



**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

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

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1051948

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	Monte 1-23
Doc ID	1051948

All Electric Logs Run

DUAL COMPENSATED POROSITY LOG
DUAL INDUCTION LOG
MICRORESISTIVITY LOG
SONIC CEMENT BOND LOG

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	Monte 1-23
Doc ID	1051948

Tops

Name	Top	Datum
ANHYDRITE	612	+1223
BASE ANHYDRITE	632	+1203
HEEBNER	3095	-1260
TORONTO	3113	-1278
DOUGLAS	3138	-1303
BROWN LIME	3222	-1387
LANSING	3240	-1405
BASE KANSAS CITY	3468	-1633
SIMPSON	3513	-1678
ARBUCKLE	3573	-1738



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
1718 02983 A

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

DATE OF JOB <u>11-30-10</u> DISTRICT <u>KANSAS</u>		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 <u>L.D. Drilling Inc.</u>		LEASE <u>monte</u> WELL NO. <u>1-23</u>								
ADDRESS		COUNTY <u>Stafford</u> 23-21-1 STATE <u>Kans.</u>								
CITY STATE		SERVICE CREW <u>A. Worth, C. Veach, J. B. Hunte</u>								
AUTHORIZED BY		JOB TYPE: <u>8 5/8" Surface, CNW</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
<u>28443 PU</u>	<u>1 1/2</u>						<u>11-29-10</u>			<u>500</u>
<u>27463 PT</u>	<u>1 1/2</u>					ARRIVED AT JOB	<u>11-30-10</u>			<u>1138</u>
<u>19832-19862</u>	<u>1 1/2</u>					START OPERATION	<u>11-30-10</u>			<u>300</u>
						FINISH OPERATION	<u>11-30-10</u>			<u>430</u>
						RELEASED	<u>11-3-10</u>			<u>530</u>
						MILES FROM STATION TO WELL	<u>45 miles</u>			

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
CP101	A-CON Blend Common	SK	175		\$ 3150.00
CP100	Common	SK	200		\$ 3200.00
CC102	cell FLAKE	lb	94		\$ 347.80
CC109	calcium chloride	lb	1059		\$ 1111.95
CC200	cement Gel	lb	326		\$ 94.00
CF153	wooden cement Plug 8 5/8"	EA	1		\$ 160.00
E100	unit mileage charge pickup	mi	45		\$ 191.25
E101	Heavy Equip mileage charge	mi	90		\$ 630.00
E113	Bulk Delivery charge	Tm	794		\$ 1270.80
CE200	Depth Charge 0-500'	4-hrs	1		\$ 1000.00
CE240	Blending & mixing service chg.	SK	37.5		\$ 525.00
CE504	Plug container ut. Lization chg.	Job	1		\$ 250.00
SR03	Service Supervisor first 8 hrs on job	EA	1		\$ 175.00

SUB TOTAL  
DLS 8474.06

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE Alan P. Worth

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Jim Muelle  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer L.O Drilling INC	Lease No.	Date 11-30-10
Lease monte	Well # 1-23	
Field Order # 102983A	Station Pratt KS	Casing 8 5/8"
Type Job 8 5/8 SURFACE	Formation CNW	Depth 342'
		County Stafford
		State KS
		Legal Description 23-21-12

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8"	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth 342'	Depth	From	To	Pre Pad	Max	3% CC	5 Min. # call F/ake	
Volume 20 RB/	Volume	From	To	Pad	Min	0.15 #/gal	10 Min.	
Max Press 250 #	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection P.C.	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 322'	Packer Depth	From	To	Flush Disp. H <sub>2</sub> O	Gas Volume		Total Load	

Customer Representative Jim	Station Manager scotty	Treater Allen F. Worth
Service Units 28443 27463 19832 19862		
Driver Names Worth Kersch Hunter		

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
1138	11-29-10				on loc. Discuss Safety, Setup, Plan Job.
1145					start out of Hole w/ Drill Pipe.
1200					out of Hole w/ Bit
1230					start 8 5/8" casing. 24 #
1230					(Casing @ 342' CIR w/ Rig)
1250					Run 4 Jts Hit Bridge
					Pull casing & Run Back IN w/ D.P.
					Recondition Hole
310					Casing @ 342' CIR w/ Rig, good CIR.
	200 #		66	4	start mix 175 SKs A-con @ 12.6 #
				4	start mix 200 SKs common w/
					2% gel, 3% CC, 1/4" C.F @ 15 #
			48		Finish mix - Drop wooden Plug 8 5/8"
410				4	start Disp.
	250 #		20	2	Plug Down - shut in @ well
	0 #				Release PST
					washup & Backup P.T.
530					Job complete
					(Cement CIR To Pit)
					thanks Allen, Chris, JR.



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
1718 03376 A

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

DATE OF JOB 12-7-10	DISTRICT 1718	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 L.D. Drilg Inc	LEASE Monte	1-23		WELL NO.					
ADDRESS	COUNTY Stafford	STATE KS							
CITY	STATE	SERVICE CREW Pratt KS							
AUTHORIZED BY	JOB TYPE: <u>cnw 542 L.S.</u>								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19963	1						12-7-10	AM	0500
19905	1							PM	0630
19860	1							AM	0945
19939	1							PM	1015
								AM	1045
								PM	1045
						MILES FROM STATION TO WELL			45

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: L.D. Davis By D Scott  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60-40 po2	SK	150		1800 -
CP103	60-40 po2	SK	30		360 -
CE102	Cell flake	Lb	38		140 60
CE111	Salt	Lb	1334		667 -
CE112	Friction Reducer	Lb	65		390 -
CE201	Gilsonite	Lb	750		502 50
CF103	Top Swivel Plug 542	EQ	1		105 -
CF251	Guide shoe "	"	"		250 -
CF1451	ISFV w/Fill "	"	"		215 -
CF1651	Centralizers "	EQ	5		550 -
CF704	KCL sub	gal	1		35 -
CE151	Mud Flush	gal	500		430 -
E100	Pick up mileage 1way	mi	45		191 25
E101	Inls mileage 1way	mi	90		630 -
E113	Bulk Delv	tm	349		558 -
CE204	Pump Charge 3001-4000	EQ	1		2160 -
CE210	Blending Charge	SK	180		252 -
CE304	Plug Container	EQ	1		250 -
5003	Service Supv.	EQ	1		175 -

SUB TOTAL

CHEMICAL / ACID DATA:			

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

TOTAL

Bw 6473 10

SERVICE REPRESENTATIVE D.L. Scott

THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: L.D. Davis By D Scott  
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

Customer <i>L.D. Dalg</i>	Lease No.	Date <i>12-7-10</i>			
Lease <i>Monte</i>	Well # <i>1-23</i>	County <i>Stafford</i>			
Field Order # <i>03376</i>	Station <i>Pratt KS</i>	Casing	Depth	State <i>KS</i>	
Type Job <i>CNW 5 1/2 Longstring</i>	Formation	Legal Description			

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing Size <i>5 1/2</i>	Tubing Size	Shots/Ft		Acid <i>150 sk 60-40 p 2</i>	RATE	PRESS	ISIP
Depth <i>698</i>	Depth	From	To	Pre Pad <i>240 gal 18% Salt</i>	Max		5 Min.
Volume <i>42.2</i>	Volume	From	To	Pad <i>346 gal 1/4 cell flocc</i>	Min		10 Min.
Max Press <i>1500</i>	Max Press	From	To	Frac <i>3 FR</i>	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush	Gas Volume		Total Load

Customer Representative <i>L.D. Davis</i>	Station Manager <i>Scotty</i>	Treater <i>Scotty</i>
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Service Units	<i>Van</i>	<i>19903</i>	<i>19905</i>	<i>19959</i>	<i>19860</i>				
Driver Names	<i>Scotty</i>	<i>Kecum</i>	<i>Lesley</i>	<i>JR</i>	<i>Hunter</i>				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>0430</i>					<i>Called Out</i>
<i>0630</i>					<i>On hoc w/Trks Safety Mtg</i>
					<i>Run 88J+ 5 1/2 Set @ 3712'</i>
					<i>6.5. ISFV Cent 1-3-5-7-9</i>
					<i>Csg on Bottom Circ 1 hr</i>
<i>0945</i>	<i>400</i>		<i>20</i>	<i>6</i>	<i>St 2% KCL Flush</i>
<i>0948</i>	<i>400</i>		<i>12</i>	<i>6</i>	<i>St mud Flush</i>
<i>0950</i>	<i>400</i>		<i>5</i>	<i>6</i>	<i>H2O spacer</i>
<i>0952</i>	<i>400</i>		<i>31.5</i>	<i>6</i>	<i>Mix Cmt @ 15.3ppg 150 sk's</i>
<i>0958</i>			<i>10</i>	<i>6</i>	<i>Finish mixing Close w.H work Pump</i>
<i>1000</i>					<i>Release Plug + St Disp w/H2O</i>
<i>1017</i>	<i>700</i>		<i>80</i>	<i>6</i>	<i>Lift Cmt</i>
<i>1015</i>	<i>1300</i>		<i>92</i>	<i>6</i>	<i>Plug Down</i>
<i>1016</i>	<i>6</i>				<i>Release psi Held</i>
					<i>Plug R.H. w/30 sk's</i>
					<i>Job Complete</i>
					<i>Thank you</i>
					<i>Scotty</i>





## DRILL STEM TEST REPORT

Prepared For: **L D DRILLING INC.**

7SW 26TH AVE                      GREAT BEND KS  
67530+6525

ATTN: JOSH AUSTIN

**23-21-12 STAFFORD**

**MONTE #1-23**

Start Date: 2010.12.03 @ 17:23:00

End Date: 2010.12.04 @ 00:04:30

Job Ticket #: 15683                      DST #: 1

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

Printed: 2010.12.04 @ 00:53:55

L D DRILLING INC.  
MONTE #1-23  
23-21-12 STAFFORD  
DST # 1  
LANSING KC (ZONE H,  
2010.12.03



# DRILL STEM TEST REPORT

L D DRILLING INC.  
 7SW 26TH AVE GREAT BEND KS  
 67530+6525  
 ATTN: JOSH AUSTIN

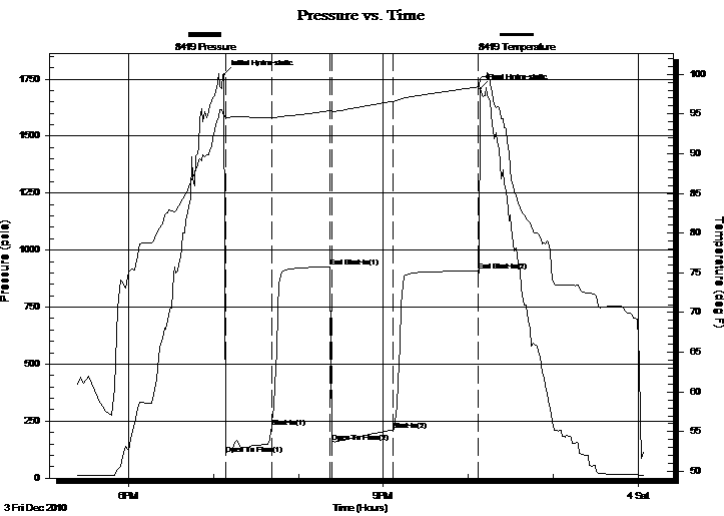
**MONTE #1-23**  
**23-21-12 STAFFORD**  
 Job Ticket: 15683 **DST#: 1**  
 Test Start: 2010.12.03 @ 17:23:00

## GENERAL INFORMATION:

Formation: **LANSING KC ( ZONE H,**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:08:30  
 Time Test Ended: 00:04:30  
**Interval: 3368.00 ft (KB) To 3475.00 ft (KB) (TVD)**  
 Total Depth: 3475.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 3320-GB-44  
 Reference Elevations: 1835.00 ft (KB)  
 1830.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8419 Inside**  
 Press@RunDepth: 211.42 psia @ 3471.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.12.03 End Date: 2010.12.04 Last Calib.: 2010.12.04  
 Start Time: 17:23:00 End Time: 00:04:30 Time On Btm: 2010.12.03 @ 19:07:30  
 Time Off Btm: 2010.12.03 @ 22:08:30

**TEST COMMENT:** 30/INITIAL OPEN:TRONG BLOW BUILT BOTTOM OF BUCKET IN 6 MINUTES  
 45/INITIAL SHUT IN:1/2 INCH BLOW BACK  
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES  
 60/FINAL SHUT IN:BOTTOM OF BUCKET



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1769.69	94.93	Initial Hydro-static
1	103.01	94.48	Open To Flow (1)
34	225.30	94.49	Shut-In(1)
75	926.97	95.43	End Shut-In(1)
76	159.42	95.29	Open To Flow (2)
120	211.42	96.61	Shut-In(2)
180	909.48	98.42	End Shut-In(2)
181	1707.47	99.48	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	WATER 5%OIL 95%WATER	0.59
120.00	GASSEY OIL CUT WATER	1.68
0.00	40%GAS 45% OIL 5%MUD 10%WATER	0.00
120.00	GASSEY OIL CUTWATER	1.68
0.00	45%GAS 30%OIL %5MUD 20%WATER	0.00
0.00	CHLORIDES 65,000	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

L D DRILLING INC.  
 7SW 26TH AVE GREAT BEND KS  
 67530+6525  
 ATTN: JOSH AUSTIN

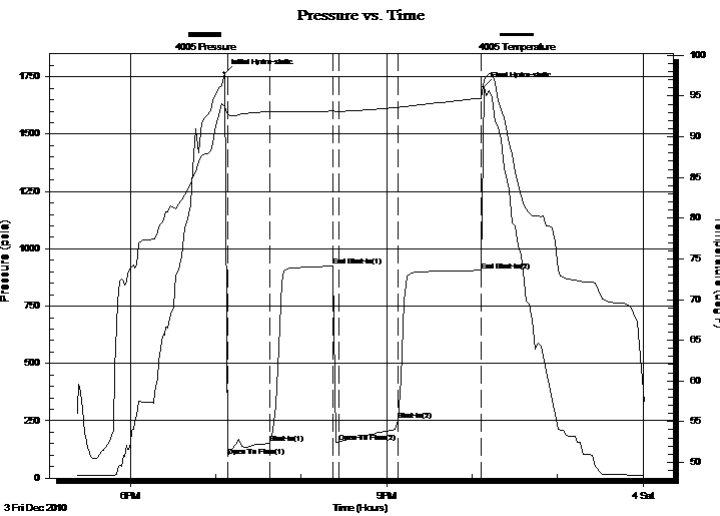
**MONTE #1-23**  
**23-21-12 STAFFORD**  
 Job Ticket: 15683 **DST#: 1**  
 Test Start: 2010.12.03 @ 17:23:00

## GENERAL INFORMATION:

Formation: **LANSING KC ( ZONE H,**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 19:08:30  
 Time Test Ended: 00:04:30  
 Interval: **3368.00 ft (KB) To 3475.00 ft (KB) (TVD)**  
 Total Depth: 3475.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 3320-GB-44  
 Reference Elevations: 1835.00 ft (KB)  
 1830.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 4005 Outside**  
 Press@RunDepth: 905.91 psia @ 3472.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.12.03 End Date: 2010.12.04 Last Calib.: 2010.12.04  
 Start Time: 17:23:00 End Time: 00:01:09 Time On Btm: 2010.12.03 @ 19:06:09  
 Time Off Btm: 2010.12.03 @ 22:08:10

**TEST COMMENT:** 30/INITIAL OPEN:TRONG BLOW BUILT BOTTOM OF BUCKET IN 6 MINUTES  
 45/INITIAL SHUT IN:1/2 INCH BLOW BACK  
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES  
 60/FINAL SHUT IN:BOTTOM OF BUCKET



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1765.57	93.76	Initial Hydro-static
3	96.67	92.72	Open To Flow (1)
33	151.83	93.05	Shut-In(1)
77	923.86	93.17	End Shut-In(1)
81	158.57	93.14	Open To Flow (2)
123	251.66	93.62	Shut-In(2)
181	905.91	94.74	End Shut-In(2)
183	1706.81	96.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	WATER 5%OIL 95%WATER	0.59
120.00	GASSEY OIL CUT WATER	1.68
0.00	40%GAS 45% OIL 5%MUD 10%WATER	0.00
120.00	GASSEY OIL CUTWATER	1.68
0.00	45%GAS 30%OIL %5MUD 20%WATER	0.00
0.00	CHLORIDES 65,000	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

L D DRILLING INC.

**MONTE #1-23**

7SW 26TH AVE GREAT BEND KS  
67530+6525

**23-21-12 STAFFORD**

Job Ticket: 15683 **DST#: 1**

ATTN: JOSH AUSTIN

Test Start: 2010.12.03 @ 17:23:00

## Tool Information

Drill Pipe:	Length: 3236.00 ft	Diameter: 3.80 inches	Volume: 45.39 bbl	Tool Weight:	1000.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose:	52000.00 lb
			<u>Total Volume: 45.98 bbl</u>	Tool Chased	1.00 ft
Drill Pipe Above KB:	9.00 ft			String Weight: Initial	48000.00 lb
Depth to Top Packer:	3368.00 ft			Final	49000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	107.00 ft				
Tool Length:	128.00 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			3348.00	
Shut-In Tool	5.00			3353.00	
Hydraulic Tool	5.00			3358.00	
Recorder	5.00			3363.00	
Packer	5.00			3368.00	21.00 Bottom Of Top Packer
Change Over Sub	0.75			3368.75	
DRILL PIPE	63.50			3432.25	
Change Over Sub	0.75			3433.00	
Perforations	37.00			3470.00	
Recorder	1.00	8419	Inside	3471.00	
Recorder	1.00	4005	Outside	3472.00	
Bullnose	3.00			3475.00	107.00 Anchor Tool

**Total Tool Length: 128.00**



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

L D DRILLING INC.

**MONTE #1-23**

7SW 26TH AVE      GREAT BEND KS  
67530+6525

**23-21-12 STAFFORD**

Job Ticket: 15683      **DST#: 1**

ATTN: JOSH AUSTIN

Test Start: 2010.12.03 @ 17:23:00

## 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: 64.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	WATER 5%OIL 95%WATER	0.590
120.00	GASSEY OIL CUT WATER	1.683
0.00	40%GAS 45% OIL 5%MUD 10%WATER	0.000
120.00	GASSEY OIL CUTWATER	1.683
0.00	45%GAS 30%OIL %5MUD 20%WATER	0.000
0.00	CHLORIDES 65,000	0.000
0.00	RESISTIVITY .8 @65 DEGREES	0.000

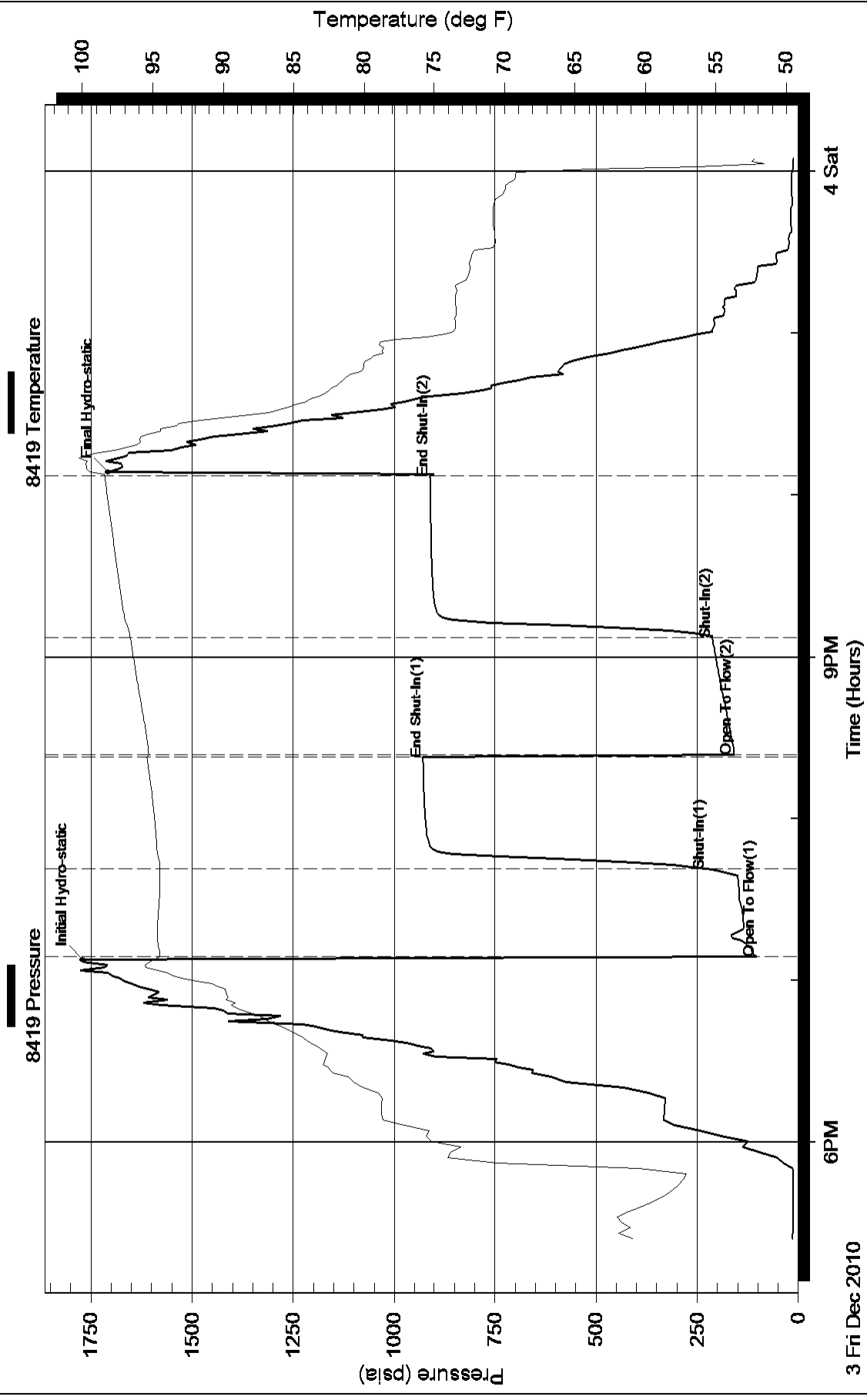
Total Length: 360.00 ft      Total Volume: 3.956 bbl

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

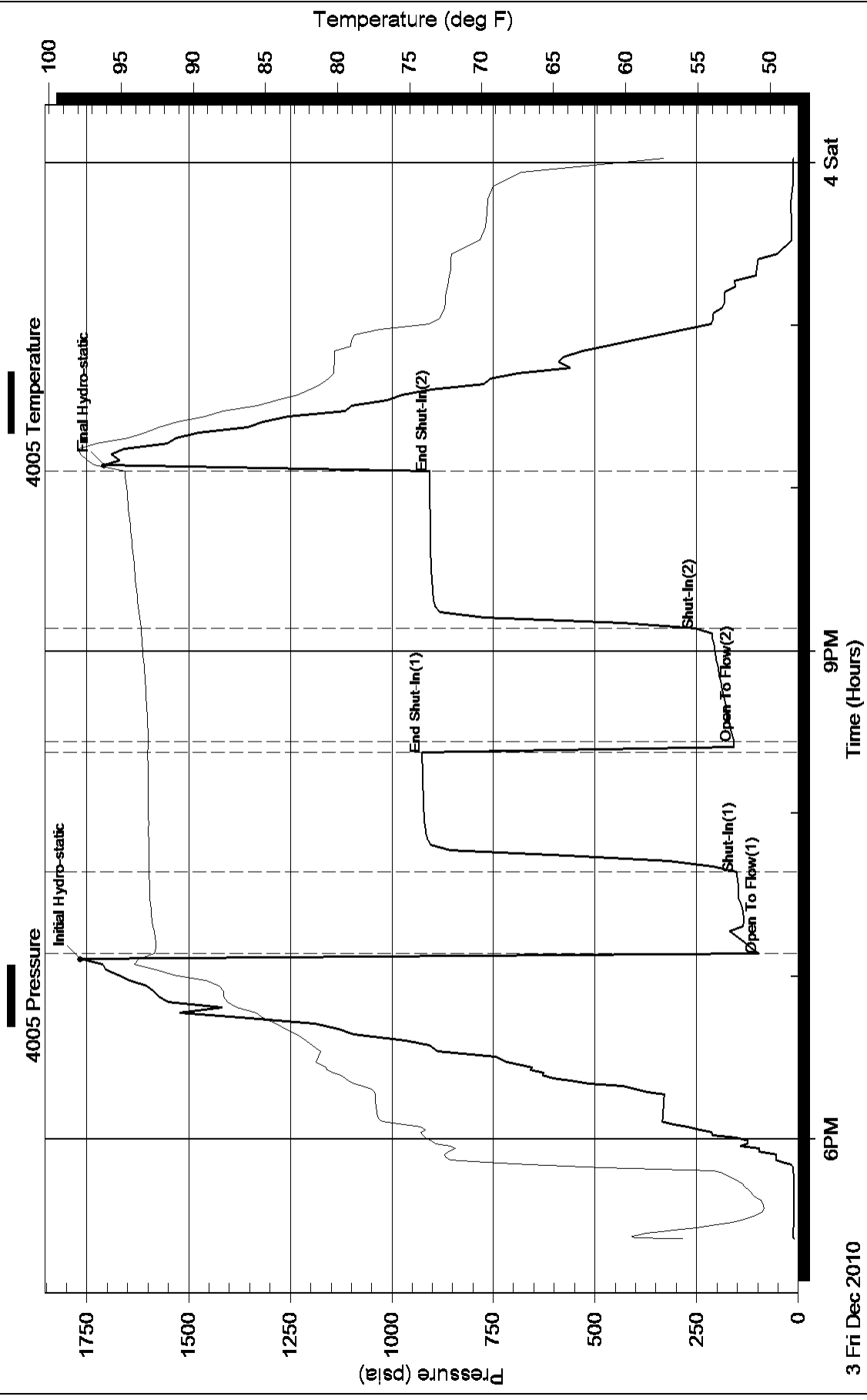
Laboratory Name:      Laboratory Location:

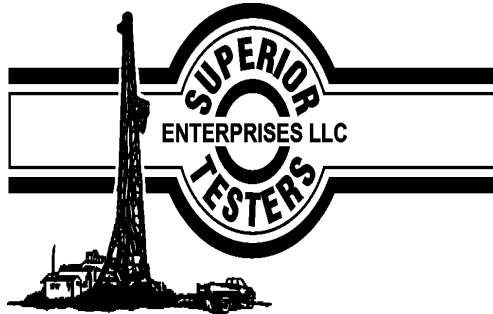
Recovery Comments: CHLORIDES 65,000  
RESISITIVITY .8 @ 65 DEGREES

### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **L D DRILLING INC.**

7SW 26TH AVE  
67530+6525

GREAT BEND KS

ATTN: JOSH AUSTIN

**23-21-12 STAFFORD**

**MONTE #1-23**

Start Date: 2010.12.04 @ 08:58:00

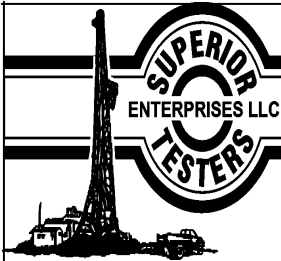
End Date: 2010.12.04 @ 14:15:00

Job Ticket #: 15684                      DST #: 2

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

Printed: 2010.12.04 @ 14:33:30





# DRILL STEM TEST REPORT

L D DRILLING INC.  
 7SW 26TH AVE GREAT BEND KS  
 67530+6525  
 ATTN: JOSH AUSTIN

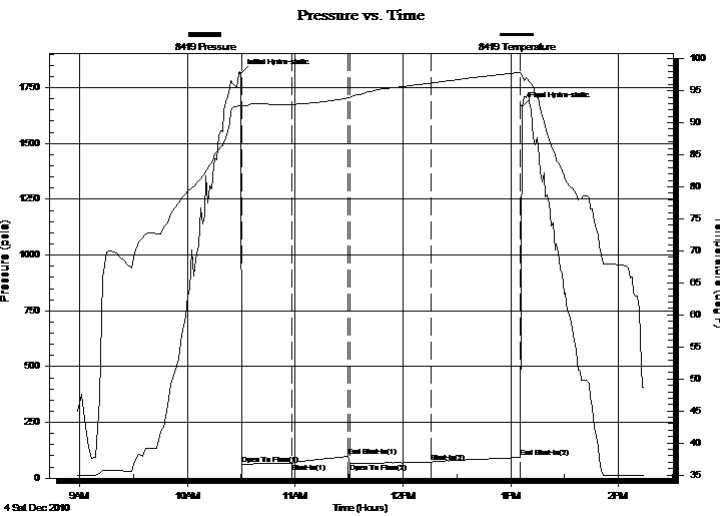
**MONTE #1-23**  
**23-21-12 STAFFORD**  
 Job Ticket: 15684 **DST#: 2**  
 Test Start: 2010.12.04 @ 08:58:00

## GENERAL INFORMATION:

Formation: **CONGLOMERATE**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:30:30  
 Time Test Ended: 14:15:00  
 Interval: **3470.00 ft (KB) To 3535.00 ft (KB) (TVD)**  
 Total Depth: 3535.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 3320-44-GB  
 Reference Elevations: 1835.00 ft (KB)  
 1830.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8419 Inside**  
 Press@RunDepth: 71.85 psia @ 3531.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.12.04 End Date: 2010.12.04 Last Calib.: 2010.12.04  
 Start Time: 08:58:00 End Time: 14:15:00 Time On Btm: 2010.12.04 @ 10:29:30  
 Time Off Btm: 2010.12.04 @ 13:06:30

TEST COMMENT: 30/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 1 INCH INTO WATER IN 30 MINUTES  
 30/INITIAL SHUT IN:NO BLOW BACK  
 45/FINAL OPEN:VERY WEAK SURFACE BLOW STAYED STEADY THROUGHOUT OPEN  
 45/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1814.94	92.62	Initial Hydro-static
1	62.31	92.45	Open To Flow (1)
29	65.61	92.85	Shut-In(1)
60	96.68	93.84	End Shut-In(1)
61	66.81	93.97	Open To Flow (2)
106	71.85	96.19	Shut-In(2)
156	92.78	97.86	End Shut-In(2)
157	1665.74	97.41	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	MUD 100%	0.10

## Gas Rates

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



# DRILL STEM TEST REPORT

L D DRILLING INC.  
 7SW 26TH AVE GREAT BEND KS  
 67530+6525  
 ATTN: JOSH AUSTIN

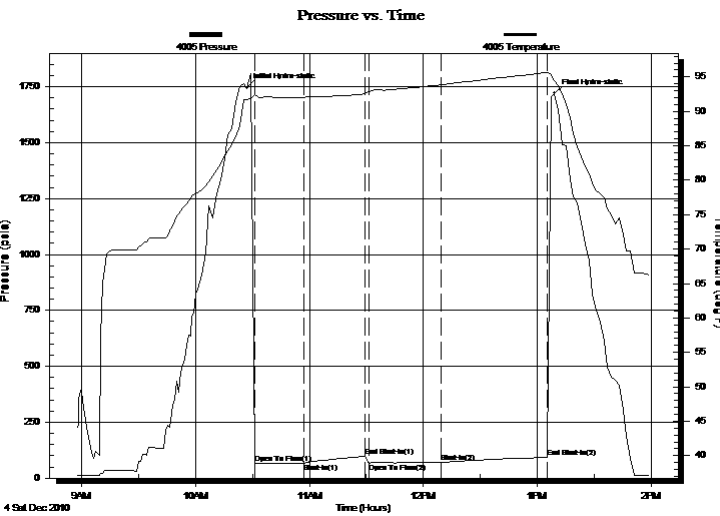
**MONTE #1-23**  
**23-21-12 STAFFORD**  
 Job Ticket: 15684 **DST#: 2**  
 Test Start: 2010.12.04 @ 08:58:00

## GENERAL INFORMATION:

Formation: **CONGLOMERATE**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 10:30:30  
 Time Test Ended: 14:15:00  
 Interval: **3470.00 ft (KB) To 3535.00 ft (KB) (TVD)**  
 Total Depth: 3535.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 3320-44-GB  
 Reference Elevations: 1835.00 ft (KB)  
 1830.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 4005 Outside**  
 Press@RunDepth: 93.48 psia @ 3532.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.12.04 End Date: 2010.12.04 Last Calib.: 2010.12.04  
 Start Time: 08:58:00 End Time: 13:59:09 Time On Btm: 2010.12.04 @ 10:27:09  
 Time Off Btm: 2010.12.04 @ 13:09:10

**TEST COMMENT:** 30/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 1 INCH INTO WATER IN 30 MINUTES  
 30/INITIAL SHUT IN:NO BLOW BACK  
 45/FINAL OPEN:VERY WEAK SURFACE BLOW STAYED STEADY THROUGHOUT OPEN  
 45/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

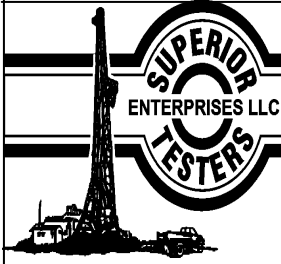
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1745.10	91.74	Initial Hydro-static
5	64.02	92.40	Open To Flow (1)
31	66.84	92.04	Shut-In(1)
63	97.55	92.52	End Shut-In(1)
65	67.97	92.91	Open To Flow (2)
103	71.10	93.87	Shut-In(2)
159	93.48	95.65	End Shut-In(2)
163	1720.28	94.53	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
20.00	MUD 100%	0.10

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

L D DRILLING INC.

**MONTE #1-23**

7SW 26TH AVE      GREAT BEND KS  
67530+6525

**23-21-12 STAFFORD**

Job Ticket: 15684

**DST#: 2**

ATTN: JOSH AUSTIN

Test Start: 2010.12.04 @ 08:58:00

## Tool Information

Drill Pipe:	Length: 3332.00 ft	Diameter: 3.80 inches	Volume: 46.74 bbl	Tool Weight: 1000.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 53000.00 lb
			<u>Total Volume: 47.33 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 48000.00 lb
Depth to Top Packer:	3470.00 ft			Final 48000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	65.00 ft			
Tool Length:	86.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
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Change Over Sub	1.00			3450.00	
Shut-In Tool	5.00			3455.00	
Hydraulic Tool	5.00			3460.00	
Recorder	5.00			3465.00	
Packer	5.00			3470.00	21.00      Bottom Of Top Packer
Change Over Sub	0.75			3470.75	
Drill Pipe	31.50			3502.25	
Change Over Sub	0.75			3503.00	
Perforations	27.00			3530.00	
Recorder	1.00	8419	Inside	3531.00	
Recorder	1.00	4005	Outside	3532.00	
Bullnose	3.00			3535.00	65.00      Anchor Tool

**Total Tool Length: 86.00**



# DRILL STEM TEST REPORT

**FLUID SUMMARY**

L D DRILLING INC.

**MONTE #1-23**

7SW 26TH AVE      GREAT BEND KS  
67530+6525

**23-21-12 STAFFORD**

Job Ticket: 15684

**DST#: 2**

ATTN: JOSH AUSTIN

Test Start: 2010.12.04 @ 08:58:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 11.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 8000.00 ppm  
Filter Cake: 2.00 inches

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

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	MUD 100%	0.098

Total Length: 20.00 ft      Total Volume: 0.098 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

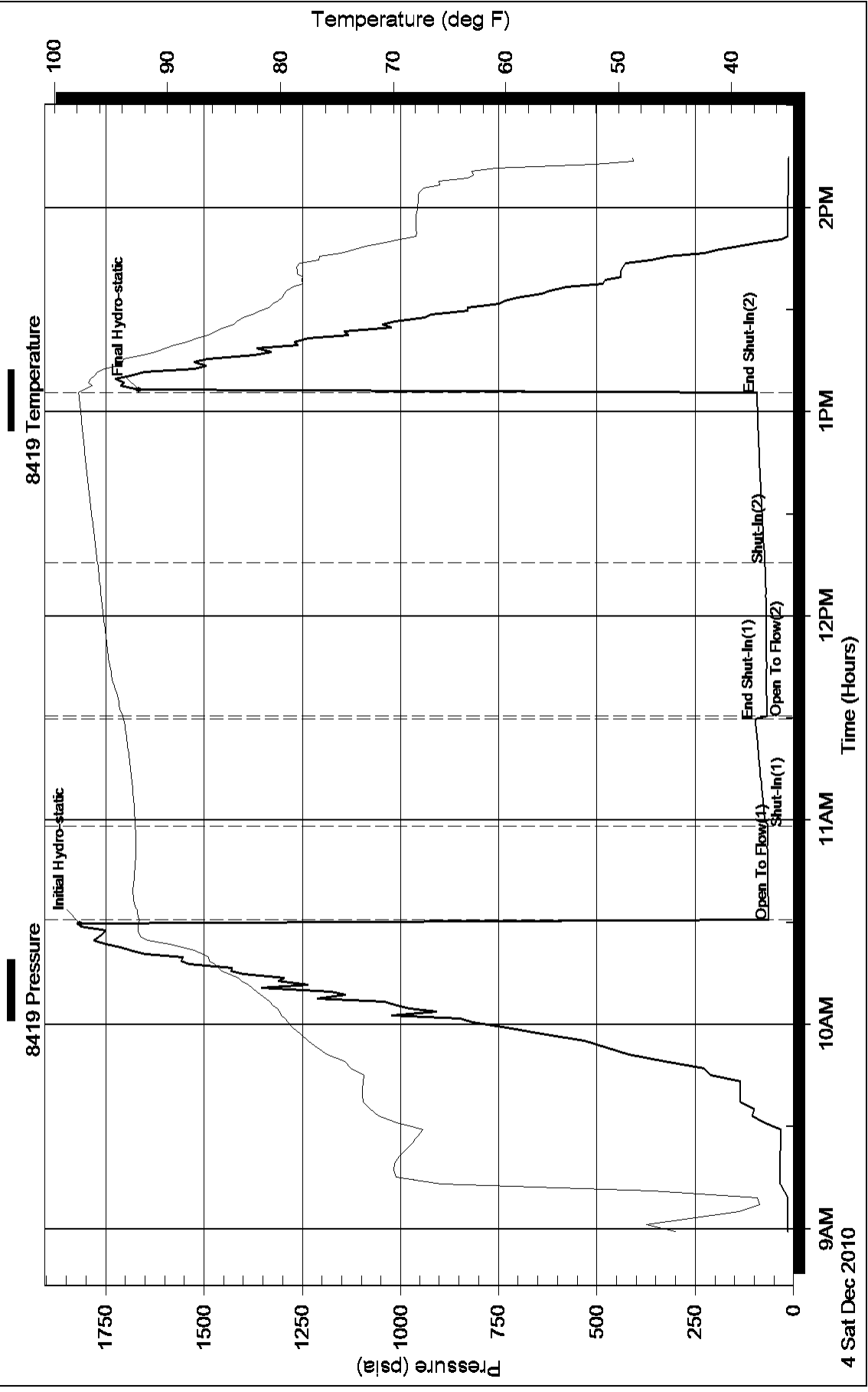
Serial #:

Laboratory Name:

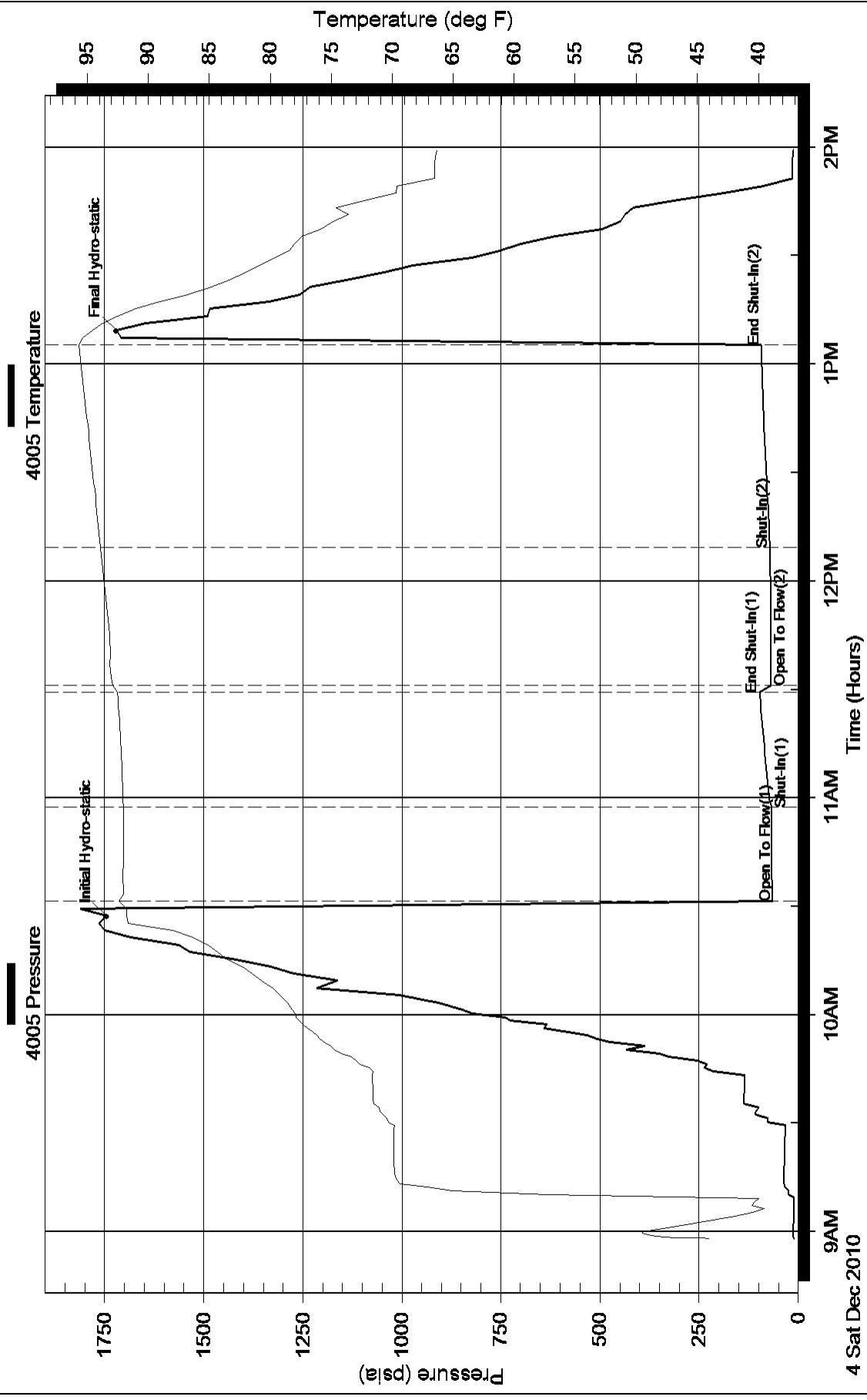
Laboratory Location:

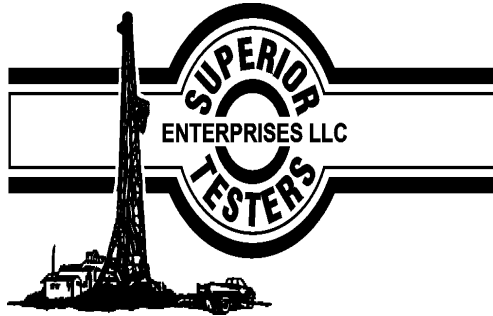
Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **L D DRILLING INC.**

7SW 26TH AVE  
67530+6525

GREAT BEND KS

ATTN: JOSH AUSTIN

**23-21-12 STAFFORD**

**MONTE #1-23**

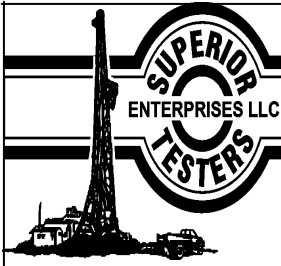
Start Date: 2010.12.04 @ 20:35:00

End Date: 2010.12.04 @ 15:00:00

Job Ticket #: 15685                      DST #: 3

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

Printed: 2010.12.05 @ 03:21:29



# DRILL STEM TEST REPORT

L D DRILLING INC.  
 7SW 26TH AVE GREAT BEND KS  
 67530+6525  
 ATTN: JOSH AUSTIN

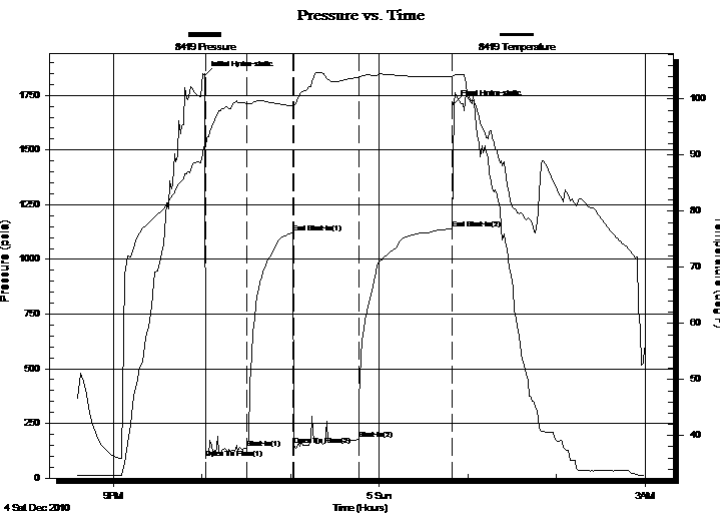
**MONTE #1-23**  
**23-21-12 STAFFORD**  
 Job Ticket: 15685 **DST#: 3**  
 Test Start: 2010.12.04 @ 20:35:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 22:02:30  
 Time Test Ended: 15:00:00  
 Interval: **3530.00 ft (KB) To 3585.00 ft (KB) (TVD)**  
 Total Depth: 3585.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 3320-44-GB  
 Reference Elevations: 1835.00 ft (KB)  
 1830.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8419 Inside**  
 Press@RunDepth: 176.78 psia @ 3581.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.12.04 End Date: 2010.12.05 Last Calib.: 2010.12.05  
 Start Time: 20:35:00 End Time: 03:00:00 Time On Btm: 2010.12.04 @ 22:02:00  
 Time Off Btm: 2010.12.05 @ 00:50:30

**TEST COMMENT:** 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 16 MINUTES  
 30/INITIAL SHUT IN:6 INCH BLOW BACK  
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 15 MINUTES  
 60/FINAL SHUT IN: 3 INCHES FROM BOTTOM OF BUCKET



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1840.76	91.63	Initial Hydro-static
1	88.31	91.46	Open To Flow (1)
29	137.14	99.16	Shut-In(1)
60	1121.78	98.78	End Shut-In(1)
61	149.21	98.77	Open To Flow (2)
104	176.78	103.80	Shut-In(2)
167	1140.56	104.01	End Shut-In(2)
169	1709.52	104.24	Final Hydro-static

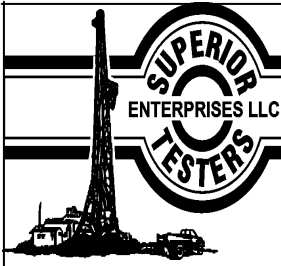
## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUDDY OIL 30%OIL 70%MUD	0.73
280.00	GASSEY OIL 30%GAS 60%OIL 10%MUD	13.93
0.00	600 GAS IN PIPE	0.00
0.00	GRAVITY OIL 43	0.00

## Gas Rates

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





# DRILL STEM TEST REPORT

L D DRILLING INC.  
 7SW 26TH AVE GREAT BEND KS  
 67530+6525  
 ATTN: JOSH AUSTIN

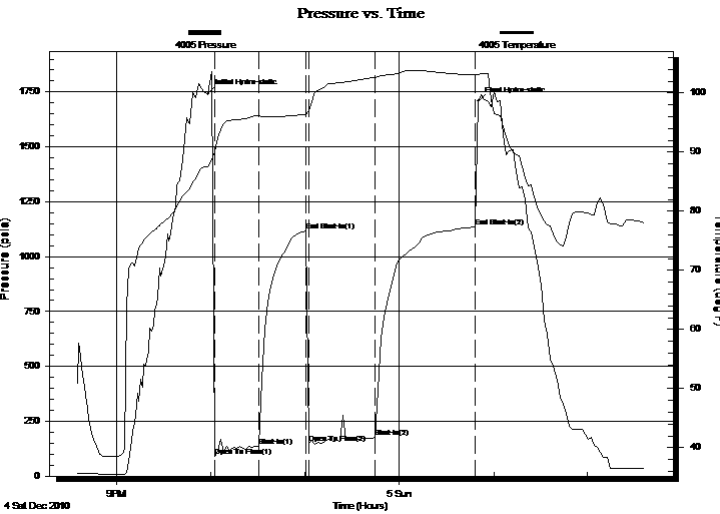
**MONTE #1-23**  
**23-21-12 STAFFORD**  
 Job Ticket: 15685 **DST#: 3**  
 Test Start: 2010.12.04 @ 20:35:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**  
 Deviated: No Whipstock: ft (KB) Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 22:02:30 Tester: JARED SCHECK  
 Time Test Ended: 15:00:00 Unit No: 3320-44-GB  
 Interval: **3530.00 ft (KB) To 3585.00 ft (KB) (TVD)** Reference Elevations: 1835.00 ft (KB)  
 Total Depth: 3585.00 ft (KB) (TVD) 1830.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 4005 Outside**  
 Press@RunDepth: 1135.56 psia @ 3582.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.12.04 End Date: 2010.12.05 Last Calib.: 2010.12.05  
 Start Time: 20:35:00 End Time: 02:36:09 Time On Btm: 2010.12.04 @ 21:58:10  
 Time Off Btm: 2010.12.05 @ 00:50:10

**TEST COMMENT:** 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 16 MINUTES  
 30/INITIAL SHUT IN:6 INCH BLOW BACK  
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 15 MINUTES  
 60/FINAL SHUT IN: 3 INCHES FROM BOTTOM OF BUCKET



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1741.35	87.52	Initial Hydro-static
4	90.65	90.10	Open To Flow (1)
32	137.94	96.18	Shut-In(1)
62	1117.02	96.35	End Shut-In(1)
64	149.43	97.09	Open To Flow (2)
106	175.11	102.67	Shut-In(2)
170	1135.56	103.13	End Shut-In(2)
172	1707.55	103.14	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUDDY OIL 30%OIL 70%MUD	0.73
280.00	GASSEY OIL 30%GAS 60%OIL 10%MUD	3.93
0.00	600 GAS IN PIPE	0.00
0.00	GRAVITY OIL 43	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

L D DRILLING INC.

**MONTE #1-23**

7SW 26TH AVE GREAT BEND KS  
67530+6525

**23-21-12 STAFFORD**

Job Ticket: 15685 **DST#: 3**

ATTN: JOSH AUSTIN

Test Start: 2010.12.04 @ 20:35:00

## Tool Information

Drill Pipe:	Length: 3395.00 ft	Diameter: 3.80 inches	Volume: 47.62 bbl	Tool Weight: 1000.00 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: 120.00 ft	Diameter: 2.50 inches	Volume: 0.73 bbl	Weight to Pull Loose: 53000.00 lb
			<u>Total Volume: 48.35 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	6.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3530.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3510.00	
Shut-In Tool	5.00			3515.00	
Hydraulic Tool	5.00			3520.00	
Recorder	5.00			3525.00	
Packer	5.00			3530.00	21.00 Bottom Of Top Packer
Change Over Sub	0.75			3530.75	
Drill Pipe	31.50			3562.25	
Change Over Sub	0.75			3563.00	
Perforations	17.00			3580.00	
Recorder	1.00	8419	Inside	3581.00	
Recorder	1.00	4005	Outside	3582.00	
Bullnose	3.00			3585.00	55.00 Anchor Tool

**Total Tool Length: 76.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

L D DRILLING INC.

**MONTE #1-23**

7SW 26TH AVE GREAT BEND KS  
67530+6525

**23-21-12 STAFFORD**

Job Ticket: 15685

**DST#: 3**

ATTN: JOSH AUSTIN

Test Start: 2010.12.04 @ 20:35:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 11.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 8000.00 ppm  
Filter Cake: 2.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MUDDY OIL 30%OIL 70%MUD	0.729
280.00	GASSEY OIL 30%GAS 60%OIL 10%MUD	3.928
0.00	600 GAS IN PIPE	0.000
0.00	GRAVITY OIL 43	0.000

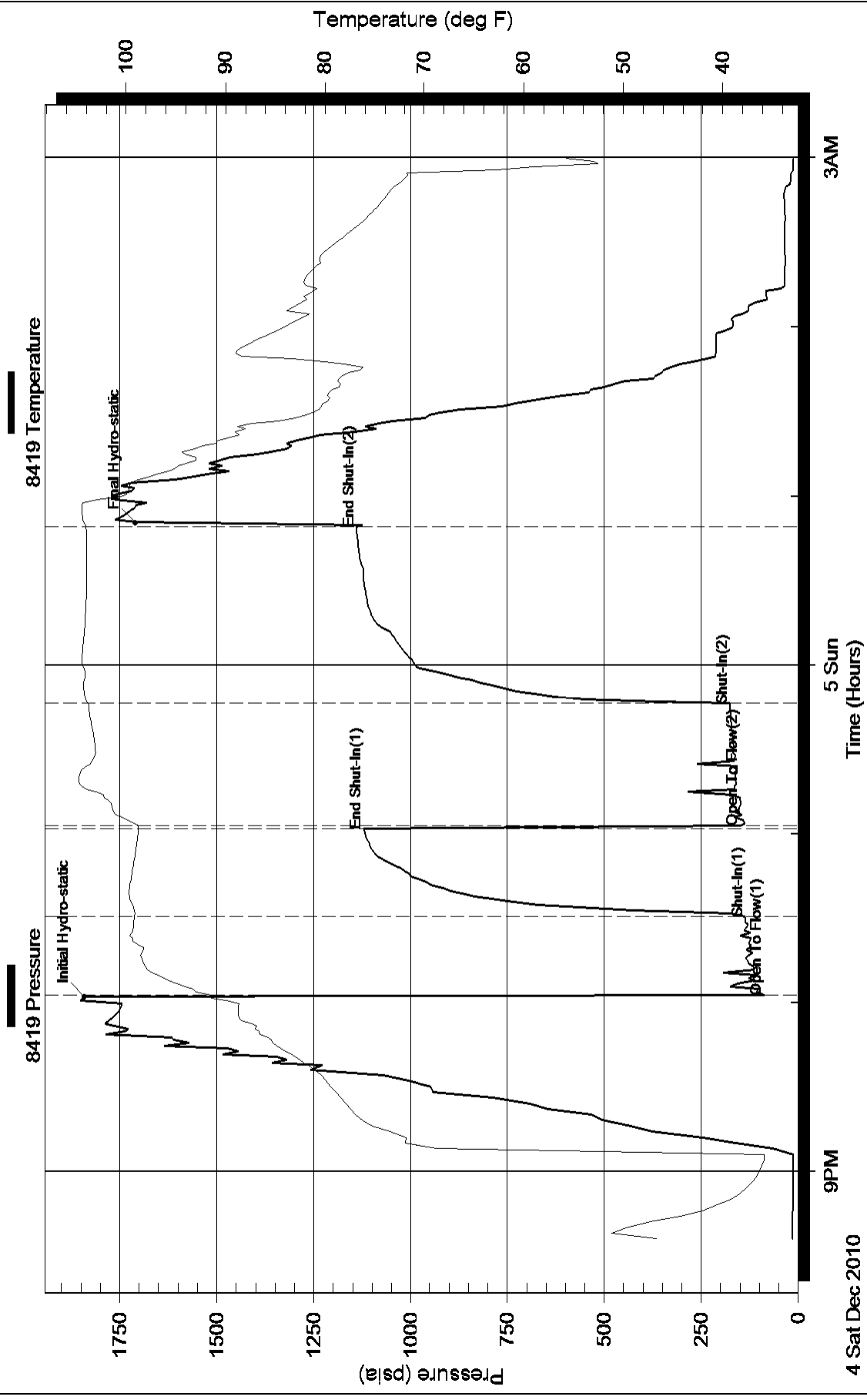
Total Length: 400.00 ft Total Volume: 4.657 bbl

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

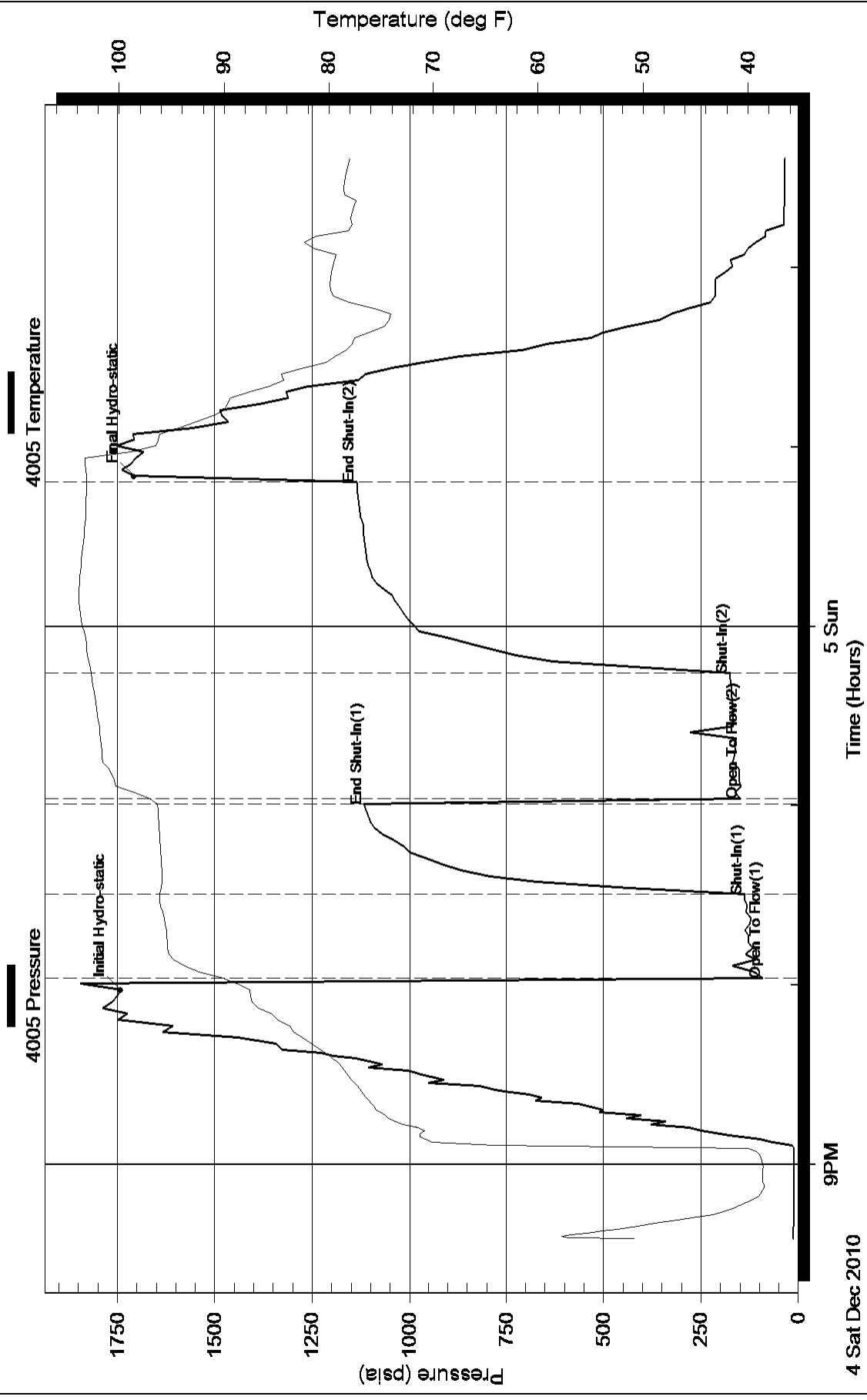
Laboratory Name: Laboratory Location:

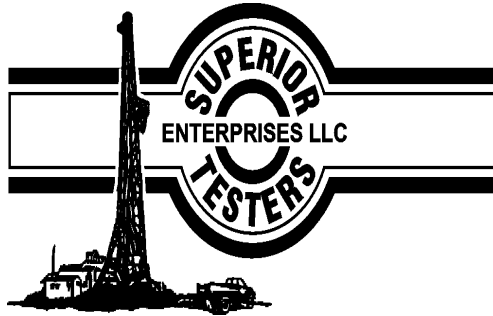
Recovery Comments: GRAVITY 43

### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **L D DRILLING INC.**

7SW 26TH AVE  
67530+6525

GREAT BEND KS

ATTN: JOSH AUSTIN

**23-21-12 STAFFORD**

**MONTE #1-23**

Start Date: 2010.12.05 @ 07:45:00

End Date: 2010.12.05 @ 14:07:00

Job Ticket #: 16686                      DST #: 4

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

Printed: 2010.12.05 @ 14:26:41



# DRILL STEM TEST REPORT

L D DRILLING INC.  
 7SW 26TH AVE GREAT BEND KS  
 67530+6525  
 ATTN: JOSH AUSTIN

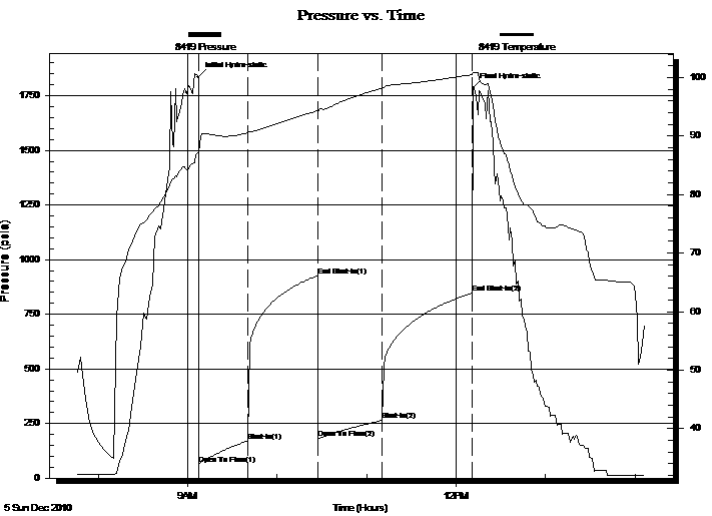
**MONTE #1-23**  
**23-21-12 STAFFORD**  
 Job Ticket: 16686 **DST#: 4**  
 Test Start: 2010.12.05 @ 07:45:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 09:07:30 Tester: JARED SCHECK  
 Time Test Ended: 14:07:00 Unit No: 3320-44-GB  
 Interval: **3585.00 ft (KB) To 3597.00 ft (KB) (TVD)** Reference Elevations: 1835.00 ft (KB)  
 Total Depth: 3597.00 ft (KB) (TVD) 1830.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 8419 Inside**  
 Press@RunDepth: 264.07 psia @ 3593.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.12.05 End Date: 2010.12.05 Last Calib.: 2010.12.05  
 Start Time: 07:45:00 End Time: 14:07:00 Time On Btm: 2010.12.05 @ 09:07:00  
 Time Off Btm: 2010.12.05 @ 12:11:30

**TEST COMMENT:** 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 4 MINUTES  
 45/INTIAL SHUT IN:6 INCH BLOW BACK  
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 8 MINUTES  
 60/FINAL SHUT IN:7 INCH BLOW BACK



## PRESSURE SUMMARY

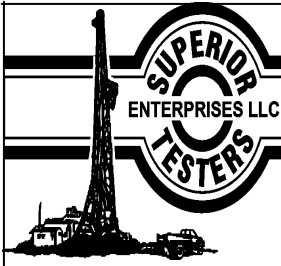
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1837.60	87.21	Initial Hydro-static
1	62.75	87.35	Open To Flow (1)
33	169.94	90.60	Shut-In(1)
80	926.76	94.31	End Shut-In(1)
81	182.27	94.14	Open To Flow (2)
124	264.07	98.21	Shut-In(2)
184	847.01	100.49	End Shut-In(2)
185	1786.20	100.86	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	OIL 70%OIL 30%MUD	0.59
580.00	GASSY OIL 30%GAS 70%OIL	8.14
0.00	420 GAS IN PIPE	0.00
0.00	GRAVITY OIL 44	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

L D DRILLING INC.  
 7SW 26TH AVE GREAT BEND KS  
 67530+6525  
 ATTN: JOSH AUSTIN

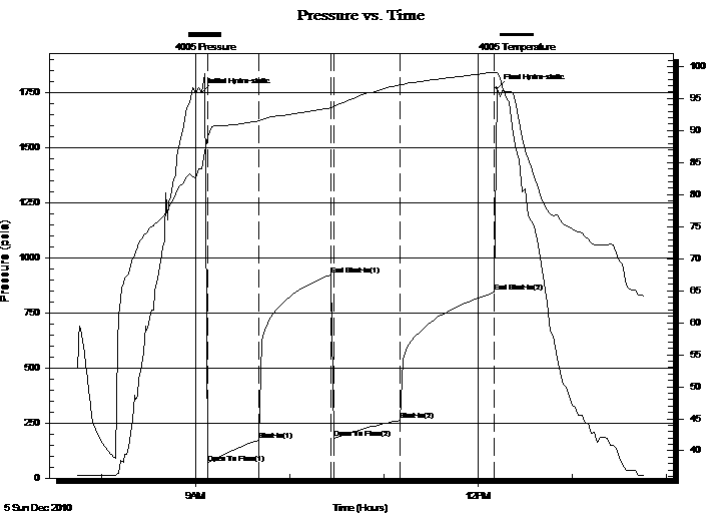
**MONTE #1-23**  
**23-21-12 STAFFORD**  
 Job Ticket: 16686 **DST#: 4**  
 Test Start: 2010.12.05 @ 07:45:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 09:07:30 Tester: JARED SCHECK  
 Time Test Ended: 14:07:00 Unit No: 3320-44-GB  
 Interval: **3585.00 ft (KB) To 3597.00 ft (KB) (TVD)** Reference Elevations: 1835.00 ft (KB)  
 Total Depth: 3597.00 ft (KB) (TVD) 1830.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 4005 Outside**  
 Press@RunDepth: 843.32 psia @ 3594.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.12.05 End Date: 2010.12.05 Last Calib.: 2010.12.05  
 Start Time: 07:45:00 End Time: 13:46:09 Time On Btm: 2010.12.05 @ 09:04:10  
 Time Off Btm: 2010.12.05 @ 12:12:10

**TEST COMMENT:** 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 4 MINUTES  
 45/INITIAL SHUT IN:6 INCH BLOW BACK  
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 8 MINUTES  
 60/FINAL SHUT IN:7 INCH BLOW BACK



## PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1751.89	84.07	Initial Hydro-static
4	66.89	89.02	Open To Flow (1)
36	170.64	91.56	Shut-In(1)
82	921.69	93.54	End Shut-In(1)
84	182.79	93.70	Open To Flow (2)
126	262.77	97.13	Shut-In(2)
186	843.32	99.07	End Shut-In(2)
188	1769.79	98.96	Final Hydro-static

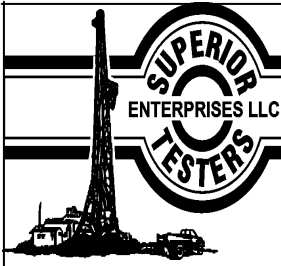
## Recovery

Length (ft)	Description	Volume (bbl)
120.00	OIL 70%OIL 30%MUD	0.59
580.00	GASSY OIL 30%GAS 70%OIL	8.14
0.00	420 GAS IN PIPE	0.00
0.00	GRAVITY OIL 44	0.00

## Gas Rates

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





# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

L D DRILLING INC.

**MONTE #1-23**

7SW 26TH AVE GREAT BEND KS  
67530+6525

**23-21-12 STAFFORD**

Job Ticket: 16686 **DST#: 4**

ATTN: JOSH AUSTIN

Test Start: 2010.12.05 @ 07:45:00

## Tool Information

Drill Pipe:	Length: 3458.00 ft	Diameter: 3.80 inches	Volume: 48.51 bbl	Tool Weight: 1000.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 49.10 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3585.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

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	
Hydraulic Tool	5.00			3575.00	
Packer	5.00			3580.00	21.00 Bottom Of Top Packer
Packer	5.00			3585.00	
Perforations	7.00			3592.00	
Recorder	1.00	8419	Inside	3593.00	
Recorder	1.00	4005	Outside	3594.00	
Bullnose	3.00			3597.00	12.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

L D DRILLING INC.

**MONTE #1-23**

7SW 26TH AVE GREAT BEND KS  
67530+6525

**23-21-12 STAFFORD**

Job Ticket: 16686

**DST#: 4**

ATTN: JOSH AUSTIN

Test Start: 2010.12.05 @ 07:45:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 54.00 sec/qt  
Water Loss: 11.20 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 10000.00 ppm  
Filter Cake: 2.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	OIL 70%OIL 30%MUD	0.590
580.00	GASSY OIL 30%GAS 70%OIL	8.136
0.00	420 GAS IN PIPE	0.000
0.00	GRAVITY OIL 44	0.000

Total Length: 700.00 ft Total Volume: 8.726 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

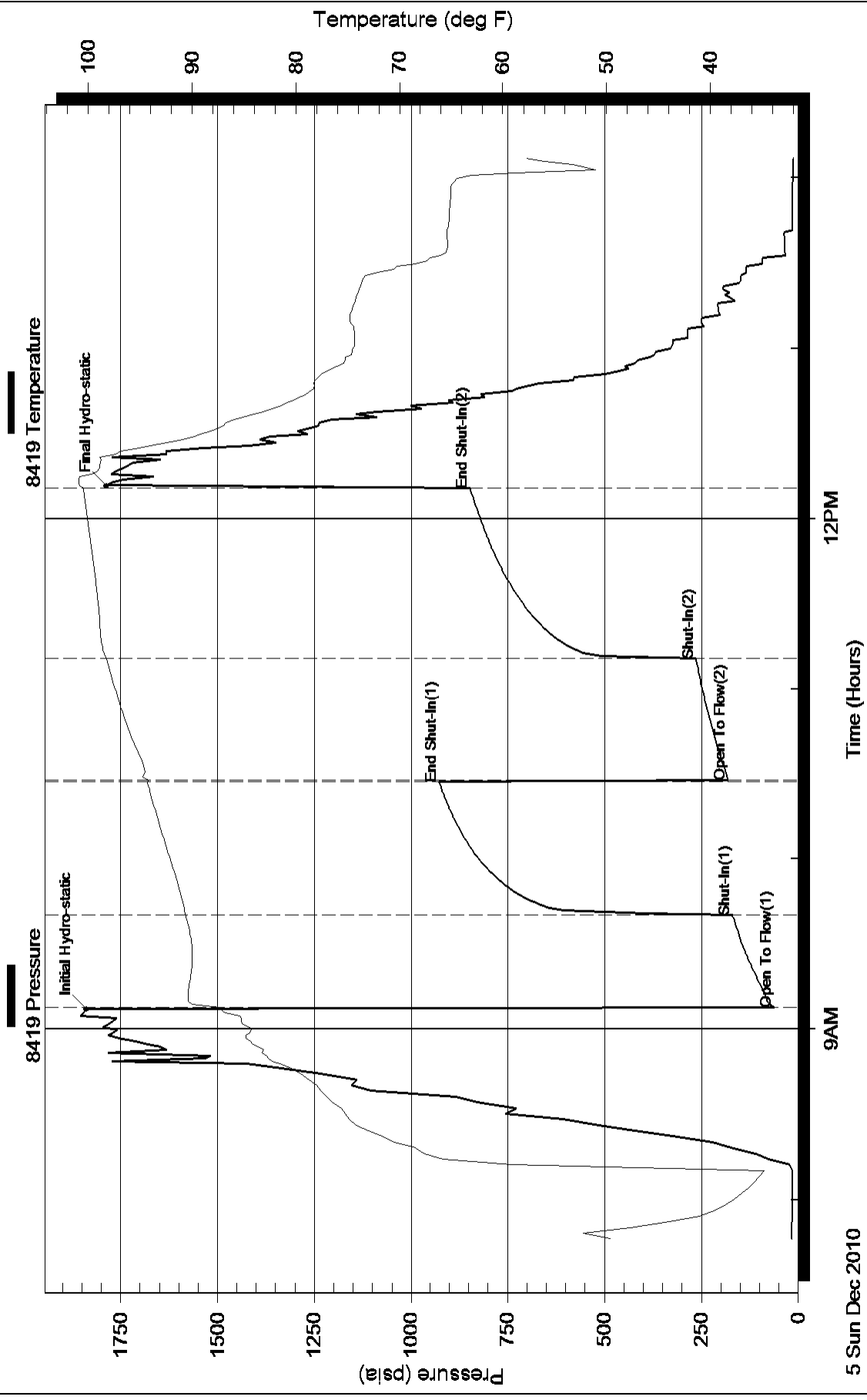
Serial #:

Laboratory Name:

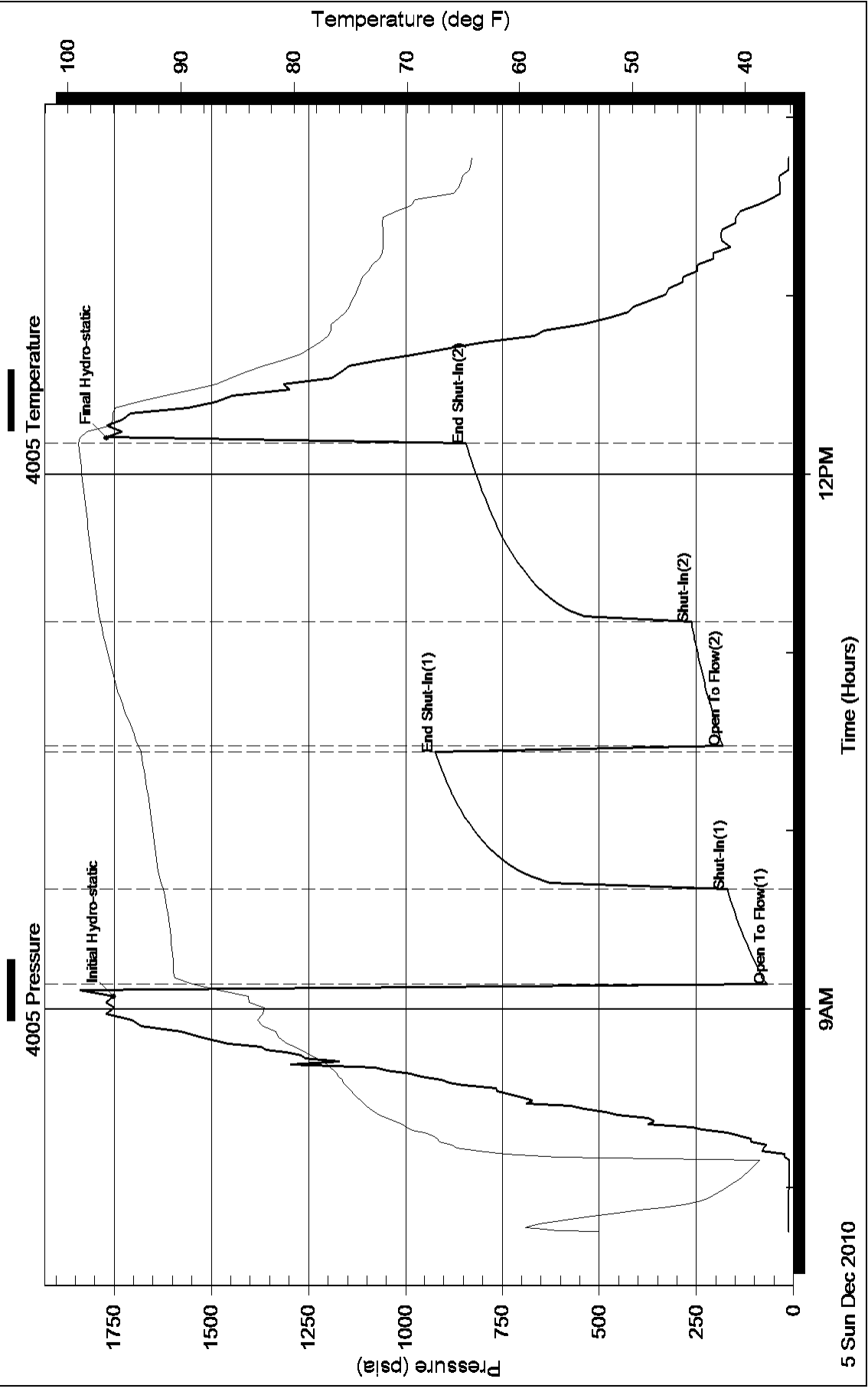
Laboratory Location:

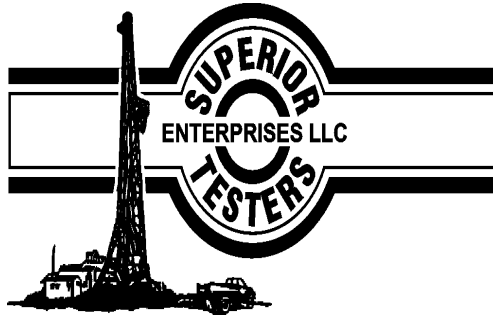
Recovery Comments:

### Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **L D DRILLING INC.**

7SW 26TH AVE  
67530+6525

GREAT BEND KS

ATTN: JOSH AUSTIN

**23-21-12 STAFFORD**

**MONTE #1-23**

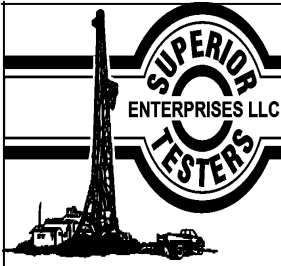
Start Date: 2010.12.05 @ 19:45:00

End Date: 2010.12.06 @ 02:28:30

Job Ticket #: 15687                      DST #: 5

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

Printed: 2010.12.06 @ 01:59:46



# DRILL STEM TEST REPORT

L D DRILLING INC.  
 7SW 26TH AVE GREAT BEND KS  
 67530+6525  
 ATTN: JOSH AUSTIN

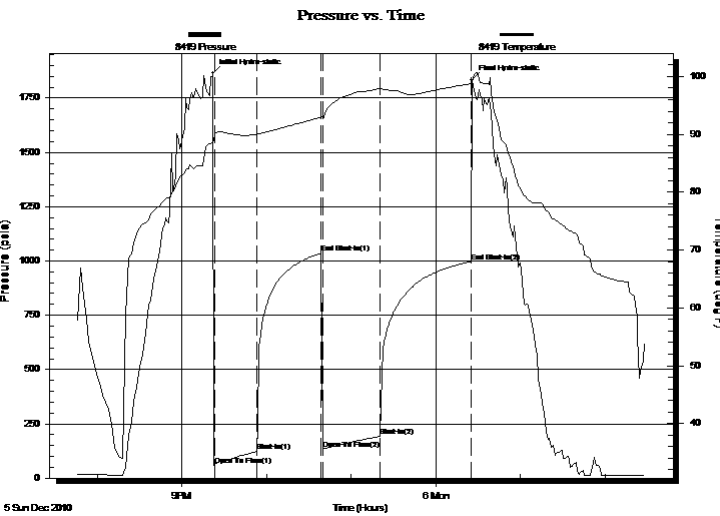
**MONTE #1-23**  
**23-21-12 STAFFORD**  
 Job Ticket: 15687 **DST#: 5**  
 Test Start: 2010.12.05 @ 19:45:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:23:00  
 Time Test Ended: 02:28:30  
 Interval: **3597.00 ft (KB) To 3609.00 ft (KB) (TVD)**  
 Total Depth: 3609.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 3320-22-GB  
 Reference Elevations: 1835.00 ft (KB)  
 1830.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 8419 Inside**  
 Press@RunDepth: 192.89 psia @ 3605.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.12.05 End Date: 2010.12.06 Last Calib.: 2010.12.06  
 Start Time: 19:45:00 End Time: 02:28:30 Time On Btm: 2010.12.05 @ 21:22:00  
 Time Off Btm: 2010.12.06 @ 00:25:30

**TEST COMMENT:** 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 7 MINUTES  
 45/INITIAL SHUT IN:7 INCH BLOW BACK  
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 15 MINUTES  
 60/FINAL SHUT IN:4 INCH BLOW BACK



## PRESSURE SUMMARY

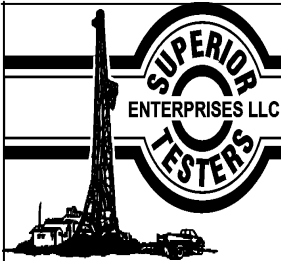
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1864.79	88.49	Initial Hydro-static
1	58.20	89.91	Open To Flow (1)
31	123.13	89.98	Shut-In(1)
77	1035.40	92.97	End Shut-In(1)
78	135.05	93.01	Open To Flow (2)
119	192.89	97.92	Shut-In(2)
183	998.09	98.79	End Shut-In(2)
184	1833.57	98.83	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUDDY OIL 15%MUD 85%OIL	0.59
420.00	CLEAN GASSY OIL 10%GAS 90%OIL	5.89
0.00	480 GAS IN PIPE	0.00
0.00	GRAVITY OIL 44	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

L D DRILLING INC.  
 7SW 26TH AVE GREAT BEND KS  
 67530+6525  
 ATTN: JOSH AUSTIN

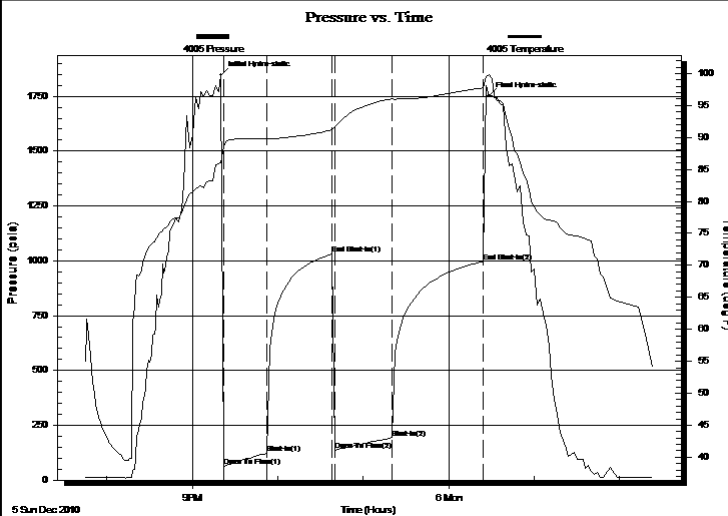
**MONTE #1-23**  
**23-21-12 STAFFORD**  
 Job Ticket: 15687 **DST#: 5**  
 Test Start: 2010.12.05 @ 19:45:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**  
 Deviated: No Whipstock: ft (KB)  
 Time Tool Opened: 21:23:00  
 Time Test Ended: 02:28:30  
 Interval: **3597.00 ft (KB) To 3609.00 ft (KB) (TVD)**  
 Total Depth: 3609.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair  
 Test Type: Conventional Bottom Hole (Initial)  
 Tester: JARED SCHECK  
 Unit No: 3320-22-GB  
 Reference Elevations: 1835.00 ft (KB)  
 1830.00 ft (CF)  
 KB to GR/CF: 5.00 ft

**Serial #: 4005 Outside**  
 Press@RunDepth: 995.81 psia @ 3606.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.12.05 End Date: 2010.12.06 Last Calib.: 2010.12.06  
 Start Time: 19:45:00 End Time: 02:23:09 Time On Btm: 2010.12.05 @ 21:20:10  
 Time Off Btm: 2010.12.06 @ 00:28:10

**TEST COMMENT:** 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 7 MINUTES  
 45/INITIAL SHUT IN:7 INCH BLOW BACK  
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 15 MINUTES  
 60/FINAL SHUT IN:4 INCH BLOW BACK



## PRESSURE SUMMARY

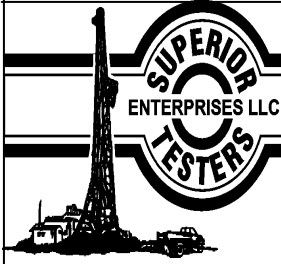
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1845.68	86.02	Initial Hydro-static
2	64.36	88.54	Open To Flow (1)
32	122.63	89.74	Shut-In(1)
78	1031.94	91.16	End Shut-In(1)
80	138.08	91.61	Open To Flow (2)
120	193.04	96.01	Shut-In(2)
184	995.81	97.77	End Shut-In(2)
188	1750.62	99.85	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUDDY OIL 15%MUD 85%OIL	0.59
420.00	CLEAN GASSY OIL 10%GAS 90%OIL	5.89
0.00	480 GAS IN PIPE	0.00
0.00	GRAVITY OIL 44	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

L D DRILLING INC.

**MONTE #1-23**

7SW 26TH AVE GREAT BEND KS  
67530+6525

**23-21-12 STAFFORD**

Job Ticket: 15687

**DST#: 5**

ATTN: JOSH AUSTIN

Test Start: 2010.12.05 @ 19:45:00

## Tool Information

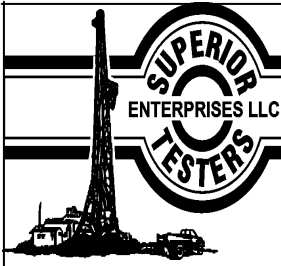
Drill Pipe:	Length: 3486.00 ft	Diameter: 3.80 inches	Volume: 48.90 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 53000.00 lb
			<u>Total Volume: 49.49 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3597.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3577.00	
Shut-In Tool	5.00			3582.00	
Hydraulic Tool	5.00			3587.00	
Packer	5.00			3592.00	21.00 Bottom Of Top Packer
Packer	5.00			3597.00	
Perforations	7.00			3604.00	
Recorder	1.00	8419	Inside	3605.00	
Recorder	1.00	4005	Outside	3606.00	
Bullnose	3.00			3609.00	12.00 Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</b>				





# DRILL STEM TEST REPORT

**FLUID SUMMARY**

L D DRILLING INC.

**MONTE #1-23**

7SW 26TH AVE      GREAT BEND KS  
67530+6525

**23-21-12 STAFFORD**

Job Ticket: 15687

**DST#: 5**

ATTN: JOSH AUSTIN

Test Start: 2010.12.05 @ 19:45:00

## Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 56.00 sec/qt  
Water Loss: 10.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 10000.00 ppm  
Filter Cake: 2.00 inches

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

Oil API: deg API  
Water Salinity: ppm

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MUDDY OIL 15%MUD 85%OIL	0.590
420.00	CLEAN GASSY OIL 10%GAS 90%OIL	5.891
0.00	480 GAS IN PIPE	0.000
0.00	GRAVITY OIL 44	0.000

Total Length: 540.00 ft      Total Volume: 6.481 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

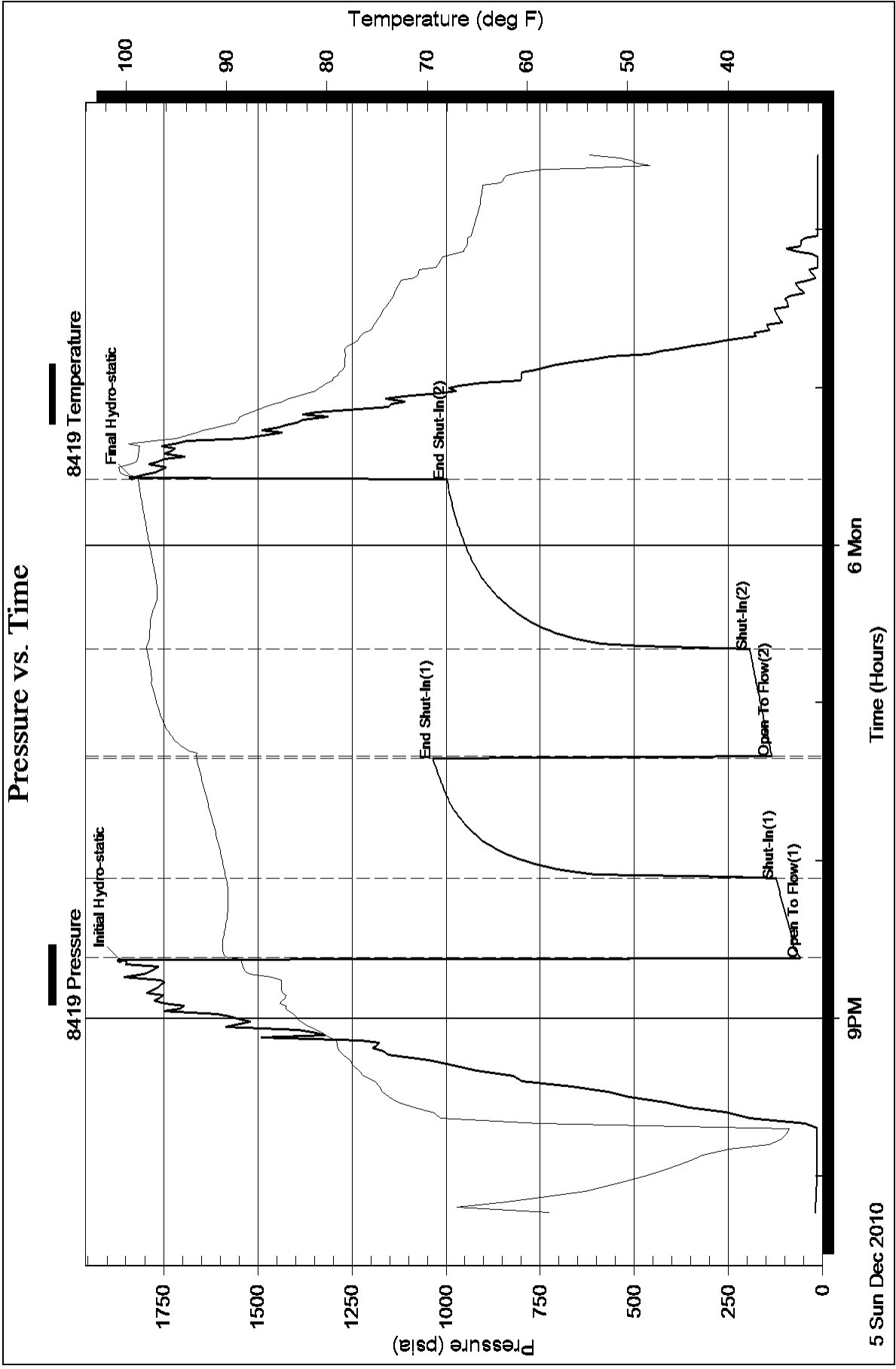
Serial #:

Laboratory Name:

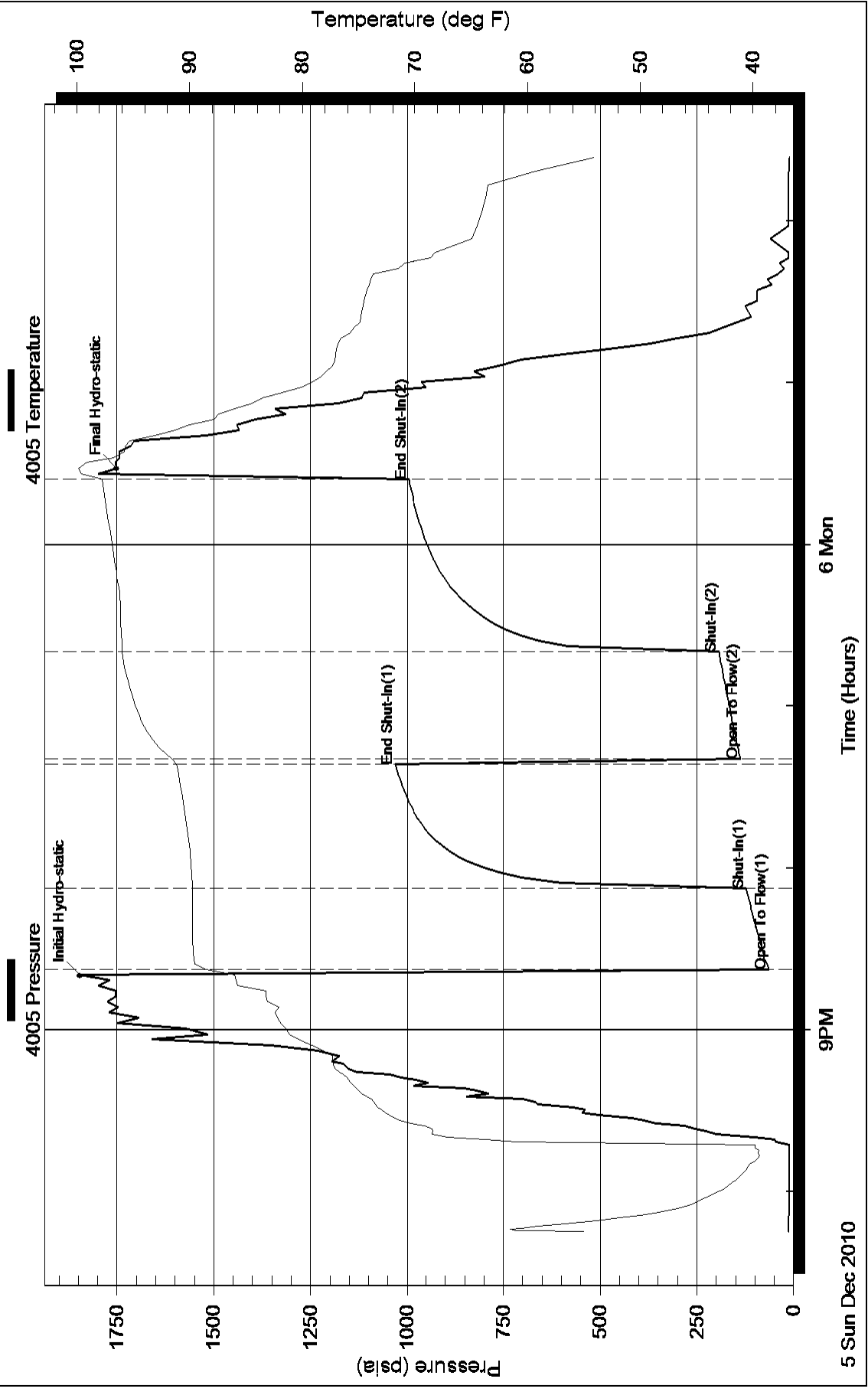
Laboratory Location:

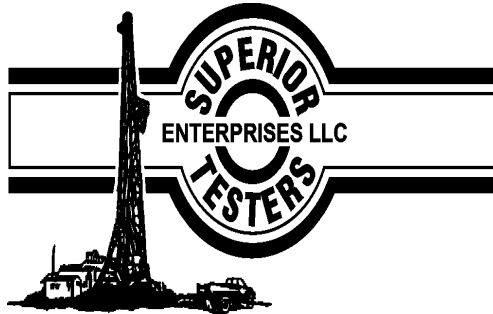
Recovery Comments:

# Pressure vs. Time



### Pressure vs. Time





## DRILL STEM TEST REPORT

Prepared For: **L D DRILLING INC.**

7SW 26TH AVE  
67530+6525

GREAT BEND KS

ATTN: JOSH AUSTIN

**23-21-12 STAFFORD**

**MONTE #1-23**

Start Date: 2010.12.06 @ 07:05:00

End Date: 2010.12.06 @ 13:28:30

Job Ticket #: 15688                      DST #: 6

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

Printed: 2010.12.06 @ 13:54:43



# DRILL STEM TEST REPORT

L D DRILLING INC.  
 7SW 26TH AVE GREAT BEND KS  
 67530+6525  
 ATTN: JOSH AUSTIN

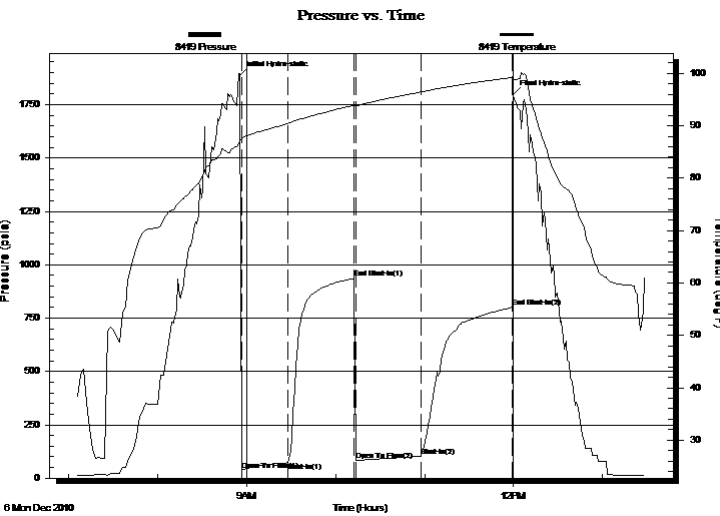
**MONTE #1-23**  
**23-21-12 STAFFORD**  
 Job Ticket: 15688 **DST#: 6**  
 Test Start: 2010.12.06 @ 07:05:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 08:56:30 Tester: JARED SCHECK  
 Time Test Ended: 13:28:30 Unit No: 3320-44-GB  
 Interval: **3609.00 ft (KB) To 3621.00 ft (KB) (TVD)** Reference Elevations: 1835.00 ft (KB)  
 Total Depth: 3621.00 ft (KB) (TVD) 1830.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 8419 Inside**  
 Press@RunDepth: 100.92 psia @ 3617.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.12.06 End Date: 2010.12.06 Last Calib.: 2010.12.06  
 Start Time: 07:05:00 End Time: 13:28:30 Time On Btm: 2010.12.06 @ 08:55:30  
 Time Off Btm: 2010.12.06 @ 12:00:00

**TEST COMMENT:** 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 15 MINUTES  
 45/INITIAL SHUT IN:4 INCH BLOW BACK  
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 45 MINUTES  
 60/FINAL SHUT IN:3 INCH



## PRESSURE SUMMARY

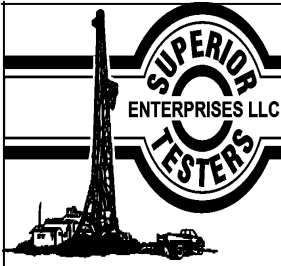
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1888.14	87.18	Initial Hydro-static
1	37.02	87.35	Open To Flow (1)
33	75.36	90.46	Shut-In(1)
77	936.34	93.92	End Shut-In(1)
78	81.94	93.79	Open To Flow (2)
122	100.92	96.42	Shut-In(2)
184	801.39	99.21	End Shut-In(2)
185	1798.86	98.97	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
120.00	MUDDY OIL 10%MUD 90%OIL	0.59
120.00	CLEAN GASSY OIL 10%GAS 90%OIL	1.68
0.00	180 GAS IN PIPE	0.00
0.00	GRAVITY OIL 45	0.00

## Gas Rates

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



# DRILL STEM TEST REPORT

L D DRILLING INC.  
 7SW 26TH AVE GREAT BEND KS  
 67530+6525  
 ATTN: JOSH AUSTIN

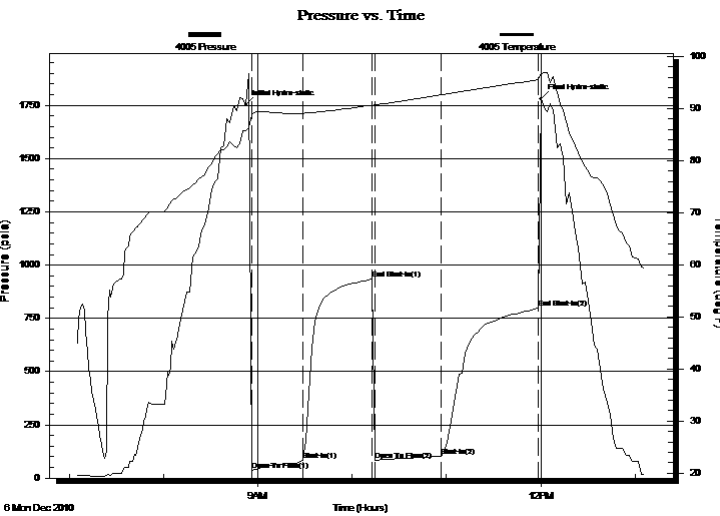
**MONTE #1-23**  
**23-21-12 STAFFORD**  
 Job Ticket: 15688 **DST#: 6**  
 Test Start: 2010.12.06 @ 07:05:00

## GENERAL INFORMATION:

Formation: **ARBUCKLE**  
 Deviated: No Whipstock: ft (KB)  
 Test Type: Conventional Bottom Hole (Initial)  
 Time Tool Opened: 08:56:30 Tester: JARED SCHECK  
 Time Test Ended: 13:28:30 Unit No: 3320-44-GB  
 Interval: **3609.00 ft (KB) To 3621.00 ft (KB) (TVD)** Reference Elevations: 1835.00 ft (KB)  
 Total Depth: 3621.00 ft (KB) (TVD) 1830.00 ft (CF)  
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 5.00 ft

**Serial #: 4005 Outside**  
 Press@RunDepth: 797.99 psia @ 3618.00 ft (KB) Capacity: 5000.00 psia  
 Start Date: 2010.12.06 End Date: 2010.12.06 Last Calib.: 2010.12.06  
 Start Time: 07:05:00 End Time: 13:06:09 Time On Btm: 2010.12.06 @ 08:52:09  
 Time Off Btm: 2010.12.06 @ 12:00:10

**TEST COMMENT:** 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 15 MINUTES  
 45/INITIAL SHUT IN:4 INCH BLOW BACK  
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 45 MINUTES  
 60/FINAL SHUT IN:3 INCH



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1752.92	85.73	Initial Hydro-static
5	37.75	88.86	Open To Flow (1)
37	84.70	89.08	Shut-In(1)
81	933.92	90.62	End Shut-In(1)
83	82.83	90.69	Open To Flow (2)
125	102.03	92.61	Shut-In(2)
187	797.99	95.46	End Shut-In(2)
189	1780.03	96.71	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
120.00	MUDDY OIL 10%MUD 90%OIL	0.59
120.00	CLEAN GASSY OIL 10%GAS 90%OIL	1.68
0.00	180 GAS IN PIPE	0.00
0.00	GRAVITY OIL 45	0.00

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

L D DRILLING INC.

**MONTE #1-23**

7SW 26TH AVE      GREAT BEND KS  
67530+6525

**23-21-12 STAFFORD**

Job Ticket: 15688      **DST#: 6**

ATTN: JOSH AUSTIN

Test Start: 2010.12.06 @ 07:05:00

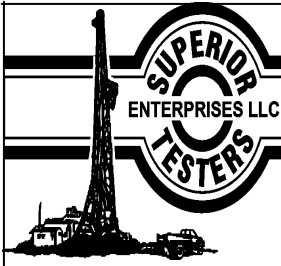
## Tool Information

Drill Pipe:	Length: 3487.00 ft	Diameter: 3.80 inches	Volume: 48.91 bbl	Tool Weight: 1000.00 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: 120.00 ft	Diameter: 2.25 inches	Volume: 0.59 bbl	Weight to Pull Loose: 54000.00 lb
			<u>Total Volume: 49.50 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.00 ft			String Weight: Initial 49000.00 lb
Depth to Top Packer:	3609.00 ft			Final 49000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	12.00 ft			
Tool Length:	33.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
------------------	-------------	------------	----------	------------	----------------

Change Over Sub	1.00			3589.00	
Shut-In Tool	5.00			3594.00	
Hydraulic Tool	5.00			3599.00	
Packer	5.00			3604.00	21.00      Bottom Of Top Packer
Packer	5.00			3609.00	
Perforations	7.00			3616.00	
Recorder	1.00	8419	Inside	3617.00	
Recorder	1.00	4005	Outside	3618.00	
Bullnose	3.00			3621.00	12.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>33.00</b>				



# DRILL STEM TEST REPORT

## FLUID SUMMARY

L D DRILLING INC.

**MONTE #1-23**

7SW 26TH AVE GREAT BEND KS  
67530+6525

**23-21-12 STAFFORD**

Job Ticket: 15688

**DST#: 6**

ATTN: JOSH AUSTIN

Test Start: 2010.12.06 @ 07:05:00

### Mud and Cushion Information

Mud Type: Gel Chem  
Mud Weight: 9.00 lb/gal  
Viscosity: 63.00 sec/qt  
Water Loss: 15.80 in<sup>3</sup>  
Resistivity: ohm.m  
Salinity: 14000.00 ppm  
Filter Cake: 2.00 inches

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

Oil API: deg API  
Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	MUDDY OIL 10%MUD 90%OIL	0.590
120.00	CLEAN GASSY OIL 10%GAS 90%OIL	1.683
0.00	180 GAS IN PIPE	0.000
0.00	GRAVITY OIL 45	0.000

Total Length: 240.00 ft Total Volume: 2.273 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

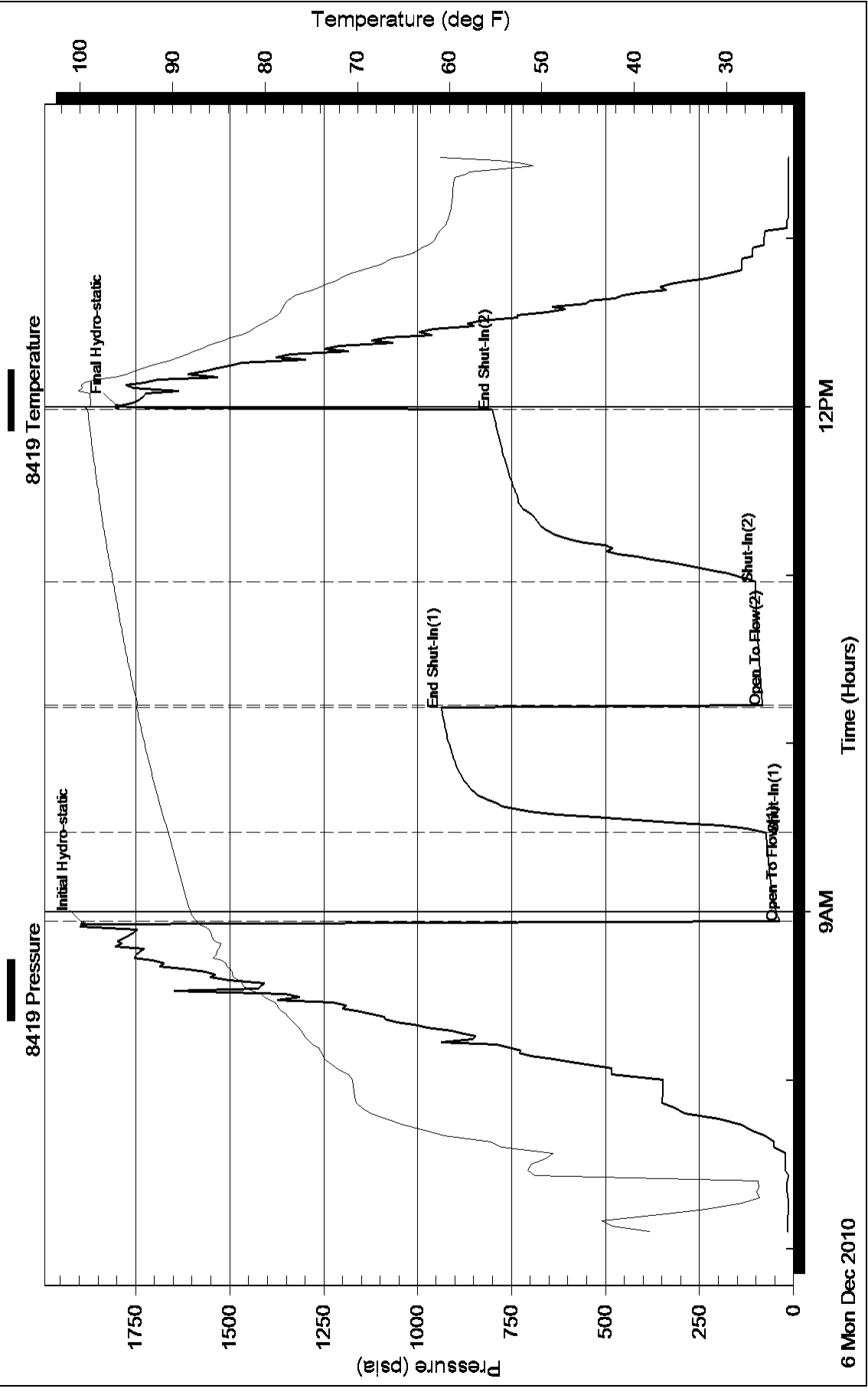
Laboratory Name:

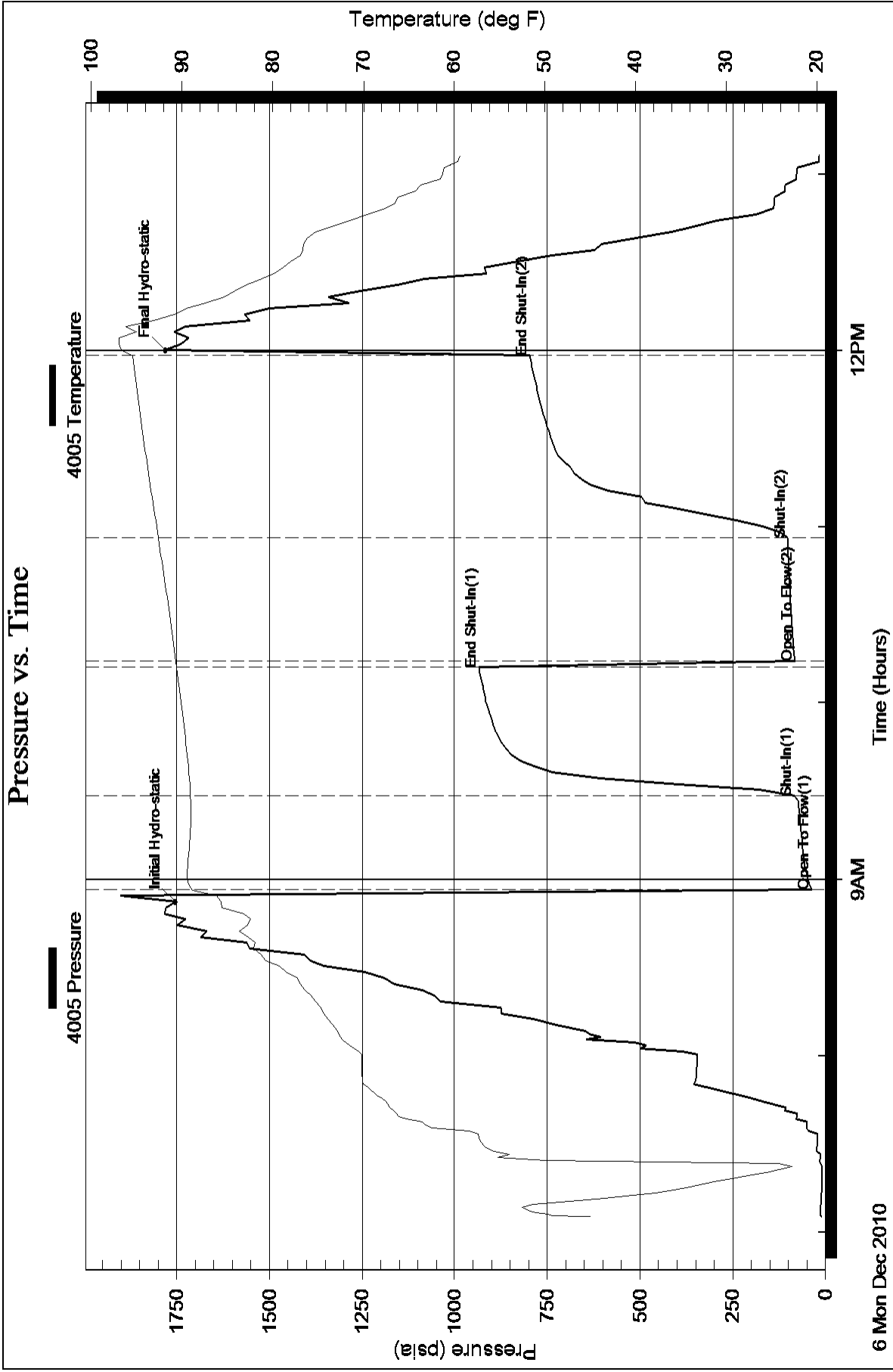
Laboratory Location:

Recovery Comments:



### Pressure vs. Time







James B. Musgrave  
Petroleum Geologist

Office  
(620) 333-4345

212 Main St • PO Box 215 • Clarita KS 67505

Home  
(620) 587-3444

# GEOLOGIST'S REPORT

## DRILLING TIME AND SAMPLE LOG

COMPANY L.D. Drilling Inc

LEASE Monte #1-23

FIELD Steve

LOCATION Nu-Nu-So-Ne 1625' FNL & 1177' FEL

SEC 23 TWP 21s RGE 12w

COUNTY Stafford STATE Kansas

CONTRACTOR Petromark Drilling (rig #2)

SPUD 11/29/2010 COMP 12/7/2010

RTD 3720 LTD 3718

MUD UP 2700 TYPE MUD Chemical Displaced

SAMPLES SAVED FROM 2900 TO 3720

DRILLING TIME KEPT FROM 2800 TO 3720 RTD

SAMPLES EXAMINED FROM 2900 TO 3720 /

GEOLOGICAL SUPERVISION FROM 3115 TO 3720

GEOLOGIST ON WELL Josh Austin

FORMATION TOPS	LOG	SAMPLES
anhydrite	612 +1223	WTD 3718 - 1883
Base anhydrite	632 +1203	
Heebner		3095 - 1260
Toronto	3113 -1278	
Douglas	3138 -1303	
Brown lime	3222 -1387	
Wansing	3240 -1405	
Base Kansas City	3468 -1433	

ELEVATIONS

KB 1835

DF

GL 1830

Measurements Are All From KB

CASING  
8 5/8" @ 350'  
PRODUCTION 5 1/2" @ 3719'

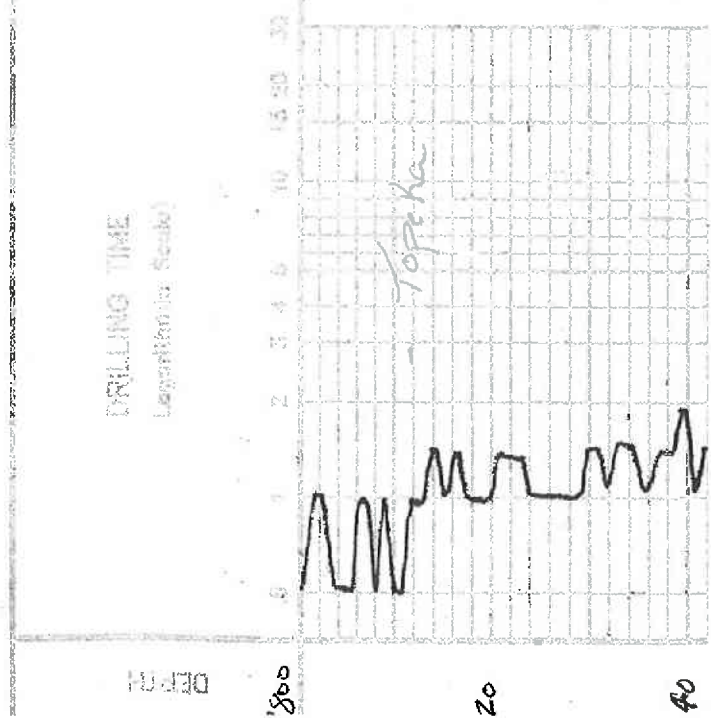
ELECTRICAL SURVEYS  
By Log-Tech

5 1/2" production casing was set and cemented at 3719' (one ft. off bottom)

Joshua R. Austin  
Petroleum Geologist

### LEGEND

- Anhydrite
- Soft Sandstone
- Shale
- Carbonate
- Chert
- Dolomite



REMARKS

SAMPLE DESCRIPTIONS

60 80 2900 20 40 60 80 3000 20 40 60 80 3100



Heebner 3097  
-1262  
Toronto 3116

b/k Carb sh.

ls. crm = Tan fac dense  
Poor vis.

ls. gray-crm f. red xl  
South of fac first dense  
w/s

ls. aa (barren)

b/k carb shale

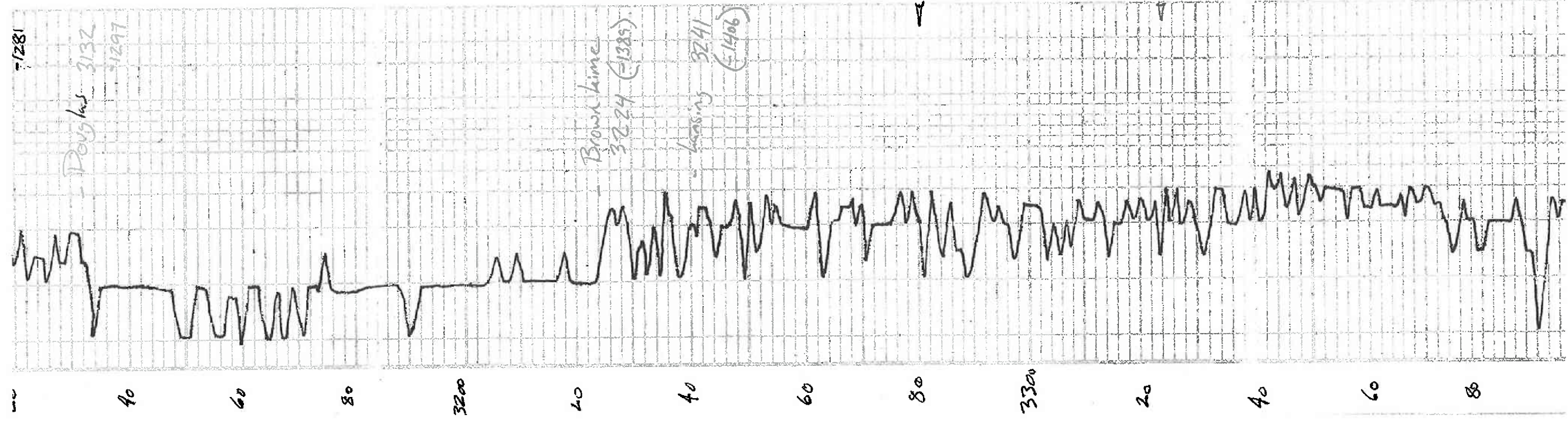
ls. crm. gy f. red xl  
f. fine fine grain. red  
to gray brown A w/s

ls. crm = Tan fac slightly  
dilatate. poor vis. dense  
sl. dy w/s

ls. Tan bott fac dense  
sl. fac to dilatate ls  
dy poor vis.  
+ s. gy = Tan brown A

w. b/k carb shale

gy = green sh.



1281

Douglas 3132  
31297

Brown lime  
3224 (-1385)  
Leasing 3241  
(-1406)

1 dolomite to pipe type!  
w/s

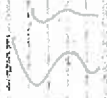
1835 KB

Shale, gray - Mar. grayish green

Shale, as mica in part

of Seds; gray - grayish green  
w/s mica sub rounded sub & brittle  
w/s

Shale, sand as



gray - dark gray shales

Mica in part

ls; Tan fxl. cherty &  
Poor vis

ls - cream f - med xl. fass  
sh. green for M. w/s

ls, gray - cream fass trace  
Poorly dev. - cherty slightly  
w/s

ls, tan - cream highly ool in part  
Poor vis. cherty ??? to br. sfa  
Nsta No. odor

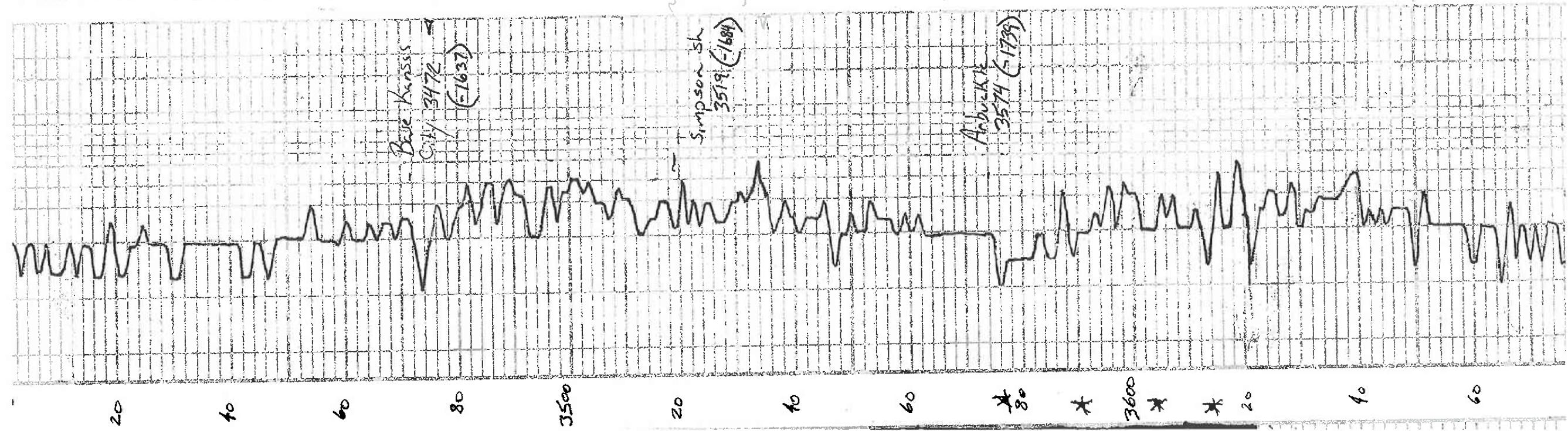
ls - cream fxl - cherty, to rusty  
golden br. - br. sfa Nsta w/  
to cream heavy fass &

ls; as to spring to very E. cherty

ls, gray fass, dense, & poor  
blk. str. to sp. to fl. alon

ls, cream - gray fass trace  
fass dense cherty in part - poorly  
dev. & ??? to br. blk. str  
Nsta No. odor

ls; Tan fxl. Sect. v. gray. lxl  
w/s - br. sfa str. fass  
DST #1 3368-3415  
30-45-45-60



7/1000 - 7/1000  
 Chalky to brn sh. ASPG (color)

15' can. sh. st. loss  
 Chalky poorly dec. spotty  
 brn sh. spotty sfo. st. odor

1. blk carb sh  
 20' can. sh. f. xc. slightly  
 brn sh. w/s

gray-green sh.  
 15' can. = yellow, fine mica foss  
 chalky gran. to part. brn sh.

blk. sh. very st. odor  
 f. orange-brn. red. brn. A  
 yellow. can. brn. A. brn. sh. top

fine. can. wh. brn. A  
 few. brn. top. 1/5  
 green. gray soft sh.

100' sh. soft w/s. sh.  
 gray-green soft shale  
 sandy in part, st. mica.

Del. sh. k. tan. can. ml. coarse xl  
 fr. sh. 14' brn sh. sfo. st.  
 sh. odor

10' sh. gray. can. f. mica. xl  
 fr. sh. 14' brn sh. sfo. st. f. odor

Del. sh. k. tan. can. ml. coarse xl  
 fr. sh. 14' brn sh. sfo. st. f. odor

Del. sh. k. tan. can. ml. coarse xl  
 fr. sh. 14' brn sh. sfo. st. f. odor

Final Strong OBB in 2 min  
 OBB blowback

Recovery 1380' 91P  
 120' 94UCO  
 (45% 30% 5/m 20%)  
 120' 94UCO  
 (40% 45% 5/m 10% w)  
 120' water

Pressure, ISIP 926  
 FSIP 909  
 IFP 10325  
 FFP 155-20  
 HSH 1769  
 1707

DST #2 3470-3535  
 30-30-45-45  
 Blow. weak  
 Recovery 20' mark  
 Pressure, ISIP 98 PSI  
 FSIP 92 PSI  
 IFP 62-65 PSI  
 FFP 60-70 PSI  
 HSH 184 PSI  
 -1445

DST #3 3530-3585  
 30-30-45-60  
 Blow, Strong OBB in 16 min  
 fr. blowback  
 Final OBB in 15 min.  
 1 inch blowback  
 Recovery 600' 91P  
 280' 94UCO  
 120' muddy oil

Pressure, ISIP 1121 PSI  
 FSIP 1140 "  
 IFP 88-137 "  
 FFP 149-176 "  
 HSH 1840 "  
 -1709 "

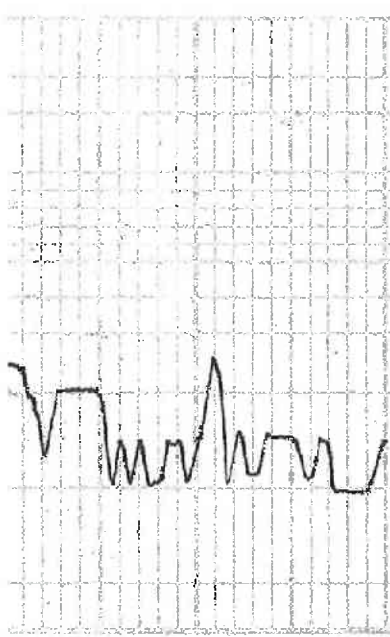
DST #4 3585-3597  
 30-45-45-60  
 Blow, Strong OBB in 4 min  
 fr. blowback  
 Final OBB in 8 min  
 7" blow back

Recovery 420 91P  
 580' 94UCO  
 120' oil  
 Pressure ISIP 926 PSI  
 FSIP 847 "  
 IFP 62-119 "  
 FFP 182-264 "

DST #5 3597-3609  
 30-45-45-60  
 Blow, Strong OBB in 7 min  
 7" blowback  
 Final OBB in 5 min  
 4" blowback

Pressure ISIP 926 PSI  
 FSIP 847 "  
 IFP 62-119 "  
 FFP 182-264 "  
 HSH 1837 "  
 -1786 "

DST #5 3597-3609  
 30-45-45-60  
 Blow, Strong OBB in 7 min  
 7" blowback  
 Final OBB in 5 min  
 4" blowback



Retroy Total Depth

372.0

+ 550' clean A

SS

Potomac sea

+ 600' heavy A

Potomac; 17.5% wh. acc.

5% 50% Poor. V. acc. NS

+ 100' A

Recovery 480' 918

420' C90

120 muddy O:1

Pressures ISIP 1035

FSIP 998

1FP 58-123

FFP 135-192

ASH 1864

-1885

DST #6 3609.3621

30 - 45 - 45-60

Blow; Strong OBB in bank

4" blow back

Final 088 in 45 min

3" blow back

Recovery 180' 918

120' C90

120' C10

Pressures ISIP 936

FSIP 801

FFP 37.75

FFP 81-100

ASH 1886

-1798