

**CONFIDENTIAL**

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

**ORIGINAL**

Form ACO-1  
October 2008  
Form Must Be Typed

8/3/10

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

OPERATOR: License # 4767  
Name: Ritchie Exploration, Inc.  
Address 1: P.O. Box 783188  
Address 2: \_\_\_\_\_  
City: Wichita State: KS Zip: 67278 + 3118  
Contact Person: John Niernberger  
Phone: ( 316 ) 691-9500  
CONTRACTOR: License # 5929  
Name: Duke Drilling Co., Inc.  
Wellsite Geologist: Terry McLeod  
Purchaser: \_\_\_\_\_

**KCC**  
**AUG 03 2010**  
**CONFIDENTIAL**

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

If Workover/Re-entry: Old Well Info as follows:  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_  
 Deepening     Re-perf.     Conv. to Enhr.     Conv. to SWD  
 Plug Back: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_  
 Commingled    Docket No.: \_\_\_\_\_  
 Dual Completion    Docket No.: \_\_\_\_\_  
 Other (SWD or Enhr.?)    Docket No.: \_\_\_\_\_  
5/6/10    5/16/10    5/16/10  
Spud Date or    Date Reached TD    Completion Date or  
Recompletion Date       Recompletion Date

API No. 15 - 057-20677-0000  
Spot Description: 115' N & 150' E  
W/2  SE  SW    Sec. 32    Twp. 25    S. R. 22     East  West  
775    Feet from     North /  South Line of Section  
1800    Feet from     East /  West Line of Section  
Footages Calculated from Nearest Outside Section Corner:  
 NE     NW     SE     SW  
County: Ford  
Lease Name: Buster    Well #: 1  
Field Name: \_\_\_\_\_  
Producing Formation: \_\_\_\_\_  
Elevation: Ground: 2440    Kelly Bushing: 2452  
Total Depth: 5000    Plug Back Total Depth: \_\_\_\_\_  
Amount of Surface Pipe Set and Cemented at: 333    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** PANJ 8-13-10  
(Data must be collected from the Reserve Pit)  
Chloride content: 26000 ppm    Fluid volume: 1100 bbls  
Dewatering method used: evaporation  
Location of fluid disposal if hauled offsite: \_\_\_\_\_  
Operator Name: \_\_\_\_\_  
Lease Name: \_\_\_\_\_ License No.: \_\_\_\_\_  
Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West  
County: \_\_\_\_\_ Docket No.: \_\_\_\_\_

**INSTRUCTIONS:** An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2078, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: \_\_\_\_\_  
Title: Production Manager    Date: 8/3/10  
Subscribed and sworn to before me this 3<sup>rd</sup> day of August  
20 10  
Notary Public: Debra K Phillips  
Date Commission Expires: 5-4-11

**DEBRA K. PHILLIPS**  
Notary Public - State of Kansas  
My Appt. Expires 5-4-11

**KCC Office Use ONLY**  
 Letter of Confidentiality Received 8/18/10-8/31/10  
 If Denied, Yes  No Date: \_\_\_\_\_  
 Wireline Log Received  
 Geologist Report Received  
 UIC Distribution

**RECEIVED**  
**AUG 04 2010**  
**KCC WICHITA**

Operator Name: Ritchie Exploration, Inc. Lease Name: Buster Well #: 1  
 Sec. 32 Twp. 25 S. R. 22  East  West County: Ford

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

Drill Stem Tests Taken  Yes  No  
 (Attach Additional Sheets)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
 (Submit Copy)

List All E. Logs Run:

**Dual Induction Log  
 Compensated Density/Neutron Log**

Log Formation (Top), Depth and Datum  Sample

Name Top Datum

SEE ATTACHED

**KCC  
 AUG 03 2010  
 CONFIDENTIAL**

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4	8-5/8	24	333	Class A	225	3%cc, 2%gel

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 (Amount and Kind of Material Used)	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
-----------------------------------	-----------	---------	-------------	---------------	---------

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

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

**RECEIVED**  
 AUG 04 2010  
 KCC WICHITA



# RITCHIE

EXPLORATION, INC.  
Wichita, Kansas

## #1 Buster

775' FSL & 1800' FWL

115' N & 150' E of W/2 SE SW Section 32-25S-22W

Ford County, Kansas

API# 15-057-20677-0000

Elevation: GL: 2440', KB: 2452'

<u>Sample Tops</u>			<u>Ref.</u> <u>Well</u>
Anhydrite	1518'	+934	flat
B/Anhydrite	1549'	+903	-2
Heebner	4125'	-1673	+13
Lansing	4237'	-1785	+11
Lansing "C"	4269'	-1817	+12
Muncie Creek	4416'	-1964	+12
Lansing "H"	4431'	-1979	+11
Stark Shale	4520'	-2068	+6
Hush	4576'	-2124	+13
Lansing "L"	4590'	-2138	+14
BKC	4612'	-2160	+12
Altamont	4660'	-2208	+16
Altamont "B"	4696'	-2244	+12
Cherokee Shale	4794'	-2342	+10
Atoka Shale	4872'	-2420	+7
Mississippian	4901'	-2449	+3
RTD	5000'	-2548'	

KCC  
AUG 03 2010  
CONFIDENTIAL

RECEIVED  
AUG 04 2010  
KCC WICHITA

P.O. Box 783188  
Wichita, Kansas 67278-3188

(316) 691-9500  
Fax (316) 691-9550  
[rei@ritchie-exp.com](mailto:rei@ritchie-exp.com)

8100 E. 22<sup>nd</sup> St. N., Bldg. 700  
Wichita, Kansas 67226-2328

# ALLIED CEMENTING CO., LLC. 036422

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

Buster

SERVICE POINT:  
Great Bend KS

DATE <u>5-7-10</u>	SEC <u>32</u>	TWP <u>25S</u>	RANGE <u>22W</u>	CALLED OUT	ON LOCATION	JOB START <u>2:30 AM</u>	JOB FINISH <u>3:00 AM</u>
LEASE <u>Buster</u>	WELL # <u>1</u>	LOCATION <u>Sperryville 1 East To 127 RD</u>			COUNTY <u>Lawh</u>	STATE <u>KS</u>	
OLD OR <u>NEW</u> (Circle one)		South To Garnett RD 2 west N into					

CONTRACTOR Duke Rial OWNER Ritchie Exploration

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 335 CEMENT AMOUNT ORDERED 225 sx class A

CASING SIZE 8 5/8 DEPTH 333 3%cc 2% Gel

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM COMMON 225 @ 13.50 3,037.50

MEAS. LINE SHOE JOINT POZMIX @

CEMENT LEFT IN CSG. 15 GEL 4 @ 20.25 81.00

PERFS. CHLORIDE 7 @ 51.50 360.50

DISPLACEMENT 20.25 BBLs ASC @

EQUIPMENT @

PUMP TRUCK CEMENTER Wayne - D @

# 181 HELPER Alvin - R @

BULK TRUCK @

# 344 DRIVER Bob - R @

BULK TRUCK @

# DRIVER @

HANDLING 225 @ 2.25 506.25

MILEAGE 225 x 42 x .10 945.00

TOTAL 4,930.25

REMARKS:

Pipe on bottom Break circulation  
with Rigmad shut down  
hook up to cement line  
Mix 225 sx class A 3%cc 2% Gel  
shut down Release plug  
Displace 20.25 BBLs flush water  
Cement did circulate  
shut in wash up Rig down

SERVICE

DEPTH OF JOB 335

PUMP TRUCK CHARGE 991.00

EXTRA FOOTAGE 35 @ .75 26.25

MILEAGE 42 @ 7.00 294.00

MANIFOLD @

@

@

TOTAL 1,311.25

PLUG & FLOAT EQUIPMENT

1 8 5/8 Plug @ 53.00 53.00

@

@

@

TOTAL 53.00

CHARGE TO: Ritchie Exploration

STREET

CITY STATE ZIP

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 Mike Godfrey

SIGNATURE Mike Godfrey

SALES TAX (If Any)

TOTAL CHARGES 1,311.25

DISCOUNT IF PAID IN 30 DAYS

-TW-

KCC  
AUG 03 2010  
CONFIDENTIAL

RECEIVED  
AUG 04 2010  
KCC WICHITA

# ALLIED CEMENTING CO., LLC. 041499

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

SERVICE POINT:  
*Medicine Lodge, CO*

DATE <u>05-16-10</u>	SEC <u>32</u>	TWP <u>25s</u>	RANGE <u>22w</u>	CALLED OUT	ON LOCATION	JOB START <u>4:00pm</u>	JOB FINISH <u>6:30pm</u>
LEASE <u>Buster</u>	WELL # <u>1</u>	LOCATION <u>Fond, KS, n. towards Spearville</u>		COUNTY <u>Fond</u>	STATE <u>KS</u>		
OLD OR NEW (circle one)		<u>11 1/4 n, 1 1/4 w, pinto</u>					

CONTRACTOR Duke #1

TYPE OF JOB Rotary Plug

HOLE SIZE 7 7/8 T.D. 5000

CASING SIZE 8 5/8 DEPTH 330

TUBING SIZE DEPTH

DRILL PIPE 4K DEPTH 1530

TOOL DEPTH

PRES. MAX 300 MINIMUM —

MEAS. LINE SHOE JOINT —

CEMENT LEFT IN CSG. N/A

PERFS.

DISPLACEMENT Fresh H<sub>2</sub>O Mud

OWNER Richie

CEMENT

AMOUNT ORDERED 250 sx 60:40:4%<sub>g</sub> At 1/4# Flo Seal

COMMON	<u>150sx</u>	@	<u>15.45</u>	<u>2,317.50</u>
POZMIX	<u>100sx</u>	@	<u>8.00</u>	<u>800.00</u>
GEL	<u>95x</u>	@	<u>20.80</u>	<u>187.20</u>
CHLORIDE		@		
ASC		@		
	<u>Flo-seal 62#</u>	@	<u>2.50</u>	<u>155.00</u>
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>250 sx</u>	@	<u>2.40</u>	<u>600.00</u>
MILEAGE	<u>250 sx X 42 X .10 =</u>			<u>1,050.00</u>
TOTAL				<u>5,109.70</u>

EQUIPMENT

PUMP TRUCK CEMENTER R Felio

# 372 HELPER D. Franklin

BULK TRUCK

# 364 DRIVER M. Thimesch

BULK TRUCK

# DRIVER

REMARKS:

Drill Pipe at 1530; load Hole, Pump 12 Bbls Fresh H<sub>2</sub>O Spacer Mix 50sx Cement Disp w/ 3K Fresh & 14 Bbls Mud, Drill Pipe at 900; load Hole, Pump 8 Bbls Spacer Mix 80sx Cement Disp w/ 3 Fresh & 4 Mud, Drill Pipe at 360; Pump 8 Bbls Spacer Mix 50sx Disp w/ 2 Bbls Fresh H<sub>2</sub>O, Drill Pipe at 60; load Hole, Mix 20sx Cement, Plug Rat Hole w/ 30sx, Plug Mouse Hole w/ 20sx

SERVICE

DEPTH OF JOB 1530

PUMP TRUCK CHARGE 1017.00

EXTRA FOOTAGE @

MILEAGE 42 @ 7.00 294.00

MANIFOLD N/A @

@

@

CHARGE TO: Richie Expl.

STREET \_\_\_\_\_

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

TOTAL 1,311.00

PLUG & FLOAT EQUIPMENT

None @ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

@ \_\_\_\_\_

TOTAL \_\_\_\_\_

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 Mike Godfrey

SIGNATURE Mike Godfrey

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

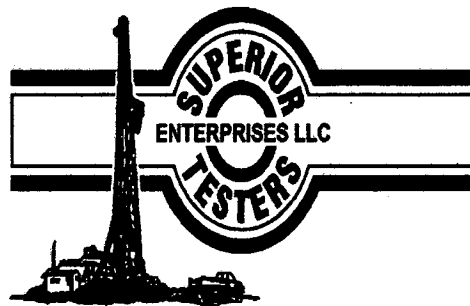
TOTAL CHARGES 1,311.00

DISCOUNT 0.00 IF PAID IN 30 DAYS

KCC  
AUG 03 2010  
CONFIDENTIAL

RECEIVED  
AUG 4 2010  
KCC WICHITA

*R*



## DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

ATTN:

**32-25-22W FORD**

**BUSTER #1**

Start Date: 2010.05.12 @ 03:40:00

End Date: 2010.05.12 @ 05:09:00

Job Ticket #: 16212                      DST #: 1

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

RECEIVED  
AUG 04 2010  
KCC WICHITA

Printed: 2010.05.14 @ 12:36:31

RITCHIE EXPLORATION INC

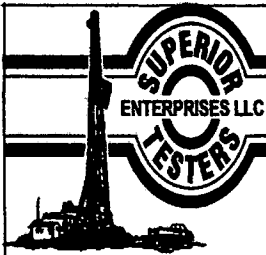
BUSTER #1

32-25-22W FORD

DST # 1

LANSING KC "C ZONE"

2010.05.12



# DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

BUSTER #1

8100 E 2ND ST N #700 WICHITA KS 67278-3188

32-25-22W FORD

ATTN:

Job Ticket: 16212

DST#: 1

Test Start: 2010.05.12 @ 03:40:00

## GENERAL INFORMATION:

Formation: **LANSING KC "C ZONE"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened:

Time Test Ended: 05:09:00

Interval: 4272.00 ft (KB) To 4285.00 ft (KB) (TVD)

Total Depth: 4285.00 ft (KB) (TVD)

Hole Diameter: 6.88 inches Hole Condition:

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-

Reference Elevations: 2452.00 ft (KB)

2440.00 ft (CF)

KB to GR/CF: 12.00 ft

Serial #: 8405

Inside

Press@RunDepth: psia @ 32.00 ft (KB)

Start Date: 2010.05.12

End Date: 2010.05.12

Capacity:

psia

Start Time: 03:42:00

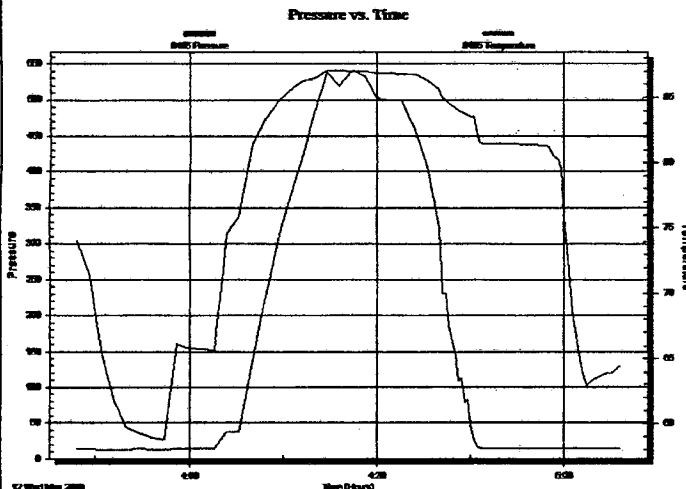
End Time: 05:09:00

Last Calib.: 2010.05.12

Time On Btm:

Time Off Btm:

TEST COMMENT: MISS RUB HIT BRIDGE 16 STANDS INTO HOLE



## PRESSURE SUMMARY

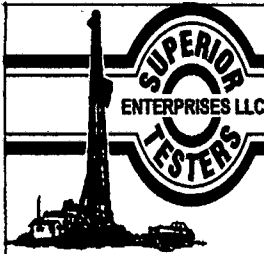
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

## Recovery

Length (ft)	Description	Volume (bbl)

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC  
8100 E 2ND ST N #700 WICHITA KS 67278-3188

**BUSTER #1**  
**32-25-22W FORD**  
Job Ticket: 16212      **DST#: 1**  
Test Start: 2010.05.12 @ 03:40:00

ATTN:

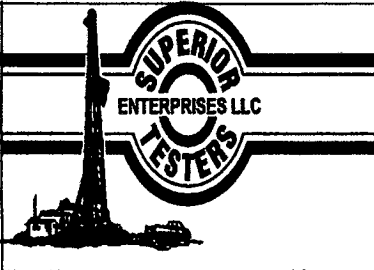
## Tool Information

Drill Pipe:	Length: 0.00 ft	Diameter: 3.80 inches	Volume: 0.00 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 0.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 0.00 lb
			<u>Total Volume: 0.00 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	ft			String Weight: Initial 0.00 lb
Depth to Top Packer:	23.00 ft			Final 0.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	1	Diameter: 6.75 inches		

Tool Comments: MISS RUN HIT BRIDGE 16 STANDS INTO HOLE

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			1.00	
Shut-In Tool	5.00			6.00	
Hydraulic Tool	5.00			11.00	
Safety Joint	2.00			13.00	
Packer	5.00			18.00	23.00      Bottom Of Top Packer
Packer	5.00			23.00	
Perforations	8.00			31.00	
Recorder	1.00	8405	Inside	32.00	
Recorder	1.00	8419	Outside	33.00	
Bullnose	3.00			36.00	13.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>36.00</b>				





# DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC

BUSTER #1

8100 E 2ND ST N #700 WICHITA KS 67278-3188

32-25-22W FORD

Job Ticket: 16212

DST#: 1

ATTN:

Test Start: 2010.05.12 @ 03:40:00

## Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 49.00 sec/qt

Water Loss: 8.79 in<sup>3</sup>

Resistivity: ohm.m

Salinity: 6400.00 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: ppm

deg API

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl

Total Length: ft Total Volume: bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: MISS RUN HIT BRIDGE 16 STANDS INTO HOLE

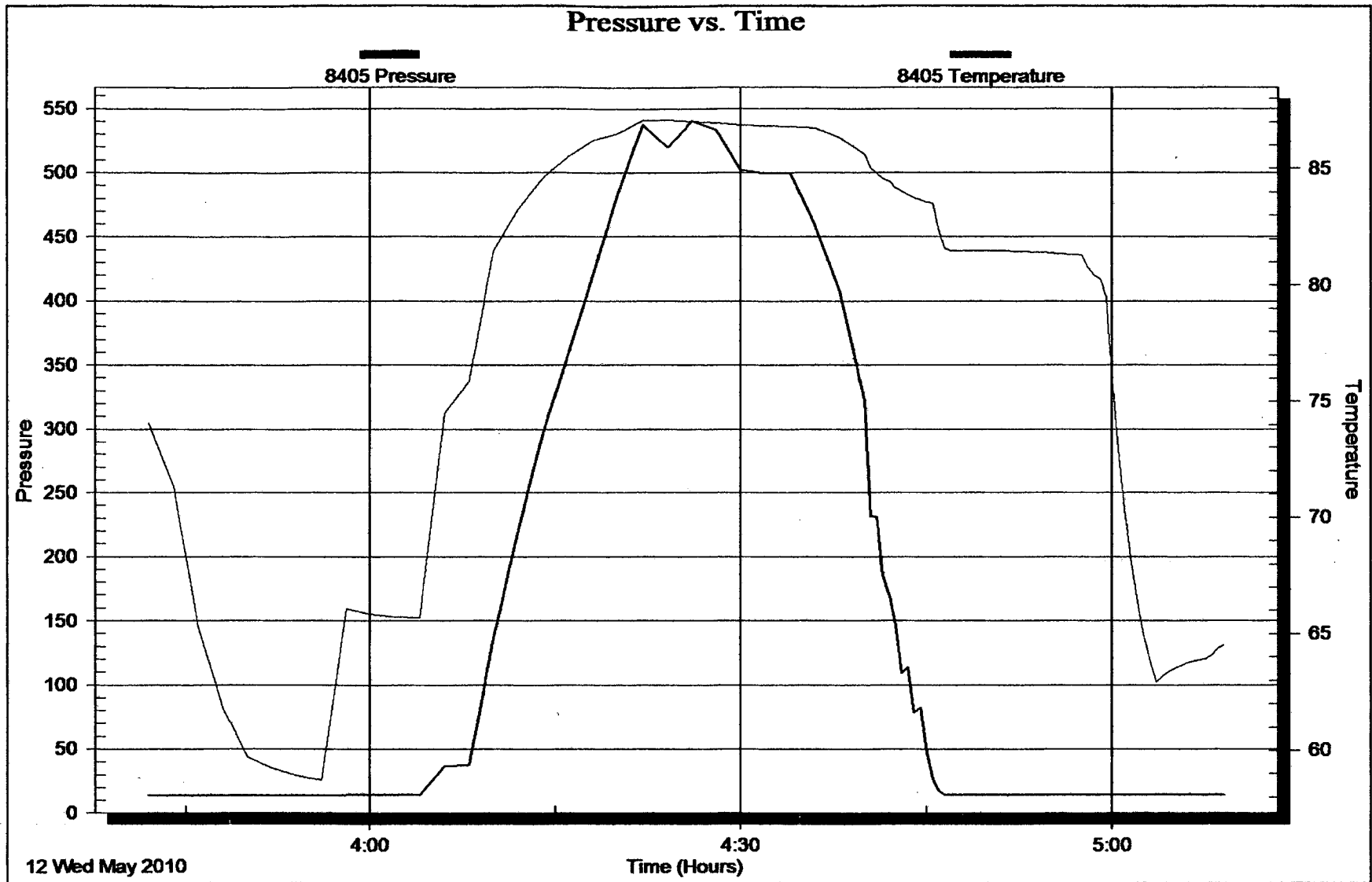
Serial #: 8405

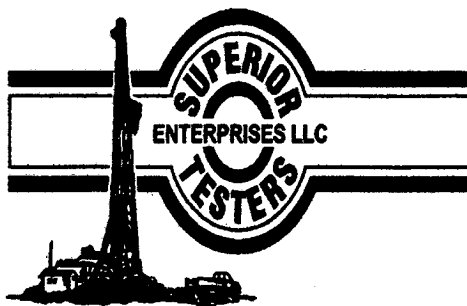
Inside

RITCHIE EXPLORATION INC

32-25-22W FORD

DST Test Number: 1





## DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

ATTN:

**32-25-22W FORD**

**BUSTER #1**

Start Date: 2010.05.12 @ 11:10:00

End Date: 2010.05.12 @ 17:08:30

Job Ticket #: 16213                      DST #: 2

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

Printed: 2010.05.12 @ 17:33:14

RITCHIE EXPLORATION INC

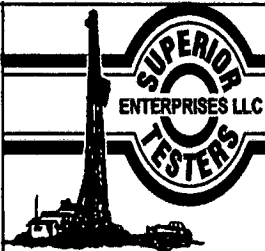
BUSTER #1

32-25-22W FORD

DST # 2

LANSING KC "C ZONE"

2010.05.12



# DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

**BUSTER #1**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

**32-25-22W FORD**

Job Ticket: 16213

**DST#: 2**

ATTN:

Test Start: 2010.05.12 @ 11:10:00

## GENERAL INFORMATION:

Formation: **LANSING KC "C ZONE"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:01:30

Time Test Ended: 17:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 320-GB-125

Interval: **4272.00 ft (KB) To 4285.00 ft (KB) (TVD)**

Reference Elevations: 2452.00 ft (KB)

Total Depth: 4285.00 ft (KB) (TVD)

2440.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GRVCF: 12.00 ft

**Serial #: 8405** Inside

Press@RunDepth: 181.42 psia @ 4281.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.05.12

End Date:

2010.05.12

Last Calib.: 2010.05.12

Start Time: 11:10:00

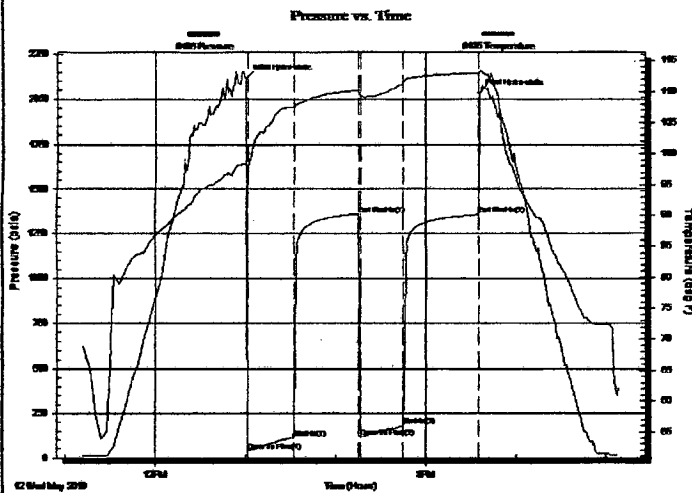
End Time:

17:08:30

Time On Btrr: 2010.05.12 @ 13:00:30

Time Off Btrr: 2010.05.12 @ 15:35:30

**TEST COMMENT:** 30/INITIAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 23 MINUTES  
 45/INITIAL SHUT IN:NO BLOW BACK  
 30/FINAL OPEN:FAIR BLOW BUILT 1 INCH FROM BOTTOM OF BUCKET IN 45 MINUTES  
 45/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

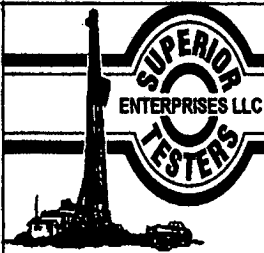
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2114.54	98.42	Initial Hydro-static
1	36.89	97.82	Open To Flow (1)
32	113.54	107.43	Shut-in(1)
75	1360.58	110.09	End Shut-in(1)
76	116.41	109.18	Open To Flow (2)
105	181.42	111.43	Shut-in(2)
155	1357.17	112.89	End Shut-in(2)
155	2032.59	113.15	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	WATER 10%M 90%W	4.21

## Gas Rates

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



# DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

**BUSTER #1**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

**32-25-22W FORD**

Job Ticket: 16213

**DST#: 2**

ATTN:

Test Start: 2010.05.12 @ 11:10:00

## GENERAL INFORMATION:

Formation: **LANSING KC "C ZONE"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 13:01:30

Time Test Ended: 17:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 320-GB-125

Interval: **4272.00 ft (KB) To 4285.00 ft (KB) (TVD)**

Reference Elevations: 2452.00 ft (KB)

Total Depth: 4285.00 ft (KB) (TVD)

2440.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 8419** Outside

Press@RunDepth: 1358.02 psia @ 4282.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.05.12

End Date: 2010.05.12

Last Calib.: 2010.05.12

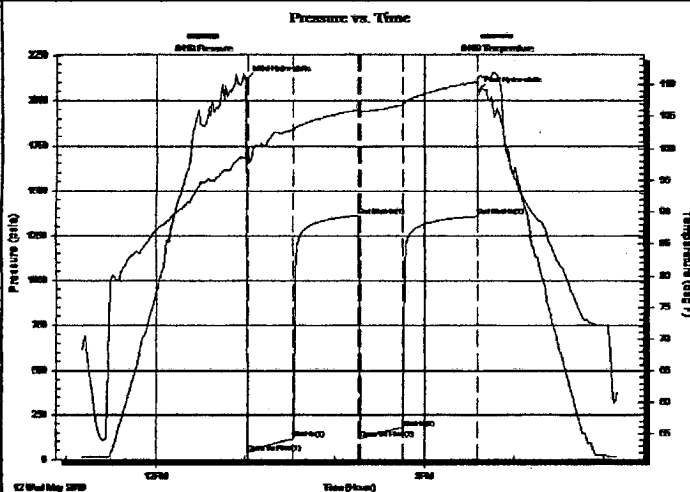
Start Time: 11:10:00

End Time: 17:09:00

Time On Btm: 2010.05.12 @ 13:00:30

Time Off Btm: 2010.05.12 @ 15:36:00

TEST COMMENT: 30/INITIAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 23 MINUTES  
 45/INITIAL SHUT IN:NO BLOW BACK  
 30/FINAL OPEN:FAIR BLOW BUILT 1 INCH FROM BOTTOM OF BUCKET IN 45 MINUTES  
 45/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

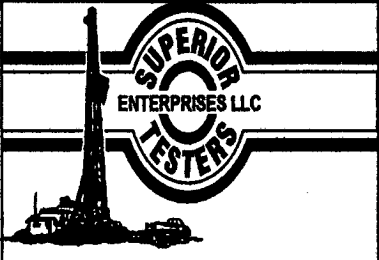
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2116.59	98.49	Initial Hydro-static
1	36.38	97.93	Open To Flow (1)
32	113.88	102.82	Shut-In (1)
75	1361.65	106.00	End Shut-In (1)
76	116.21	105.67	Open To Flow (2)
105	177.13	106.78	Shut-In (2)
155	1358.02	110.32	End Shut-In (2)
156	2049.77	110.98	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
300.00	WATER 10%M 90%W	4.21

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC  
 8100 E 2ND ST N #700 WICHITA KS 67278-3188  
 ATTN:

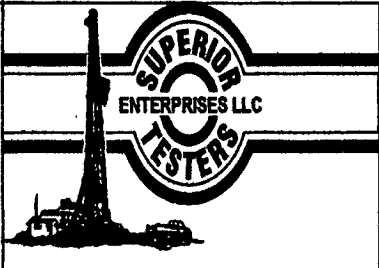
**BUSTER #1**  
**32-25-22W FORD**  
 Job Ticket: 16213      **DST#: 2**  
 Test Start: 2010.05.12 @ 11:10:00

## Tool Information

Drill Pipe:	Length: 4259.00 ft	Diameter: 3.80 inches	Volume: 59.74 bbl	Tool Weight: 10000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 60000.00 lb
			<u>Total Volume: 59.74 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 57000.00 lb
Depth to Top Packer:	4272.00 ft			Final 57000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	13.00 ft			
Tool Length:	36.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments: CHLORIDES 55,000				

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4250.00	
Shut-In Tool	5.00			4255.00	
Hydraulic Tool	5.00			4260.00	
Safety Joint	2.00			4262.00	
Packer	5.00			4267.00	23.00      Bottom Of Top Packer
Packer	5.00			4272.00	
Perforations	8.00			4280.00	
Recorder	1.00	8405	Inside	4281.00	
Recorder	1.00	8419	Outside	4282.00	
Bullnose	3.00			4285.00	13.00      Bottom Packers & Anchor
<b>Total Tool Length:</b>	<b>36.00</b>				



# DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC  
 8100 E 2ND ST N #700 WICHITA KS 67278-3188  
 ATTN:

**BUSTER #1**  
**32-25-22W FORD**  
 Job Ticket: 16213      **DST#: 2**  
 Test Start: 2010.05.12 @ 11:10:00

## Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 62.00 sec/qt	Cushion Volume: bbl		
Water Loss: 10.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 8800.00 ppm			
Filter Cake: 2.00 inches			

## Recovery Information

Recovery Table

Length ft	Description	Volume bbl
300.00	WATER 10%M 90%W	4.208

Total Length: 300.00 ft      Total Volume: 4.208 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

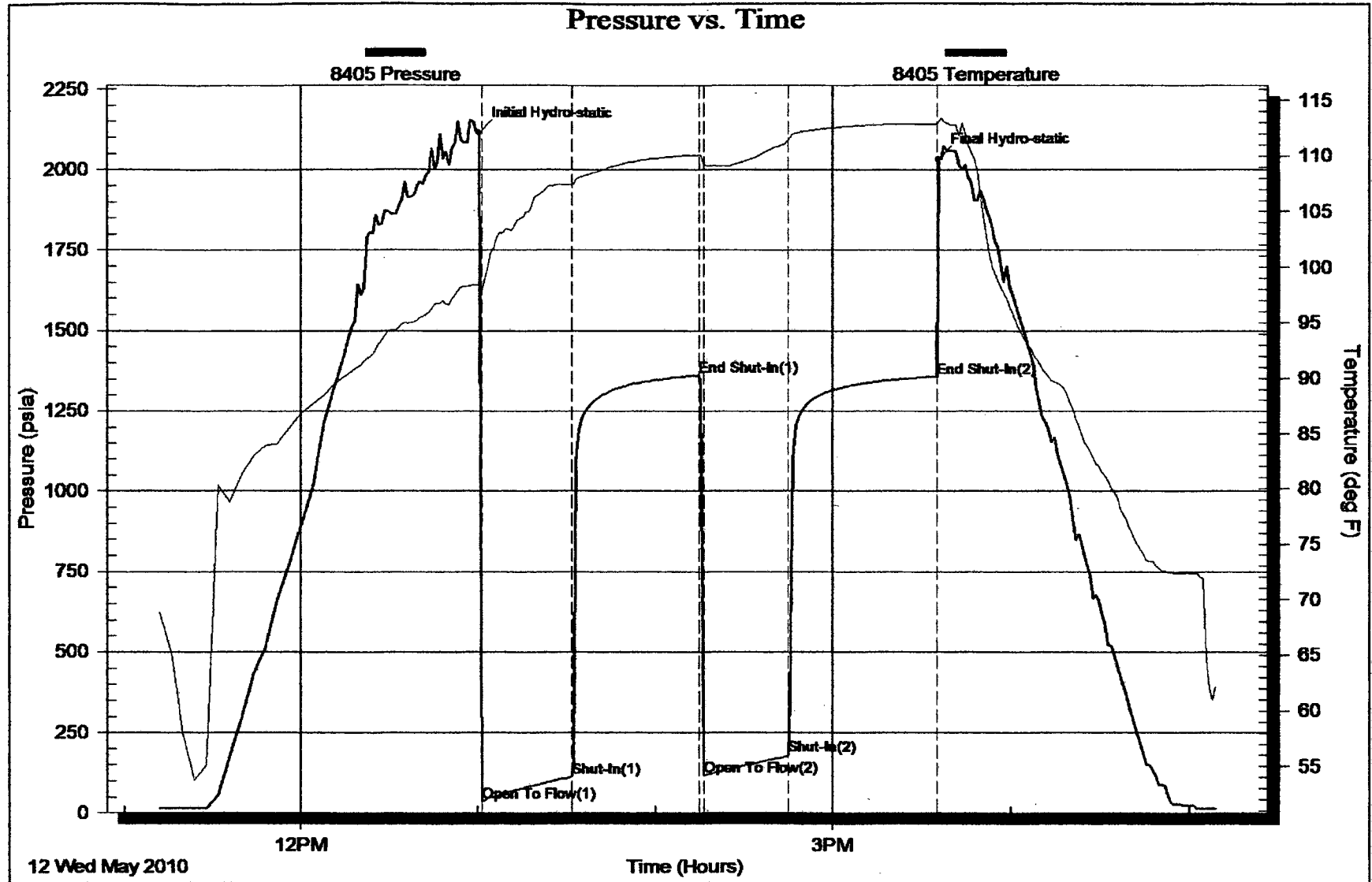
Serial #: 8405

Inside

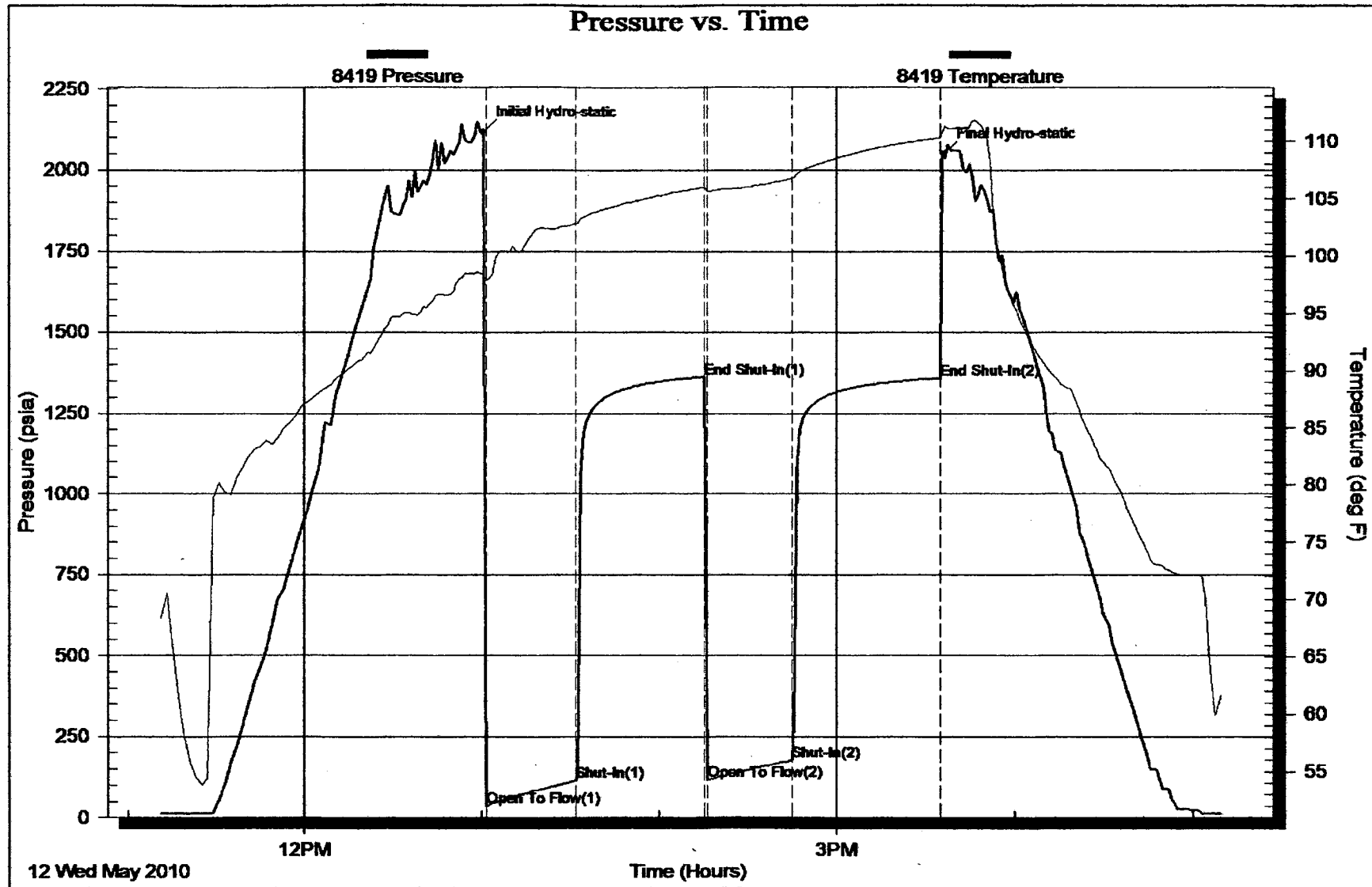
RITCHIE EXPLORATION INC

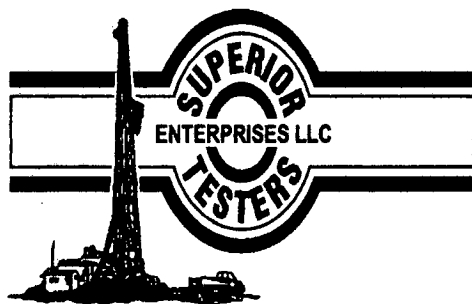
32-25-22W FORD

DST Test Number: 2









## DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

ATTN:

**32-25-22W FORD**

**BUSTER #1**

Start Date: 2010.05.14 @ 04:10:00

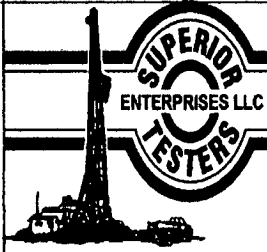
End Date: 2010.05.14 @ 10:33:30

Job Ticket #: 16214                      DST #: 3

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

Printed: 2010.05.14 @ 10:57:18

RITCHIE EXPLORATION INC    BUSTER #1    32-25-22W FORD    DST # 3    ALTAMONT    2010.05.14



# DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

**BUSTER #1**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

**32-25-22W FORD**

Job Ticket: 16214

**DST#: 3**

ATTN:

Test Start: 2010.05.14 @ 04:10:00

**GENERAL INFORMATION:**

Formation: **ALTAMONT**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:08:30

Time Test Ended: 10:33:30

Test Type: Inflate Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-GB-125

Interval: **4646.00 ft (KB) To 4730.00 ft (KB) (TVD)**

Reference Elevations: 2452.00 ft (KB)

Total Depth: 4730.00 ft (KB) (TVD)

2440.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Fair

KB to GR/CF: 12.00 ft

**Serial #: 8405**

Inside

Press@RunDepth: 79.07 psia @ 4729.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.05.14

End Date: 2010.05.14

Last Calib.: 2010.05.14

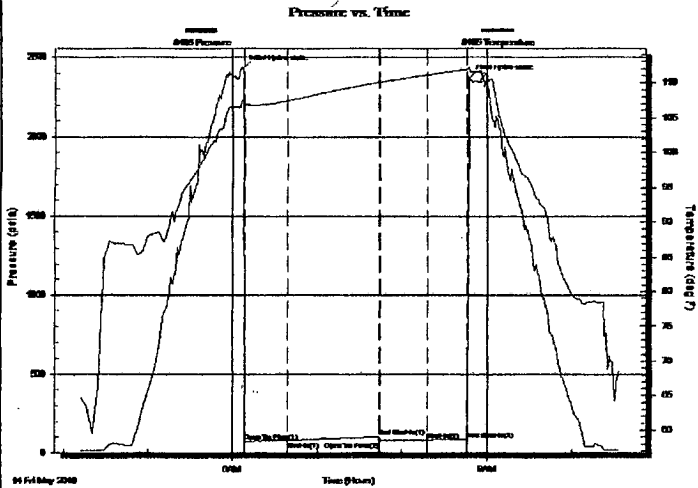
Start Time: 04:10:00

End Time: 10:33:30

Time On Btm: 2010.05.14 @ 06:07:00

Time Off Btm: 2010.05.14 @ 08:47:30

TEST COMMENT: 30/INITIAL OPEN:WEAK SURFACE BLOW BUILT 1/4 INCH INTO WATER IN 30 MINUTES  
 45/INITIAL SHUT IN:NO BLOW BACK  
 30/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD  
 45/FINAL SHUT IN:NO BLOW BACK



**PRESSURE SUMMARY**

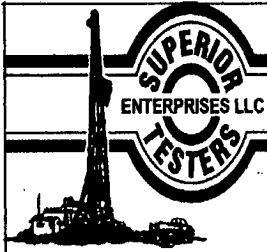
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2427.45	107.60	Initial Hydro-static
2	72.50	107.01	Open To Flow (1)
32	74.05	107.40	Shut-In(1)
97	101.50	110.02	End Shut-In(1)
97	74.22	110.02	Open To Flow (2)
131	79.07	111.11	Shut-In(2)
160	84.88	111.90	End Shut-In(2)
161	2369.16	112.26	Final Hydro-static

**Recovery**

Length (ft)	Description	Volume (bbl)
10.00	MUD	0.14

**Gas Rates**

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



## DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

**BUSTER #1**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

**32-25-22W FORD**

Job Ticket: 16214

**DST#: 3**

ATTN:

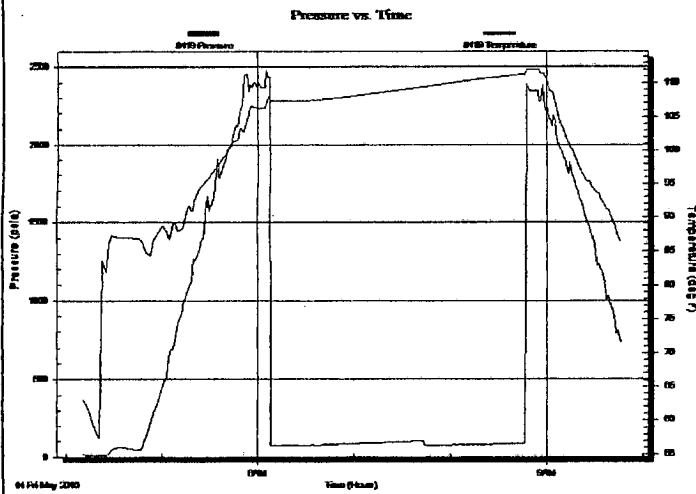
Test Start: 2010.05.14 @ 04:10:00

**GENERAL INFORMATION:**

Formation: **ALTAMONT**  
 Deviated: No Whipstock: ft (KB) Test Type: Inflate Bottom Hole (Initial)  
 Time Tool Opened: 06:08:30 Tester: JARED SCHECK  
 Time Test Ended: 10:33:30 Unit No: 3320-GB-125  
 Interval: **4646.00 ft (KB) To 4730.00 ft (KB) (TVD)** Reference Elevations: 2452.00 ft (KB)  
 Total Depth: 4730.00 ft (KB) (TVD) 2440.00 ft (CF)  
 Hole Diameter: 6.88 inches Hole Condition: Fair KB to GR/CF: 12.00 ft

**Serial #: 8419**  
 Press@RunDepth: psia @ ft (KB) Capacity: psia  
 Start Date: 2010.05.14 End Date: 2010.05.14 Last Calib.: 1899.12.30  
 Start Time: 04:10:00 End Time: 09:47:00 Time On Btmr  
 Time Off Btmr

**TEST COMMENT:** 30/INITIAL OPEN:WEAK SURFACE BLOW BUILT 1/4 INCH INTO WATER IN 30 MINUTES  
 45/INITIAL SHUT IN:NO BLOW BACK  
 30/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD  
 45/FINAL SHUT IN:NO BLOW BACK



**PRESSURE SUMMARY**

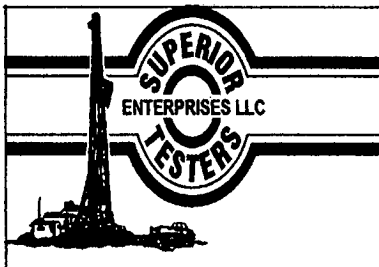
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

**Recovery**

Length (ft)	Description	Volume (bbl)
10.00	MUD	0.14

**Gas Rates**

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



# DRILL STEM TEST REPORT

**TOOL DIAGRAM**

RITCHIE EXPLORATION INC

**BUSTER #1**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

**32-25-22W FORD**

Job Ticket: 16214

**DST#: 3**

ATTN:

Test Start: 2010.05.14 @ 04:10:00

## Tool Information

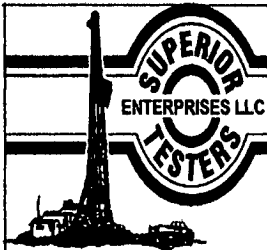
Drill Pipe:	Length: 4631.00 ft	Diameter: 3.80 inches	Volume: 64.96 bbl	Tool Weight:	10000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	65000.00 lb
			<u>Total Volume: 64.96 bbl</u>	Tool Chased	0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4646.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	87.00 ft				
Tool Length:	110.00 ft				
Number of Packers:	2	Diameter: 6.75 inches			

Tool Comments:

## Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths	
Change Over Sub	1.00			4624.00		
Shut-In Tool	5.00			4629.00		
Hydraulic Tool	5.00			4634.00		
Safety Joint	2.00			4636.00		
Packer	5.00			4641.00	23.00	Bottom Of Top Packer
Packer	5.00			4646.00		
Change Over Sub	0.75			4646.75		
Drill Pipe	63.50			4710.25		
Change Over Sub	0.75			4711.00		
Perforations	17.00			4728.00		
Recorder	1.00	8405	Inside	4729.00		
Recorder	1.00	8419	Outside	4730.00		
Bullnose	3.00			4733.00	87.00	Bottom Packers & Anchor

**Total Tool Length: 110.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

RITCHIE EXPLORATION INC  
 8100 E 2ND ST N #700 WICHITA KS 67278-3188  
 ATTN:

**BUSTER #1**  
**32-25-22W FORD**  
 Job Ticket: 16214  
 Test Start: 2010.05.14 @ 04:10:00

**DST#: 3**

### Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 48.00 sec/qt	Cushion Volume: bbl		
Water Loss: 8.40 in <sup>3</sup>	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 7600.00 ppm			
Filter Cake: 1.00 inches			

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD	0.140

Total Length: 10.00 ft      Total Volume: 0.140 bbl  
 Num Fluid Samples: 0      Num Gas Bombs: 0      Serial #:  
 Laboratory Name:      Laboratory Location:  
 Recovery Comments:

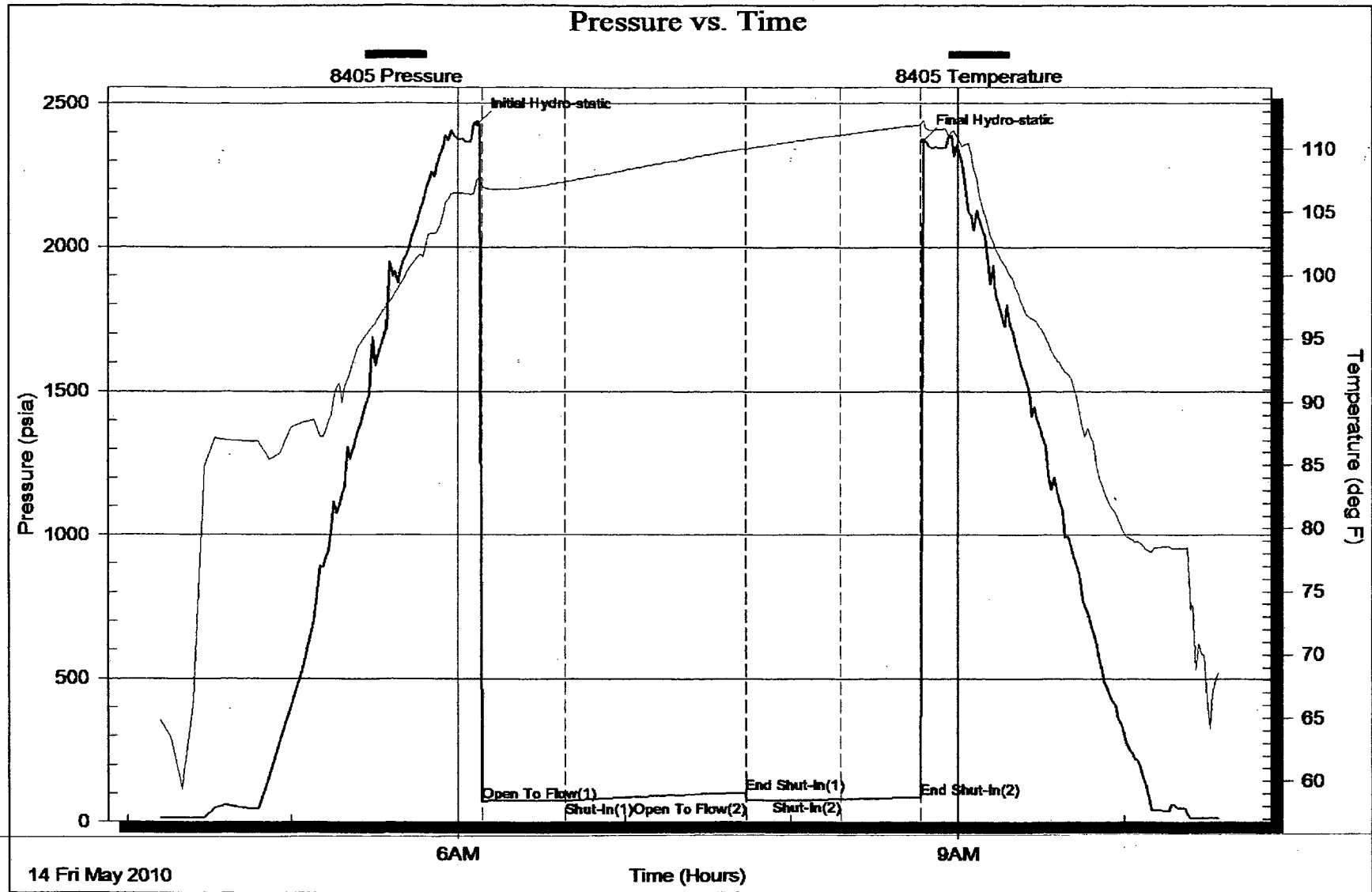
Serial #: 8405

Inside

RITCHIE EXPLORATION INC

32-25-22W FORD

DST Test Number: 3

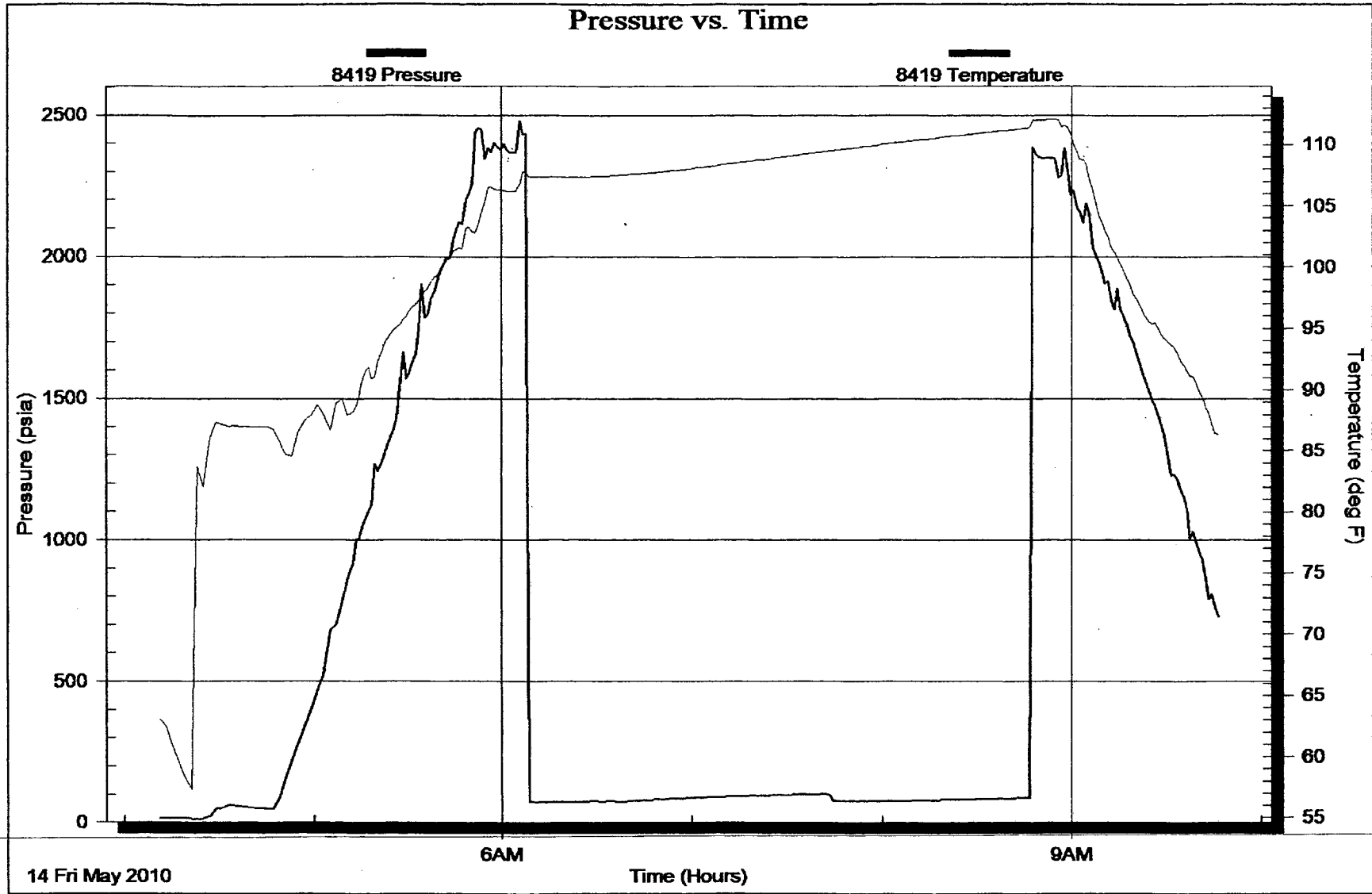


Serial #: 8419

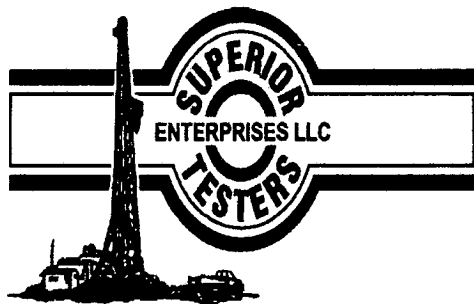
RITCHIE EXPLORATION INC

32-25-22W FORD

DST Test Number: 3







## DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

ATTN:

**32-25-22W FORD**

**BUSTER #1**

Start Date: 2010.05.15 @ 03:48:00

End Date: 2010.05.15 @ 10:05:00

Job Ticket #: 16215          DST #: 4

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

Printed: 2010.05.15 @ 10:27:44

RITCHIE EXPLORATION INC

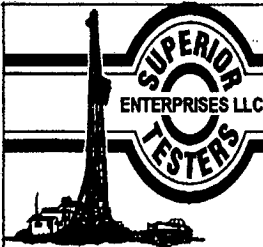
BUSTER #1

32-25-22W FORD

DST # 4

CHEROKEE

2010.05.15



# DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

**BUSTER #1**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

**32-25-22W FORD**

Job Ticket: 16215

**DST#: 4**

ATTN:

Test Start: 2010.05.15 @ 03:48:00

## GENERAL INFORMATION:

Formation: **CHEROKEE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:50:00

Time Test Ended: 10:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-GB-125

Interval: **4815.00 ft (KB) To 4875.00 ft (KB) (TVD)**

Reference Elevations: 2452.00 ft (KB)

Total Depth: 4875.00 ft (KB) (TVD)

2440.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

**Serial #: 8504** Inside

Press@RunDepth: 58.96 psia @ 4871.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.05.15

End Date: 2010.05.15

Last Calib.: 2010.05.15

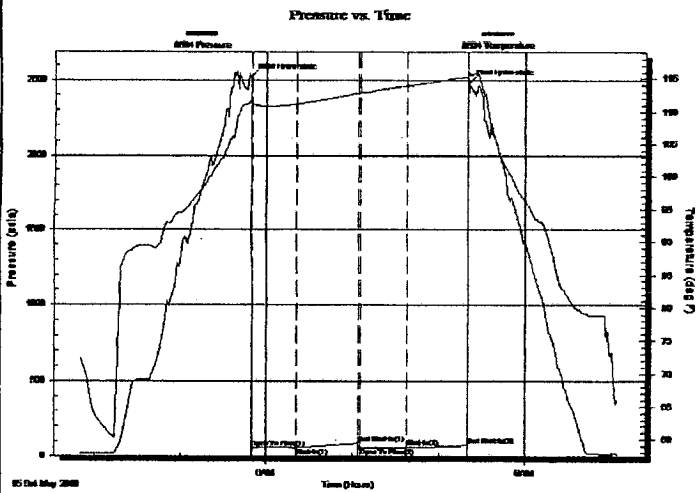
Start Time: 03:50:00

End Time: 10:05:00

Time On Btrr: 2010.05.15 @ 05:49:00

Time Off Btrr: 2010.05.15 @ 08:21:00

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1/4 INCH INTO WATER IN 30 MINUTES  
 45/INITIAL SHUT IN:NO BLOW BACK  
 30/FINAL OPEN:VEREY WEAK SURGE DID NOT BUILD  
 45/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

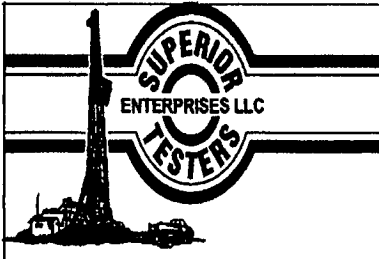
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2520.61	111.72	Initial Hydro-static
1	58.23	111.10	Open To Flow (1)
32	58.77	111.19	Shut-in(1)
75	85.76	112.80	End Shut-in(1)
76	57.63	112.82	Open To Flow (2)
109	58.96	113.97	Shut-in(2)
151	72.38	115.24	End Shut-in(2)
152	2480.82	115.68	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	MUD	0.03

## Gas Rates

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



# DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

**BUSTER #1**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

**32-25-22W FORD**

Job Ticket: 16215

**DST#: 4**

ATTN:

Test Start: 2010.05.15 @ 03:48:00

## GENERAL INFORMATION:

Formation: **CHEROKEE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 05:50:00

Time Test Ended: 10:05:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-GB-125

Interval: **4815.00 ft (KB) To 4875.00 ft (KB) (TVD)**

Reference Elevations: 2452.00 ft (KB)

Total Depth: 4875.00 ft (KB) (TVD)

2440.00 ft (CF)

Hole Diameter: 6.88 inches Hole Condition: Poor

KB to GR/CF: 12.00 ft

**Serial #: 8419 Outside**

Press@RunDepth: 72.75 psia @ 4872.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.05.15 End Date: 2010.05.15

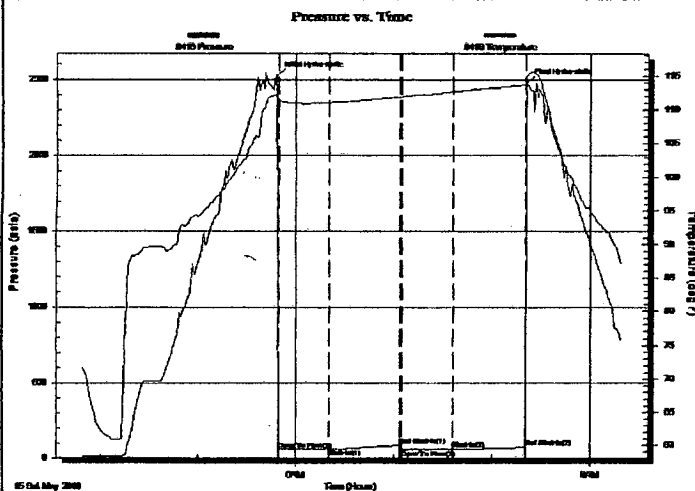
Last Calib.: 2010.05.15

Start Time: 03:49:00 End Time: 09:19:00

Time On Btm: 2010.05.15 @ 05:48:30

Time Off Btm: 2010.05.15 @ 08:21:00

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1/4 INCH INTO WATER IN 30 MINUTES  
 45/INITIAL SHUT IN:NO BLOW BACK  
 30/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD  
 45/FINAL SHUT IN:NO BLOW BACK



## PRESSURE SUMMARY

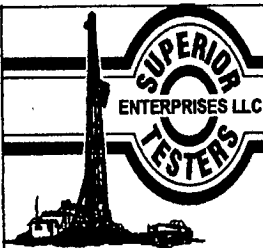
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2523.40	112.28	Initial Hydro-static
1	58.28	111.50	Open To Flow (1)
32	58.85	111.07	Shut-In(1)
75	86.36	111.94	End Shut-In(1)
76	57.37	111.95	Open To Flow (2)
108	58.93	112.69	Shut-In(2)
152	72.75	113.73	End Shut-In(2)
153	2479.07	114.94	Final Hydro-static

## Recovery

Length (ft)	Description	Volume (bbl)
2.00	MUD	0.03

## Gas Rates

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



# DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

**BUSTER #1**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

**32-25-22W FORD**

Job Ticket: 16215

**DST#: 4**

ATTN:

Test Start: 2010.05.15 @ 03:48:00

**Tool Information**

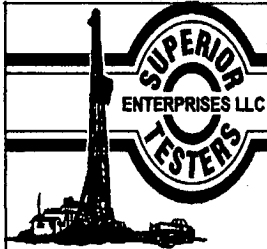
Drill Pipe:	Length: 4818.00 ft	Diameter: 3.80 inches	Volume: 67.58 bbl	Tool Weight:	10000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose:	70000.00 lb
			<u>Total Volume: 67.58 bbl</u>	Tool Chased	3.00 ft
Drill Pipe Above KB:	26.00 ft			String Weight: Initial	60000.00 lb
Depth to Top Packer:	4815.00 ft			Final	60000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	60.00 ft				
Tool Length:	83.00 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			4793.00	
Shut-In Tool	5.00			4798.00	
Hydraulic Tool	5.00			4803.00	
Safety Joint	2.00			4805.00	
Packer	5.00			4810.00	23.00
					Bottom Of Top Packer
Packer	5.00			4815.00	
Change Over Sub	0.75			4815.75	
Drill Pipe	31.50			4847.25	
Change Over Sub	0.75			4848.00	
Perforations	22.00			4870.00	
Recorder	1.00	8504	Inside	4871.00	
Recorder	1.00	8419	Outside	4872.00	
Bullnose	3.00			4875.00	60.00
					Bottom Packers & Anchor

**Total Tool Length: 83.00**



# DRILL STEM TEST REPORT

## FLUID SUMMARY

RITCHE EXPLORATION INC

**BUSTER #1**

8100 E 2ND ST N #700 WICHITA KS 67278-3188

**32-25-22W FORD**

Job Ticket: 16215

**DST#: 4**

ATTN:

Test Start: 2010.05.15 @ 03:48:00

### Mud and Cushion Information

Mud Type: Gel Chem  
 Mud Weight: 10.00 lb/gal  
 Viscosity: 56.00 sec/qt  
 Water Loss: 7.20 in<sup>3</sup>  
 Resistivity: ohm.m  
 Salinity: 6400.00 ppm  
 Filter Cake: 1.00 inches

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

Oil API: deg API  
 Water Salinity: ppm

### Recovery Information

Recovery Table

Length ft	Description	Volume bbl
2.00	MUD	0.028

Total Length: 2.00 ft      Total Volume: 0.028 bbl

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

Laboratory Name:      Laboratory Location:

Recovery Comments:

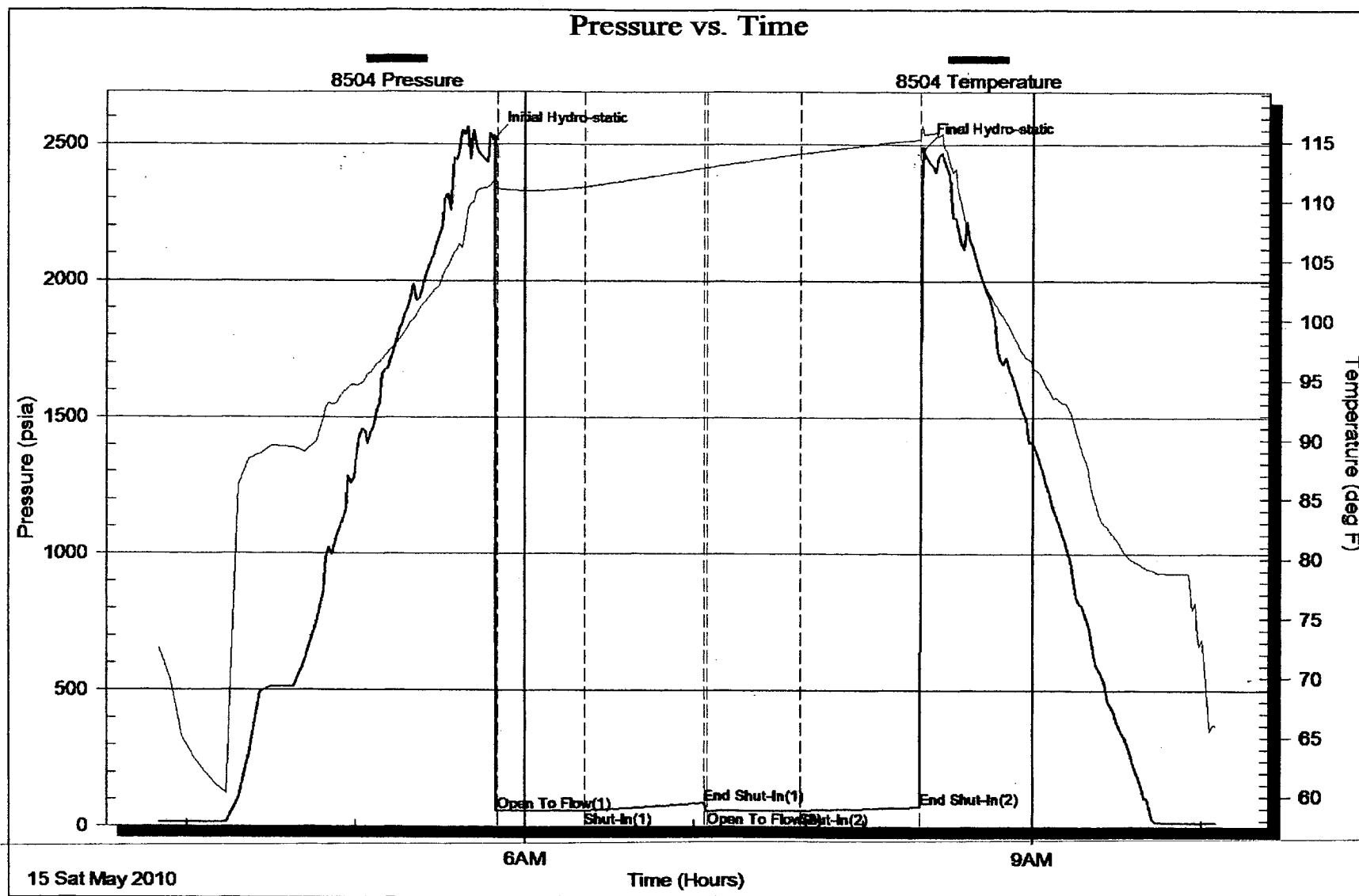
Serial #: 8504

Inside

RITCHIE EXPLORATION INC

32-25-22W FORD

DST Test Number: 4



Serial #: 8419

Outside RITCHIE EXPLORATION INC

32-25-22W FORD

DST Test Number: 4

