A     ENHR     SIGW  
 OG     GSW     Temp. Abd.  
 CM (Coal Bed Methane)  
 Cathodic     Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to ENHR     Conv. to SWD  
 Conv. to GSW  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_  
 Commingled    Permit #: \_\_\_\_\_  
 Dual Completion    Permit #: \_\_\_\_\_  
 SWD    Permit #: \_\_\_\_\_  
 ENHR    Permit #: \_\_\_\_\_  
 GSW    Permit #: \_\_\_\_\_  
08/10/2010    08/19/2010    09/09/2010  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 145-21609-00-00  
Spot Description: 60' S. & 120' E. OF  
\_\_\_\_\_ C \_\_\_\_\_ E/2 Sec. 1 Twp. 20 S. R. 16  East  West  
2,580 Feet from  North /  South Line of Section  
1,200 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Pawnee  
Lease Name: FLESKE/HETZKE UNIT Well #: 1-1  
Field Name: Ryan East  
Producing Formation: Arbuckle  
Elevation: Ground: 1988 Kelly Bushing: 1996  
Total Depth: 3950 Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 997 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: 15,000 ppm Fluid volume: <200 bbls  
Dewatering method used: No free fluids  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Permit #: \_\_\_\_\_

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.

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.  
Franklin R. Greenbaum  
Signature: \_\_\_\_\_  
Title: Exploration Manager Date: 09/10/2010

KCC Office Use ONLY

Letter of Confidentiality Received  
Date: 9/10/10 - 9/10/12  
 Confidential Release Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: NJ Date: 9/15/10

Operator Name: F.G. Holl Company, L.L.C. Lease Name: FLESKE/HETZKE UNIT Well #: 1-1  
 Sec. 1 Twp. 20 S. R. 16  East  West County: Pawnee

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run: CDL/CNL/ML CPI/Sector Bond/Frac finder BHCS/DIL	<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 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"	23#	997	A-Con	300sx	2% gel, 3%cc
					Common	175sx	
Production	7-7/8"	5-1/2"	14#	3947	AA-2&60/40Poz	140&50sx	2% gel, 3%cc

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
4 SPF	3684' - 3688' Arbuckle	Spotted 500 gal 10% acetic acid	
		250 gal 15% acid	

TUBING RECORD: Size: <u>2-7/8"</u> Set At: <u>3891'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR: _____		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.	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 checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3684' - 3688' Arbuckle</u>
---	--	---

FLESKE/HETZKE #1-1  
PAWNEE COUNTY, KANSAS

Formation	Sample	Datum	E-Log	Datum
Anhydrite				
Herrington			1930	+66
Winfield			1987	+9
Towanda			2048	-52
Fort Riley			2087	-91
B/Florence			2191	-195
Wrefold			2237	-241
Council Grove			2257	-261
Crouse			2298	-302
Cottonwood			2380	-384
Neva			2431	-435
Red Eagle			2493	-497
Wabaunsee			2664	-668
Root Shale			2720	-724
Stotler			2779	-783
Willard Shale			2805	
Tarkio			2839	-843
Howard			2980	-984
Severy Shale			3067	-1071
Topeka			3078	-1082
Heebner			3311	-1315
Toronto			3328	-1332
Douglas Sh.			3340	-1344
Brown lime			3388	-1392
LKC			3398	-1402
BKC			3602	-1606
Arbuckle			3655	-1659
RTD			3950	-1954

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**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET

1718 02263 A

CONFIDENTIAL

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <b>8-19-10</b> DISTRICT <b>KANSAS</b>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO. _____							
CUSTOMER <b>EG HOLL Co LLC</b>		LEASE <b>Fleske/Ketzke unit #1</b> WELL NO. _____							
ADDRESS _____		COUNTY <b>Rush</b> STATE <b>KANS</b>							
CITY _____ STATE _____		SERVICE CREW <b>A. Ward, M. Mattel, Eric</b>							
AUTHORIZED BY _____		JOB TYPE: <b>5 1/2" L.S.</b> <b>SWD</b>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
<b>28443 PU</b>	<b>1</b>					<b>8-18-10</b>	<b>8-18-10</b>	<b>AM</b>	<b>6:00</b>
<b>19903-19905</b>	<b>1</b>					ARRIVED AT JOB	<b>8-19-10</b>	<b>AM</b>	<b>6:45</b>
<b>19959-21010</b>	<b>1</b>					START OPERATION	<b>8-19-10</b>	<b>AM</b>	<b>11:30</b>
						FINISH OPERATION	<b>8-19-10</b>	<b>PM</b>	<b>12:30</b>
						RELEASED	<b>8-19-10</b>	<b>PM</b>	<b>1:00</b>
						MILES FROM STATION TO WELL	<b>60 miles</b>		

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED:

(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP105	AA-2 Cement		140-SK		
CP103	60/40 Poz		100-SK		
CC102	cell FLAK		35-lb		
CC105	Defoamer (Powder)		33-lb		
CC111	SALT (FINE)		629-lb		
CC115	GAS Blok		132-lb		
CC129	F/A-322		132-lb		
CC201	Gilsonite		1900-lb		
CF607	latch down Plug + Baffle		1-CA		
CF1251	Auto Fill Float Shoe		1-CA		
CF1651	Turboliz- 5 1/2" Blue		8-CA		
CF1901	5 1/2" Basket Blue		1-CA		
	cement Scratchers Rotating Type		60-CA		
CE159	super flush		500-gal		

SUB TOTAL

**DLS**

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$
TOTAL	

SERVICE REPRESENTATIVE **Allen F. Ward**

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: **Tony Smart**  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. \_\_\_\_\_

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Customer FG Holl Co. LLC	Lease No.	Date 8-19-10
Lease Fleske #2 Ke unit	Well # # 1-M	
Field Order # 02263A	Station Pratt	Casing 5 1/2
Type Job 5 1/2" L.S.	Depth 3944	County Rush
	Formation TA 3950'	State KS
		Legal Description 1-20-16

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME	
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
5 1/2				12-BBI Superflush			
Depth 3944	Depth	From	To	Pre Pad 50-SK 60/40 P02	Max SCAVENGER @ 12 #/gal		5 Min.
Volume 96 BBL	Volume	From	To	Pad 140-SK AA 2	Min @ 15 #/gal		10 Min.
Max Press 1500 #	Max Press	From	To	Frac 30-SK 60/40	Avg P02 for RN + MH		15 Min.
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth 3928.55	Packer Depth	From	To	Flush Disp H2O	Gas Volume		Total Load

Customer Representative Ercy (Rob Lang)	Station Manager Dave Scott	Treater Allen F. Werth
Service Units 2443 19903 19905 19959 21010		
Driver Names werth mike mathal ERIC		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
6:15 AM					Duke #8 on loc. Discuss Safety, Setup, Plan Job Rig laying down D.L.
6:30					Lay down Kelly + Rig up To Run csg.
7:24					Start 5 1/2" 14" csg. Shoe Joint 15.45' w/ Flat Shoe + L.D. Baffle in collar, cent-2-3-4-5-6-7-8-9 Basket on 9
9:30					Flag Bottom @ 3950' Pick up To 3944' cir + Rotate Pipe
11:30	200 #		12	5	Pump 12 BBLs Super Flush + 5-BBI H2
			12	5	mix + Pump 50-SKs 60/40 P02 SCVENGER
			36	5	mix Pump 140-SKs AA-2 @ 15 #
11:45					wash out Pump + Line (clean)
11:50				6	Drop L.D. Plug + Start Disp.
	400 #			5	Caught Lift PSI w/ 67 BBI out
12:15	1500 #		96	4	Plug down
	0 #				Release PSI 0 #
					Plug Rat Hole w/ 30-SKs 60/40 P02
					Plug Mouse Hole w/ 20-SKs 60/40 P02
					Washup + Rack up Equip.
1:00 PM					Job complete. Thanks Allen, Mike, Eric.

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**BASIC**  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61  
P.O. Box 8613  
Pratt, Kansas 67124  
Phone 620-672-1201

FIELD SERVICE TICKET

1718 02071 A  
1718 30110A

DATE TICKET NO.

DATE OF JOB: 8-11-10 DISTRICT: Pratt		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.							
CUSTOMER: E. B. Hall		LEASE: Fleske/Heteke WELL NO: 1-1							
ADDRESS: [blacked out]		COUNTY: Pawnee STATE: KS							
CITY: STATE:		SERVICE CREW: Orlando, Vetter, Marquez, Terry							
AUTHORIZED BY:		JOB TYPE: CNW-Surfer							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
27270	1						8-10-10	PM	10:00
27270	1						8-11-10	PM	12:00
19860/19818	1							AM	4:50
19831/19862	1							PM	5:50
								AM	6:00
								PM	6:00
						MILES FROM STATION TO WELL: 60			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered). The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: *[Signature]*  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
PCP 101	Acum Stand		300	45	
PCP 100	Common		175	42	
PCP 102	Cell Flake		119	26	
PCL 109	Calcium Chloride		117	66	
PCF 105	TOP Rubber Cement Plug		1	9	
PCF 1753	Centralizers		3	9	
P-E 100	Pickup Mileage		60	mi	
P-E 101	Heavy Equipment Mileage		180	mi	
P-E 113	Bulk Delivery		134	17	
P-CE 201	Depth Charge 501-1000		1	9	
P-CE 240	Cement Service Charge		475	9	
P-CE 504	Plug Container		1	9	
P-5003	Service Supervisor		1	9	

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CHEMICAL / ACID DATA:			

SUB TOTAL		10,282.04
SERVICE & EQUIPMENT	% TAX ON \$	
MATERIALS	% TAX ON \$	DLS
TOTAL		

SERVICE REPRESENTATIVE: Steve Orlando  
THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *[Signature]*  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

# Mud-Co / Service Mud Inc.

Operator F.G.Holl Company, LLC. County Pawnee State Kansas Pump 6 X 14 X 60 SPM Casing Program 8 5/8 \* @ 997 ft.  
 Well Fleske/Hetzke Unit #1-1 Location \_\_\_\_\_ GPM 7.75 BPM \_\_\_\_\_ \* @ \_\_\_\_\_ ft.  
 Contractor Duke Drilling Company #8 Sec 1 TWP 20S RNG 16W D.P. 4.5 in. 61.5 FT/MIN R.A. \_\_\_\_\_ \* @ \_\_\_\_\_ ft.  
 Stockpoint Hays, Kansa Date 8/10/2010 Engineer Rick Hughes Collar 6.25 in. 450 ft. 71.9 FT/MIN R.A. Total Depth 3950 ft.

DATE	DEPTH feet	WEIGHT lb/gal	VISCOSITY			GELS 10 sec / 10 min	pH Strip Meter	FILTRATION/FILTRATION ANALYSIS					SAND %	RETORT			L.C.M.	Pump Press. PSI	CUMULATIVE COST	REMARKS AND TREATMENT
			Sec API @_F	PV @_F	Yp			ml API	Cake 32nds	Pres. #/BBL	Cl ppm	Ce ppm		Solids %	Oil %	Water %				
8/10	214	10.0																		Drig.
8/12	1841	8.8	66	16	21	15/44	7.0	8.8	1			7,200	580	1.0		99.0				Drig. Displaced w/ Starch @ 1837'
8/13	2438	9.2	38	7	13	11/27	8.0	11.2	1			25.2m	1,440	4.9		95.1				Drig.
8/14	3130	9.0	46	11	14	12/38	10.5	8.8	1			5,200	20	4.7		95.3				Drig. Displaced w/ chemical @ 2590'
8/15	3424	9.3	56	14	14	15/44	9.5	10.4	1			6,700	40	6.7		93.3				CTCH DST #1 @ 3424'
8/16	3700	9.2	47	10	15	13/54	8.5	12.8	1			8,100	40	6.0		94.0				CFS DST #2 @ 3680
8/17	3710	9.4	48	10	13	18/46	8.5	13.2	2			9,500	80	7.3		92.7				TO w/DST DST #3 @ 3700
8/18	3730	8.9	49	10	19	37/50	10.0	12.4	2			11m	50	5.7		94.3				Drig. DST #4 @ 3710
8/19	3950																			Final: DST #5 @ 3720
																			LTD - 3950'. 5 DST's. Run Casing.	
																			Reserve pit: chloride content: 15,000	
																			Estimated volume: < 200 bbls of free fluids	

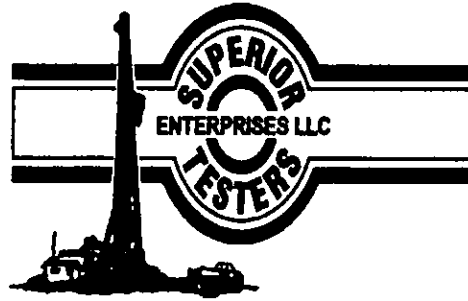
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 KCC WICHITA

**MUD-CO / SERVICE MUD INC.**  
 100 S. Main Suite #310  
 Wichita, Ks. 67202  
 316/264-2814 Fax 316/264-5024

**DRILLING MUD RECAP**

Materials	Sacks	Amount	Materials	Sacks	Amount
C/S HULLS	45		STARCH	75	
CAUSTIC SODA	21		SUPER LIG	13	
CO-POLY-L	1				
DESCO	1				
DRILL PAK	5				
LIME	1				
MIL-GUARD	2				
PREMIUM GEL	386				
SALT CLAY	25				
SODA ASH	22				

Total Mud Cost	
Trucking Cost	
Trucking Surcharge	
Taxes	
<b>TOTAL COST</b>	



## DRILL STEM TEST REPORT

Prepared For: **F.G. Holl Company LLC**

9431 East Suite 100  
Wichita Kansas 67206+2536

ATTN: Rene Husted

**1/20S/16W-**

**Fleske/Hetzke Unit #1-1**

Start Date: 2010.08.15 @ 12:43:00

End Date: 2010.08.15 @ 17:15:16

Job Ticket #: 16104                      DST #: 1

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

RECEIVED  
SEP 14 2010  
KCC WICHITA

Printed: 2010.08.17 @ 14:57:15

F.G. Holl Company LLC

Fleske/Hetzke Unit #1-1

1/20S/16W-

DST # 1

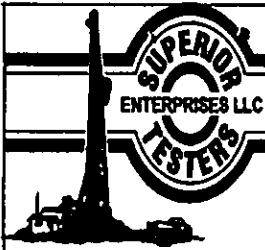
Lansing Zone A and

2010.08.15









# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC  
 9431 East Suite 100  
 Wichita Kansas 67206+2536  
 ATTN: Rene Husted

Fleske/Hetzke Unit #1-1  
 1/20S/16W-  
 Job Ticket: 16104 DST#: 1  
 Test Start: 2010.08.15 @ 12:43:00

### Tool Information

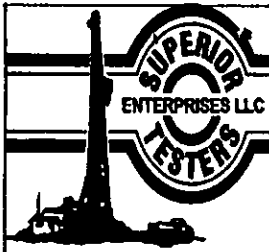
Drill Pipe:	Length: 3374.00 ft	Diameter: 3.80 inches	Volume: 47.33 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 43000.00 lb
			<u>Total Volume: 47.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial 39000.00 lb
Depth to Top Packer:	3394.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval betw een Packers:	30.00 ft			
Tool Length:	59.00 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			3366.00	
Shut-In Tool	5.00			3371.00	
Hydroic Tool	5.00			3376.00	
Jars	6.00			3382.00	
Safety Joint	2.00			3384.00	
Packer	5.00			3389.00	29.00 Bottom Of Top Packer
Packer	5.00			3394.00	
Perforations	25.00			3419.00	
Recorder	1.00	4143	Inside	3420.00	
Recorder	1.00	8400	Outside	3421.00	
Bullnose	3.00			3424.00	30.00 Bottom Packers & Anchor

**Total Tool Length: 59.00**



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Hall Company LLC  
9431 East Suite 100  
Wichita Kansas 67206+2536  
ATTN: Rene Husted

Fleske/Hetzke Unit #1-1  
1/20S/16W-  
Job Ticket: 16104      DST#: 1  
Test Start: 2010.08.15 @ 12:43:00

## Mud and Cushion Information

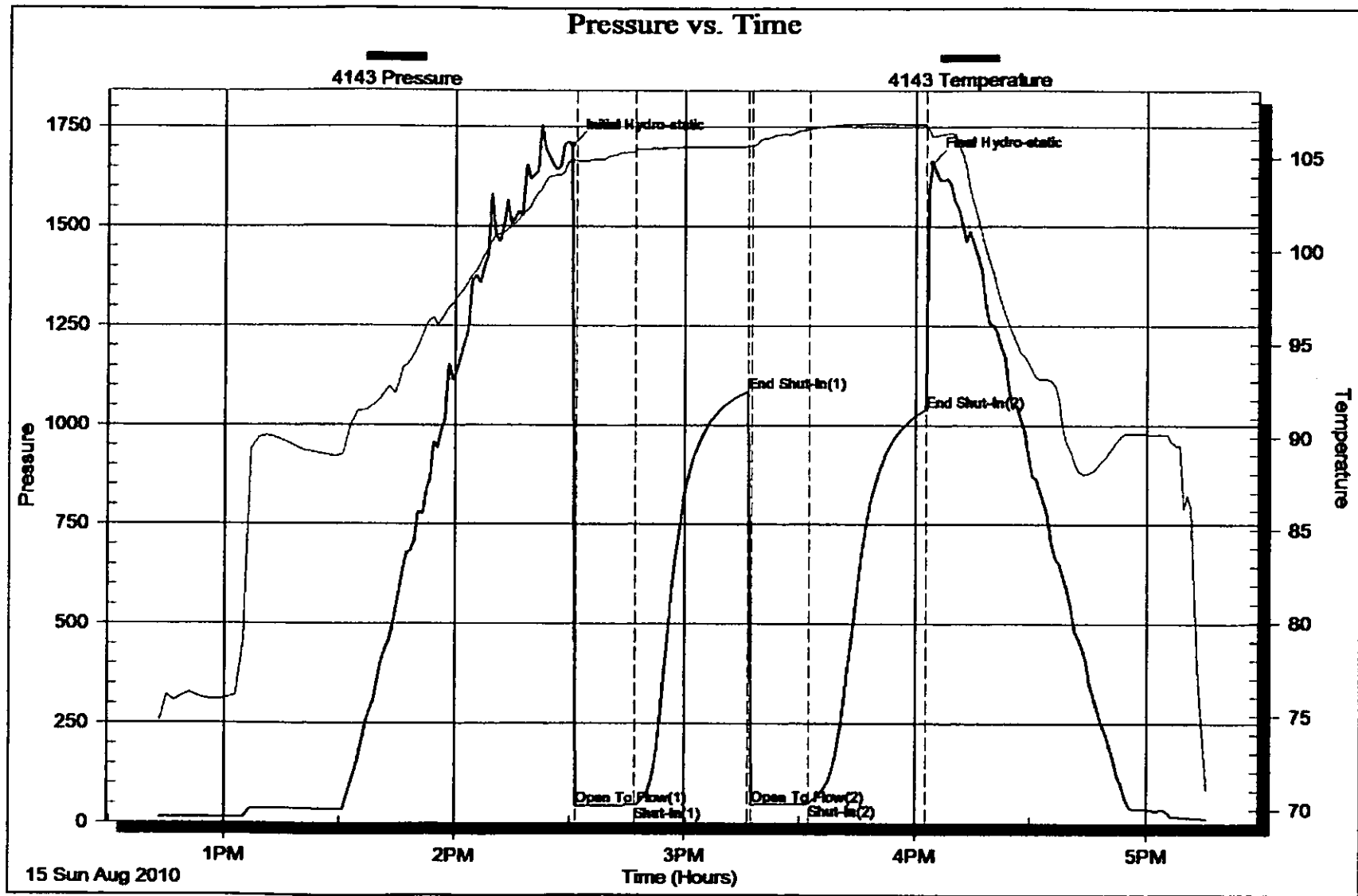
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.78 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5200.00 ppm			
Filter Cake: 1.00 inches			

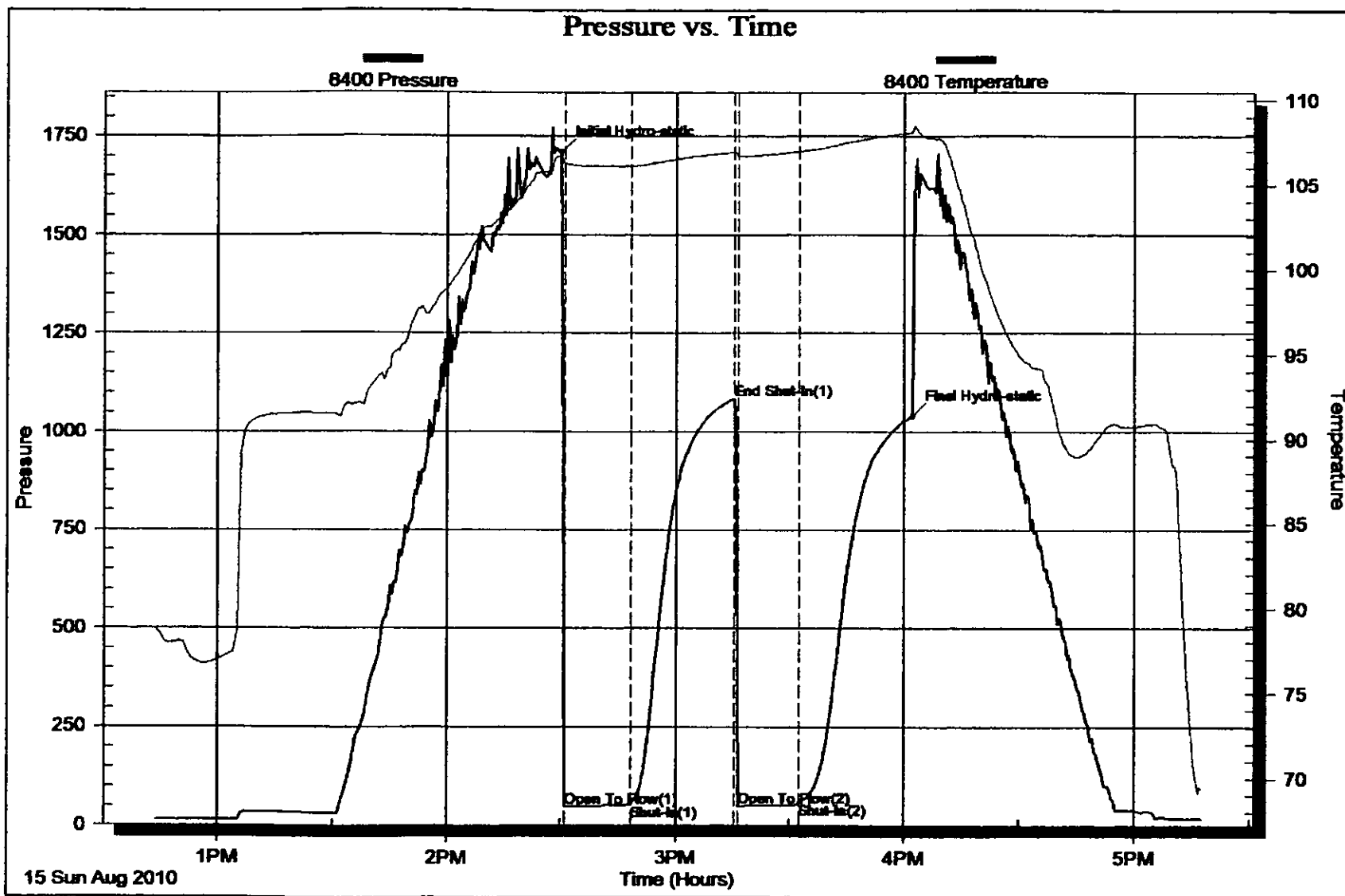
## Recovery Information

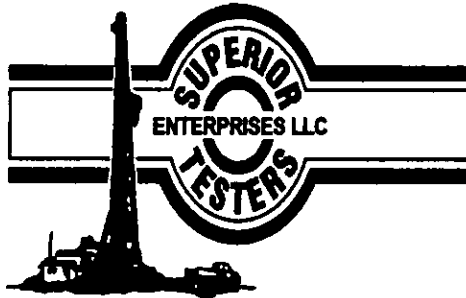
Recovery Table

Length ft	Description	Volume bbl
5.00	Slightly Oil cut Mud	0.070
0.00	2% Oil 98% Mud	0.000

Total Length: 5.00 ft      Total Volume: 0.070 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **F.G. Holl Company LLC**

9431 East Suite 100  
Wichita Kansas 67206+2536

ATTN: Rene Husted

**1/20S/16W-**

**Fleske/Hetzke Unit #1-1**

Start Date: 2010.08.15 @ 10:32:00

End Date: 2010.08.15 @ 16:46:00

Job Ticket #: 16105                      DST #: 2

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

Printed: 2010.08.17 @ 14:54:49

F.G. Holl Company LLC

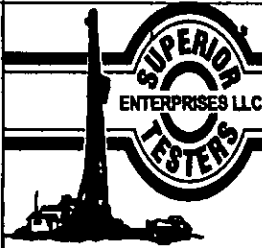
Fleske/Hetzke Unit #1-1

1/20S/16W-

DST # 2

Arbuckle

2010.08.15



# DRILL STEM TEST REPORT

F.G. Holl Company LLC  
 9431 East Suite 100  
 Wichita Kansas 67206+2536  
 ATTN: Rene Husted

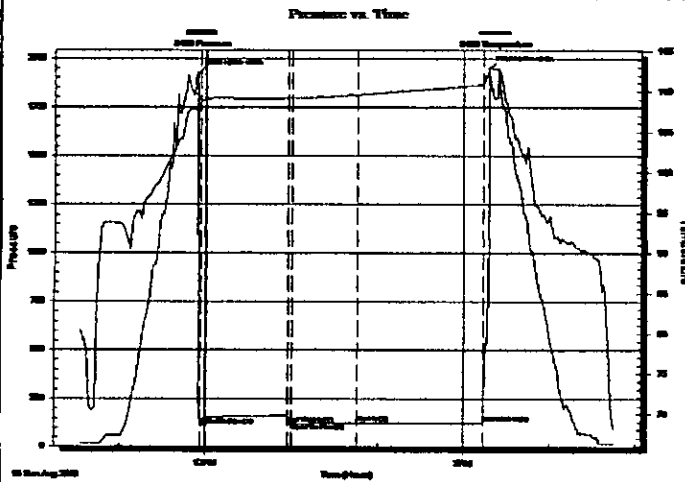
**Fleske/Hetzke Unit #1-1**  
**1/20S/16W-**  
 Job Ticket: 16105      DST#: 2  
 Test Start: 2010.08.15 @ 10:32:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock      ft (KB)  
 Time Tool Opened: 11:56:30  
 Time Test Ended: 16:46:00  
 Interval: **3593.00 ft (KB) To 3680.00 ft (KB) (TVD)**  
 Total Depth: **3680.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Dylan E Ellis  
 Unit No: 3345-GB-30  
 Reference Elevations: 1996.00 ft (KB)  
 1988.00 ft (CF)  
 KB to GR/CF: 8.00 ft

**Serial #: 8400      Outside**  
 Press@RunDepth: 123.56 psia @ 3675.01 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2010.08.15      End Date: 2010.08.15      Last Calib.: 2010.08.16  
 Start Time: 10:33:00      End Time: 16:46:00      Time On Btrr: 2010.08.15 @ 11:54:30  
    Time Off Btrr: 2010.08.15 @ 15:18:00

**TEST COMMENT:** 1ST Opening 3 Minutes Strong blow built to the bottom of a 5 gallon bucket in 15 seconds  
 1ST Shut-in 60 Minutes no blow back  
 2ND Opening 45 Minutes Weak building blow built to 5 inches into the water  
 2ND Shut-in 90 Minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1920.82	107.44	Initial Hydro-static
2	111.54	108.67	Open To Flow (1)
6	151.57	109.11	Shut-in(1)
64	119.87	109.12	End Shut-in(1)
66	121.98	109.13	Open To Flow (2)
111	123.56	109.55	Shut-in(2)
200	125.75	110.80	End Shut-in(2)
204	1947.05	112.86	Final Hydro-static

## Recovery

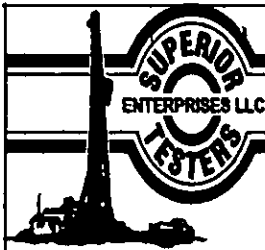
Length (ft)	Description	Volume (bbl)
90.00	Drilling Mud @100% Mud	1.26

## Gas Rates

Choke (Inches)	Pressure (psia)	Gas Rate (Mcfd)







# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Hall Company LLC  
 9431 East Suite 100  
 Wichita Kansas 67206+2536  
 ATTN: Rene Husted

Fleske/Hetzke Unit #1-1  
 1/20S/16W-  
 Job Ticket: 16105      DST#: 2  
 Test Start: 2010.08.15 @ 10:32:00

### Tool Information

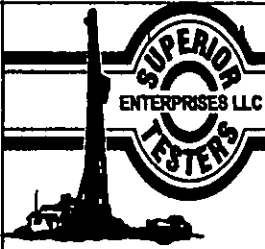
Drill Pipe:	Length: 3591.00 ft	Diameter: 3.80 inches	Volume: 50.37 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 50.37 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 40000.00 lb
Depth to Top Packer:	3593.00 ft			Final 42000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	87.01 ft			
Tool Length:	116.01 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			3565.00	
Shut-in Tool	5.00			3570.00	
Hydroic Tool	5.00			3575.00	
Jars	6.00			3581.00	
Safety Joint	2.00			3583.00	
Packer	5.00			3588.00	29.00      Bottom Of Top Packer
Packer	5.00			3593.00	
Perforations	0.00			3593.00	
Change Over Sub	0.75			3593.75	
Drill Pipe	61.51			3655.26	
Change Over Sub	0.75			3656.01	
Perforations	17.00			3673.01	
Recorder	1.00	4143	Inside	3674.01	
Recorder	1.00	8400	Outside	3675.01	
Bullnose	5.00			3680.01	87.01      Bottom Packers & Anchor

**Total Tool Length: 116.01**



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Hall Company LLC  
9431 East Suite 100  
Wichita Kansas 67206+2536  
ATTN: Rene Husted

Fleske/Hetzke Unit #1-1  
1/20S/16W-  
Job Ticket: 16105      DST#: 2  
Test Start: 2010.08.15 @ 10:32:00

## Mud and Cushion Information

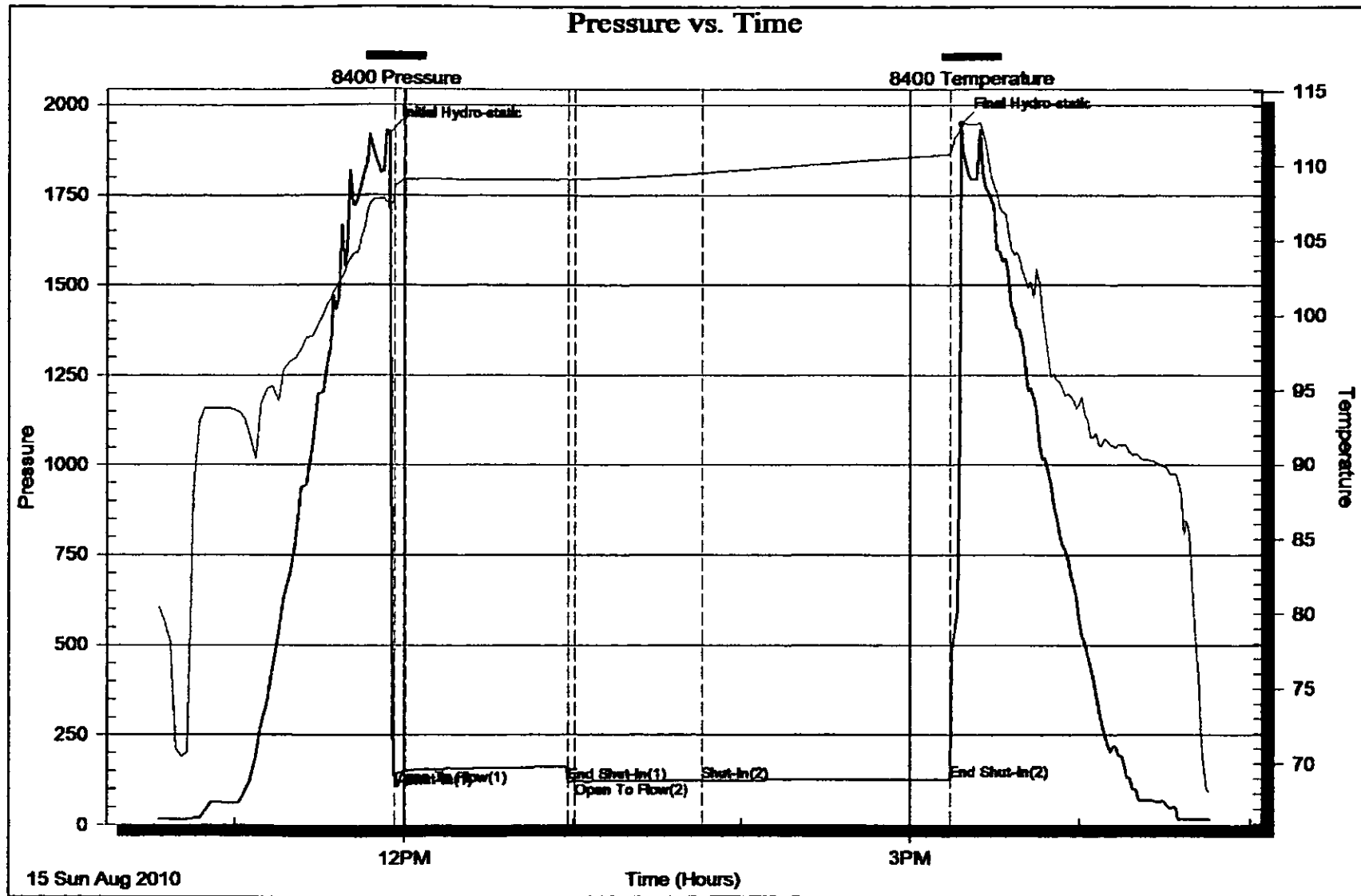
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.38 in <sup>2</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6700.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
90.00	Drilling Mud @100% Mud	1.262

Total Length: 90.00 ft      Total Volume: 1.262 bbl  
Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
Laboratory Name:      Laboratory Location:  
Recovery Comments:

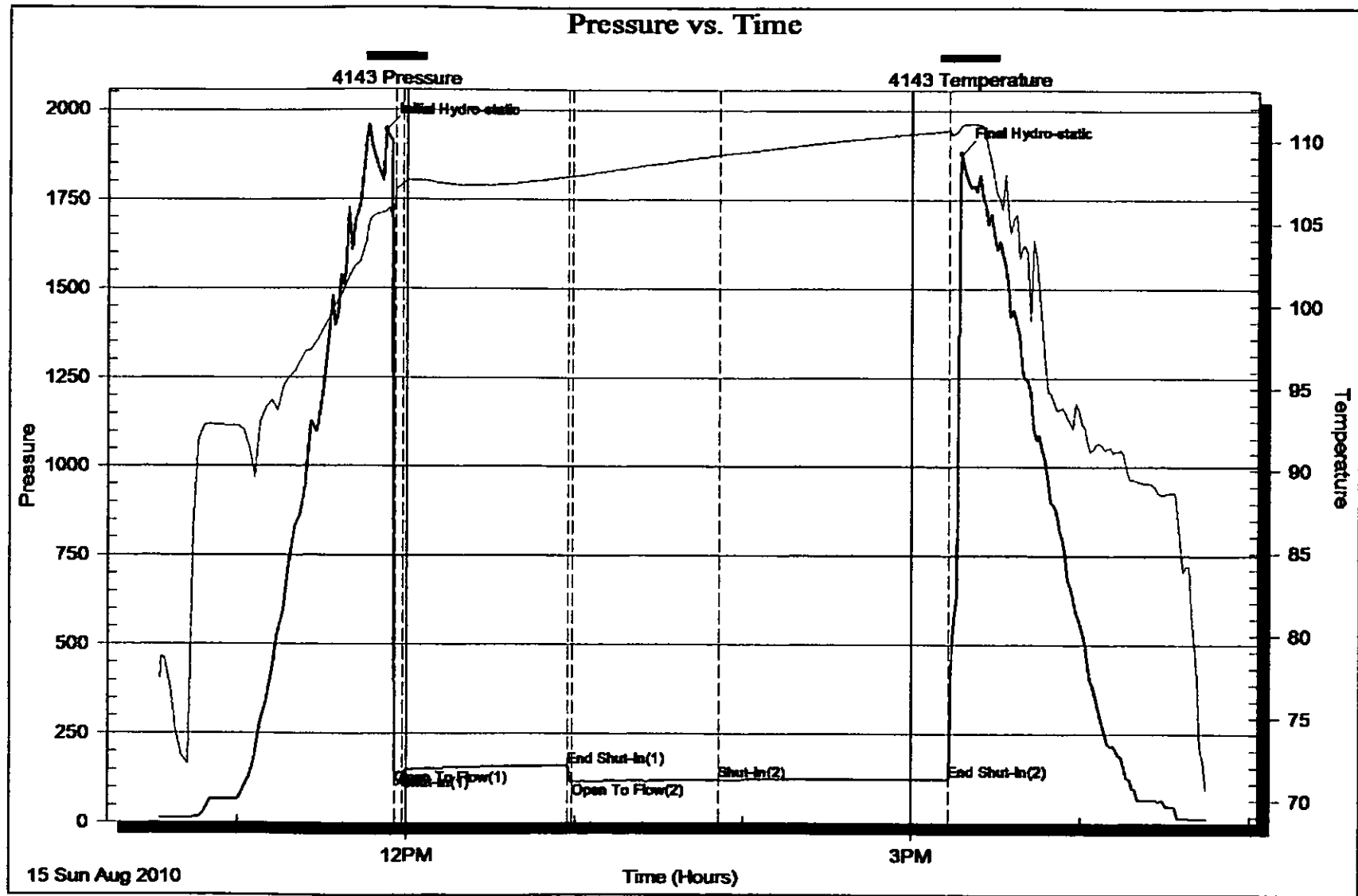


Serial #: 4143

Inside F.G. Holl Company LLC

1/20S/16W-

DST Test Number: 2





## DRILL STEM TEST REPORT

Prepared For: **F.G. Holl Company LLC**

9431 East Suite 100  
Wichita Kansas 67206+2536

ATTN: Rene Husted

**1/20S/16W-**

**Fleske/Hetzke Unit #1-1**

Start Date: 2010.08.16 @ 11:07:00

End Date: 2010.08.16 @ 19:07:30

Job Ticket #: 16106                      DST #: 3

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

Printed: 2010.08.17 @ 14:41:28

F.G. Holl Company LLC

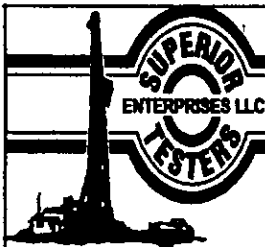
Fleske/Hetzke Unit #1-1

1/20S/16W-

DST # 3

Arbuckle

2010.08.16



# DRILL STEM TEST REPORT

F.G. Holl Company LLC  
 9431 East Suite 100  
 Wichita Kansas 67206+2536  
 ATTN: Rene Husted

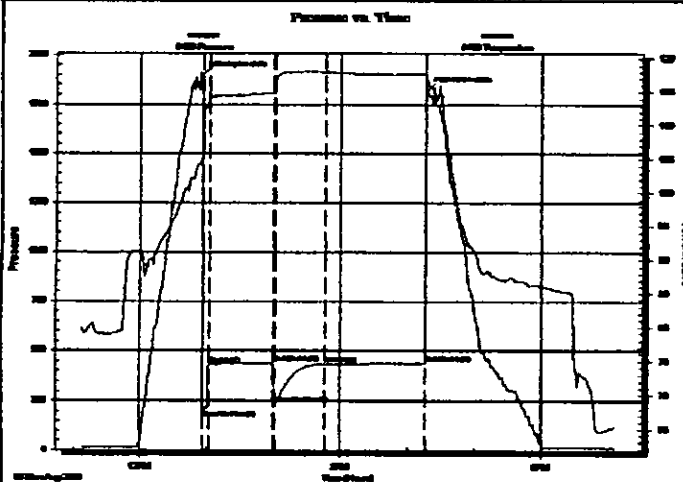
Fleske/Hetzke Unit #1-1  
 1/20S/16W-  
 Job Ticket: 16106 DST#: 3  
 Test Start: 2010.08.16 @ 11:07:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No Whipstock** ft (KB)  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Dylan E Ellis**  
 Time Tool Opened: **12:56:30**  
 Time Test Ended: **19:07:30**  
 Unit No: **3345-GB-30**  
 Interval: **3681.00 ft (KB) To 3700.00 ft (KB) (TVD)**  
 Reference Elevations: **1996.00 ft (KB)**  
 Total Depth: **3700.00 ft (KB) (TVD)**  
**1988.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 KB to GR/CF: **8.00 ft**

Serial #: **8400** Outside  
 Press@RunDepth: **435.22 psia @ 3697.00 ft (KB)** Capacity: **5000.00 psia**  
 Start Date: **2010.08.16** End Date: **2010.08.16** Last Calib.: **2010.08.16**  
 Start Time: **11:08:00** End Time: **19:07:30** Time On Btrr: **2010.08.16 @ 12:55:00**  
 Time Off Btrr: **2010.08.16 @ 16:17:30**

TEST COMMENT: 1ST Opening 5 Minutes Strong blow built to the bottom of a 5 gallon bucket in 30 seconds  
 1ST Shut-in 60 Minutes weak blow back  
 2ND Opening 45 Minutes strong blow bottom of a 5 gallon bucket in 30 seconds gas to surface in 16 minutes  
 2ND Shut-in 90 Minutes weak blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1898.32	105.16	Initial Hydro-static
2	181.46	109.40	Open To Flow (1)
7	429.94	115.04	Shut-in(1)
65	440.56	114.77	End Shut-in(1)
67	237.75	116.33	Open To Flow (2)
111	435.22	118.01	Shut-in(2)
201	441.80	117.70	End Shut-in(2)
203	1824.26	116.64	Final Hydro-static

## Recovery

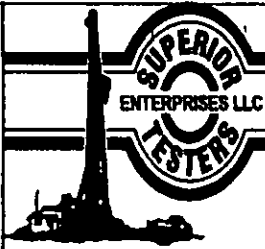
Length (ft)	Description	Volume (bbl)
420.00	Salt Water 100% Water	5.89
60.00	Very slightly oil cut w aster	0.84
0.00	2% Oil 98%	0.00
60.00	Slightly oil cut w ater	0.84
0.00	10% Oil 90% Water	0.00
60.00	Slightly Mud cut Watery Oil	0.84

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mcfd)
First Gas Rate	0.13	0.00	0.00
Last Gas Rate	0.50	0.62	4.18
Max. Gas Rate	0.13	10.00	3.74







# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Holl Company LLC  
 9431 East Suite 100  
 Wichita Kansas 67206+2536  
 ATTN: Rene Husted

Fleske/Hetzke Unit #1-1  
 1/20S/16W-  
 Job Ticket: 16106      DST#: 3  
 Test Start: 2010.08.16 @ 11:07:00

### Tool Information

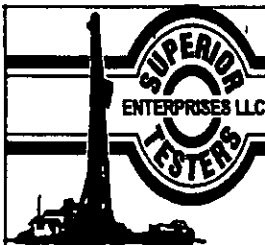
Drill Pipe:	Length: 3684.00 ft	Diameter: 3.80 inches	Volume: 51.68 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 51.68 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	27.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3681.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Length (ft)    Serial No.    Position    Depth (ft)    Accum. Lengths

Change Over Sub	1.00			3658.00	
Shut-In Tool	5.00			3663.00	
Hydroic Tool	5.00			3668.00	
Jars	6.00			3674.00	
Safety Joint	2.00			3676.00	
Packer	5.00			3681.00	24.00      Bottom Of Top Packer
Perforations	14.00			3695.00	
Recorder	1.00	4143	Inside	3696.00	
Recorder	1.00	8400	Outside	3697.00	
Bullhose	3.00			3700.00	19.00      Anchor Tool
<b>Total Tool Length:</b>	<b>43.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Holl Company LLC  
 9431 East Suite 100  
 Wichita Kansas 67206+2536  
 ATTN: Rene Husted

Fleske/Hetzke Unit #1-1  
 1/20S/16W-  
 Job Ticket: 16106      DST#: 3  
 Test Start: 2010.08.16 @ 11:07:00

## 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:	32000 ppm
Viscosity: 47.00 sec/qt	Cushion Volume: bbl		
Water Loss: 12.79 in <sup>2</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 8100.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
420.00	Salt Water 100% Water	5.891
60.00	Very slightly oil cut w aster	0.842
0.00	2% Oil 98%	0.000
60.00	Slightly oil cut w aster	0.842
0.00	10% Oil 90% Water	0.000
60.00	Slightly Mud cut Watery Oil	0.842
0.00	50% Oil 10% Mud 40% Water	0.000
60.00	Slightly Water cut Gassy Oil	0.842
0.00	40% Gas 50% Oil 10% Water	0.000
60.00	Slightly Water cut Gassy Oil	0.842
0.00	50% Gas 40% Oil 10% Water	0.000
60.00	Gassy Oil	0.842
0.00	60% Gas 40% Oil	0.000
60.00	Slightly mud cut Gassy Oil	0.842
0.00	45% Gas 45% Oil 10% Mud	0.000
60.00	Slightly water cut Gassy Oil	0.842
0.00	40% Gas 45% Oil 15% Water	0.000
5.00	Oil cut Mud	0.070
0.00	15% Oil 85% Mud	0.000
0.00	2580 Feet of gas in the pipe	0.000
0.00	Chlorides 32000	0.000
0.00	Resistivity .38@71Degrees	0.000

Total Length: 905.00 ft      Total Volume: 12.697 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments: Gas to surface in 16 minutes. See gas rate report -gas sample was taken

# DRILL STEM TEST REPORT

GAS RATES

F.G. Hall Company LLC

Fleske/Hetzke Unit #1-1

9431 East Suite 100  
Wichita Kansas 67206+2536

1/20S/16W-

Job Ticket: 16106

DST#: 3

ATTN: Rene Husted

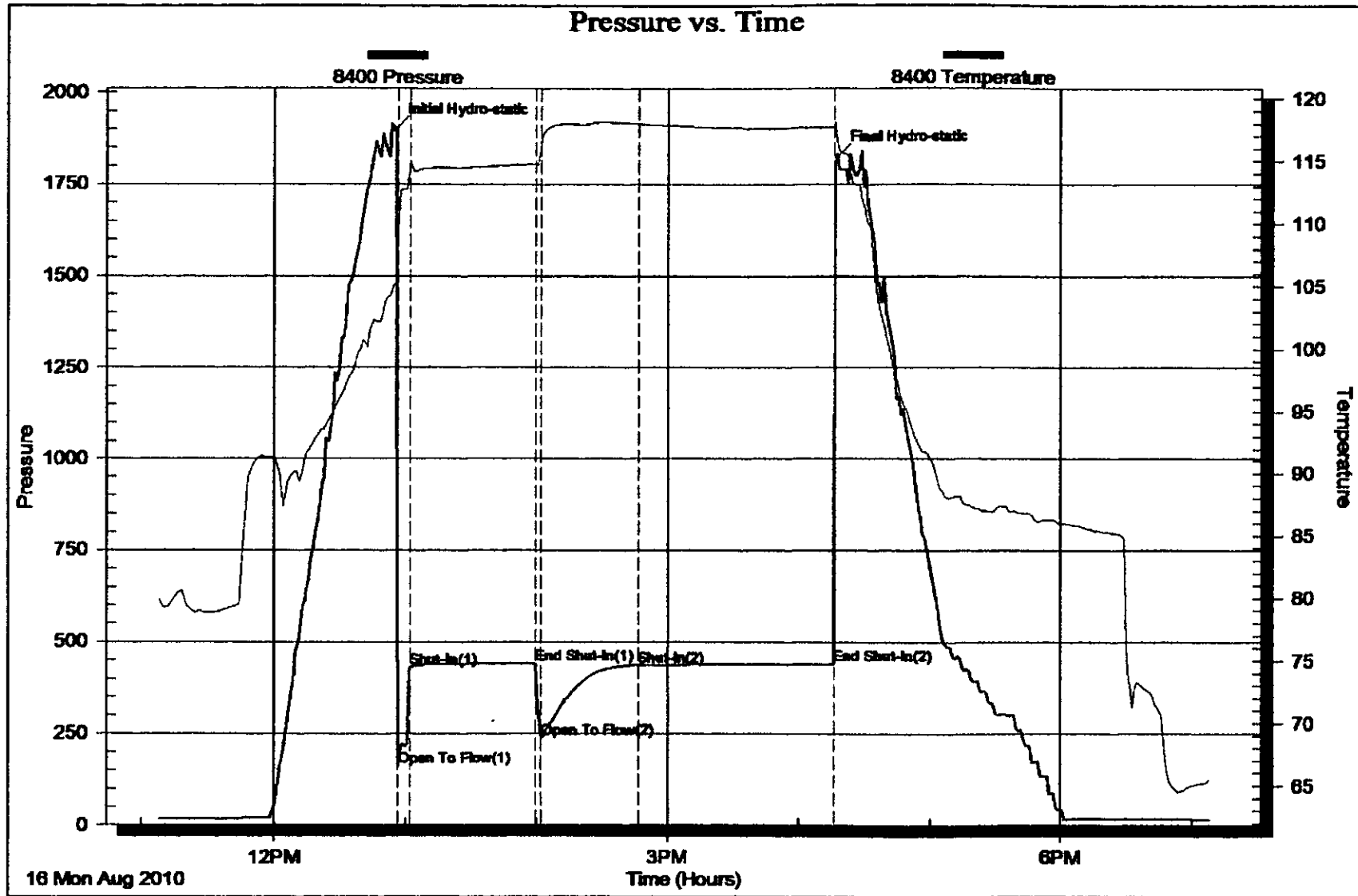
Test Start: 2010.08.16 @ 11:07:00

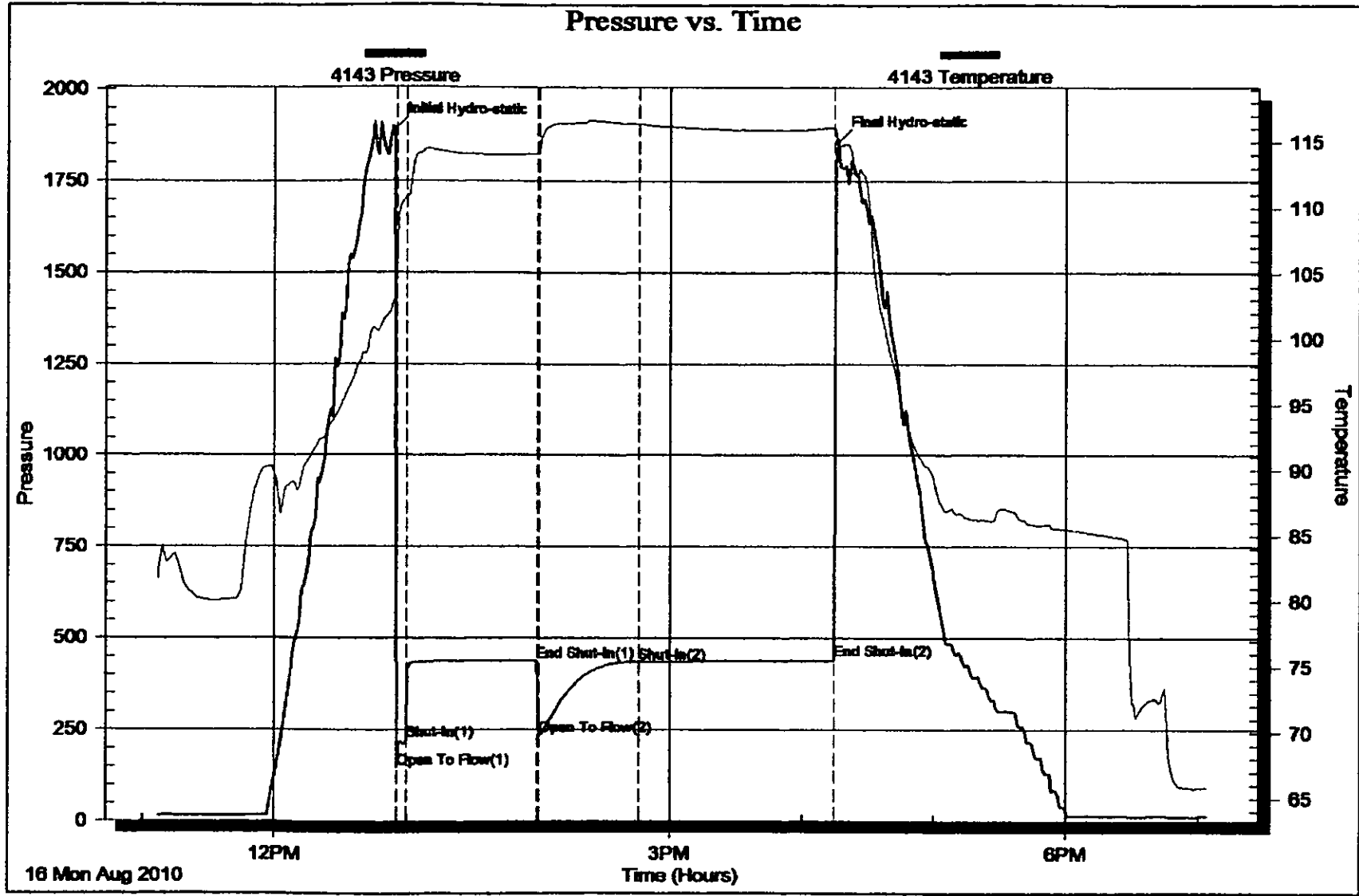
## Gas Rates Information

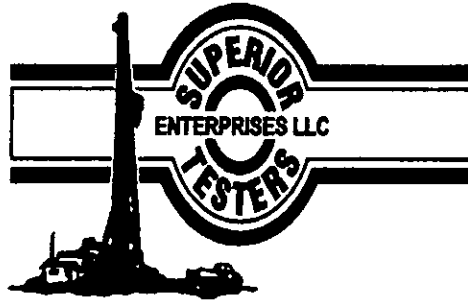
Temperature: 59 (deg F)  
Relative Density: 0.65  
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
1	16	0.13	0.00	0.00
1	16	0.13	0.00	0.00
2	21	0.13	10.00	3.74
3	26	0.25	4.30	6.82
4	31	0.50	0.62	4.18







## DRILL STEM TEST REPORT

Prepared For: **F.G. Holl Company LLC**

9431 East Suite 100  
Wichita Kansas 67206+2536

ATTN: Rene Hustead

**1/20S16W-**

**Fleske/Metzke Unit #1-1**

Start Date: 2010.08.17 @ 01:28:00

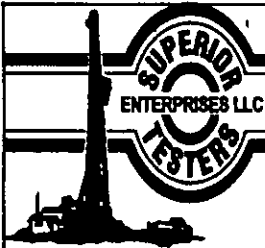
End Date: 2010.08.17 @ 09:01:30

Job Ticket #: 16107                      DST #: 4

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

Printed: 2010.08.17 @ 14:23:34

F.G. Holl Company LLC      Fleske/Metzke Unit #1-1      1/20S16W-      DST # 4      Arbuckle      2010.08.17



# DRILL STEM TEST REPORT

F.G. Holl Company LLC  
 9431 East Suite 100  
 Wichita Kansas 67206+2536  
 ATTN: Rene Husted

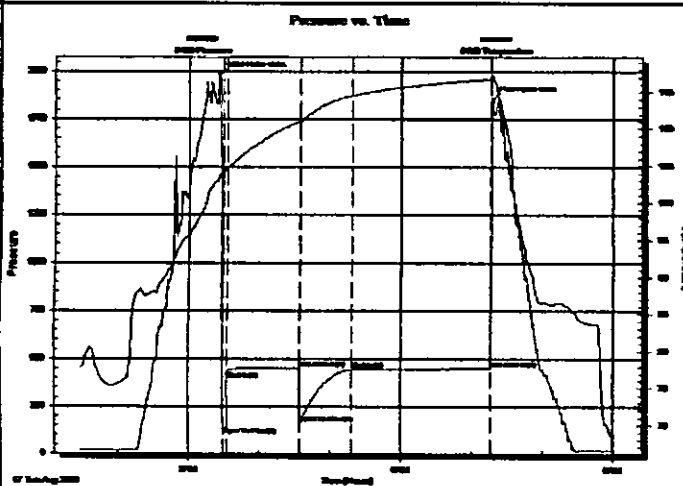
Fleske/Hetzke Unit #1-1  
 1/20S/16W-  
 Job Ticket: 16107      DST#: 4  
 Test Start: 2010.08.17 @ 01:28:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No Whipstock**      ft (KB)  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: **03:29:30**  
 Tester: **Dylan E Ellis**  
 Time Test Ended: **09:01:30**  
 Unit No: **3345-GB-30**  
 Interval: **3701.00 ft (KB) To 3710.00 ft (KB) (TVD)**  
 Reference Elevations: **1996.00 ft (KB)**  
**Total Depth: 3710.00 ft (KB) (TVD)**  
**1988.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 KB to GR/CF: **8.00 ft**

Serial #: **8400**      Outside  
 Press@RunDepth: **443.31 psia @ 3707.00 ft (KB)**      Capacity: **5000.00 psia**  
 Start Date: **2010.08.17**      End Date: **2010.08.17**      Last Calib.: **2010.08.17**  
 Start Time: **01:29:00**      End Time: **09:01:30**      Time On Btm: **2010.08.17 @ 03:26:00**  
 Time Off Btm: **2010.08.17 @ 07:17:00**

TEST COMMENT: 1ST Opening 5 Minutes Fair blow built to the bottom of a 5 gallon bucket in 2 minutes  
 1ST Shut-In 60 Minutes no blow back  
 2ND Opening 45 Minutes Fair blow built to the bottom of a 5 gallon bucket in 3 minutes  
 2ND Shut-In 90 Minutes no blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1981.47	103.94	Initial Hydro-static
4	94.98	104.13	Open To Flow (1)
7	393.52	104.77	Shut-In(1)
68	448.95	111.02	End Shut-In(1)
69	159.19	110.98	Open To Flow (2)
113	443.31	114.46	Shut-In(2)
230	447.58	116.79	End Shut-In(2)
231	1853.13	117.21	Final Hydro-static

## Recovery

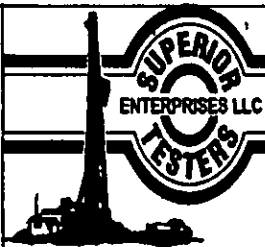
Length (ft)	Description	Volume (bbl)
60.00	Very thick heavy mud	0.84
230.00	Water with a trace of mud	3.23
0.00	1% Mud 99% Water	0.00
230.00	Muddy Water	3.23
0.00	40% Mud 60% Water	0.00
230.00	Muddy Water	3.23

## Gas Rates

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







# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Hall Company LLC  
 9431 East Suite 100  
 Wichita Kansas 67206+2536  
 ATTN: Rene Hustead

Fleske/Hatzke Unit #1-1  
 1/20S/16W-  
 Job Ticket: 16107      DST#: 4  
 Test Start: 2010.08.17 @ 01:28:00

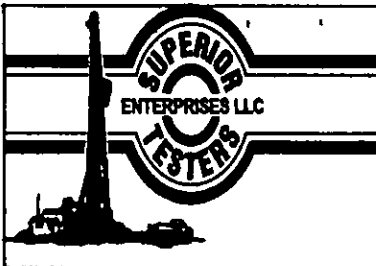
## Tool Information

Drill Pipe:	Length: 3685.00 ft	Diameter: 3.80 inches	Volume: 51.69 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 65000.00 lb
			<u>Total Volume: 51.69 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3701.00 ft			Final 430000.0 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3678.00	
Shut-In Tool	5.00			3683.00	
Hydroic Tool	5.00			3688.00	
Jars	6.00			3694.00	
Safety Joint	2.00			3696.00	
Packer	5.00			3701.00	24.00      Bottom Of Top Packer
Perforations	4.00			3705.00	
Recorder	1.00	4143	Inside	3706.00	
Recorder	1.00	8400	Outside	3707.00	
Bullnose	3.00			3710.00	9.00      Anchor Tool
<b>Total Tool Length:</b>	<b>33.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

F.G. Hall Company LLC

Fieske/Hetzke Unit #1-1

9431 East Suite 100  
Wichita Kansas 67206+2536

1/20S/16W-

Job Ticket: 16107

DST#: 4

ATTN: Rene Husted

Test Start: 2010.08.17 @ 01:28:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 47.00 sec/qt  
Water Loss: 12.79 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 8100.00 ppm  
Filter Cake: 1.00 inches

Cushion Type:  
Cushion Length: ft  
Cushion Volume: bbl  
Gas Cushion Type:  
Gas Cushion Pressure: psia

Oil API: deg API  
Water Salinity: 30000 ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Very thick heavy mud	0.842
230.00	Water with a trace of mud	3.226
0.00	1% Mud 99% Water	0.000
230.00	Muddy Water	3.226
0.00	40% Mud 60% Water	0.000
230.00	Muddy Water	3.226
0.00	55% Mud 45% Water	0.000
120.00	Mud with a trace of water	1.683
0.00	99% Mud 1% Water	0.000
0.00	Chlorides 30000	0.000
0.00	Resistivity .33ohms@71 degree	0.000

Total Length: 870.00 ft      Total Volume: 12.203 bbl

Num Fluid Samples: 0

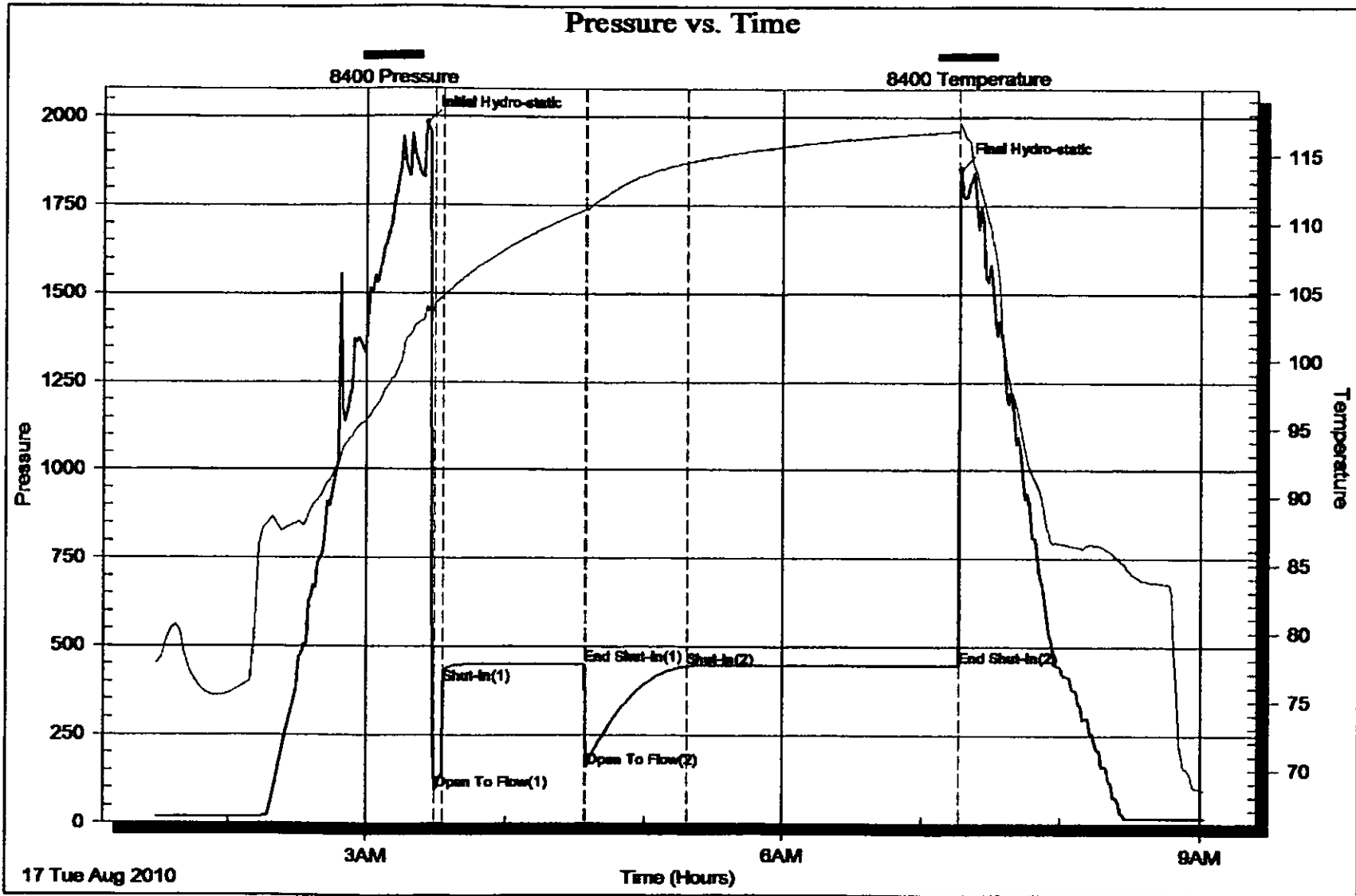
Num Gas Bombs: 0

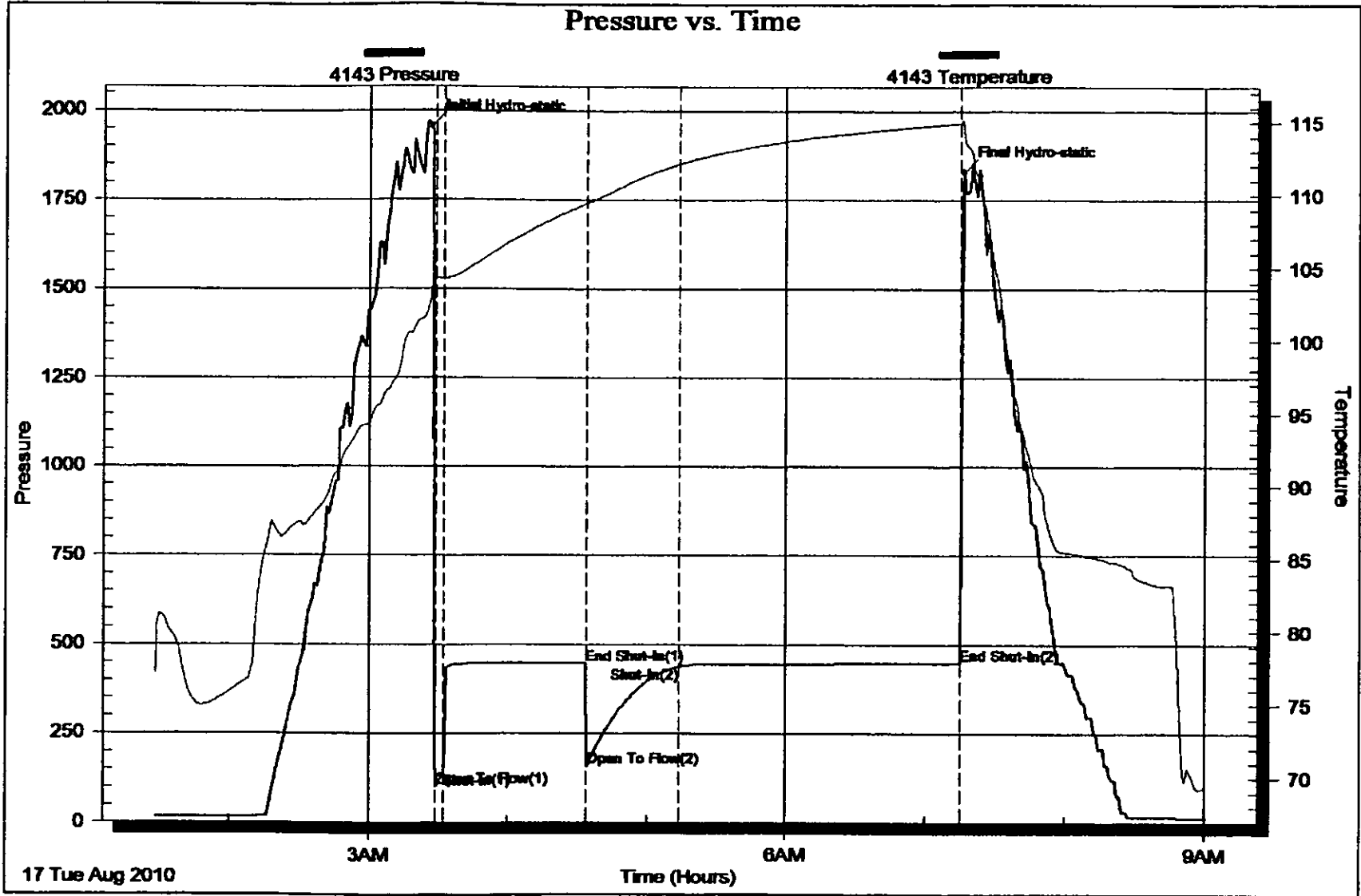
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

Prepared For: **F.G. Holl Company LLC**

9431 East Suite 100  
Wichita Kansas 67206+2536

ATTN: Rene Husted

**1/20S/16W-**

**Fleske/Hetzke Unit #1-1**

Start Date: 2010.08.17 @ 05:25:00

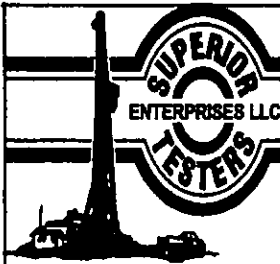
End Date: 2010.08.17 @ 00:00:00

Job Ticket #: 16108                      DST #: 5

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

Printed: 2010.08.18 @ 01:21:26

F.G. Holl Company LLC      Fleske/Hetzke Unit #1-1      1/20S/16W-      DST # 5      Arbuckle      2010.08.17



# DRILL STEM TEST REPORT

F.G. Holl Company LLC  
 9431 East Suite 100  
 Wichita Kansas 67206+2536  
 ATTN: Rene Husted

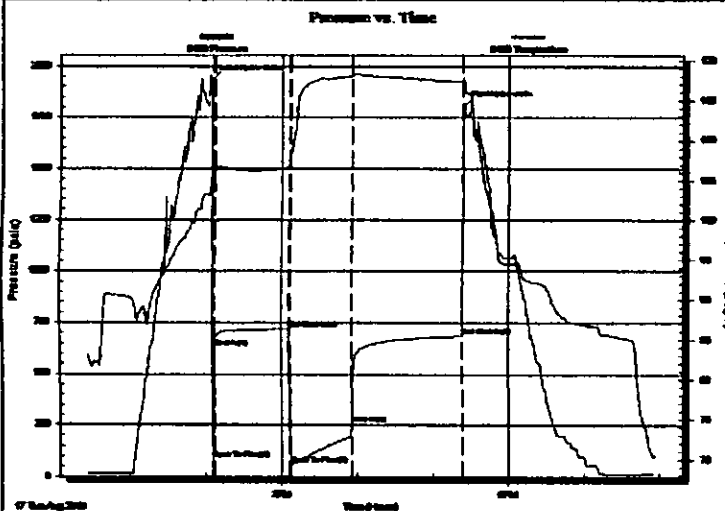
Fleske/Hetzke Unit #1-1  
 1/20S/16W-  
 Job Ticket: 16108 DST#: 5  
 Test Start: 2010.08.17 @ 12:25:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No Whipstock** ft (KB)  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Time Tool Opened: **14:05:23**  
 Tester: **Dylan E Ellis**  
 Time Test Ended: **19:55:53**  
 Unit No: **3345- GB-30**  
 Interval: **3711.00 ft (KB) To 3720.00 ft (KB) (TVD)**  
 Reference Elevations: **1996.00 ft (KB)**  
 Total Depth: **3720.00 ft (KB) (TVD)**  
**1988.00 ft (CF)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 KB to GR/CF: **8.00 ft**

Serial #: **8400** Outside  
 Press@RunDepth: **255.27 psia @ 3717.00 ft (KB)** Capacity: **5000.00 psia**  
 Start Date: **2010.08.17** End Date: **2010.08.17** Last Calib.: **2010.08.18**  
 Start Time: **12:26:00** End Time: **19:55:53** Time On Btrn: **2010.08.17 @ 14:04:23**  
 Time Off Btrn: **2010.08.17 @ 17:24:23**

TEST COMMENT: 1ST Opening 1 Minute Strong blow built to the bottom of a 5 gallon bucket immediately  
 1ST Shut-in 60 Minutes good blow back  
 2ND Opening 45 Minutes Strong blow built to the bottom of a 5 gallon bucket immediately  
 2ND Shut-in 90 Minutes fair blow back



## PRESSURE SUMMARY

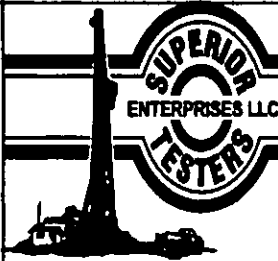
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1936.98	104.83	Initial Hydro-static
1	85.04	105.19	Open To Flow (1)
3	627.59	106.41	Shut-in(1)
62	719.19	106.55	End Shut-in(1)
63	63.29	108.38	Open To Flow (2)
111	255.27	118.17	Shut-in(2)
199	685.46	117.42	End Shut-in(2)
200	1809.89	117.21	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	100% Water	4.21
60.00	Muddy Water 50%Mud 50%Water	0.84
5.00	Mud with a trace of water	0.07
0.00	98% Mud 2% Water	0.00
0.00	Chlorides 31000	0.00
0.00	Resistivity is .39@74	0.00

## Gas Rates

	Choke (Inches)	Pressure (psia)	Gas Rate (Mc/d)
First Gas Rate	0.13	0.00	0.00
Last Gas Rate	0.25	4.37	6.93
Max. Gas Rate	0.25	5.42	8.60



# DRILL STEM TEST REPORT

F.G. Holl Company LLC  
 9431 East Suite 100  
 Wichita Kansas 67206+2536  
 ATTN: Rene Husted

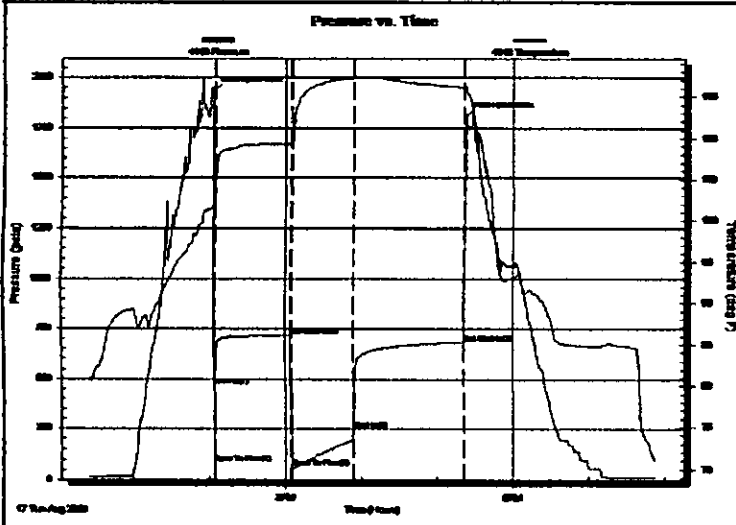
Fleske/Hetzke Unit #1-1  
 1/20S/16W-  
 Job Ticket: 16108      DST#: 5  
 Test Start: 2010.08.17 @ 12:25:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No Whipstock**      ft (KB)  
 Time Tool Opened: 14:05:23  
 Time Test Ended: 19:55:53  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Dylan E Ellis**  
 Unit No: **3345- GB-30**  
 Interval: **3711.00 ft (KB) To 3720.00 ft (KB) (TVD)**  
 Total Depth: **3720.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Reference Elevations: **1996.00 ft (KB)**  
**1988.00 ft (CF)**  
 KB to GR/CF: **8.00 ft**

Serial #: **4143**      Inside  
 Press@RunDepth: **683.47 psia @ 3716.00 ft (KB)**      Capacity: **5000.00 psia**  
 Start Date: **2010.08.17**      End Date: **2010.08.17**      Last Calib.: **2010.08.18**  
 Start Time: **12:25:01**      End Time: **19:53:18**      Time On Btm: **2010.08.17 @ 14:02:46**  
 Time Off Btm: **2010.08.17 @ 17:22:46**

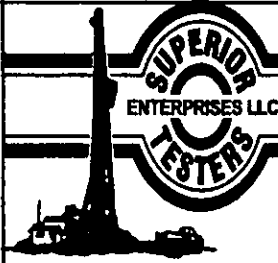
TEST COMMENT: 1ST Opening 1 Minute Strong blow built to the bottom of a 5 gallon bucket immediately  
 1ST Shut-in 60 Minutes good blow back  
 2ND Opening 45 Minutes Strong blow built to the bottom of a 5 gallon bucket immediately  
 2ND Shut-in 90 Minutes fair blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1931.44	101.75	Initial Hydro-static
1	84.14	102.94	Open To Flow (1)
2	481.76	105.22	Shut-in(1)
62	715.98	109.35	End Shut-in(1)
63	61.92	108.57	Open To Flow (2)
111	244.17	117.28	Shut-in(2)
199	683.47	116.06	End Shut-in(2)
200	1810.86	116.06	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
300.00	100% Water	4.21
60.00	Muddy Water 50%Mud 50%Water	0.84
5.00	Mud with a trace of water	0.07
0.00	98% Mud 2% Water	0.00
0.00	Chlorides 31000	0.00
0.00	Resistivity is .39@74	0.00

Gas Rates			
	Choke (inches)	Pressure (psia)	Gas Rate (Mc/d)
First Gas Rate	0.13	0.00	0.00
Last Gas Rate	0.25	4.37	6.93
Max. Gas Rate	0.25	5.42	8.60



# DRILL STEM TEST REPORT

TOOL DIAGRAM

F.G. Hoff Company LLC  
 9431 East Suite 100  
 Wichita Kansas 67206+2538  
 ATTN: Rene Husted

Fleske/Hetzke Unit #1-1  
 1/20S/16W-  
 Job Ticket: 16108      DST#: 5  
 Test Start: 2010.08.17 @ 12:25:00

## Tool Information

Drill Pipe:	Length: 3712.00 ft	Diameter: 3.80 inches	Volume: 52.07 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 56000.00 lb
			Total Volume: 52.07 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 42000.00 lb
Depth to Top Packer:	3711.00 ft			Final 43000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	38.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

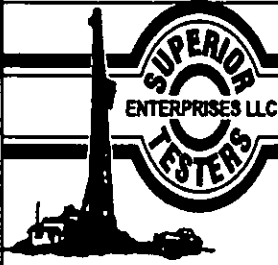
Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3683.00	
Shut-In Tool	5.00			3688.00	
Hydroic Tool	5.00			3693.00	
Jars	6.00			3699.00	
Safety Joint	2.00			3701.00	
Packer	5.00			3706.00	29.00 Bottom Of Top Packer
Packer	5.00			3711.00	
Perforations	4.00			3715.00	
Recorder	1.00	4143	Inside	3716.00	
Recorder	1.00	8400	Outside	3717.00	
Bullnose	3.00			3720.00	9.00 Bottom Packers & Anchor

**Total Tool Length: 38.00**





# DRILL STEM TEST REPORT

**FLUID SUMMARY**

F.G. Holl Company LLC  
 9431 East Suite 100  
 Wichita Kansas 67206+2536  
 ATTN: Rene Husted

Fleske/Hetzke Unit #1-1  
 1/20S/16W-  
 Job Ticket: 16108      DST#: 5  
 Test Start: 2010.08.17 @ 12:25:00

## Mud and Cushion Information

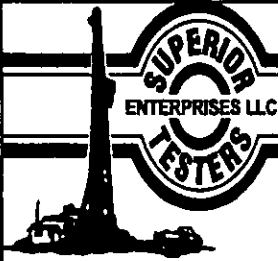
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length:	Water Salinity:	31000 ppm
Viscosity: 48.00 sec/qt	Cushion Volume:		
Water Loss: 13.18 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure:		
Salinity: 9500.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	100% Water	4.208
60.00	Muddy Water 50%Mud 50%Water	0.842
5.00	Mud with a trace of water	0.070
0.00	98% Mud 2% Water	0.000
0.00	Chlorides 31000	0.000
0.00	Resistivity is .39@74	0.000

Total Length: 365.00 ft      Total Volume: 5.120 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 LLC  
9431 East Suite 100  
Wichita Kansas 67206+2536  
ATTN: Rene Husted

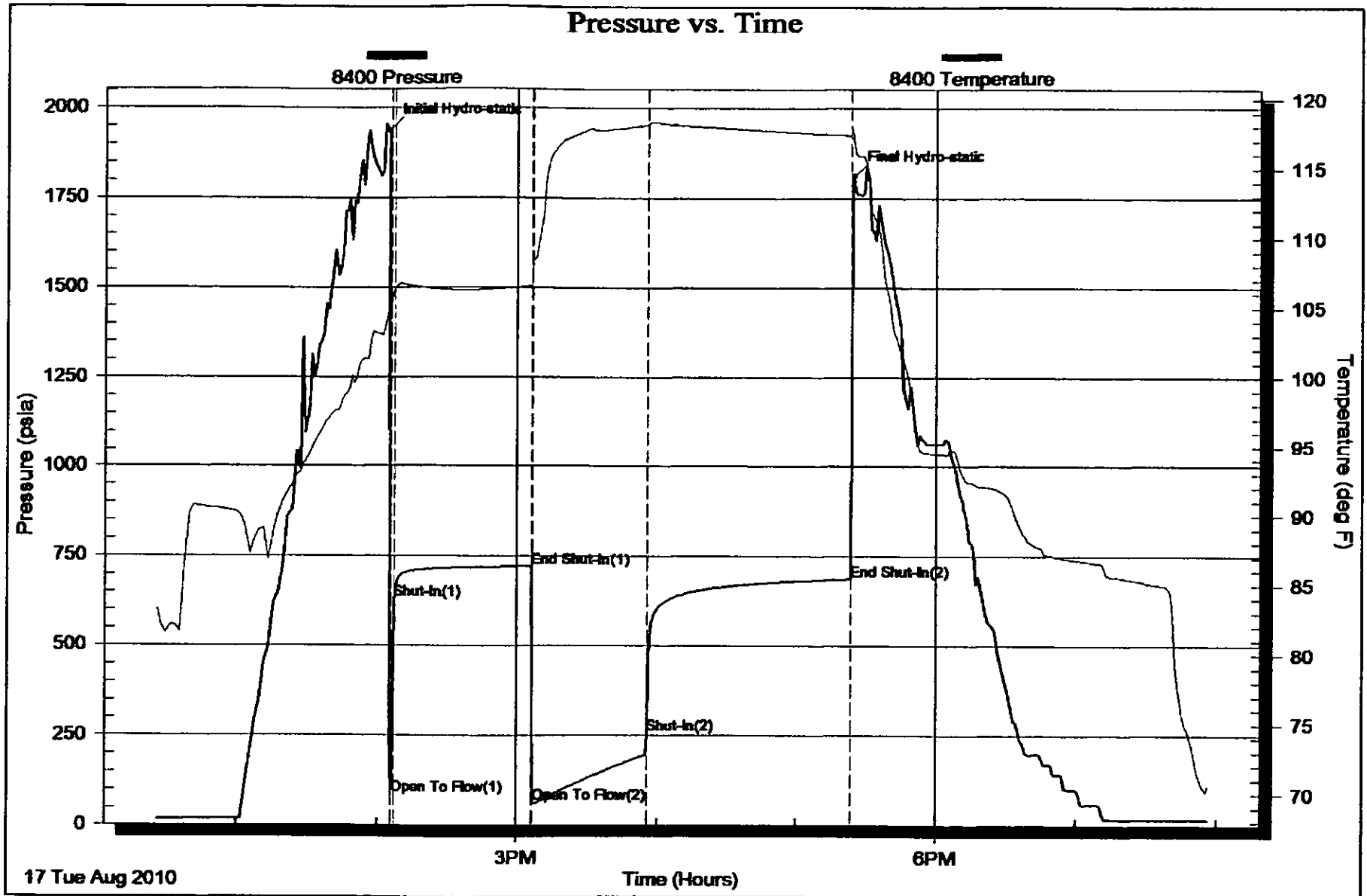
Fleske/Hetzke Unit #1-1  
1/20S/16W-  
Job Ticket: 16108      DST#: 5  
Test Start: 2010.08.17 @ 12:25:00

## 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)
1	20	0.13	0.00	0.00
2	25	0.25	5.42	8.60
3	30	0.50	0.00	0.00
4	35	0.25	4.28	6.79
5	40	0.25	4.80	7.62
6	45	0.25	4.37	6.93



17 Tue Aug 2010

3PM

Time (Hours)

6PM

