

CONFIDENTIAL

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

ORIGINAL

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

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

2/18/13

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: Ryan Greenbaum  
Purchaser: None

KCC

FEB 18 2011

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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 #:

01/15/2011	01/24/2011	01/24/2011
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15- 15-165-21912-00-00  
Spot Description: 10' W. OF  
S/2 S/2 SE Sec. 32 Twp. 19 S. R. 16  East  West  
330 Feet from  North /  South Line of Section  
1,330 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE  NW  SE  SW  
County: Rush  
Lease Name: OETKEN "A" Well #: 1-32  
Field Name: Rutherford Extension  
Producing Formation: None  
Elevation: Ground: 2043' Kelly Bushing: 2051'  
Total Depth: 3950' Plug Back Total Depth: None  
Amount of Surface Pipe Set and Cemented at: 1109' 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

(Date must be collected from the Reserve Pit)

Chloride content: 37,000 ppm Fluid volume: 500 bbls

Dewatering method used: Hauled free fluids to SWD

Location of fluid disposal if hauled offsite:

Operator Name: Pauls Oilfield Service, INC.

Lease Name: DIPMAN SWD License #: 31085

Quarter SW Sec. 34 Twp. 21 S. R. 16  East  West

County: Pawnee Permit #: D-03589

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.

Signature: [Signature]  
Title: Exploration Manager Date: 02/14/2011

RECEIVED  
KCC Office Use ONLY  
 Letter of Confidentiality Received Date: 2/15/11 - 2/15/13  
 Confidential Release Date:  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution  
ALT  I  II  III Approved by: [Signature] Date: 2-11



OETKEN "A" NO. 1-32  
RUSH COUNTY, KANSAS

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Formation	Sample	Datum	E-Log	Datum
Anhydrite			1106	+945
Herrington			1996	+55
Krider			2016	+35
Winfield			2046	+5
Towanda			2110	-59
Fort Riley			2151	-100
B/Florence			2262	-211
Kinney Ls			2278	-227
Wrefold			2312	-261
Council Grove			2329	-278
Crouse			2368	-317
Neva			2508	-457
Red Eagle			2571	-520
Onaga Shale			2727	-676
Wabaunsee			2744	-693
Root Shale			2794	-743
Stotler			2855	-804
Tarkio			2914	-863
Howard			3051	-1000
Severy Shale			3144	-1093
Topeka			3150	-1099
Heebner			3387	-1336
Toronto			3405	-1354
Douglas Sh.			3417	-1366
Brown lime			3459	-1408
LKC			3472	-1421
BKC			3713	-1662
Conglomerate			3769	-1718
Arbuckle			3816	-1765
RTD			4400	-2349

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# Mud-Co / Service Mud Inc.

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Operator FG Holl County Rush State Kansas Pump 6 X 14 X 60 SPM  
Well Oetken A #1-32 Location 2043 GL GPM 7.75 BRM  
Contractor Duke #8 Sec 32 TWP 19S RNG 16W D.P. 4.5 in. 191 FT/MIN R.A.  
Stockpoint Pratt, Ks. Date 1/15/2011 Engineer Rick Hughes Collar 6.25 in. 495 ft. 348 FT/MIN R.A.

8 5/8" @ 1109  
" @  
" @  
Total Depth 4400

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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	Ca ppm		Solids %	Oil %	Water %					
1/15	0																				
1/16	1109	10.2	44																0	RURT Lost partial returns approx	
1/17	1418	8.9	28																2	Dummy Trip 200' ( 50-100 bbls)	
1/18	2422	9.4	41	6	22	24/33	7.0	10.0	2		23,000	N/C	6.5		93.5					Drg. Displace w/Starch at 1857	
1/19	3076	8.8	46	13	10	8/26	11.5	8.0	1		4,200	20	3.4		96.6					Drg. Displace w/chemical at	
1/20	3760	9.5	81	15	23	33/91	9.0	9.6	1		7,100	20	8.1		91.9					Drg. ~3000	
1/21	3820	9.2	69	18	18	34/73	10.5	9.6	1		7,000	60	6.0		94.0					CCH	
1/22	3921	9.3	61	15	22	38/78	11.0	9.2	1		6,900	60	6.7		93.3	1				TI w/DST #1 DST #2 @ 3830	
1/23	4350	9.5	62	18	18	23/66	11.0	8.8	1		5,900	20	7.8		92.2	2				Drg.	
1/24	4400	9.5	75	23	20	18/63	10.5	8.4	1		6,700	40	8.1		91.9					CCH DST #3 @ 4350	
1/25	4400																			Logging	
																					Final: LTD - 4399'. 3 DST's. Logs Ok.
																					Plugged Well.
																					Reserve Pit, Chl content ppm: 37,000
																					Estimated Volume: 500 bbls

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	Amount
C/S HULLS	110					
CAUSTIC SODA	19					
DRILL PAK	8					
MIL-GUARD	2					
PREMIUM GEL	440					
SALT CLAY	20					
SODA ASH	25					
STARCH	53					
SUPER LIG	12					
						Total Mud Cost
						Trucking Cost
						Trucking Surcharge
						Taxes
						<b>TOTAL COST</b>



**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 03458 A

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

DATE OF JOB: 1-16-11	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: F. G. Hull	LEASE: DETKEN A	WELL NO: 1-32					
ADDRESS:	COUNTY: Rush	STATE: KS					
CITY:	STATE:	SERVICE CREW: Orlando Veatch, M'Graw, Pierce					
AUTHORIZED BY:	JOB TYPE: CBW 8 3/8 Surface						
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE: 1-16-11 TIME: 11:00 AM
27283	1					ARRIVED AT JOB	AM 1:30
27463	1					START OPERATION	AM 4:45
19826-19860	1					FINISH OPERATION	AM 5:45
19960-19918	1					RELEASED	AM 6:15
						MILES FROM STATION TO WELL	65

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/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP101	Acon Blend	SK	250		
CP100	Common	SK	200		
CC102	Cellulose	Lb	113		
CC109	Calcium Chloride	Lb	1269		
CC200	Cement 60	Lb	376		
CE105	Top Rubber Plug 8 5/8"	ea	1		
CE125	Centralizers 8 5/8"	ea	3		
E100	Pickup Mileage	mi	65		
E101	Heavy Equipment Mileage	mi	195		
E113	Bulk Delivery	Tn	1375		
CE203	Depth Charge 1001-2000'	ea	1		
CE240	Cement Service Charge	SK	450		
CE504	Plug Container	ea	1		
S003	Service Supervisor	ea	1		

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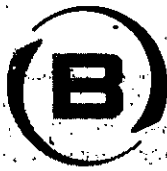
SUB-TOTAL  
DLS

CHEMICAL / ACID DATA:			

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



**BASIC**

ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

KCC  
FEB 18 2011 1718 03397 A

FIELD SERVICE TICKET

32-195-16W

CONFIDENTIAL  
DATE

TICKET NO.

DATE OF JOB: 1-24-11		DISTRICT: Pratt, Kansas		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.G. Holl Company, LLC.				LEASE: Oetken "A"				WELL NO: 1-32	
ADDRESS:				COUNTY: Rush		STATE: Kansas			
CITY:				STATE:		SERVICE CREW: Messick, C. Veatch, J. Hunter			
AUTHORIZED BY:				JOB TYPE: C.U.W. - Plug To Abandon					
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37,216	4.25						1-24-11	AM	3:00
						ARRIVED AT JOB		AM	5:15
27,463	4.25					START OPERATION		AM	5:45
						FINISH OPERATION		AM	10:00
19,960-19,918	4.25					RELEASED		AM	10:30
						MILES FROM STATION TO WELL			65

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
CP 103	60/40 Poz Cement	sk	210		
CC 200	Cement Gel	Lb	396		
E 100	Pickup Mileage	mi	65		
E 101	Heavy Equipment Mileage	mi	130		
E 113	Bulk Delivery	t.m	644		
CE 204	Cement Pump: 3,000 Feet To 4,000 Feet	hrs	4		
CE 240	Blending and Mixing service	sk	210		
S 003	Service Supervisor	Job	1		

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SUB TO DL

CHEMICAL / ACID DATA:


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

TOTAL

SERVICE REPRESENTATIVE: Vanessa R. Maxwell

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY:

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

KCC  
FEB 18 2011

## TREATMENT REPORT

Customer F.G. Holl Company, LLC.	Lease No.	Date 1-24-11	
Lease Oetken "A"	Well # 1-32	CONFIDENTIAL	
Field Order # 3397	Station Pratt, Kansas	Casing 1 1/2" Drill Pipe	Depth Pipe
Type Job C.N.W. - Plug To Abandon	County Rush	Formation	State Kansas
		Legal Description 32-195-16W	

PIPE DATA		PERFORATING DATA		CEMENT USED	TREATMENT RESUME		
Casing Size	Tubing Size	Shts Dr		210 sacks 60/40	DATE	PRESS	ISIP
	1 1/2" Drill Pipe			48 Gel	Max		5 Min.
Depth	Depth	From	To	13.8 Lb/Gal., 6.12 Gal/st.			10 Min.
Volume	Volume	From	To				15 Min.
Max Press	Max Press	From	To				
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Freshwater and Drilling Mud	Gas Volume	Total Load

Customer Representative Steve Stephens	Station Manager David Scott	Treater Clarence R. Messick
Service Units 3726	27463	19960
Driver Names Messick	Veatch	Hunter

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
5:15					Trucks on location and hold safety meeting. KCC WICHITA
5:45		450		6	1 <sup>st</sup> /Plug 3,790 Feet / 50 sacks cement
		500	20	5	Start Fresh Water Pre-Flush.
		300	32	6	Start mixing cement.
		200	42	6	Start Fresh Water Displacement.
6:00	-0-		80		Start Drilling mud Displacement.
					stop pumping.
7:35		300		5	2 <sup>nd</sup> /Plug 1,140 Feet / 50 sacks
		350	15	5	start Fresh Water Pre-Flush.
		200	27	5	Start mixing cement
7:43	-0-		34		Start Fresh Water Displacement.
					Stop pumping.
8:07		200		5	3 <sup>rd</sup> /Plug 500 Feet / 40 sacks
		100	10	5	start mixing cement.
8:10	-0-		11		Start Fresh Water Displacement.
					stop pumping.
				3	4 <sup>th</sup> /Plug 60 Feet / 20 sacks
9:45	-0-		5		start mixing cement.
	-0-		7-5	3	cement circulated to surface. Stop pumping.
					Plug Rat and Mouse holes.
10:30					Washup pump truck.
					Job Complete.



## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

**32-19s-16w Rush**

**Oetken "A" 1-32**

Start Date: 2011.01.21 @ 08:16:00

End Date: 2011.01.21 @ 13:08:00

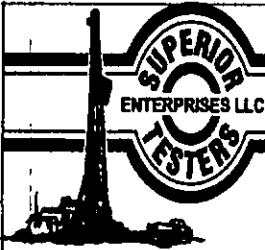
Job Ticket #: 15762                      DST #: 1

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

Printed: 2011.01.24 @ 10:18:03

F.G.Holl Company L.L.C.      Oetken "A" 1-32      32-19s-16w Rush      DST # 1      Arbuckle      2011.01.21





# DRILL STEM TEST REPORT

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

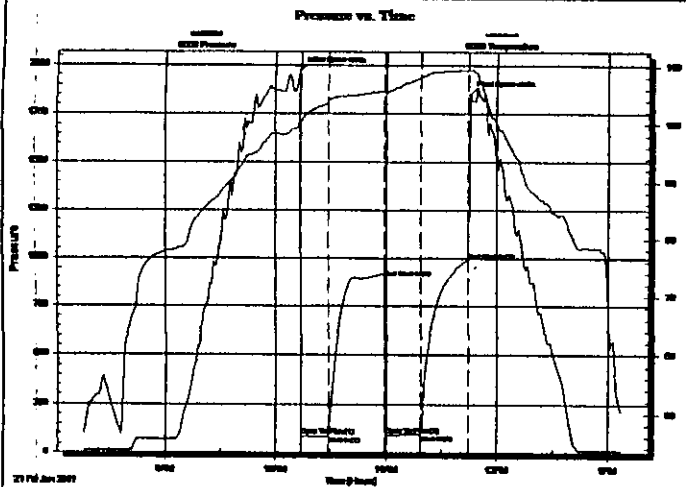
Oetken "A" 1-32  
 32-19s-16w Rush  
 Job Ticket: 15762 DST#: 1  
 Test Start: 2011.01.21 @ 08:16:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No Whipstock:** ft (KB)  
 Time Tool Opened: 10:14:00  
 Time Test Ended: 13:08:00  
 Interval: **3705.00 ft (KB) To 3820.00 ft (KB) (TVD)**  
 Total Depth: **3820.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Gene Budig**  
 Unit No: **3335-42**  
 Reference Elevations: **2051.00 ft (KB)**  
**2043.00 ft (CF)**  
 KB to GRVCF: **8.00 ft**

**Serial #: 6666** Inside  
 Press@RunDepth: **98.09 psia @ 3815.86 ft (KB)** Capacity: **5000.00 psia**  
 Start Date: **2011.01.21** End Date: **2011.01.21** Last Calb.: **2011.01.21**  
 Start Time: **08:16:00** End Time: **13:08:00** Time On Btm: **2011.01.21 @ 10:13:30**  
 Time Off Btm: **2011.01.21 @ 11:45:30**

**TEST COMMENT:** 1st Opening 15 Minutes very weak surface blow through out  
 1st Shut-in 30 Minutes No blow back  
 2nd Opening 15 Minutes-Very weak surface blow for 7 minutes and died  
 2nd Shut-in 30 Minutes-No blow back



## PRESSURE SUMMARY

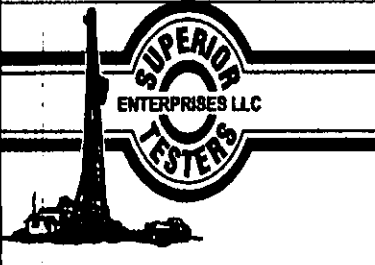
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1972.48	100.44	Initial Hydro-static
1	84.97	100.36	Open To Flow (1)
16	87.43	103.88	Shut-in(1)
46	897.55	105.68	End Shut-in(1)
46	90.67	105.46	Open To Flow (2)
65	98.09	108.01	Shut-in(2)
92	983.16	109.36	End Shut-in(2)
92	1847.10	109.40	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling Mud	0.56

## Gas Rates

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



# DRILL STEM TEST REPORT

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

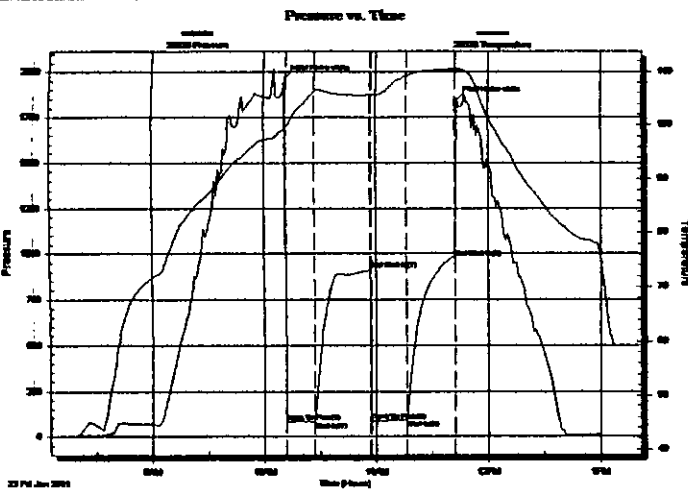
Oetken "A" 1-32  
 32-19s-16w Rush  
 Job Ticket: 15762      DST#: 1  
 Test Start: 2011.01.21 @ 08:16:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: No Whipstock:      ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 10:14:00      Tester: Gene Budig  
 Time Test Ended: 13:08:00      Unit No: 3335-42  
 Interval: 3705.00 ft (KB) To 3820.00 ft (KB) (TVD)      Reference Elevations: 2051.00 ft (KB)  
 Total Depth: 3820.00 ft (KB) (TVD)      2043.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair      KB to GR/CF: 8.00 ft

**Serial #: 29636**      **Outside**  
 Press@RunDepth: 977.08 psia @ 3816.86 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2011.01.21      End Date: 2011.01.21      Last Calib.: 2011.01.21  
 Start Time: 08:19:30      End Time: 13:07:30      Time On Btm: 2011.01.21 @ 10:11:30  
 Time Off Btm: 2011.01.21 @ 11:43:30

**TEST COMMENT:** 1st Opening 15 Minutes very weak surface blow through out  
 1st Shut-In 30 Minutes No blow back  
 2nd Opening 15 Minutes-Very weak surface blow for 7 minutes and died  
 2nd Shut-In 30 Minutes-No blow back



## PRESSURE SUMMARY

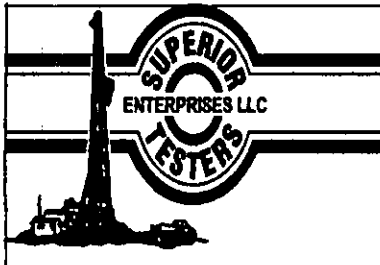
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1966.42	99.27	Initial Hydro-static
1	77.98	99.47	Open To Flow (1)
16	82.29	106.18	Shut-In(1)
46	911.02	105.64	End Shut-In(1)
46	84.18	105.64	Open To Flow (2)
65	92.19	109.14	Shut-In(2)
91	977.08	110.49	End Shut-In(2)
92	1847.44	110.50	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
40.00	Drilling Mud	0.56

## 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: Ryan Greenbaum

Oetken "A" 1-32  
 32-19s-16w Rush  
 Job Ticket: 15762      DST#: 1  
 Test Start: 2011.01.21 @ 08:16:00

### Tool Information

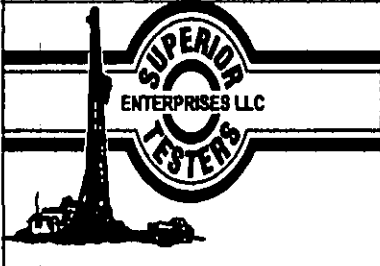
Drill Pipe:	Length: 3693.00 ft	Diameter: 3.80 inches	Volume: 51.80 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 2.86 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<u>Total Volume: 51.80 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3705.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	114.88 ft			
Tool Length:	142.86 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3682.00	
Hydrolic Tool	5.00			3687.00	
Jars	6.00			3693.00	
Safety Joint	2.00			3695.00	
Packer	5.00			3700.00	28.00      Bottom Of Top Packer
Packer	5.00			3705.00	
Perforations	5.00			3710.00	
Change Over Sub	0.75			3710.75	
Drill Pipe	94.36			3805.11	
Change Over Sub	0.75			3805.86	
Perforations	9.00			3814.86	
Recorder	1.00	6666	Inside	3815.86	
Recorder	1.00	95172	Outside	3816.86	
Bull Plug	3.00			3819.86	114.86      Bottom Packers & Anchor

**Total Tool Length: 142.86**



# DRILL STEM TEST REPORT

FLUID SUMMARY

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

Oetken "A" 1-32  
32-19s-16w Rush  
Job Ticket: 15762      DST#: 1  
Test Start: 2011.01.21 @ 08:16:00

## Mud and Cushion Information

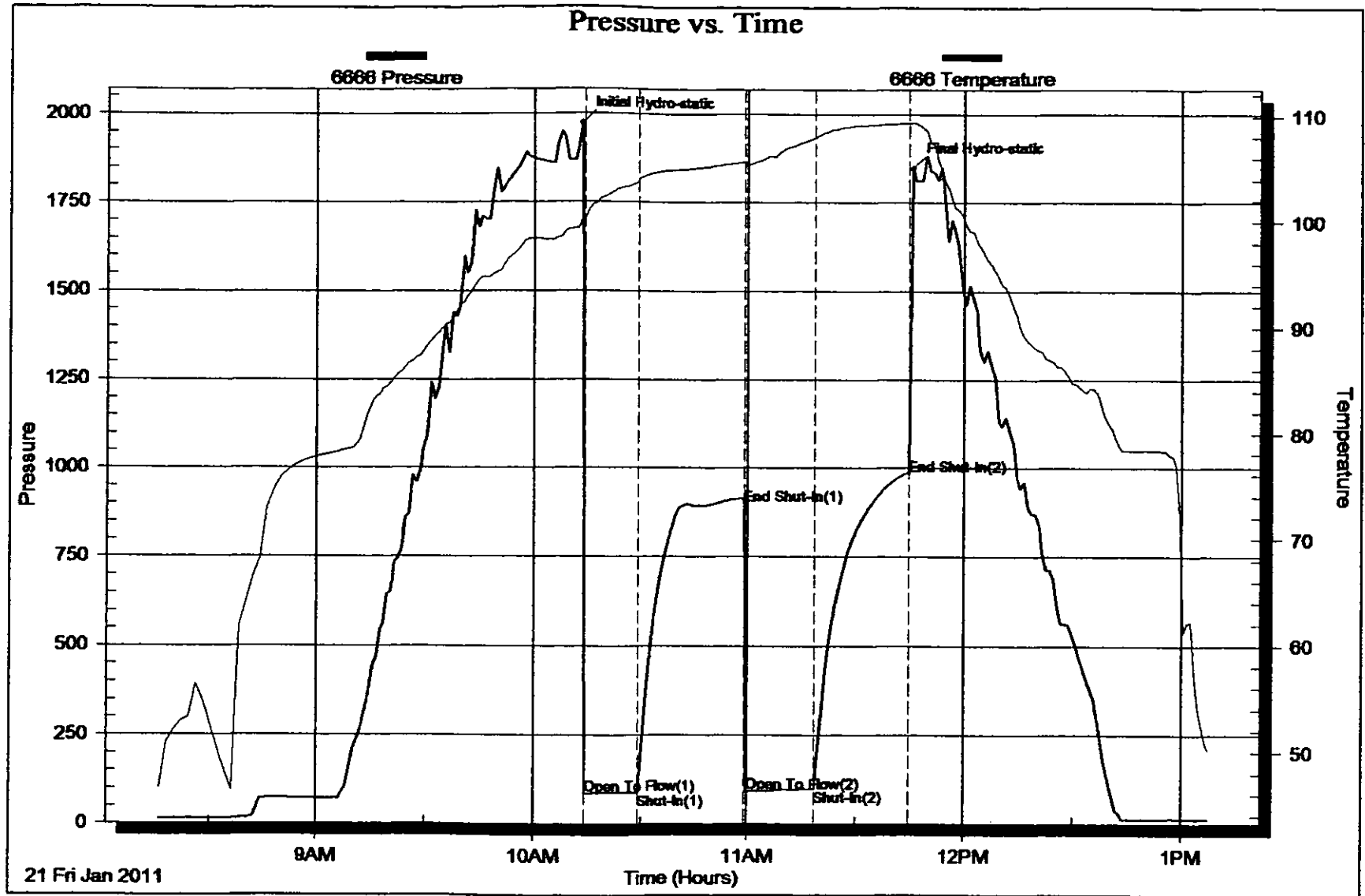
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 9.58 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7000.00 ppm			
Filter Cake: 1.00 inches			

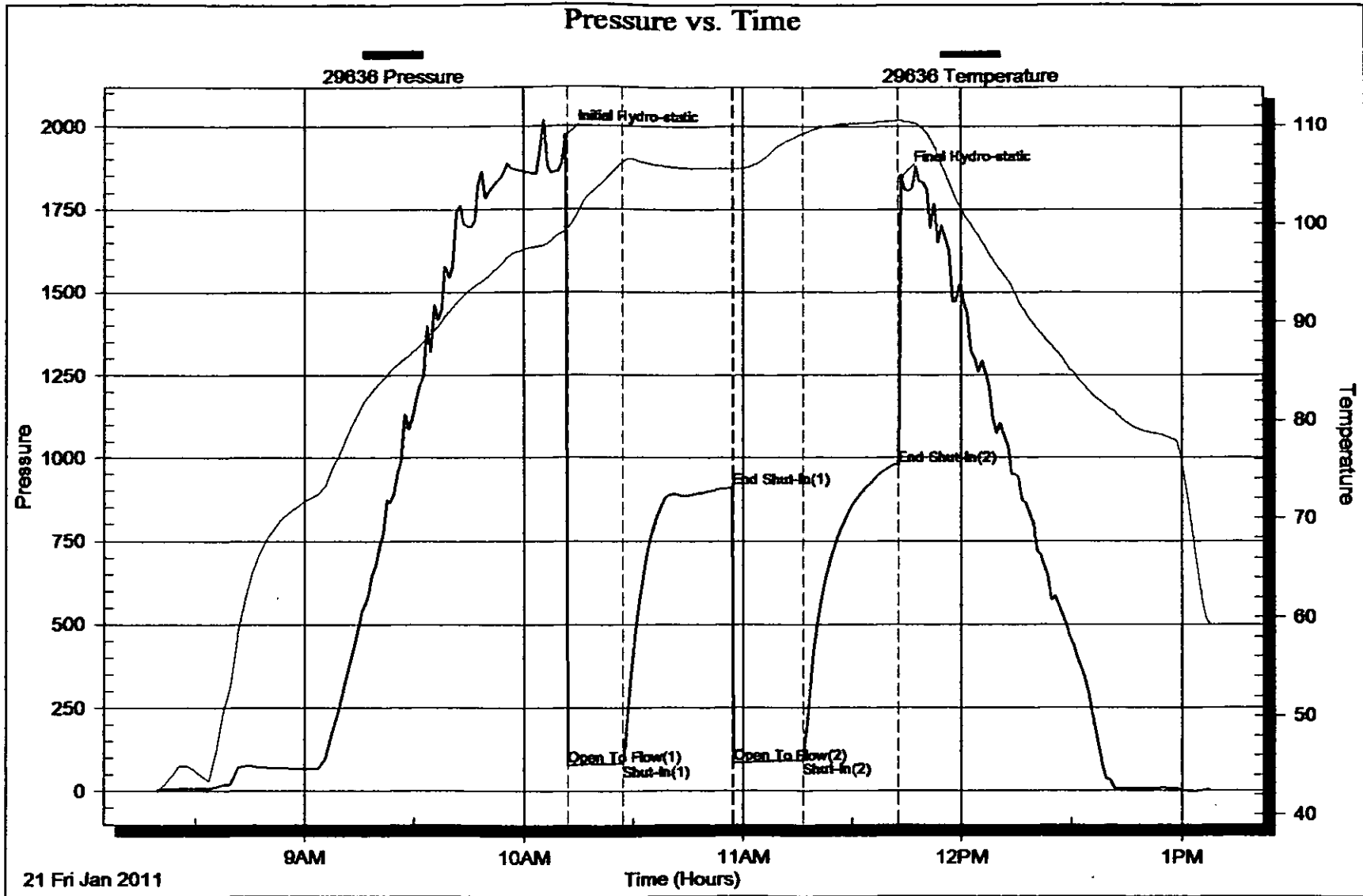
## Recovery Information

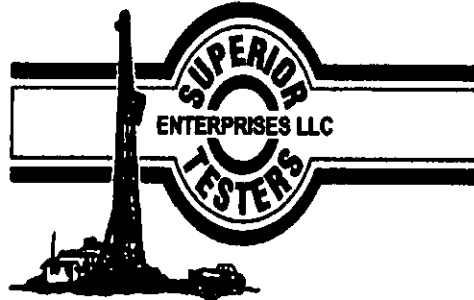
Recovery Table

Length ft	Description	Volume bbl
40.00	Drilling Mud	0.561

Total Length: 40.00 ft      Total Volume: 0.561 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 L.L.C.**

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

**32-19s-16w Rush**

**Oetken "A" 1-32**

Start Date: 2011.01.21 @ 08:00:00

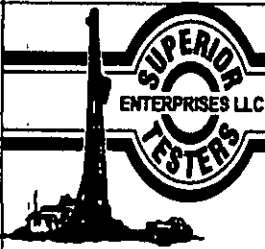
End Date: 2011.01.21 @ 10:30:00

Job Ticket #: 15763                      DST #: 2

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

Printed: 2011.01.24 @ 10:17:50

F.G.Holl Company L.L.C.      Oetken "A" 1-32      32-19s-16w Rush      DST # 2      Arbuckle      2011.01.21



# DRILL STEM TEST REPORT

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

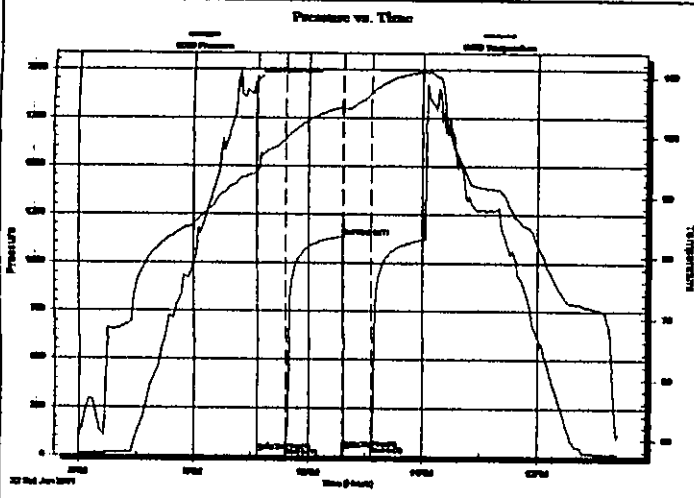
Oetken "A" 1-32  
 32-19s-16w Rush  
 Job Ticket: 15763      DST#: 2  
 Test Start: 2011.01.21 @ 08:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No Whipstock:**                      **ft (KB)**  
 Time Tool Opened: 09:00:00  
 Time Test Ended: 10:30:00  
 Interval: **3821.00 ft (KB) To 3830.00 ft (KB) (TVD)**  
 Total Depth: **3830.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Gene Budig**  
 Unit No: **3335-42**  
 Reference Elevations: **2051.00 ft (KB)**  
                                          **2043.00 ft (CF)**  
                                          **KB to GR/CF: 8.00 ft**

Serial #: **6666**      **Inside**  
 Press@RunDepth: **1133.12 psia @ 3826.00 ft (KB)**  
 Start Date: **2011.01.22**      End Date: **2011.01.22**  
 Start Time: **08:01:00**      End Time: **12:42:30**  
 Capacity: **5000.00 psia**  
 Last Calib.: **2011.01.22**  
 Time On Btm: **2011.01.22 @ 09:33:00**  
 Time Off Btm:

TEST COMMENT: 1st Opening 15 Minutes weak surface blow through out  
 1st Shut-in 30 Minutes no blow back  
 2nd Opening 15 Minutes- No blow  
 2nd Shut-in 30 Minutes-No blow back

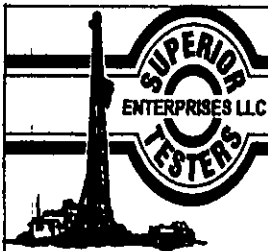


PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1936.39	94.42	Initial Hydro-static
1	26.89	94.28	Open To Flow (1)
16	41.70	99.58	Shut-in(1)
45	1133.12	104.97	End Shut-in(1)
46	41.64	104.75	Open To Flow (2)
60	55.49	107.17	Shut-in(2)

Recovery		
Length (ft)	Description	Volume (bbl)
35.00	Water 8%Mud 92%Water	0.49
30.00	Water 4%Mud 96%Water	0.42
0.00	Chlorides 24000	0.00
0.00	Resistivity .33 @ 56 degrees	0.00

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





# DRILL STEM TEST REPORT

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

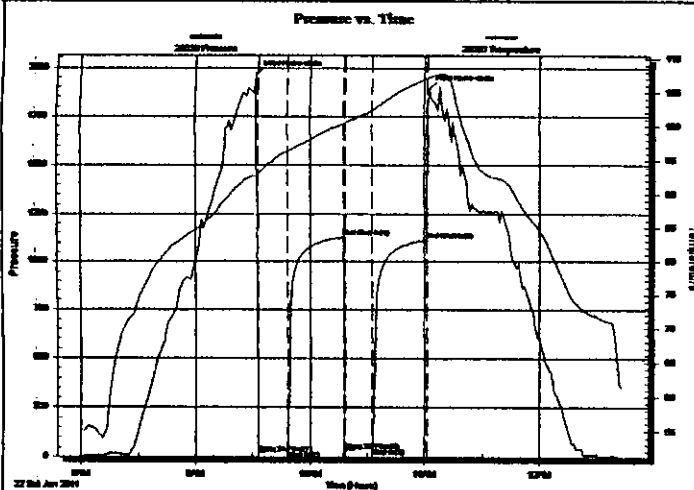
Oetken "A" 1-32  
 32-19s-16w Rush  
 Job Ticket: 15763      DST#: 2  
 Test Start: 2011.01.21 @ 08:00:00

## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No Whipstock:**      ft (KB)  
 Time Tool Opened: 09:00:00  
 Time Test Ended: 10:30:00  
 Interval: **3821.00 ft (KB) To 3830.00 ft (KB) (TVD)**  
 Total Depth: **3830.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Gene Budig**  
 Unit No: **3335-42**  
 Reference Elevations: **2051.00 ft (KB)**  
**2043.00 ft (CF)**  
 KB to GRVCF: **8.00 ft**

Serial #: **29636**      **Outside**  
 Press@RunDepth: **1113.26 psia @ 3827.00 ft (KB)**      Capacity: **5000.00 psia**  
 Start Date: **2011.01.22**      End Date: **2011.01.22**      Last Calib.: **2011.01.22**  
 Start Time: **08:01:30**      End Time: **12:43:00**      Time On Btm: **2011.01.22 @ 09:31:59**  
 Time Off Btm: **2011.01.22 @ 11:02:30**

TEST COMMENT: 1st Opening 15 Minutes weak surface blow through out  
 1st Shut-in 30 Minutes no blow back  
 2nd Opening 15 Minutes- No blow  
 2nd Shut-in 30 Minutes-No blow back



## PRESSURE SUMMARY

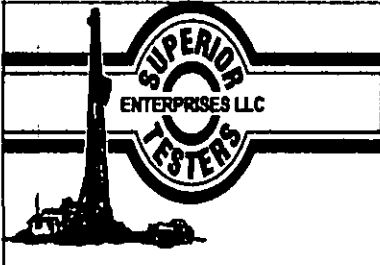
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1965.20	92.74	Initial Hydro-static
2	19.75	92.93	Open To Flow (1)
17	34.47	96.36	Shut-in(1)
46	1126.19	100.42	End Shut-in(1)
47	34.31	100.54	Open To Flow (2)
61	48.95	102.32	Shut-in(2)
90	1113.26	107.07	End Shut-in(2)
91	1890.26	107.19	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
35.00	Water 8%Mud 92%Water	0.49
30.00	Water 4%Mud 96%Water	0.42
0.00	Chlorides 24000	0.00
0.00	Resistivity .33 @ 56 degrees	0.00

## 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: Ryan Greenbaum

Oetken "A" 1-32  
 32-19s-16w Rush  
 Job Ticket: 15763      DST#: 2  
 Test Start: 2011.01.21 @ 08:00:00

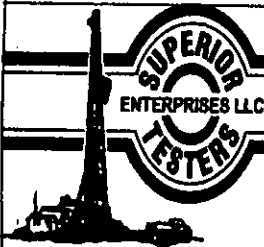
**Tool Information**

Drill Pipe:	Length: 3823.00 ft	Diameter: 3.80 inches	Volume: 53.63 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: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			<b>Total Volume: 53.63 bbl</b>	Tool Chased 0.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3821.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	9.00 ft			
Tool Length:	32.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

**Tool Description**

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3803.00	
Hydrolic Tool	5.00			3808.00	
Jars	6.00			3814.00	
Safety Joint	2.00			3816.00	
Packer	5.00			3821.00	23.00      Bottom Of Top Packer
Perforations	4.00			3825.00	
Recorder	1.00	6666	Inside	3826.00	
Recorder	1.00	95172	Outside	3827.00	
Bull Plug	3.00			3830.00	9.00      Anchor Tool
<b>Total Tool Length:</b>	<b>32.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

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

Oetken "A" 1-32

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

32-19a-16w Rush

Job Ticket: 15763

DST#: 2

ATTN: Ryan Greenbaum

Test Start: 2011.01.21 @ 08:00:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 69.00 sec/qt

Water Loss: 9.59 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 7000.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

deg API

ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
35.00	Water 8%Mud 92%Water	0.491
30.00	Water 4%Mud 96%Water	0.421
0.00	Chlorides 24000	0.000
0.00	Resistivity .33 @ 56 degrees	0.000

Total Length: 65.00 ft

Total Volume: 0.912 bbl

Num Fluid Samples: 0

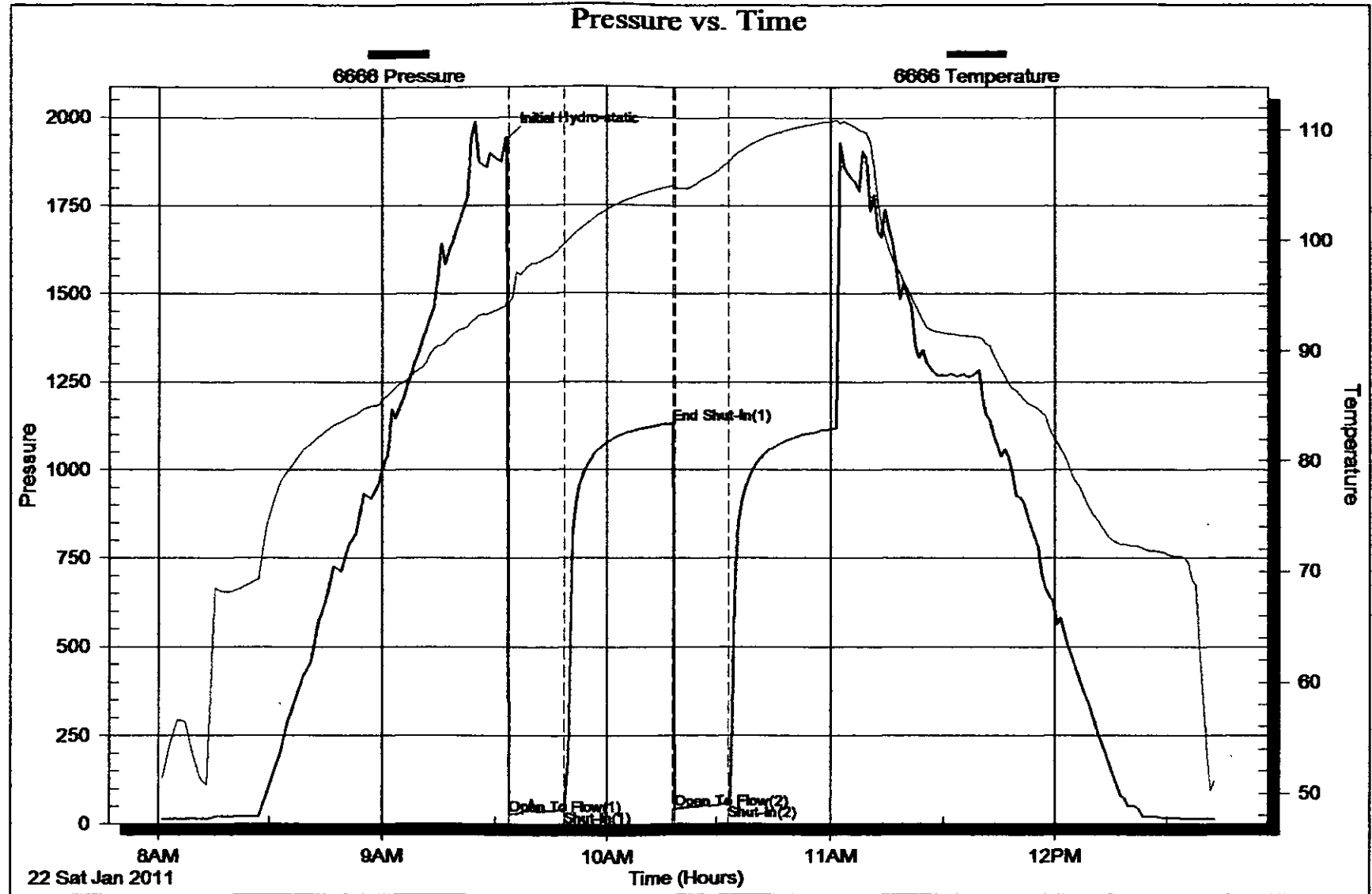
Num Gas Bombs: 0

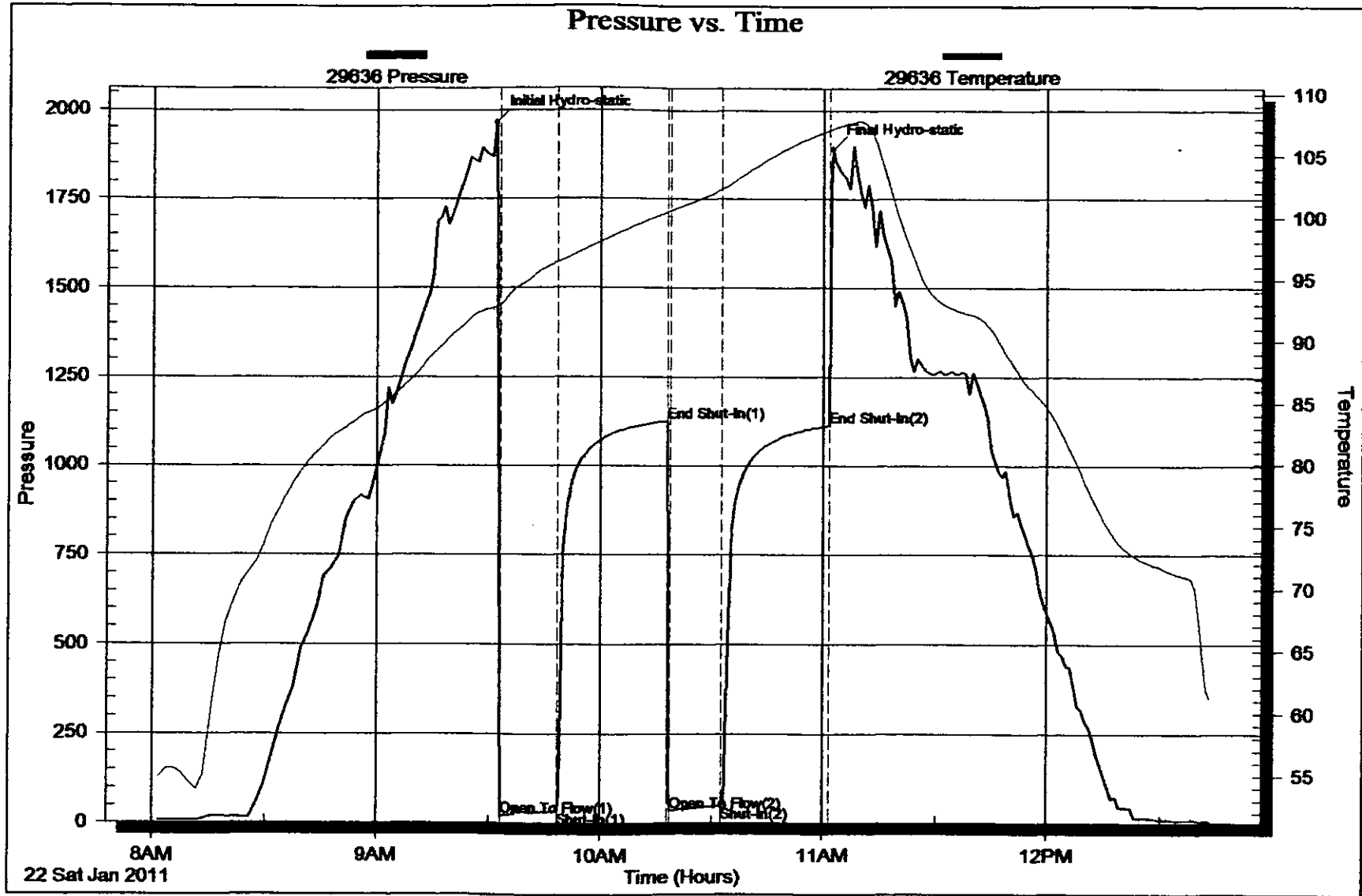
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







## DRILL STEM TEST REPORT

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

9431 East Central Suite 100  
Wichita, Kansas 67206-2563

ATTN: Ryan Greenbaum

**32-19s-16w Rush**

**Oetken "A" 1-32**

Start Date: 2011.01.23 @ 01:45:00

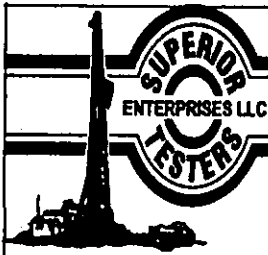
End Date: 2011.01.23 @ 06:10:00

Job Ticket #: 15764                      DST #: 3

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

Printed: 2011.01.24 @ 10:17:34

F.G.Holl Company L.L.C.    Oetken "A" 1-32    32-19s-16w Rush    DST # 3    Reagan Sand    2011.01.23



# DRILL STEM TEST REPORT

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

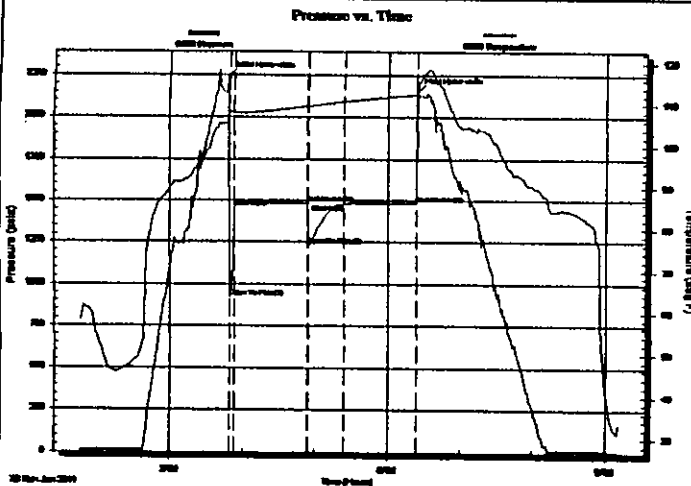
**Oetken "A" 1-32**  
**32-19s-16w Rush**  
 Job Ticket: 15764      DST#: 3  
 Test Start: 2011.01.23 @ 01:45:00

## GENERAL INFORMATION:

Formation: **Reagan Sand**  
 Deviated: **No** Whipstock:                      ft (KB)  
 Time Tool Opened: 03:25:00  
 Time Test Ended: 06:10:00  
 Interval: **4304.00 ft (KB) To 4350.00 ft (KB) (TVD)**  
 Total Depth: **4350.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Gene Budig**  
 Unit No: **3335-42**  
 Reference Elevations: **2051.00 ft (KB)**  
                                          **2043.00 ft (CF)**  
                                          KB to GR/CF: **8.00 ft**

**Serial #: 6666**      **Inside**  
 Press@RunDepth: **1482.96 psia @ 4346.34 ft (KB)**      Capacity: **5000.00 psia**  
 Start Date: **2011.01.23**      End Date: **2011.01.23**      Last Calib.: **2011.01.23**  
 Start Time: **01:46:00**      End Time: **09:10:30**      Time On Btm: **2011.01.23 @ 03:48:30**  
                                          **09:10:30**      Time Off Btm: **2011.01.23 @ 06:24:30**

**TEST COMMENT:** 1st Opening 5 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 minutes  
 1st Shut-In 60 Minutes-No blow back  
 2nd Opening 30 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes  
 2nd Shut-In 60 Minutes-No blow back



## PRESSURE SUMMARY

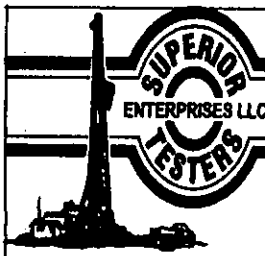
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2244.25	105.93	Initial Hydro-static
2	917.47	108.00	Open To Flow (1)
5	1457.91	108.16	Shut-In(1)
66	1483.77	109.64	End Shut-In(1)
66	1227.60	109.61	Open To Flow (2)
96	1479.04	110.68	Shut-In(2)
155	1482.96	112.44	End Shut-In(2)
156	2152.93	114.47	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
3150.00	Water Chlorides 28000	44.19
0.00	Resistivity .27 @ 62 Degrees	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

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

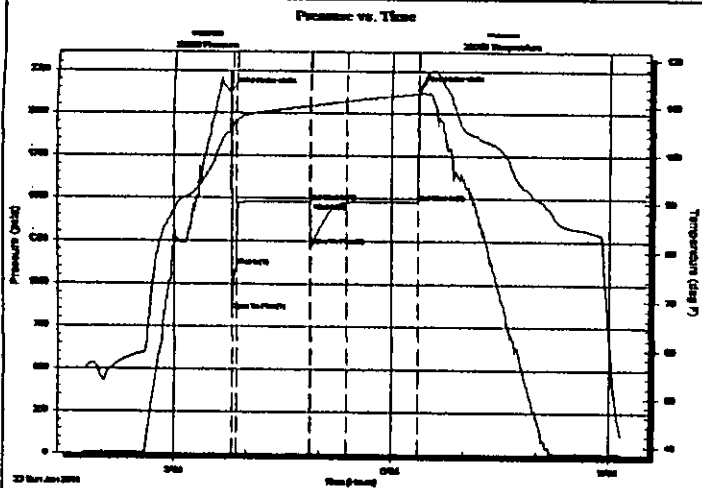
Oetken "A" 1-32  
 32-19s-16w Rush  
 Job Ticket: 15764 DST#: 3  
 Test Start: 2011.01.23 @ 01:45:00

## GENERAL INFORMATION:

Formation: Reagan Sand  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 03:25:00  
 Time Test Ended: 06:10:00  
 Interval: 4304.00 ft (KB) To 4350.00 ft (KB) (TVD)  
 Total Depth: 4350.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: Gene Budj  
 Unit No: 3335-42  
 Reference Elevations: 2051.00 ft (KB)  
 2043.00 ft (CF)  
 KB to GR/CF: 8.00 ft

Serial #: 29636 Outside  
 Press@RunDepth: 1476.79 psia @ 4347.34 ft (KB)  
 Start Date: 2011.01.23 End Date: 2011.01.23  
 Start Time: 01:45:30 End Time: 09:10:30  
 Capacity: 5000.00 psia  
 Last Calib.: 2011.01.23  
 Time On Btmr: 2011.01.23 @ 03:46:00  
 Time Off Btmr: 2011.01.23 @ 06:23:00

TEST COMMENT: 1st Opening 5 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 minutes  
 1st Shut-in 60 Minutes-No blow back  
 2nd Opening 30 Minutes-Good blow built to the bottom of a 5 gallon bucket in 1 1/2 minutes  
 2nd Shut-in 60 Minutes-No blow back



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2131.90	104.93	Initial Hydro-static
2	838.86	105.24	Open To Flow (1)
6	1098.35	106.98	Shut-in(1)
67	1477.60	110.23	End Shut-in(1)
68	1222.27	110.26	Open To Flow (2)
97	1473.04	111.19	Shut-in(2)
156	1476.79	112.88	End Shut-in(2)
157	2143.99	112.92	Final Hydro-static

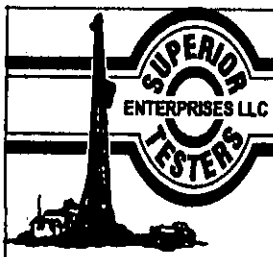
## Recovery

Length (ft)	Description	Volume (bbl)
3150.00	Water Chlorides 28000	44.19
0.00	Resistivity .27 @ 62 Degrees	0.00

## 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: Ryan Greenbaum

Oetken "A" 1-32  
 32-19s-16w Rush  
 Job Ticket: 15764      DST#: 3  
 Test Start: 2011.01.23 @ 01:45:00

### Tool Information

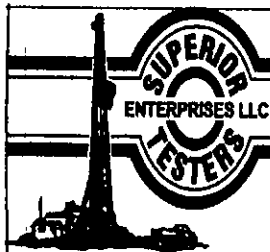
Drill Pipe:	Length: 4294.00 ft	Diameter: 3.80 inches	Volume: 60.23 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 2.25 inches	Volume: 0.00 bbl	Weight to Pull Loose: 58000.00 lb
			<b>Total Volume: 60.23 bbl</b>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	18.00 ft			String Weight: Initial 54000.00 lb
Depth to Top Packer:	4304.00 ft			Final 61000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	46.34 ft			
Tool Length:	74.34 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

### Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			4281.00	
Hydraulic Tool	5.00			4286.00	
Jars	6.00			4292.00	
Safety Joint	2.00			4294.00	
Packer	5.00			4299.00	28.00      Bottom Of Top Packer
Packer	5.00			4304.00	
Perforations	3.00			4307.00	
Change Over Sub	0.75			4307.75	
Drill Pipe	31.84			4339.59	
Change Over Sub	0.75			4340.34	
Perforations	5.00			4345.34	
Recorder	1.00	6666	Inside	4346.34	
Recorder	1.00	95172	Outside	4347.34	
Bull Plug	3.00			4350.34	46.34      Bottom Packers & Anchor

**Total Tool Length: 74.34**



# DRILL STEM TEST REPORT

FLUID SUMMARY

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

Oetken "A" 1-32  
32-19s-16w Rush  
Job Ticket: 15764      DST#: 3  
Test Start: 2011.01.23 @ 01:45:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil APT:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.79 in <sup>2</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 5900.00 ppm			
Filter Cake: 1.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3150.00	Water Chlorides 28000	44.186
0.00	Resistivity .27 @ 62 Degrees	0.000

Total Length: 3150.00 ft      Total Volume: 44.186 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

