



KANSAS CORPORATION COMMISSION 1082635  
OIL & GAS CONSERVATION DIVISION

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

OPERATOR: License # 6768  
Name: Carrie Exploration & Development, a General Partnership  
Address 1: 210 W 22ND  
Address 2: \_\_\_\_\_  
City: HAYS State: KS Zip: 67601 + \_\_\_\_\_  
Contact Person: RON HEROLD  
Phone: (913) 961-2760  
CONTRACTOR: License # 33350  
Name: Southwind Drilling, Inc.  
Wellsite Geologist: HERB DEINES  
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 #: \_\_\_\_\_

<u>01/16/2012</u>	<u>01/24/2012</u>	<u>02/03/2012</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-009-25646-00-00  
Spot Description: \_\_\_\_\_  
S2 S2 N2 NE Sec. 25 Twp. 19 S. R. 11  East  West  
1010 Feet from  North /  South Line of Section  
1320 Feet from  East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Barton  
Lease Name: H - ROTH Well #: C-1  
Field Name: CHASE SILICA  
Producing Formation: ARBUCKLE  
Elevation: Ground: 1771 Kelly Bushing: 1779  
Total Depth: 3438 Plug Back Total Depth: 3408  
Amount of Surface Pipe Set and Cemented at: 256 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: 60000 ppm Fluid volume: 500 bbls  
Dewatering method used: Hauled to Disposal  
Location of fluid disposal if hauled offsite:  
Operator Name: BOB'S OIL SERVICE  
Lease Name: SIEKER License #: 32408  
Quarter NW Sec. 35 Twp. 19 S. R. 11  East  West  
County: BARTON Permit #: D26497

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: Deanna Gerrard Date: 06/11/2012



1082635

Operator Name: Carrie Exploration & Development, a General Partnership Lease Name: H - ROTH Well #: C-1  
 Sec. 25 Twp. 19 S. R. 11  East  West County: Barton

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

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:  DUAL INDUCTION LOG DUAL COMPENSATED POROSITY LOG MICRORESISTIVITY LOG	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>TOPEKA</td> <td>2618</td> <td>-839</td> </tr> <tr> <td>HEEBNER SHALE</td> <td>2880</td> <td>-1101</td> </tr> <tr> <td>LKC</td> <td>3030</td> <td>-1251</td> </tr> <tr> <td>BKC</td> <td>3276</td> <td>-1497</td> </tr> <tr> <td>ARBUCKLE</td> <td>3302</td> <td>-1523</td> </tr> <tr> <td>RTD</td> <td>3438</td> <td>-1659</td> </tr> </tbody> </table>	Name	Top	Datum	TOPEKA	2618	-839	HEEBNER SHALE	2880	-1101	LKC	3030	-1251	BKC	3276	-1497	ARBUCKLE	3302	-1523	RTD	3438	-1659
Name	Top	Datum																				
TOPEKA	2618	-839																				
HEEBNER SHALE	2880	-1101																				
LKC	3030	-1251																				
BKC	3276	-1497																				
ARBUCKLE	3302	-1523																				
RTD	3438	-1659																				

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
SURFACE	12.25	8.625	24	256	COMMON	200	2%GEL, 3%CC
PRODUCTION	7.875	5.5	14	3430	AA2	125	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
2	3338-3340	120G 15%NEFE	3338-3340
	CIBP 3336		
2	3311		
2	3304		

TUBING RECORD:	Size: 2.375	Set At: 3300	Packer At: NONE	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. 02/04/2012		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____		
Estimated Production Per 24 Hours	Oil Bbts. 20	Gas Mcf 0	Water Bbts. 0	Gas-Oil Ratio _____ Gravity _____

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: <u>3304-3311</u>
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# INVOICE

PO Box 93999  
Southlake, TX 76092

Invoice Number: 129931  
Invoice Date: Jan 17, 2012  
Page: 1

C

Voice: (817) 546-7282  
Fax: (817) 246-3361

Carrie Exploration & Development LLC  
210 West 22nd Street  
Hays, KS 67601

Customer ID	Well Name or Customer ID	Payment Terms	
Carrie	H-Roth #C-1	Net 30 Days	
Job Location	Camp Location	Service Date	Due Date
KS2-01	Great Bend	Jan 17, 2012	2/16/12

Quantity	Item	Description	Unit Price	Amount
200.00	MAT	Class A Common	16.25	3,250.00
4.00	MAT	Gel	21.25	85.00
7.00	MAT	Chloride	58.20	407.40
211.00	SER	Handling	2.25	474.75
10.00	SER	Mileage	23.21	232.10
1.00	SER	Surface	1,125.00	1,125.00
10.00	SER	Heavy Vehicle Mileage	7.00	70.00
10.00	SER	Light Vehicle Mileage	4.00	40.00
1.00	EQP	8 5/8 Wooden Plug	92.00	92.00
1.00	EQUIP OPER	Bobby Roller		
1.00	OPER ASSIST	Dustin Chambers		
1.00	OPER ASSIST	Jonathon Ploutz		

pd  
1-29-12  
#  
3014

Subtotal	5,776.25
Sales Tax	279.91
Total Invoice Amount	6,056.16
Payment/Credit Applied	
<b>TOTAL</b>	<b>6,056.16</b>

ALL PRICES ARE NET, PAYABLE  
30 DAYS FOLLOWING DATE OF  
INVOICE. 1 1/2% CHARGED  
THEREAFTER. IF ACCOUNT IS  
CURRENT, TAKE DISCOUNT OF

ONLY IF PAID ON OR BEFORE

479828

# ALLIED CEMENTING CO., LLC. 042363

REMIT TO P.O. BOX 31  
RUSSELL, KANSAS 67665

SERVICE POINT:  
Great Bend KS

DATE <u>1-17-12</u>	SEC. <u>25</u>	TWP. <u>19</u>	RANGE <u>11</u>	CALLED OUT	ON LOCATION	JOB START <u>1145am</u>	JOB FINISH <u>1215pm</u>
LEASE <u>H-Roth</u>		WELL# <u>C-1</u>		LOCATION <u>Ellinwood Xs East on 56 to</u>		COUNTY <u>Barton</u>	STATE <u>KS</u>
OLD OR NEW (Circle one) <u>NEW</u>				<u>County line 1 3/4 North West into</u>			

CONTRACTOR Southwind Ry #6 OWNER Carve Exploration

TYPE OF JOB Surface

HOLE SIZE 12 1/4 I.D. 260

CASING SIZE 9 5/8 20# DEPTH 256

TUBING SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_

DRILL PIPE 4 1/2 DEPTH \_\_\_\_\_

TOOL \_\_\_\_\_ DEPTH \_\_\_\_\_

PRES. MAX \_\_\_\_\_ MINIMUM \_\_\_\_\_

MEAS. LINE \_\_\_\_\_ SHOE JOINT \_\_\_\_\_

CEMENT LEFT IN CSG. 15BT

PERFS. \_\_\_\_\_

DISPLACEMENT Freshwater

CEMENT

AMOUNT ORDERED 200 sq Corn 3% cc

2% gel

EQUIPMENT

PUMP TRUCK CEMENTER Bob Goller

# 366 HELPER Quatin C.

BULK TRUCK

# 341 DRIVER Jan P.

BULK TRUCK

# \_\_\_\_\_ DRIVER \_\_\_\_\_

COMMON	<u>200</u>	@	<u>16.25</u>	<u>3250.00</u>
POZMIX		@		
GEL	<u>4</u>	@	<u>21.25</u>	<u>85.00</u>
CHLORIDE	<u>7</u>	@	<u>58.20</u>	<u>407.40</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>211</u>	@	<u>2.25</u>	<u>474.25</u>
MILEAGE	<u>211 x 184.11</u>			<u>232.12</u>
TOTAL				<u>4,449.25</u>

REMARKS:

Pipe on bottom break circulation with reg  
fluid. Mix 200 sq Corn 3% cc 2% gel  
shut down Release plus change valves  
displace with 15.25 bbl Freshwater  
and shut in.  
Cement did circulate

SERVICE

DEPTH OF JOB	<u>256</u>			
PUMP TRUCK CHARGE			<u>1125.00</u>	
EXTRA FOOTAGE		@		
MILEAGE	<u>HUM 10</u>	@	<u>70.00</u>	
MANIFOLD		@		
	<u>HUM 10</u>	@	<u>40.00</u>	
		@		
TOTAL				<u>1235.00</u>

CHARGE TO: Carve Explorations

STREET \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

PLUG & FLOAT EQUIPMENT

<u>wooden plug</u>	@	<u>92.00</u>	<u>92.00</u>	
	@			
	@			
	@			
TOTAL				<u>92.00</u>

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

PRINTED NAME Wesley Pfaff

SIGNATURE Wesley Pfaff

SALES TAX (If Any) \_\_\_\_\_

TOTAL CHARGES 5,776.25

DISCOUNT 50% 2098 1326.30 IF PAID IN 30 DAYS

4,449.95

*Thank you*

# BASIC

energy services, L.P.

## TREATMENT REPORT

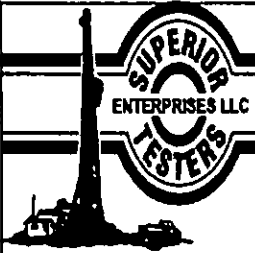
Customer	CARRIE EXPLORATION	Lease No.		Date	1-24-2012
Lease	H-ROTH	Well #	C-1		
Field Order #	Station	Casing	Depth	County	State
C-41027	PRATT, KS.	5 1/2"		BARTON	KS.
Type Job	Formation	Legal Description			
CNW-5 1/2" L.S.	TD-3438	25-19-11			

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
5 1/2" X 4 1/4"			CNTT-	1255KS AA2			5 Min.	
Depth	Depth	From	To	Pre Pad	Max		10 Min.	
3420'				@ 1.36 CU FT	Min		15 Min.	
Volume	Volume	From	To	Pad	Avg		Annulus Pressure	
82.41 BBL							Total Load	
Max Press	Max Press	From	To	Frac				
1500								
Well Connection	Annulus Vol.	From	To		HHP Used			
P.C.								
Plug Depth	Packer Depth	From	To	Flush	Gas Volume			
5377.5'				82.41 BBL				

Customer Representative	Run HERALD	Station Manager	D. SCOTT	Treater	K. LESLEY
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Service Units	37586	19907	33708	20920					
Driver Names	LESLEY	MAKROVEK	HIMMEL						

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
9:00AM					ON LOCATION - SAFETY MEETING
10:45AM					RUN JTS. 5 1/2" X 11" CSG.
					TURBOLIZER - 1, 2, 3, 4, 6, 10, 43
					BASKET - TOP OF #42
					PORT COLLAR - TOP OF #42
1:00 PM					CSG. ON BOTTOM
1:05 PM					HOOK UP TO CSG. / BREAK CIRC. W/ RIG
2:04 PM	750		20	6	2% KCL H <sub>2</sub> O AHEAD
2:07 PM	300		12	6	MUD FLUSH
2:07 PM	250		5	6	H <sub>2</sub> O SPACER
2:10 PM	200		31	6	MIX 1255KS AA2 @ 15.3 PPG
2:15 PM					WASH PUMP LINE / DRIP T.R. PLUG
2:18 PM	0		0	7	START DISPLACEMENT
2:27 PM	300		60	6	LIFT PRESSURE
2:27 PM	700		70	5	SLOW RATE
2:40 PM	1500		82.4	4	PLUG IN LINE - HELD
					CIRC. THRU WB
					PLUG R.H.
					JOB COMPLETE,
					THANKS -
					KEVEN LESLEY



# DRILL STEM TEST REPORT

Carrie Exploration & Development  
 210 W 22nd Street Hays KS 67601  
 ATTN: Herb Deines

25-19-11w Barton  
 H. Roth #c-1  
 Job Ticket: 18730 DST#: 1  
 Test Start: 2012.01.22 @ 12:35:00

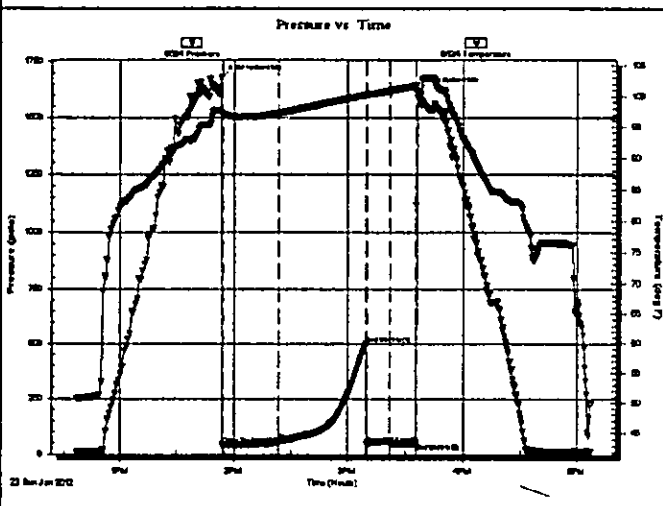
## GENERAL INFORMATION:

Formation: **Arbuckle**  
 Deviated: **No** Whipstock: **ft (KB)**  
 Time Tool Opened: **13:54:30**  
 Time Test Ended: **17:07:30**  
 Interval: **3277.00 ft (KB) To 3311.00 ft (KB) (TVD)**  
 Total Depth: **3311.00 ft (KB) (TVD)**  
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**  
 Test Type: **Conventional Bottom Hole (Initial)**  
 Tester: **Jared Scheck**  
 Unit No: **3320-GB-**  
 Reference Elevations: **1779.00 ft (KB)**  
**1771.00 ft (CF)**  
 KB to GR/CF: **8.00 ft**

## Serial #: 8524

Press@RunDepth: **59.85 psia @ ft (KB)** Capacity: **5000.00 psia**  
 Start Date: **2012.01.22** End Date: **2012.01.22** Last Calib.: **2012.01.22**  
 Start Time: **12:35:00** End Time: **17:07:30** Time On Btm: **2012.01.22 @ 13:53:30**  
 Time Off Btm: **2012.01.22 @ 15:36:30**

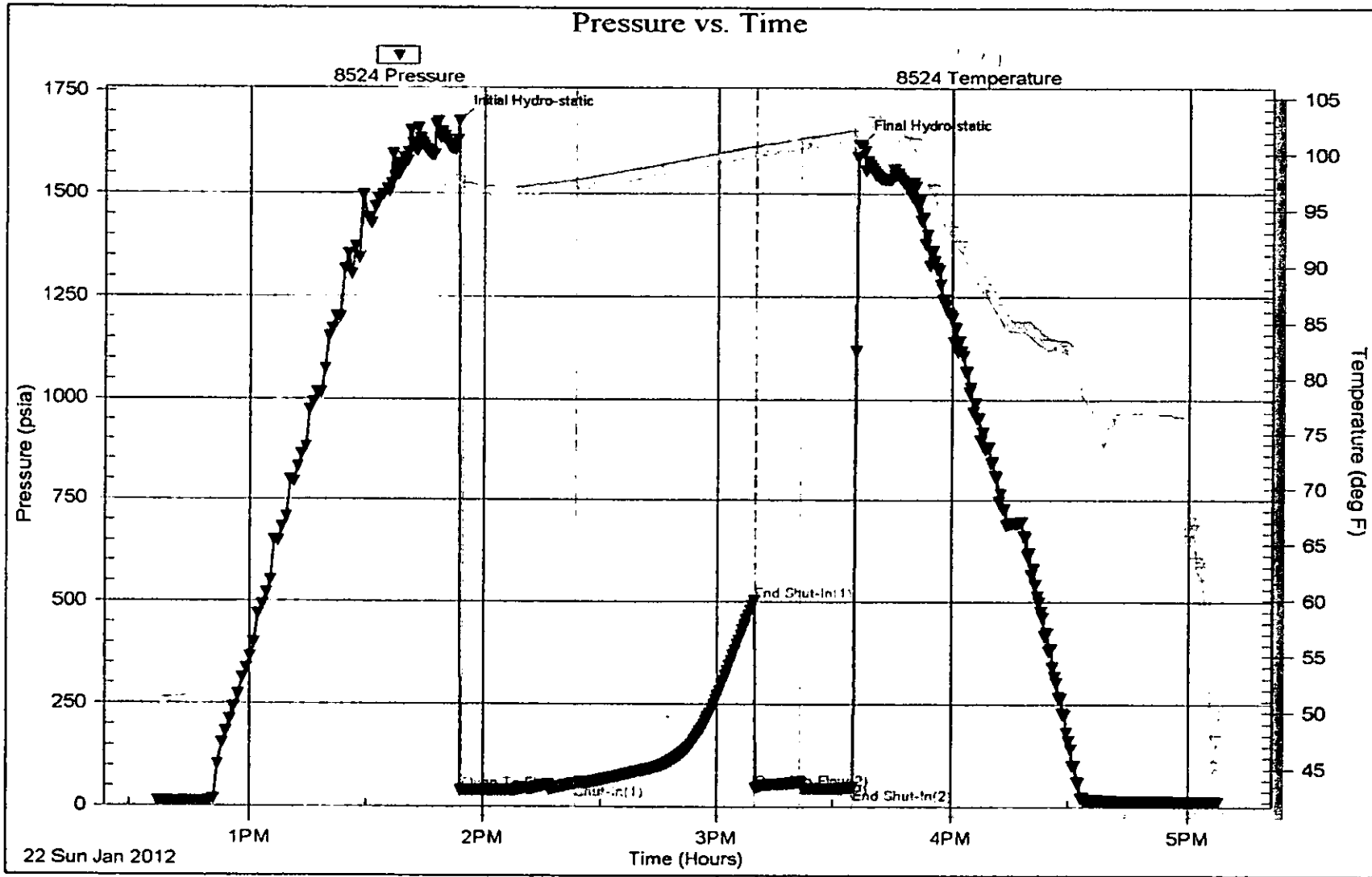
**TEST COMMENT:** 1st Opening 30 Minutes-Weak surface blow built 3/4 inch into water stayed steady throughout open  
 1st Shut-in 45 Minutes-No blow back  
 2nd Opening 20 Minutes-Weak surge did not build flushed tool good surge did not build  
 2nd Shut-in 10 Minutes- No blow back

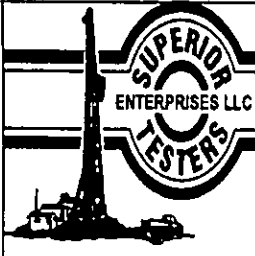


PRESSURE SUMMARY			
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	1676.30	97.40	Initial Hydro-static
1	39.72	97.01	Open To Flow (1)
30	55.95	97.23	Shut-in(1)
76	501.45	100.22	End Shut-in(1)
77	45.30	100.21	Open To Flow (2)
88	59.85	100.89	Shut-in(2)
102	47.47	101.66	End Shut-in(2)
103	1618.83	100.00	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	Mud spot oil 99% mud 1% oil	0.07

Gas Rates			
	Chore (inches)	Pressure (psia)	Gas Rate (Mc/d)





# DRILL STEM TEST REPORT

Carrie Exploration & Development  
 210 W 22nd Street Hays KS 67601  
 ATTN: Herb Deines

25-19-11w Barton  
 H. Roth #c-1  
 Job Ticket: 18731      DST#: 2  
 Test Start: 2012.01.23 @ 11:30:00

## GENERAL INFORMATION:

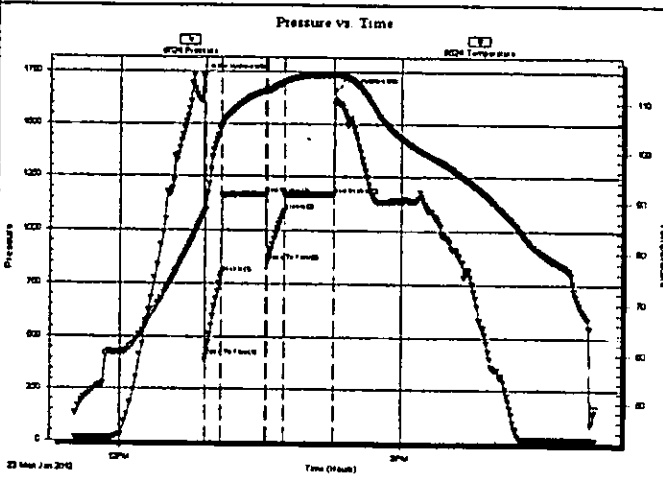
Formation: **Arbuckle**  
 Deviated: No Whipstock      ft (KB)  
 Time Tool Opened: 12:56:00  
 Time Test Ended: 17:03:30  
 Interval: 3310.00 ft (KB) To 3335.00 ft (KB) (TVD)  
 Total Depth: 3438.00 ft (KB) (TVD)  
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Straddle (Initial)  
 Tester: Jared Scheck  
 Unit No: 3320-GB- 40  
 Reference Elevations: 1779.00 ft (KB)  
 1771.00 ft (CF)  
 KB to GR/CF: 8.00 ft

## Serial #: 8524

Press@RunDepth: 1086.80 psia @ 3438.00 ft (KB)      Capacity: 5000.00 psia  
 Start Date: 2012.01.23      End Date: 2012.01.23      Last Calib.: 2012.01.24  
 Start Time: 11:30:00      End Time: 17:03:30      Time On Btm: 2012.01.23 @ 12:55:00  
 Time Off Btm: 2012.01.23 @ 14:19:00

TEST COMMENT: 1st Opening 10 Minutes-Strong blow built bottom of bucket less then 1 minute  
 1st Shut-in 30 Minutes-Very weak surface blow died off  
 2nd Opening 10 Minutes-Strong blow built bottom of bucket in less then 1 minute  
 2nd Shut-in 30 Minutes-No blow back



## PRESSURE SUMMARY

Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	1721.14	87.67	Initial Hydro-static
10	410.37	88.00	Open To Flow (1)
30	795.56	104.98	Shut-in(1)
40	1166.19	112.23	End Shut-in(1)
10	850.41	112.20	Open To Flow (2)
51	1086.80	113.94	Shut-in(2)
30	1164.71	115.47	End Shut-in(2)
84	1658.10	115.61	Final Hydro-static

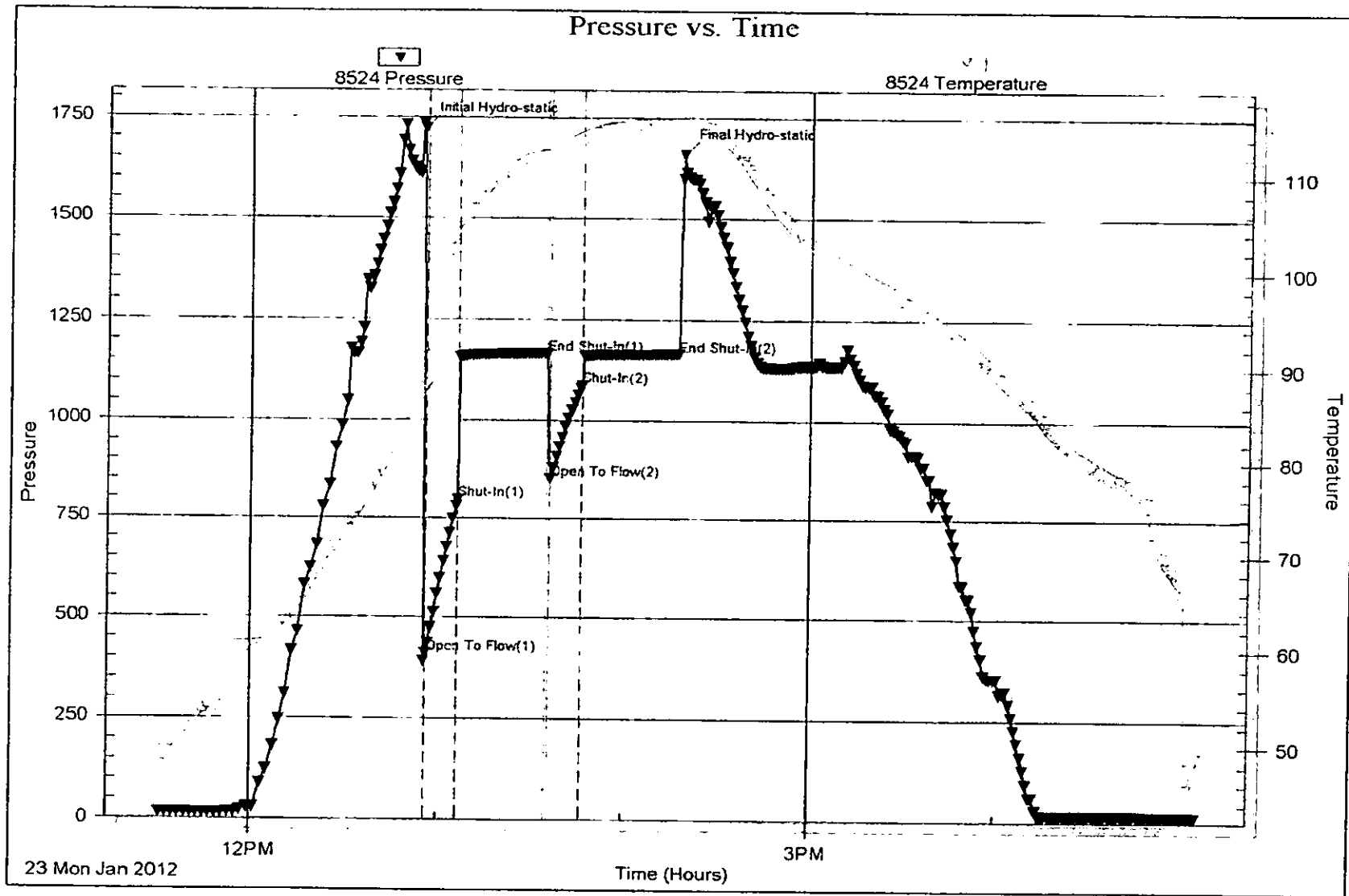
## Recovery

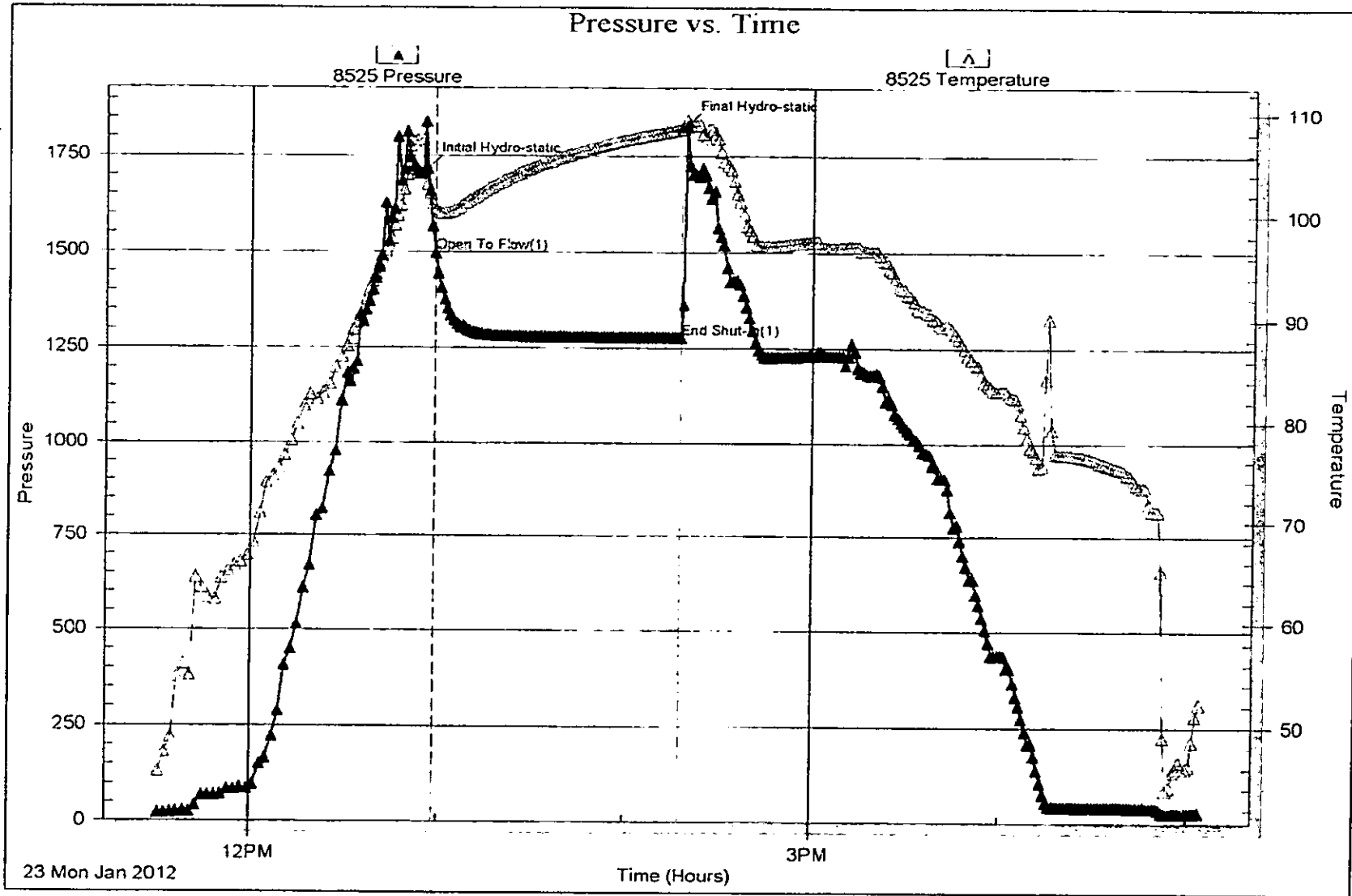
Length (ft)	Description	Volume (bbl)
2280.00	Water	31.98
0.00	Chlorides 23,000	0.00
0.00	Resistivity 20 @45 Degrees	0.00

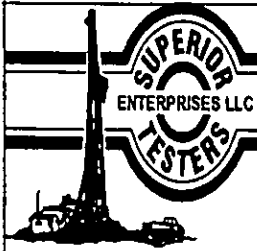
## Gas Rates

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









# DRILL STEM TEST REPORT

Carrie Exploration & Development

25-19-11w Barton

210 W 22nd Street Hays KS 67601

H. Roth #c-1

Job Ticket: 18732

DST#: 3

ATTN: Herb Deines

Test Start 2012.01.23 @ 17:57:00

## GENERAL INFORMATION:

Formation: **Arbuckle**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 19:26:00

Time Test Ended: 02:59:00

Test Type: Conventional Straddle (Initial)

Tester: Jared Scheck

Unit No. 3320-GB-40

Interval: 3077.00 ft (KB) To <sup>3105</sup> 3438.00 ft (KB) (TVD)

Total Depth: 3438.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 1779.00 ft (KB)

1771.00 ft (CF)

KB to GR/CF: 8.00 ft

Serial #: 8159

Press@RunDepth: 387.28 psia @ ft (KB)

Capacity: 5000.00 psia

Start Date: 2012.01.23

End Date:

2012.01.24

Last Calib.:

2012.01.24

Start Time: 17:57:00

End Time:

02:59:00

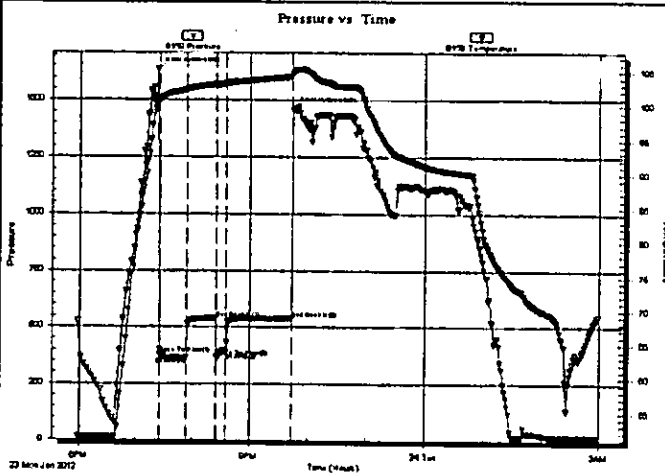
Time On Btm:

2012.01.23 @ 19:24:00

Time Off Btm:

2012.01.23 @ 21:45:00

**TEST COMMENT:** 1st Opening 30 Minutes-Strong blow built bottom of bucket in 8 sec Gas to surface 8 minutes see gas report  
 1st Shut-in 30 Minutes-Yes blow back  
 2nd Opening 12 Minutes-Strong blow built bottom of bucket in 8 sec  
 2nd Shut-in 60 Minutes-Yes blow back



## PRESSURE SUMMARY

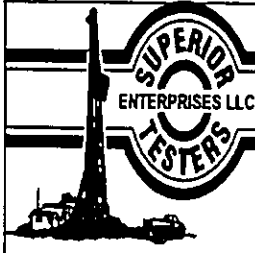
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1632.51	100.70	Initial Hydro-static
30 2	378.15	100.84	Open To Flow (1)
30 31	366.08	102.28	Shut-in(1)
30 61	538.39	103.06	End Shut-in(1)
62	365.44	103.01	Open To Flow (2)
10 72	387.28	103.19	Shut-in(2)
20 140	537.76	104.19	End Shut-in(2)
20 141	1455.93	104.55	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
60.00	Gassy oil cut muddy w water	0.84
0.00	10%gas 60%oil 30%mud 5%w water	0.00
60.00	Muddy oil 10%gas 10%oil 80% mud	0.84
120.00	Mudy oil cut w water	1.68
0.00	15%gas 15%oil 50%mud 205w water	0.00
0.00	Chlorides 30,000	0.00

## Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mc/d)
First Gas Rate	1.00	38.50	1106.83
Last Gas Rate	1.00	38.50	1106.83



# DRILL STEM TEST REPORT

**GAS RATES**

Carrie Exploration & Development  
210 W 22nd Street Hays KS 67601  
ATTN: Herb Deines

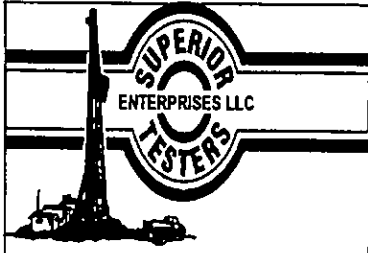
25-19-11w Barton  
H. Roth #c-1  
Job Ticket: 18732      DST#: 3  
Test Start: 2012.01.23 @ 17:57:00

## Gas Rates Information

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

Gas Rates Table

Flow Period	Elapsed Time	Choke (inches)	Pressure (psia)	Gas Rate (Mcf/d)
1	30	1.00	38.50	1106.83
2	10	1.00	38.50	1106.83



# DRILL STEM TEST REPORT

GAS RATES

Carrie Exploration & Development  
210 W 22nd Street Hays KS 67601  
ATTN: Herb Deines

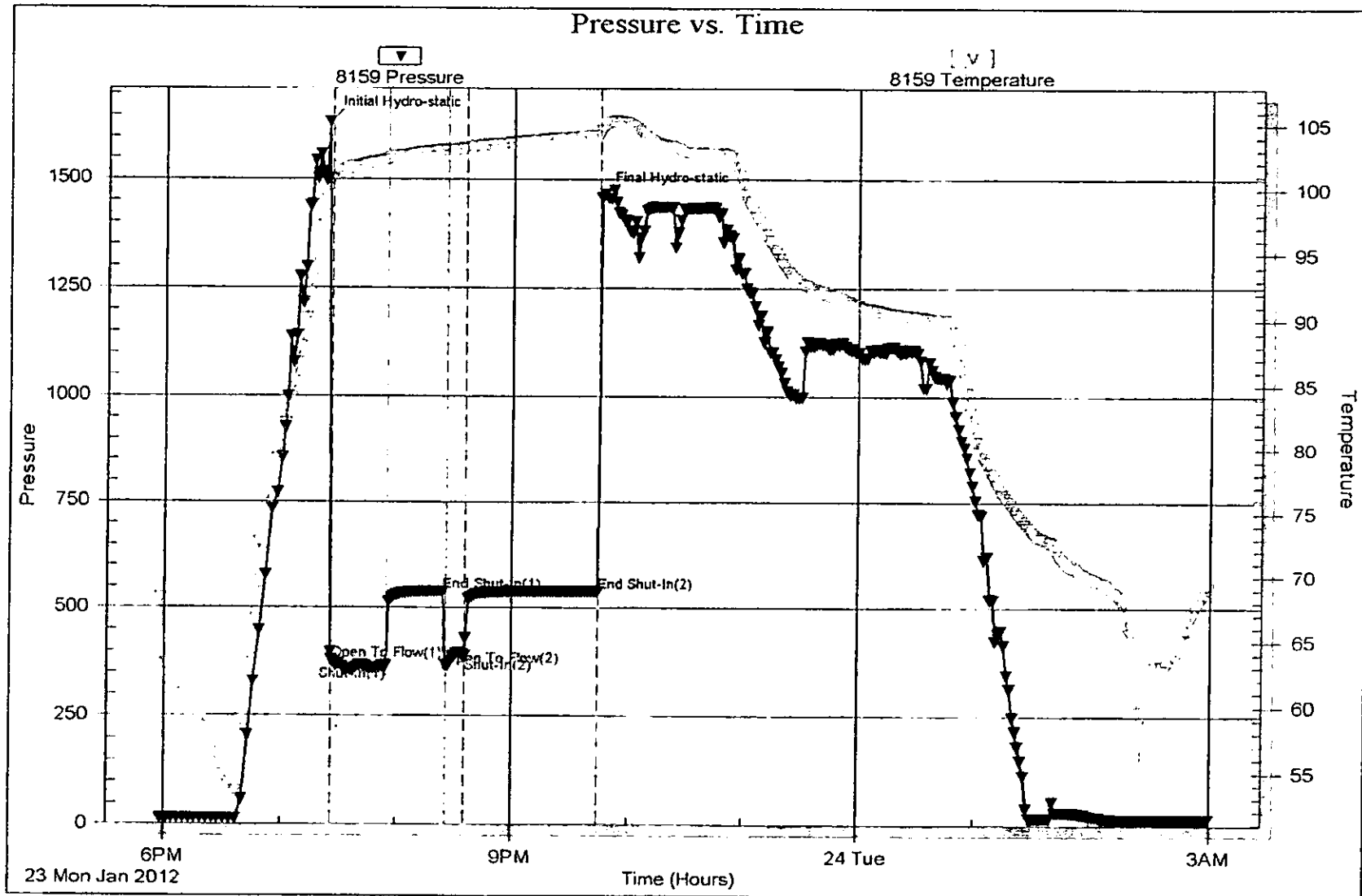
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**HERB DENNES**  
 1000 W. 10th St.  
 Anchorage, Alaska 99501  
 (907) 562-2222

**PROJECT**  
 Name: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Date: \_\_\_\_\_

**LOG**  
 Date: \_\_\_\_\_  
 Time: \_\_\_\_\_  
 Location: \_\_\_\_\_  
 Description: \_\_\_\_\_

**LEGEND**

	Sand
	Silt
	Clay
	Gravel
	Boulder
	Cobble
	Bedrock
	Unconsolidated
	Consolidated
	Water Table

SCALE 1" = 100'

