

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

RECEIVED ORIGINAL
APR 22 2011

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

KCC WICHITA

4/21/11

OPERATOR: License # 4767
Name: Ritchie Exploration, Inc.
Address 1: P.O. Box 783188
Address 2: _____
City: Wichita State: KS Zip: 67278 + 3188
Contact Person: John Niernberger
Phone: (316) 691-500
CONTRACTOR: License # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Mike Engelbrecht
Purchaser: _____

KCC
APR 21 2011
CONFIDENTIAL

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 #: _____

1/8/11	1/18/11	1/48/11
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 109-20972-00-00
Spot Description: 100' S & 150' W
N/2 SE SE Sec. 23 Twp. 14 S. R. 32 East West
890 Feet from North / South Line of Section
810 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Logan
Lease Name: Ellis 23D Well #: 2
Field Name: _____
Producing Formation: Morrow
Elevation: Ground: 2749 Kelly Bushing: 2759
Total Depth: 4470 Plug Back Total Depth: 4424
Amount of Surface Pipe Set and Cemented at: 222 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2188 Feet
If Alternate II completion, cement circulated from: 2188
feet depth to: surface w/ 335 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 5900 ppm Fluid volume: 700 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Permit #: _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 130 S. Market - Room 2076, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information of side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

AFFIDAVIT

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

Signature: _____
Title: Production Manager Date: 4/21/11

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: 4/21/11 - 4/21/11
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: NJ Date: 5-4-11

Operator Name: Ritchie Exploration, Inc. Lease Name: Ellis 23D Well #: 2
 Sec. 23 Twp. 14 S. R. 32 East West County: Logan

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 Yes No
 (Attach Additional Sheets)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 Electric Log Submitted Electronically Yes No
 (If no, Submit Copy)

Log Formation (Top), Depth and Datum Sample
 Name Top Datum

SEE ATTACHED

KCC
APR 21 2011
CONFIDENTIAL

List All E. Logs Run:
 Compensated Density/Neutron Log
 Dual Induction Log

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4	8-5/8	23#	222	common	175	3% cc, 2% gel
Production	7-7/8	4-1/2	10.5#	4468	ASC	225	10% salt, 2% gel, 3/4% CD-31

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
4	4385' - 4388', 4397' - 4402' (3/15/11)	750 gals 7.5% MIRA w/10% Methanol (3/16/11)	
		158 bbls Pro-Gel & 5,600# of 16/30 Brady sand (3/16/11)	
		(4/18/11)	

RECEIVED
APR 22 2011
KCC WICHITA

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. waiting on equipment
 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: Vented Sold Used on Lease (If vented, Submit ACO-18.)
 METHOD OF COMPLETION: Open Hole Perf. Dually Comp. (Submit ACO-5) Commingled (Submit ACO-4) Other (Specify) _____
 PRODUCTION INTERVAL: _____



RITCHIE

EXPLORATION, INC.
Wichita, Kansas

#2 Ellis 23D

890' FSL & 810' FEL

100' S & 150' W of N/2 SE SE Section 23-14S-32W

Logan County, Kansas

API# 15-109-20972-0000

Elevation: GL: 2749', KB: 2759'

<u>Sample Tops</u>			<u>Ref. Well</u>
Anhydrite	2212'	+547	+6
B/Anhydrite	2233'	+526	+5
Heebner	3740'	-981	flat
Lansing	3777'	-1018	-1
Muncie Shale	3933'	-1174	flat
Lansing "H"	3946'	-1187	+3
Stark Shale	4030'	-1271	flat
BKC	4115'	-1356	+2
Altamont	4163'	-1404	-1
Pawnee	4231'	-1472	-3
Myrick	4266'	-1507	-2
Fort Scott	4283'	-1524	-3
Cherokee Shale	4311'	-1552	-3
Johnson	4352'	-1593	-4
Base Johnson	4381'	-1622	-4
Morrow Sand	4386'	-1627	+4
Mississippian	4400'	-1641	-1
RTD	4470'	-1711	

KCC
APR 2 1 2011
CONFIDENTIAL

RECEIVED
APR 2 2 2011
KCC WICHITA

ALLIED CEMENTING CO., LLC. 035546

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

SERVICE POINT: DeKly

DATE <u>4/14/11</u>	SEC <u>21</u>	TWP. <u>14</u>	RANGE <u>32</u>	CALLED OUT	ON LOCATION	JOB START <u>4:00p</u>	JOB FINISH <u>5:00p</u>
LEASE <u>Ellis</u>	WELL# <u>230</u>	# <u>2</u>	LOCATION <u>DeKly 205 1E 1-2</u>	COUNTY <u>Logan</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one)			<u>14 W 520</u>				

CONTRACTOR Mudfin 14
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 4478
 CASING SIZE 4 1/2 DEPTH 4468
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL Port Collar DEPTH 2190 - KB
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 21.5
 CEMENT LEFT IN CSG. 21.5
 PERFS.
 DISPLACEMENT 71.42 BBL H₂O

OWNER Same
 CEMENT
 AMOUNT ORDERED 275 SKS ASC 1070 SALT
5" Gilsonite 14-120 COB1, 22oz/gal
500 Gal WFR II
 COMMON @
 POZMIX @
 GEL 5 SKS @ 20.00 104.00
 CHLORIDE @
 ASC 275 SKS @ 18.00 515.00
 @
SALT 26 SKS @ 23.25 620.12
 @
Gilsonite 1375 lb @ .89 1223.25
 @
COB1 138 lb @ 9.35 1290.30
 @
500 Gal WFR II @ 1.27 635.00
 HANDLING 352 SKS @ 2.40 844.80
 MILEAGE 100 SK/mile 204.95
 TOTAL 10536.00

KCC
APR 21 2011
CONFIDENTIAL

EQUIPMENT
 PUMP TRUCK CEMENTER Alan
 # 422 HELPER Wayne
 BULK TRUCK
 # 394 DRIVER Wil
 BULK TRUCK
 # DRIVER

REMARKS:
Run 4 1/2" Cas. Circulate Mix 500 gal WFR II
Mix 20 SKS Mangrove, 30 SKS Salt Hole
Mix 275 SKS Asc 1070 Cas + Displace
Plug with 1 1/2" BBL H₂O. Insert Plug Hold
2100 PSI CFT and Plug @ 1800 PSI.

Thank You
Alan, Wayne, Wil

CHARGE TO: Ritchie Exploration
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE
 DEPTH OF JOB _____
 PUMP TRUCK CHARGE 2185.00
 EXTRA FOOTAGE @
 MILEAGE 20 Miles @ 7.00 140.00
 MANIFOLD @
 @
 @
 TOTAL 2325.00

PLUG & FLOAT EQUIPMENT
 8 - Bucket - 3 147.00 441.00
 8 - Bucket - 1 @ 169.00 169.00
 8 - Port Collar - 1 @ 1673.00 1673.00
 8 - Tracheizers - 7 @ 39.00 273.00
 8 - Insert AFU - 1 @ 101.00 101.00
 8 - Cushion Shoes - 1 @ 73.00 73.00
 8 - Public Plug - 1 55.00 55.00
 TOTAL 2785.00

RECEIVED
APR 22 2011
KCC WICHITA

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 _____
 SIGNATURE Thomas [Signature]

SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

[Signature]

ALLIED CEMENTING CO., LLC. 040821

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

SERVICE POINT:
Oakleys

DATE	SEC	TWP.	RANGE	CALLED OUT	ON LOCATION	JOB START	JOB FINISH
1-24-11	23	14S	32W		3:00AM	2:30PM	2:00PM
LEASE	WELL#	LOCATION				COUNTY	STATE
ELLIS	23 D-2	Oakley 20S-12-12S				Logan	KS
OLD OR <u>NEW</u> (Circle one)		L + S					

CONTRACTOR Express
 TYPE OF JOB Port Collar
 HOLE SIZE I.D.
 CASING SIZE DEPTH
 TUBING SIZE 2 3/8 DEPTH 2188
 DRILL PIPE DEPTH
 TOOL Port Collar DEPTH 2188
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG.
 PERFS.
 DISPLACEMENT 8.5

OWNER
 CEMENT
 AMOUNT ORDERED 450 60/4069 gal
114# Coseal
500# hulls on side
(used 335 + 250#)
 COMMON 201 @ 15.45 3105.45
 POZMIX 134 @ 8.00 1072.00
 GEL 17 @ 20.80 353.60
 CHLORIDE @
 ASC @
Coseal 84# @ 2.50 210.00
Hulls 5 @ 31.85 159.25
 HANDLING 477 @ 2.40 1144.80
 MILEAGE .10 x 5kt mile 954.00
 TOTAL 6999.10

KCC
 APR 21 2011
 CONFIDENTIAL

REMARKS:

Test closed tool to 1200#, open
 tool eat circulation. mix 335
 s/s cement w/ 250# hulls. Displace
 8 BBL. Close tool & press to
 1200#. Run 4 Jts reverse
 the clean. Cement did circulate
 Job completed @ 3:00pm
 Thanks Fuzz & crew

SERVICE

DEPTH OF JOB
 PUMP TRUCK CHARGE 1185.00
 EXTRA FOOTAGE @
 MILEAGE 20 @ 7.00 140.00
 MANIFOLD @
 TOTAL 1325.00

CHARGE TO: R. N. K. Exploration
 STREET
 CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

@
 @
 @
 @
 @
 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.

SALES TAX (if Any)
 TOTAL CHARGES
 DISCOUNT IF PAID IN 30 DAYS

PRINTED NAME
 SIGNATURE Thomas A. Adair

RECEIVED
 APR 22 2011
 KCC WICHITA

ALLIED CEMENTING CO., LLC. 035174 A

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

SERVICE POINT
OKLEY

DATE <u>7-8-11</u>	SEC <u>23</u>	TWP <u>17S</u>	RANGE <u>32W</u>	CALLED OUT	ON LOCATION <u>7:30 PM</u>	JOB START <u>9:00 PM</u>	JOB FINISH <u>9:30 PM</u>
LEASE <u>E/11S</u>	WELL # <u>230#2</u>	LOCATION <u>OKLEY 20S-1E-1/2S-W</u>			COUNTY <u>LOGAN</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>+ South into</u>			

CONTRACTOR <u>MURFEN DRUG REG #14</u>	OWNER <u>SAME</u>
TYPE OF JOB <u>SURFACE</u>	
HOLE SIZE <u>12 1/4"</u>	T.D. <u>225'</u>
CASING SIZE <u>8 5/8"</u>	DEPTH <u>225'</u>
TUBING SIZE	DEPTH
DRILL PIPE	DEPTH
TOOL	DEPTH
PRES. MAX	MINIMUM
MEAS. LINE	SHOE JOINT
CEMENT LEFT IN CSG. <u>15'</u>	
PERFS.	
DISPLACEMENT <u>13 1/4 Bbls</u>	

EQUIPMENT

PUMP TRUCK # <u>431</u>	CEMENTER <u>TERRY</u>
	HELPER <u>DARRIN</u>
BULK TRUCK # <u>394</u>	DRIVER <u>TERRY</u>
BULK TRUCK #	DRIVER

REMARKS:

CEMENT did CIRC.

THANK YOU

CHARGE TO: RITCHIE EXPLORATION

STREET _____

CITY _____ STATE _____ ZIP _____

CEMENT AMOUNT ORDERED	<u>175 SKS COM 3% CC 2% GEL</u>
COMMON	<u>175 SKS @ 15.45 = 2703.75</u>
POZMIX	@ _____
GEL	<u>3 SKS @ 20.80 = 62.40</u>
CHLORIDE	<u>6 SKS @ 58.20 = 349.20</u>
ASC	@ _____
	@ _____
	@ _____
	@ _____
	@ _____
	@ _____
	@ _____
HANDLING	<u>184 SKS @ 2.40 = 441.60</u>
MILEAGE	<u>368 @ _____ = _____</u>
TOTAL	<u>3924.95</u>

SERVICE

DEPTH OF JOB	<u>225'</u>
PUMP TRUCK CHARGE	<u>1018.00</u>
EXTRA FOOTAGE	@ _____
MILEAGE	<u>20 @ 7.00 = 140.00</u>
MANIFOLD	@ _____
	@ _____
	@ _____
TOTAL	<u>1158.00</u>

PLUG & FLOAT EQUIPMENT

	@ _____
	@ _____
	@ _____
	@ _____
	@ _____
TOTAL	_____

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

To Allied Cementing Co., LLC.
You are hereby requested to rent cementing equipment and furnish cement 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 GREG LUTZ

SIGNATURE Greg Lutz

KCC
APR 21 2011
CONFIDENTIAL

RECEIVED
APR 22 2011
KCC WICHITA

(Handwritten mark)



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd Street
Wichita Kansas 67278+3188

ATTN: Justin Clegg

23/14S/32W Logan

Ellis #2-23D

Start Date: 2011.01.11 @ 08:49:00

End Date: 2011.01.11 @ 16:05:00

Job Ticket #: 16010 DST #: 1

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

Printed: 2011.01.18 @ 10:38:11

Ritchie Exploration Inc.

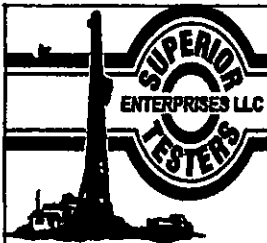
Ellis #2-23D

23/14S/32W Logan

DST # 1

Lansing "C" Zone

2011.01.11



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

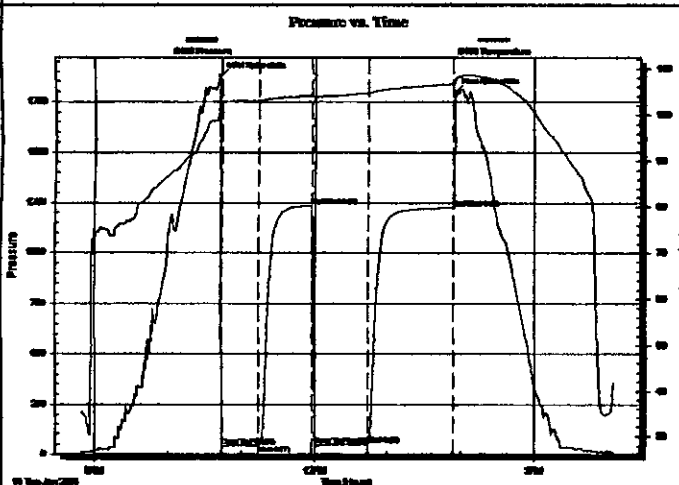
Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16010 DST#: 1
 Test Start: 2011.01.11 @ 08:49:00

GENERAL INFORMATION:

Formation: **Lansing "C" Zone**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: **10:43:30**
 Time Test Ended: **16:05:00**
 Interval: **3794.00 ft (KB) To 3820.00 ft (KB) (TVD)**
 Total Depth: **3820.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Dylan E Ellis**
 Unit No: **3345/Great Bend/344**
 Reference Elevations: **2759.00 ft (KB)**
2749.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: **8400** Outside
 Press@RunDepth: **50.51 psia @ 3816.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.01.11** End Date: **2011.01.11** Last Calib.: **2011.01.12**
 Start Time: **08:49:10** End Time: **16:05:00** Time On Btm: **2011.01.11 @ 10:42:00**
 Time Off Btm: **2011.01.11 @ 13:55:00**

TEST COMMENT: 1ST Opening 30 Minutes weak blow /blow blew just under surface 1 inch into water in bucket
 1ST Shut-in 45 Minutes no blow back
 2ND Opening 45 Minutes weak surface blow never built stayed through out open
 2ND Shut-in 60 Minutes no blow back



PRESSURE SUMMARY

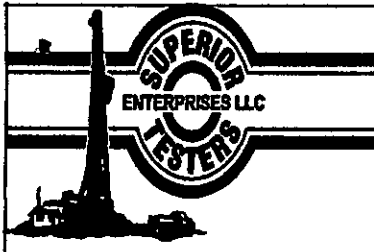
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1876.19	102.51	Initial Hydro-static
2	42.37	102.77	Open To Flow (1)
32	45.81	103.09	Shut-in(1)
78	1235.48	104.19	End Shut-in(1)
78	46.68	103.93	Open To Flow (2)
122	50.51	104.78	Shut-in(2)
192	1224.22	106.67	End Shut-in(2)
193	1795.80	107.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Slightly Oil Cut Mud	0.10
0.00	Oil 0.50% Mud 99.50%	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

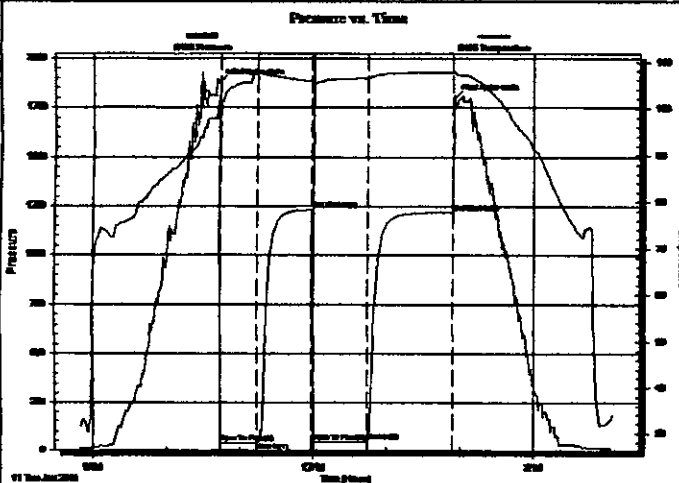
Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16010 DST#: 1
 Test Start: 2011.01.11 @ 08:49:00

GENERAL INFORMATION:

Formation: Lansing "C" Zone
Deviated: No **Whipstock:** ft (KB)
Time Tool Opened: 10:43:30
Time Test Ended: 16:05:00
Interval: 3794.00 ft (KB) To 3820.00 ft (KB) (TVD)
Total Depth: 3820.00 ft (KB) (TVD)
Hole Diameter: 7.88 inches **Hole Condition:** Fair
Test Type: Conventional Bottom Hole (Initial)
Tester: Dylan E Ellis
Unit No: 3345/Great Bend/344
Reference Elevations: 2759.00 ft (KB)
 2749.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: 8405 Inside
Press@RunDepth: 1223.30 psia @ 3815.00 ft (KB) **Capacity:** 8000.00 psia
Start Date: 2011.01.11 **End Date:** 2011.01.11 **Last Calib.:** 2011.01.12
Start Time: 08:50:01 **End Time:** 16:04:47 **Time On Btm:** 2011.01.11 @ 10:42:17
Time Off Btm: 2011.01.11 @ 13:55:17

TEST COMMENT: 1ST Opening 30 Minutes weak blow /blow blew just under surface 1 inch into water in bucket
 1ST Shut-in 45 Minutes no blow back
 2ND Opening 45 Minutes weak surface blow never built stayed through out open
 2ND Shut-in 60 Minutes no blow back



PRESSURE SUMMARY

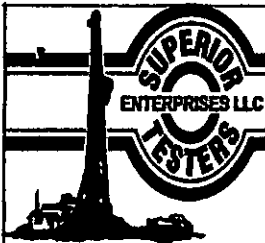
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1874.40	101.40	Initial Hydro-static
2	40.52	101.36	Open To Flow (1)
32	43.73	107.63	Shut-in (1)
76	1234.66	105.78	End Shut-in (1)
78	44.84	105.27	Open To Flow (2)
122	49.57	106.56	Shut-in (2)
192	1223.30	107.77	End Shut-in (2)
193	1796.74	107.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
20.00	Slightly Oil Cut Mud	0.10
0.00	Oil 0.50% Mud 99.50%	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
23/14S/32W Logan
 Job Ticket: 16010 **DST#: 1**
 Test Start: 2011.01.11 @ 08:49:00

Tool Information

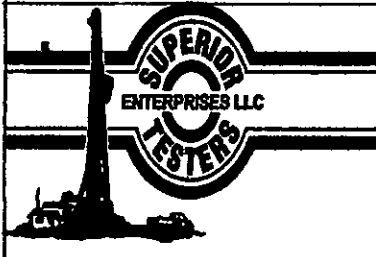
Drill Pipe:	Length: 3193.00 ft	Diameter: 3.80 inches	Volume: 44.79 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 577.20 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 14000.00 lb
			Total Volume: 47.63 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.20 ft			String Weight: Initial 58000.00 lb
Depth to Top Packer:	3794.00 ft			Final 58000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	54.00 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			3766.00	
Shut-in Tool	5.00			3771.00	
Hydrolic Tool	5.00			3776.00	
Jars	6.00			3782.00	
Safety Joint	2.00			3784.00	
Packer	5.00			3789.00	29.00 Bottom Of Top Packer
Packer	5.00			3794.00	
Perforations	20.00			3814.00	
Recorder	1.00	8405	Inside	3815.00	
Recorder	1.00	8400	Outside	3816.00	
Bullnose	3.00			3819.00	25.00 Bottom Packers & Anchor

Total Tool Length: 54.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16010 DST#: 1
 Test Start: 2011.01.11 @ 08:49:00

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.37 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3500.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
20.00	Slightly Oil Cut Mud	0.098
0.00	Oil 0.50% Mud 99.50%	0.000

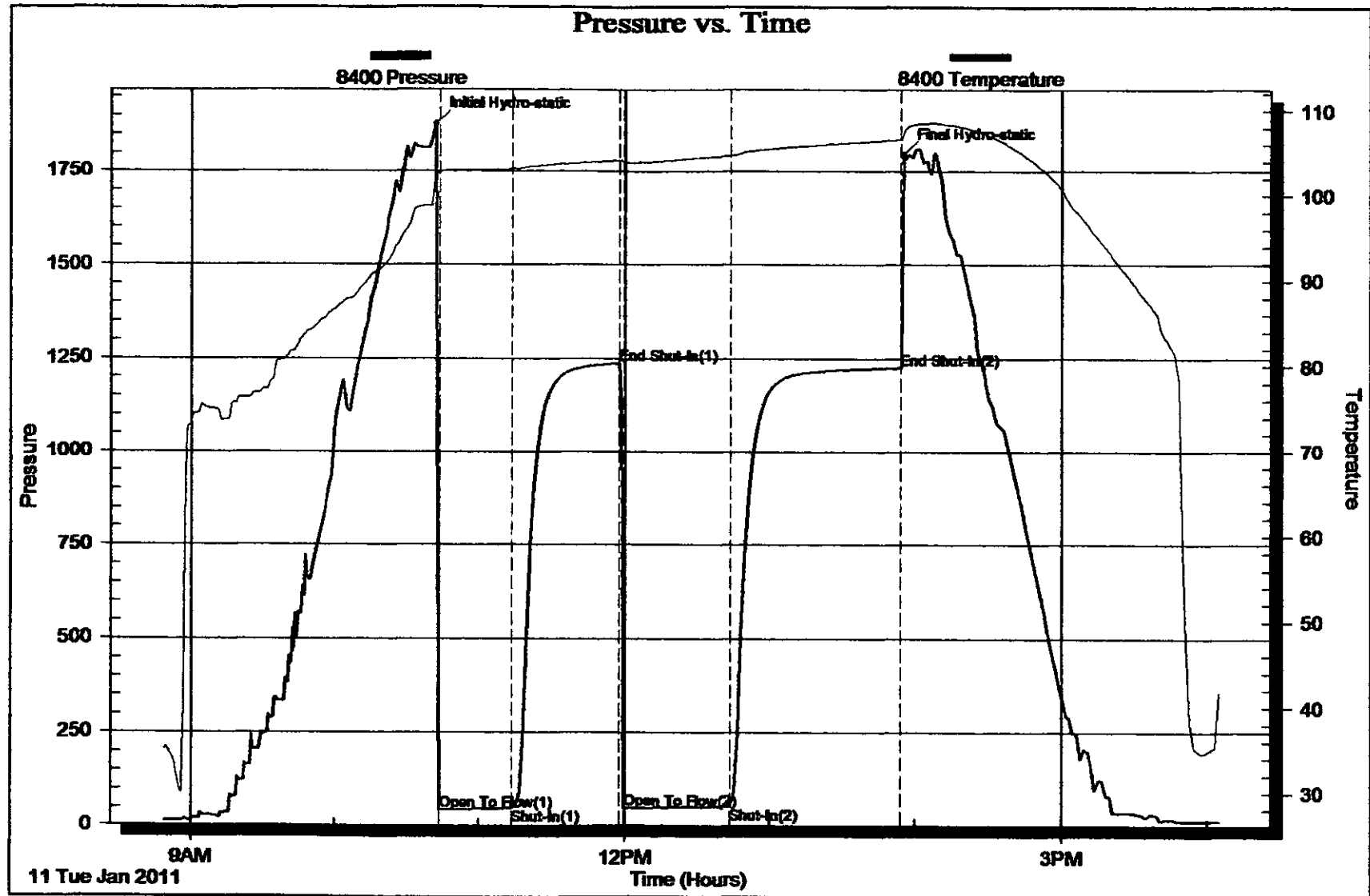
Total Length: 20.00 ft Total Volume: 0.098 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

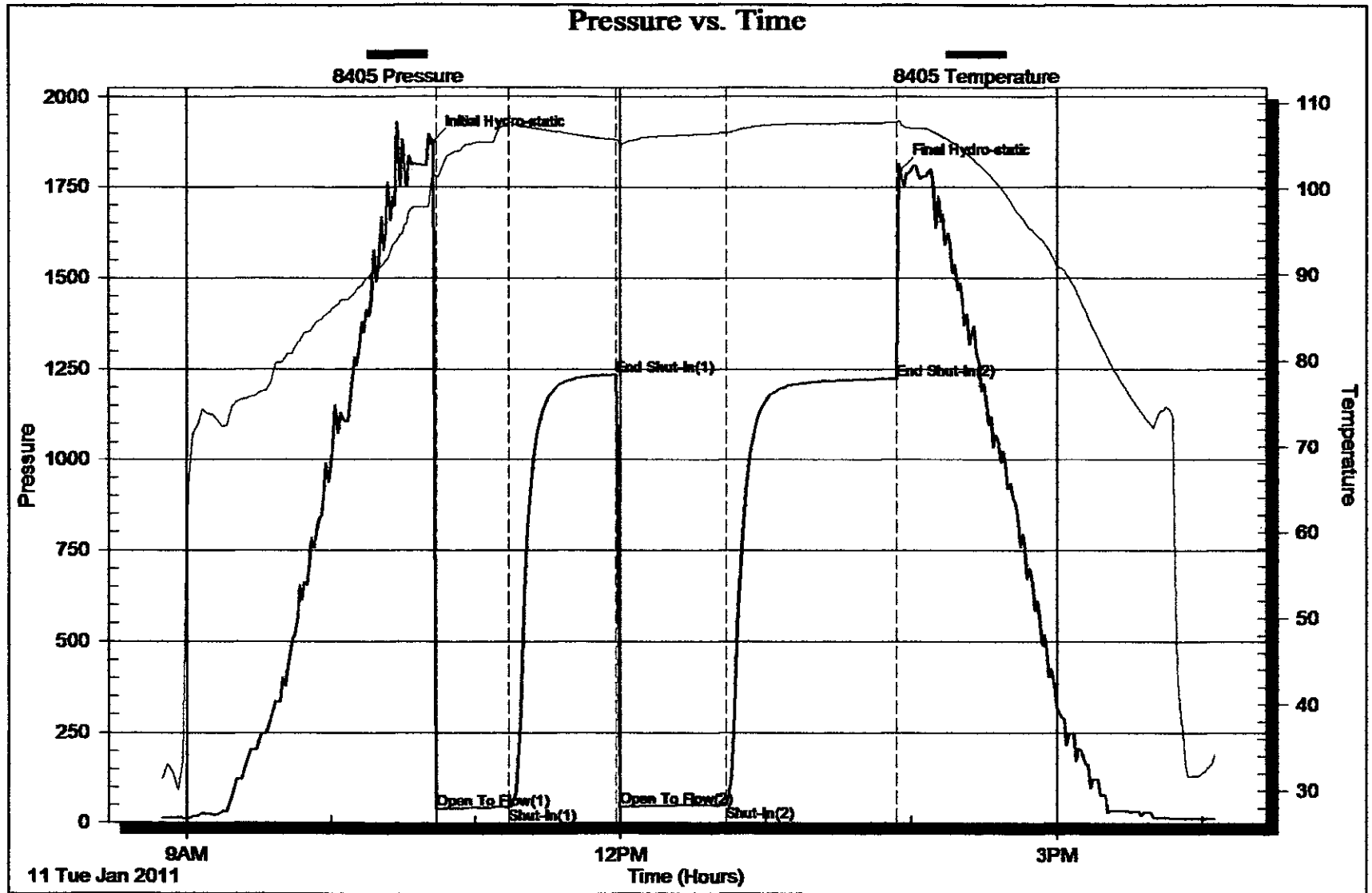
Serial #: 8400

Outside Ritchie Exploration Inc.

23/14S32W Logan

DST Test Number: 1







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd Street
Wichita Kansas 67278+3188

ATTN: Justin Clegg

23/14S/32W Logan

Ellis #2-23D

Start Date: 2011.01.12 @ 06:49:00

End Date: 2011.01.12 @ 13:56:00

Job Ticket #: 16011 DST #: 2

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

Printed: 2011.01.18 @ 10:38:00

Ritchie Exploration Inc.

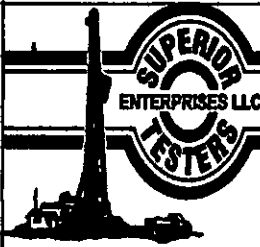
Ellis #2-23D

23/14S/32W Logan

DST # 2

Lansing 'G' Zone

2011.01.12



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

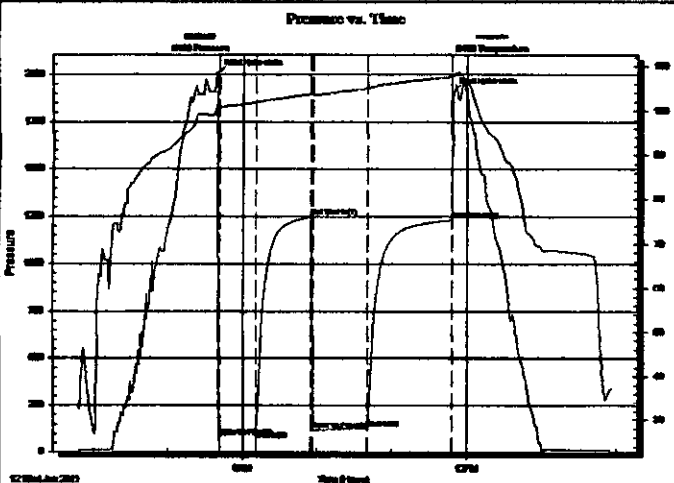
Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16011 DST#: 2
 Test Start: 2011.01.12 @ 06:49:00

GENERAL INFORMATION:

Formation: Lansing 'G' Zone
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:41:00 Tester: Dylan E Ellis
 Time Test Ended: 13:56:00 Unit No: 3345/Great Bend/344
 Interval: 3850.00 ft (KB) To 3939.00 ft (KB) (TVD) Reference Elevations: 2759.00 ft (KB)
 Total Depth: 3939.00 ft (KB) (TVD) 2749.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8400 Outside
 Press@RunDepth: 128.84 psia @ 3935.87 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.12 End Date: 2011.01.12 Last Calib.: 2011.01.13
 Start Time: 06:49:10 End Time: 13:56:00 Time On Btm: 2011.01.12 @ 08:39:30
 Time Off Btm: 2011.01.12 @ 11:49:00

TEST COMMENT: 1ST Opening 30 Minutes fair blow/blow built to 6 inches into bucket of water
 1ST Shut-in 45 Minutes no blow back
 2ND Opening 45 Minutes weak surface blow/blow built to 2 inches into bucket of water
 2ND Shut-in 60 Minutes no blow back



PRESSURE SUMMARY

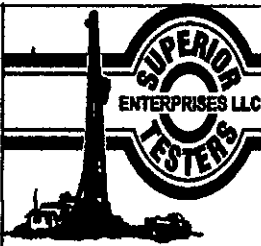
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2001.06	101.23	Initial Hydro-static
2	81.53	100.88	Open To Flow (1)
32	114.22	101.79	Shut-in(1)
76	1247.04	103.82	End Shut-in(1)
77	116.06	103.59	Open To Flow (2)
121	128.84	105.08	Shut-in(2)
189	1233.06	107.64	End Shut-in(2)
190	1906.63	107.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Drilling Mud 100%	0.44

Gas Rates

	Choke (inches)	Pressure (psia)	Gas Rate (Mscfd)



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

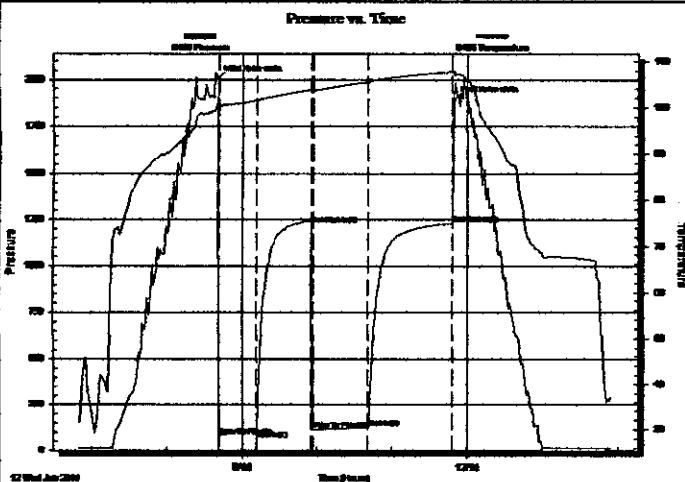
Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16011 DST#: 2
 Test Start: 2011.01.12 @ 06:49:00

GENERAL INFORMATION:

Formation: **Lansing 'G' Zone**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **08:41:00**
 Tester: **Dylan E Ellis**
 Time Test Ended: **13:56:00**
 Unit No: **3345/Great Bend/344**
 Interval: **3850.00 ft (KB) To 3939.00 ft (KB) (TVD)**
 Reference Elevations: **2759.00 ft (KB)**
 Total Depth: **3939.00 ft (KB) (TVD)**
2749.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **10.00 ft**

Serial #: **8405** Inside
 Press@RunDepth: **1232.28 psia @ 3934.87 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.01.12** End Date: **2011.01.12** Last Calib.: **2011.01.13**
 Start Time: **06:50:01** End Time: **13:55:46** Time On Btm: **2011.01.12 @ 08:39:16**
 Time Off Btm: **2011.01.12 @ 11:49:46**

TEST COMMENT: 1ST Opening 30 Minutes fair blow /blow built to 6 inches into bucket of water
 1ST Shut-in 45 Minutes no blow back
 2ND Opening 45 Minutes weak surface blow /blow built to 2 inches into bucket of water
 2ND Shut-in 60 Minutes no blow back



PRESSURE SUMMARY

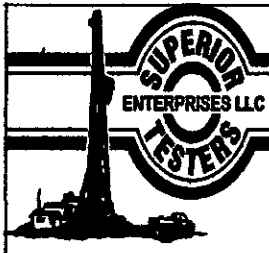
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2003.93	100.60	Initial Hydro-static
2	79.47	100.45	Open To Flow (1)
32	111.63	101.46	Shut-in(1)
77	1224.64	103.90	End Shut-in(1)
78	114.10	103.72	Open To Flow (2)
122	126.81	105.53	Shut-in(2)
189	1232.28	107.78	End Shut-in(2)
191	1892.08	107.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
90.00	Drilling Mud 100%	0.44

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
23/14S/32W Logan
 Job Ticket: 16011 **DST#: 2**
 Test Start: 2011.01.12 @ 06:49:00

Tool Information

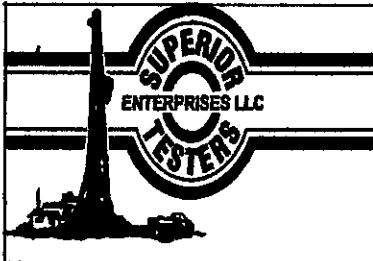
Drill Pipe:	Length: 3257.00 ft	Diameter: 3.80 inches	Volume: 45.69 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 577.20 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 5000.00 lb
			Total Volume: 48.53 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.20 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3850.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	88.87 ft			
Tool Length:	117.87 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			3822.00	
Shut-in Tool	5.00			3827.00	
Hydrofic Tool	5.00			3832.00	
Jars	6.00			3838.00	
Safety Joint	2.00			3840.00	
Packer	5.00			3845.00	29.00 Bottom Of Top Packer
Packer	5.00			3850.00	
Perforations	5.00			3855.00	
Change Over Sub	0.75			3855.75	
Drill Pipe	63.37			3919.12	
Change Over Sub	0.75			3919.87	
Perforations	14.00			3933.87	
Recorder	1.00	8405	Inside	3934.87	
Recorder	1.00	8400	Outside	3935.87	
Bullnose	3.00			3938.87	88.87 Bottom Packers & Anchor

Total Tool Length: 117.87



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
23/14S/32W Logan
 Job Ticket: 16011 **DST#: 2**
 Test Start: 2011.01.12 @ 06:49:00

Mud and Cushion Information

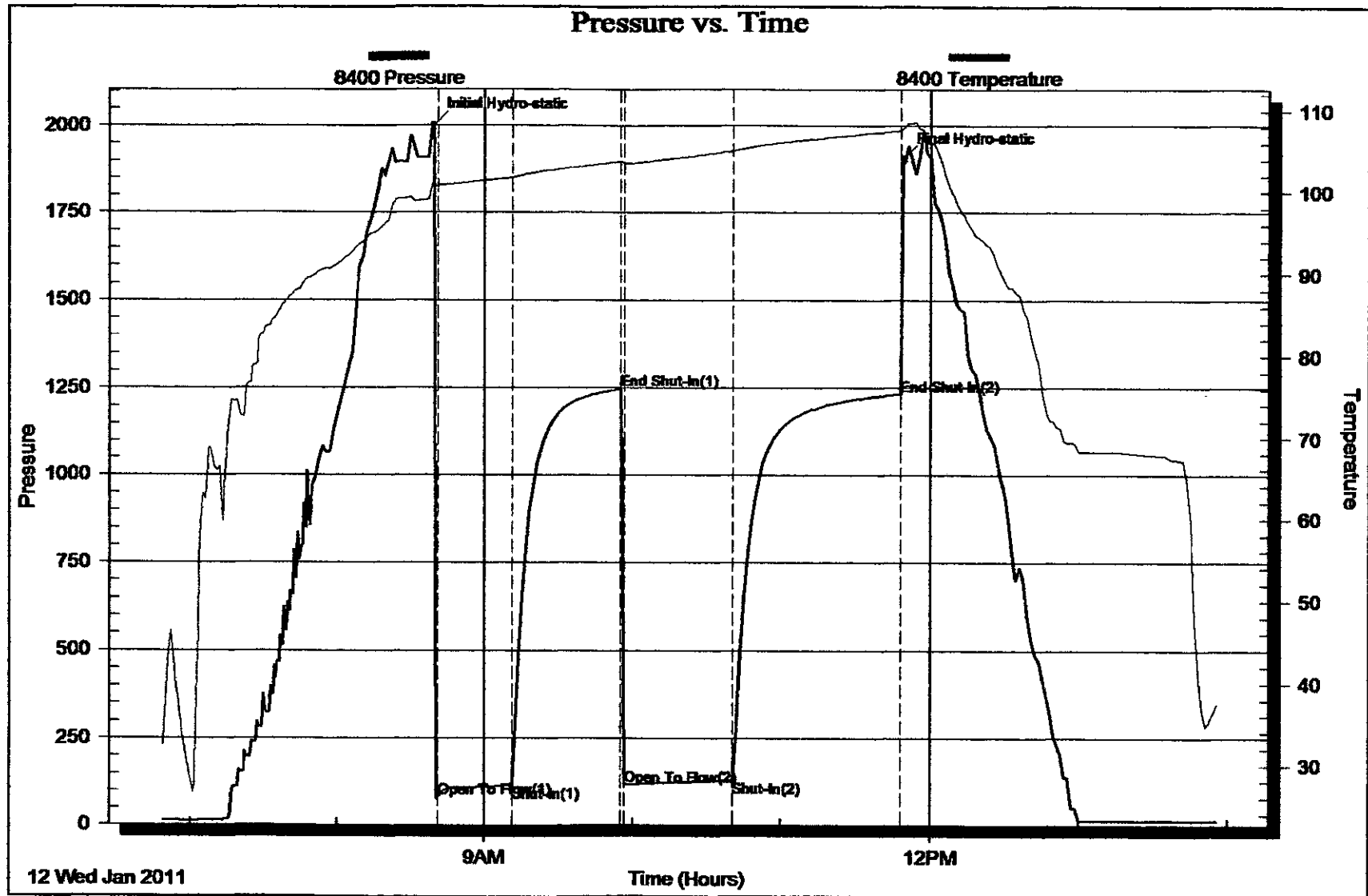
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6900.00 ppm			
Filter Cake: 2.00 inches			

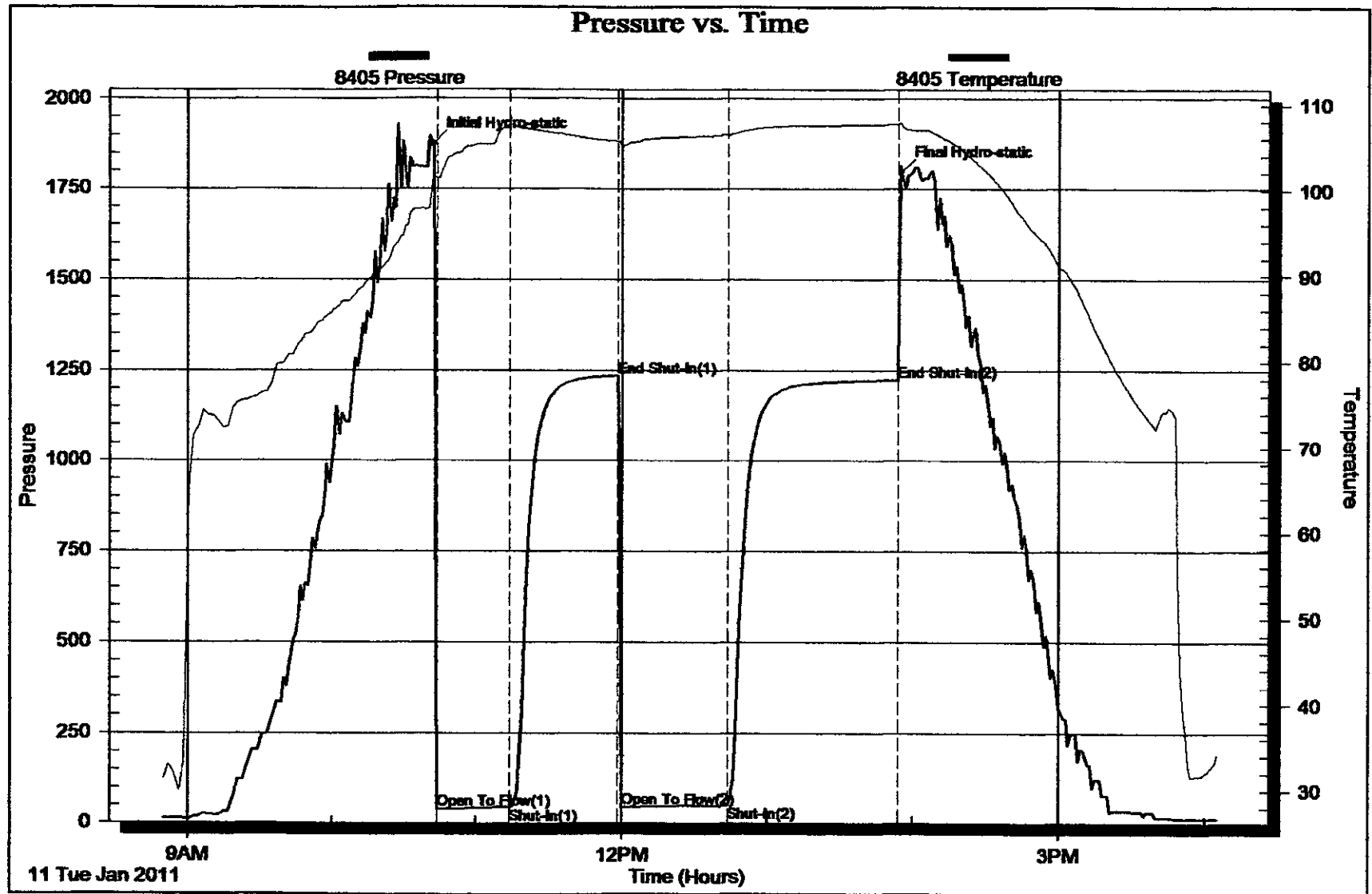
Recovery Information

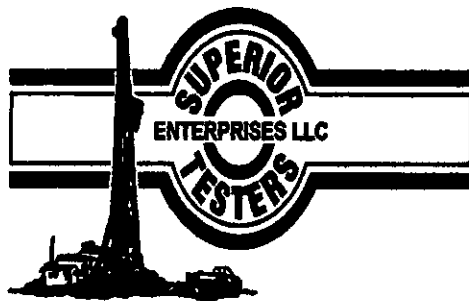
Recovery Table

Length ft	Description	Volume bbl
90.00	Drilling Mud 100%	0.443

Total Length: 90.00 ft Total Volume: 0.443 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd Street
Wichita Kansas 67278+3188

ATTN: Justin Clegg

23/14S/32W Logan

Ellis #2-23D

Start Date: 2011.01.13 @ 01:45:00

End Date: 2011.01.13 @ 07:21:00

Job Ticket #: 16012 DST #: 3

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

Printed: 2011.01.18 @ 10:36:53

Ritchie Exploration Inc.

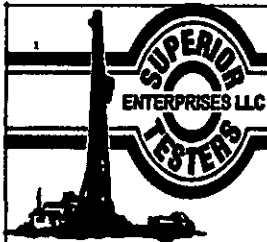
Ellis #2-23D

23/14S/32W Logan

DST # 3

Lansing ' H and ' Z

2011.01.13



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

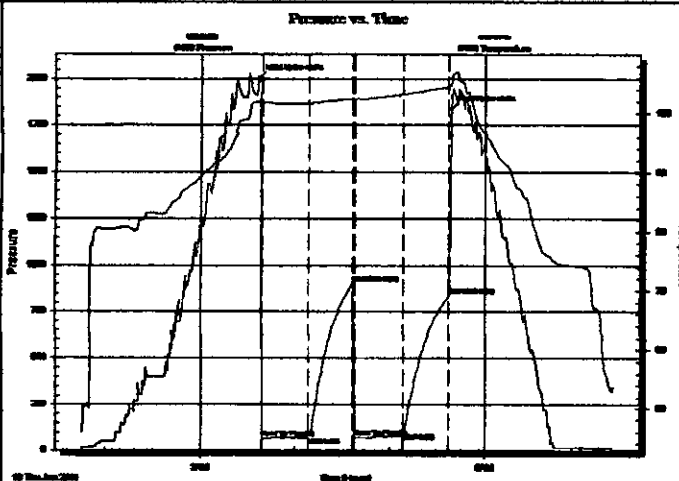
Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16012 DST#: 3
 Test Start: 2011.01.13 @ 01:45:00

GENERAL INFORMATION:

Formation: **Lansing ' Hand I' Z**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **03:38:30**
 Tester: **Dylan E Ellis**
 Time Test Ended: **07:21:00**
 Unit No: **3345/Great Bend/344**
 Interval: **3928.00 ft (KB) To 4000.00 ft (KB) (TVD)**
 Reference Elevations: **2759.00 ft (KB)**
 Total Depth: **4000.00 ft (KB) (TVD)**
2749.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **10.00 ft**

Serial #: **8400** Outside
 Press@RunDepth: **98.14 psia @ 3996.20 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.01.13** End Date: **2011.01.13** Last Calib.: **2011.01.13**
 Start Time: **01:45:10** End Time: **07:21:00** Time On Btm: **2011.01.13 @ 03:36:30**
 Time Off Btm: **2011.01.13 @ 05:38:30**

TEST COMMENT: 1ST Opening 30 Minutes weak blow / blow built to 1 inch into a bucket of water
 1ST Shut-in 30 Minutes no blow back
 2ND Opening 30 Minutes very weak surface blow / blow blew for 11 minutes and then died off
 2ND Shut-in 30 Minutes no blow back



PRESSURE SUMMARY

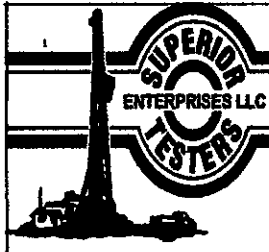
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2004.95	101.88	Initial Hydro-static
2	70.55	101.71	Open To Flow (1)
32	75.13	101.68	Shut-in(1)
60	904.73	102.53	End Shut-in(1)
61	75.00	102.23	Open To Flow (2)
92	98.14	103.20	Shut-in(2)
121	836.33	104.42	End Shut-in(2)
122	1834.65	104.76	Final Hydro-static

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

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
23/14S/32W Logan
 Job Ticket: 16012 DST#: 3
 Test Start: 2011.01.13 @ 01:45:00

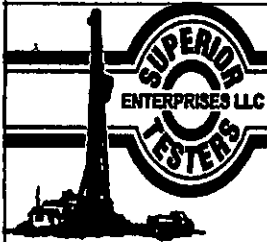
Tool Information

Drill Pipe:	Length: 3353.00 ft	Diameter: 3.80 inches	Volume: 47.03 bbl	Tool Weight:	2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer:	20000.00 lb
Drill Collar:	Length: 577.20 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose:	11000.00 lb
		Total Volume: 49.87 bbl		Tool Chased	0.00 ft
Drill Pipe Above KB:	31.20 ft			String Weight: Initial	70000.00 lb
Depth to Top Packer:	3928.00 ft			Final	70000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	71.20 ft				
Tool Length:	100.20 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			3900.00	
Shut-In Tool	5.00			3905.00	
Hydraulic Tool	5.00			3910.00	
Jars	6.00			3916.00	
Safety Joint	2.00			3918.00	
Packer	5.00			3923.00	29.00 Bottom Of Top Packer
Packer	5.00			3928.00	
Perforations	5.00			3933.00	
Change Over Sub	0.75			3933.75	
Drill Pipe	31.70			3965.45	
Change Over Sub	0.75			3966.20	
Perforations	28.00			3994.20	
Recorder	1.00	8405	Inside	3995.20	
Recorder	1.00	8400	Outside	3996.20	
Bullnose	3.00			3999.20	71.20 Bottom Packers & Anchor

Total Tool Length: 100.20



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
8100 East 22nd Street
Wichita Kansas 67278+3188
ATTN: Justin Clegg

Ellis #2-23D
23/14S/32W Logan
Job Ticket: 16012 DST#: 3
Test Start: 2011.01.13 @ 01:45:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	OI API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 60.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6900.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

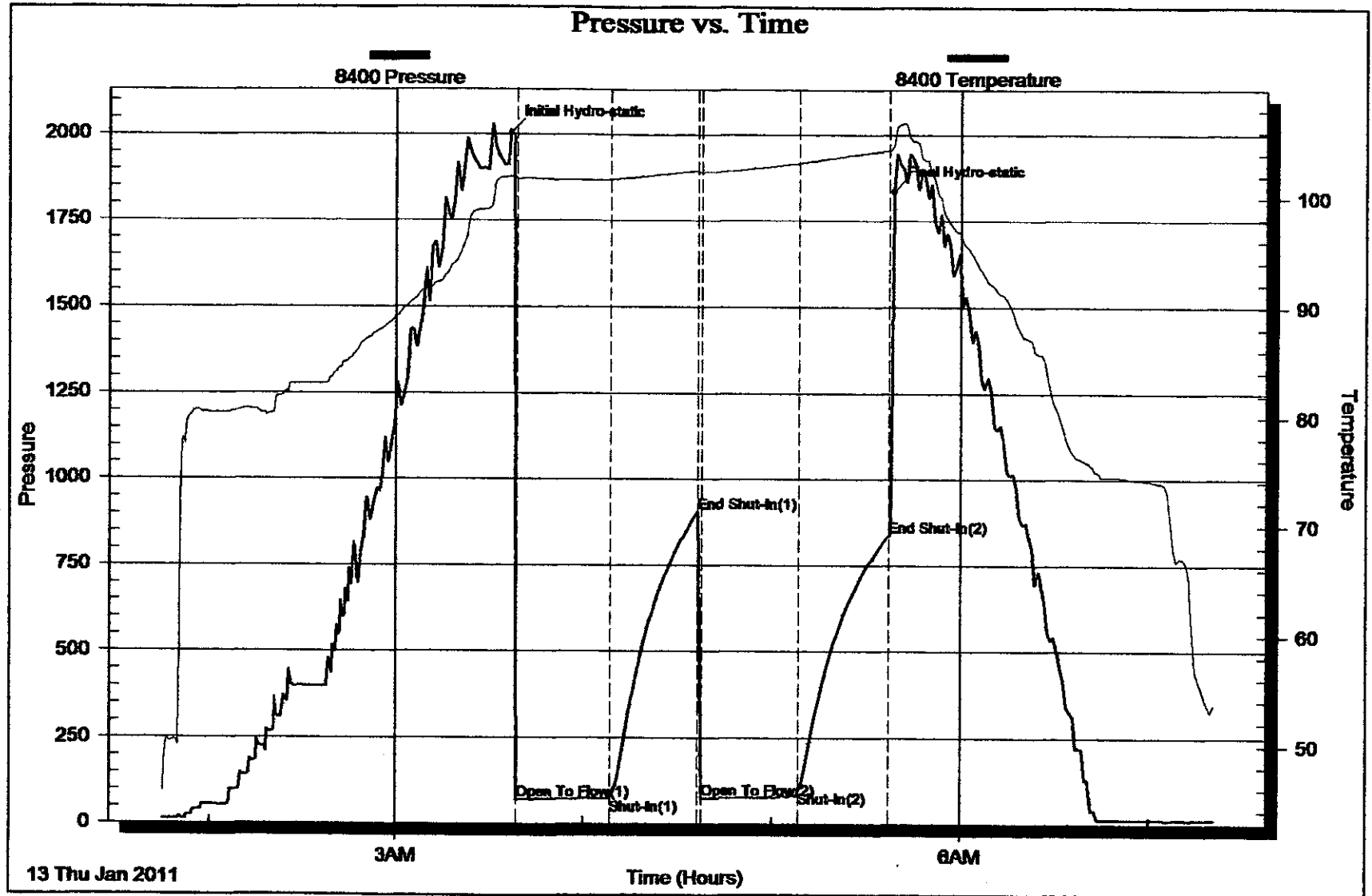
Length ft	Description	Volume bbl
20.00	Mud 100%	0.098

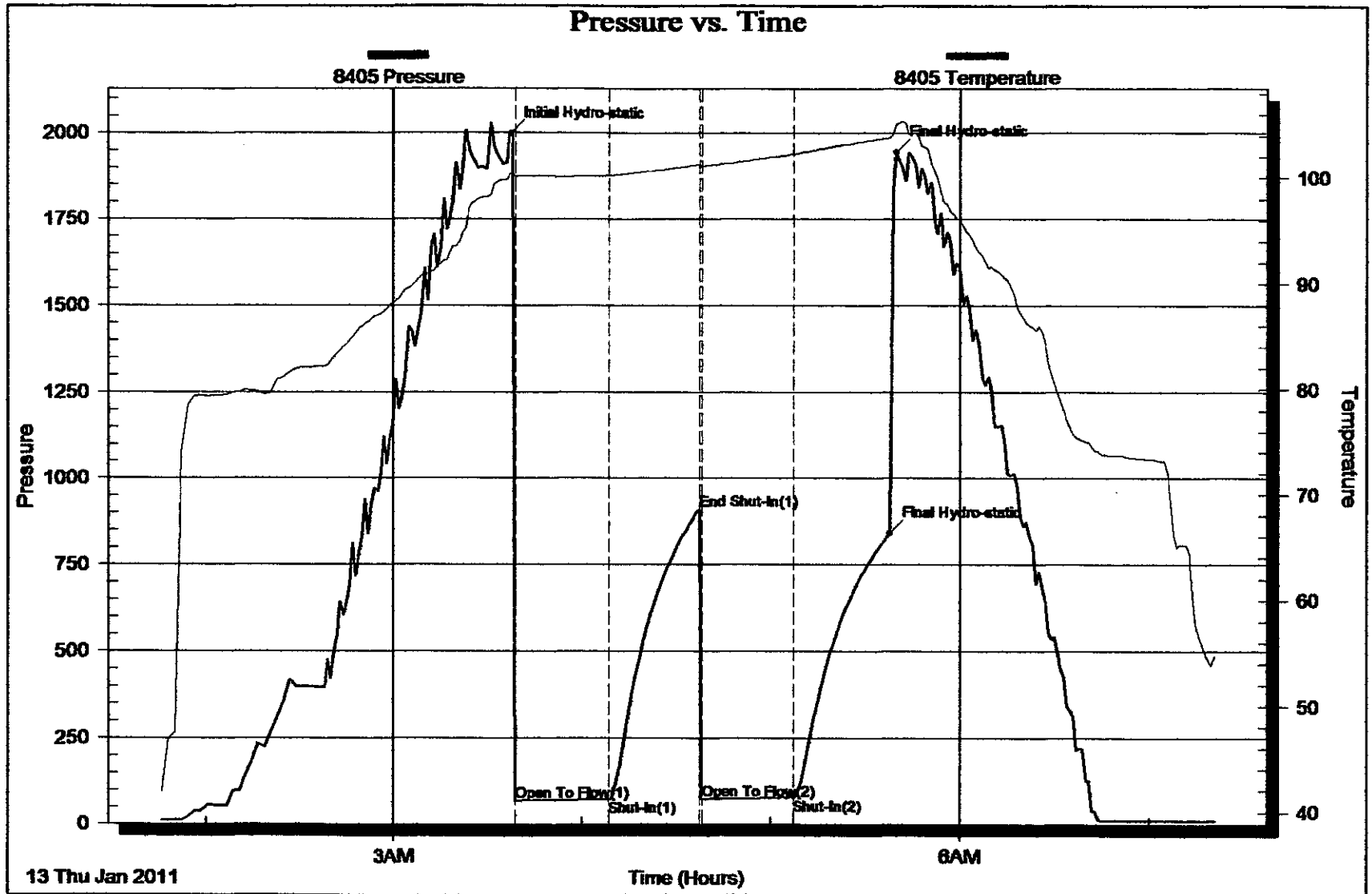
Total Length: 20.00 ft Total Volume: 0.098 bbl

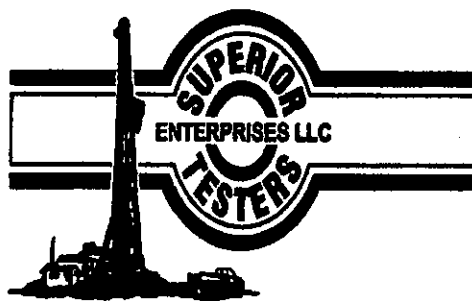
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd Street
Wichita Kansas 67278+3188

ATTN: Justin Clegg

23/14S/32W Logan

Ellis #2-23D

Start Date: 2011.01.14 @ 05:57:00

End Date: 2011.01.14 @ 11:54:30

Job Ticket #: 16013 DST #: 4

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

Printed: 2011.01.18 @ 10:36:42

Ritchie Exploration Inc.

Ellis #2-23D

23/14S/32W Logan

DST # 4

Lansing 'J and K'

2011.01.14



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

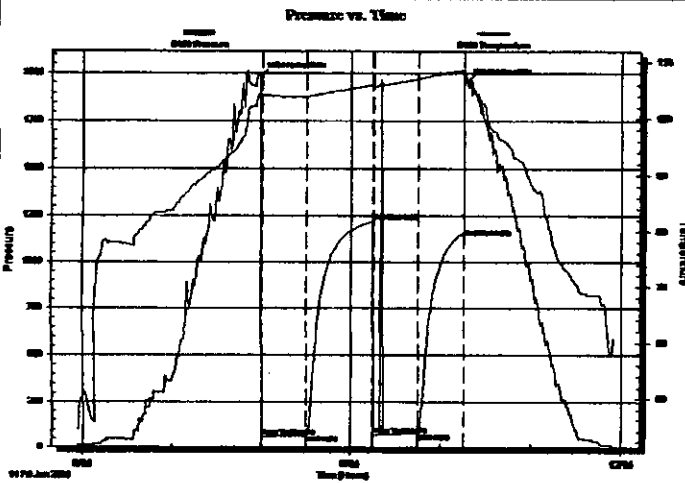
Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16013 DST#: 4
 Test Start: 2011.01.14 @ 05:57:00

GENERAL INFORMATION:

Formation: **Lansing ' J and K '**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **08:00:30**
 Tester: **Dylan E Ellis**
 Time Test Ended: **11:54:30**
 Unit No: **3345/Great Bend/344**
 Interval: **3996.00 ft (KB) To 4066.00 ft (KB) (TVD)**
 Reference Elevations: **2759.00 ft (KB)**
 Total Depth: **4066.00 ft (KB) (TVD)**
2749.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **10.00 ft**

Serial #: **8400** **Outside**
 Press@RunDepth: **79.11 psia @ 4062.20 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.01.14** End Date: **2011.01.14** Last Calib.: **2011.01.14**
 Start Time: **05:57:10** End Time: **11:54:30** Time On Btm: **2011.01.14 @ 07:59:30**
 Time Off Btm: **2011.01.14 @ 10:17:00**

TEST COMMENT: 1ST Opening 30 Minutes weak blow/blow built to 0.05 inches into bucket of water
 1ST Shut-in 45 Minutes no blow back
 2ND Opening 30 Minutes blow was dead/flushed tool/weak surface blow/blow blew for 18minutes and died
 2ND Shut-in 30 Minutes no blow back



PRESSURE SUMMARY

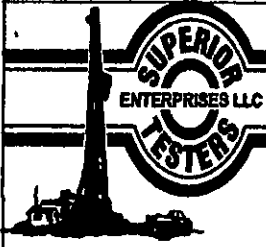
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1989.14	104.30	Initial Hydro-static
1	59.49	103.91	Open To Flow (1)
31	66.65	103.86	Shut-in(1)
75	1215.66	105.92	End Shut-in(1)
76	69.27	105.69	Open To Flow (2)
106	79.11	106.95	Shut-in(2)
136	1134.57	108.43	End Shut-in(2)
138	1957.08	106.79	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Slightly Oil cut Mud	0.15
0.00	Oil 1% Mud 99%	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

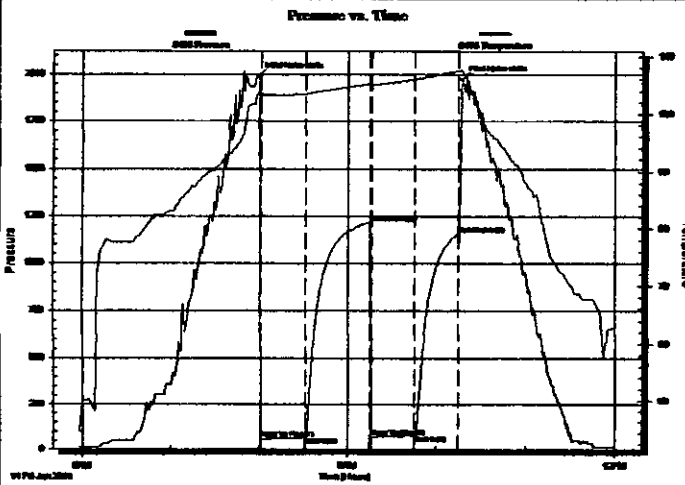
Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16013 DST#: 4
 Test Start: 2011.01.14 @ 05:57:00

GENERAL INFORMATION:

Formation: **Lansing 'J and K'**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:00:30
 Tester: Dylan E Ellis
 Time Test Ended: 11:54:30
 Unit No: 3345/Great Bend/344
 Interval: 3996.00 ft (KB) To 4066.00 ft (KB) (TVD)
 Reference Elevations: 2759.00 ft (KB)
 Total Depth: 4066.00 ft (KB) (TVD)
 2749.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 10.00 ft

Serial #: 8405 Inside
 Press@RunDepth: 1156.49 psia @ 4061.20 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.14 End Date: 2011.01.14 Last Calib.: 2011.01.14
 Start Time: 05:58:01 End Time: 12:00:44 Time On Btm: 2011.01.14 @ 07:59:44
 Time Off Btm: 2011.01.14 @ 10:16:44

TEST COMMENT: 1ST Opening 30 Minutes weak blow/blow built to 0.05 inches into bucket of water
 1ST Shut-in 45 Minutes no blow back
 2ND Opening 30 Minutes blow was dead/flushed tool/weak surface blow/blow blew for 18minutes and died
 2ND Shut-in 30 Minutes no blow back



PRESSURE SUMMARY

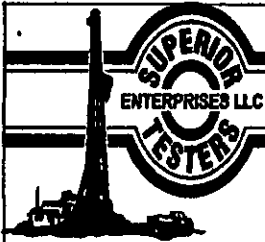
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1990.40	103.58	Initial Hydro-static
2	59.82	103.36	Open To Flow (1)
32	69.97	103.50	Shut-in(1)
75	1216.52	105.21	End Shut-in(1)
77	68.66	105.02	Open To Flow (2)
106	78.19	106.01	Shut-in(2)
135	1156.49	107.41	End Shut-in(2)
137	1975.50	107.43	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Slightly Oil cut Mud	0.15
0.00	Oil 1% Mud 99%	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Richie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16013 DST#: 4
 Test Start: 2011.01.14 @ 05:57:00

Tool Information

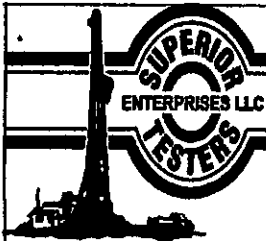
Drill Pipe:	Length: 3417.00 ft	Diameter: 3.80 inches	Volume: 47.93 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 577.20 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 34000.00 lb
			Total Volume: 50.77 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	19.20 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	3996.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	69.20 ft			
Tool Length:	90.20 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			3976.00	
Shut-In Tool	5.00			3981.00	
Hydrolic Tool	5.00			3986.00	
Packer	5.00			3991.00	21.00 Bottom Of Top Packer
Packer	5.00			3996.00	
Perforations	5.00			4001.00	
Change Over Sub	0.75			4001.75	
Drill Pipe	31.70			4033.45	
Change Over Sub	0.75			4034.20	
Perforations	26.00			4060.20	
Recorder	1.00	8405	inside	4061.20	
Recorder	1.00	8400	Outside	4062.20	
Bullnose	3.00			4065.20	69.20 Bottom Packers & Anchor

Total Tool Length: 90.20



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
8100 East 22nd Street
Wichita Kansas 67278+3188
ATTN: Justin Clegg

Ellis #2-23D
23/14S/32W Logan
Job Ticket: 16013 DST#: 4
Test Start: 2011.01.14 @ 05:57:00

Mud and Cushion Information

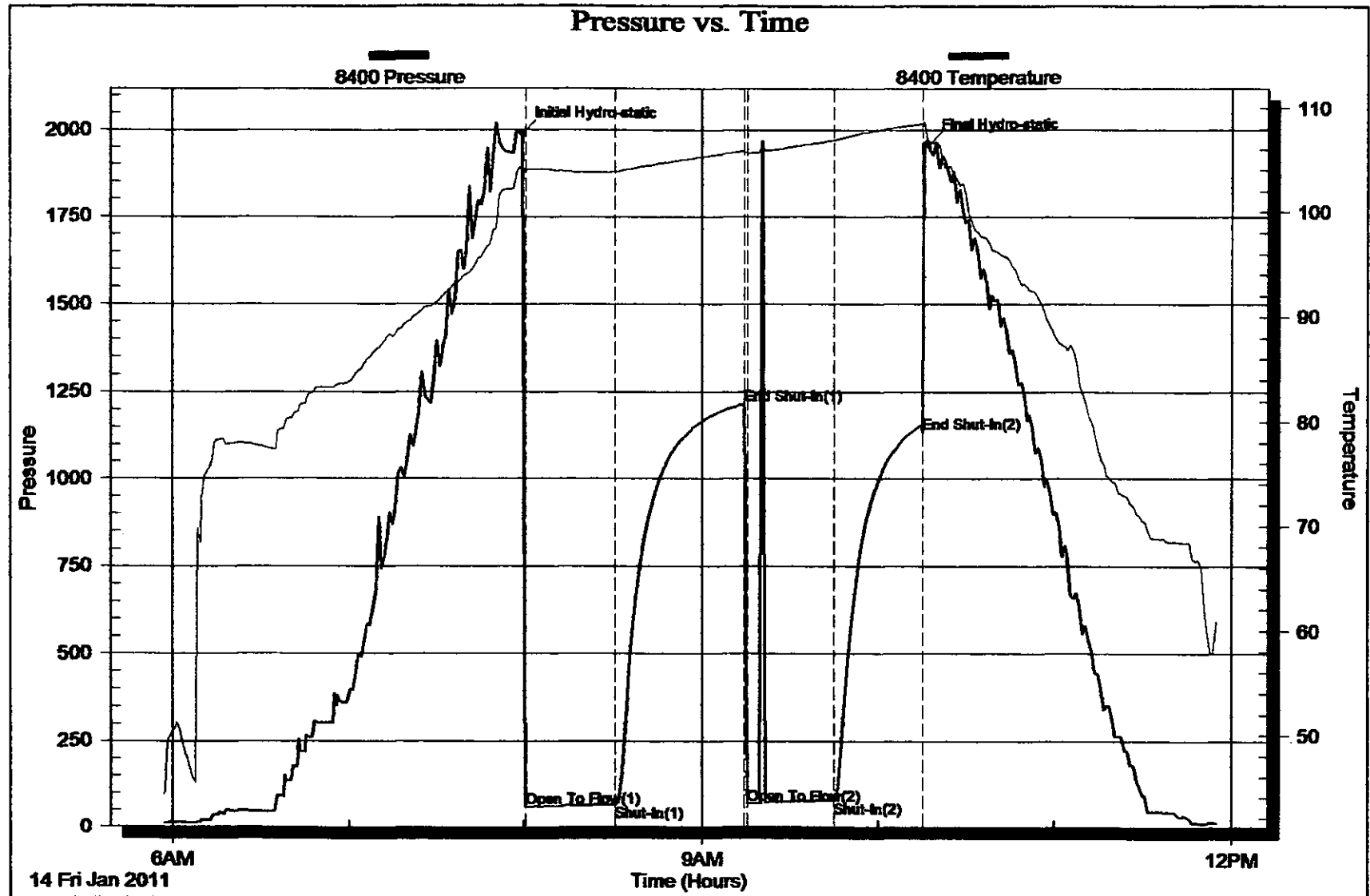
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 69.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6900.00 ppm			
Filter Cake: 2.00 inches			

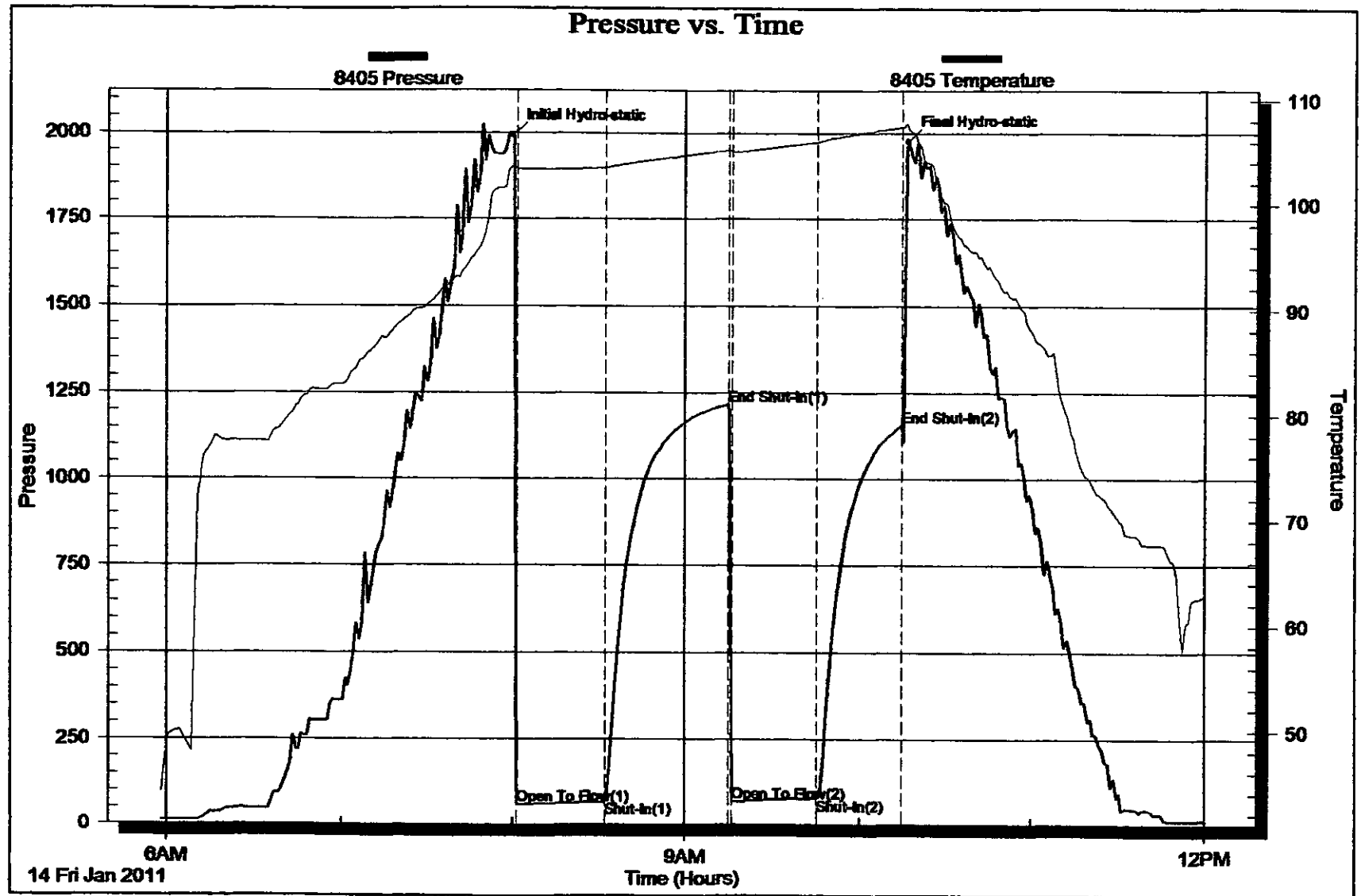
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Slightly Oil cut Mud	0.148
0.00	Oil 1% Mud 99%	0.000

Total Length: 30.00 ft Total Volume: 0.148 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd Street
Wichita Kansas 67278+3188

ATTN: Justin Clegg

23/14S/32W Logan

Ellis #2-23D

Start Date: 2011.01.15 @ 11:41:00

End Date: 2011.01.15 @ 00:00:00

Job Ticket #: 16014 DST #: 5

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

Printed: 2011.01.18 @ 10:34:24

Ritchie Exploration Inc. Ellis #2-23D 23/14S/32W Logan DST # 5 Myric-Fl.Scott 2011.01.15



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16014 DST#: 5
 Test Start: 2011.01.15 @ 11:41:00

Tool Information

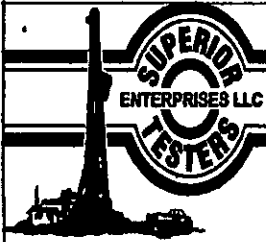
Drill Pipe:	Length: 3665.00 ft	Diameter: 3.80 inches	Volume: 51.41 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 577.20 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 35000.00 lb
			Total Volume: 54.25 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	13.20 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4250.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	57.20 ft			
Tool Length:	78.20 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			4230.00	
Shut-In Tool	5.00			4235.00	
Hydrolic Tool	5.00			4240.00	
Packer	5.00			4245.00	21.00 Bottom Of Top Packer
Packer	5.00			4250.00	
Perforations	5.00			4255.00	
Change Over Sub	0.75			4255.75	
Drill Pipe	31.70			4287.45	
Change Over Sub	0.75			4288.20	
Perforations	14.00			4302.20	
Recorder	1.00	8405	Inside	4303.20	
Recorder	1.00	8400	Outside	4304.20	
Bullnose	3.00			4307.20	57.20 Bottom Packers & Anchor

Total Tool Length: 78.20



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16014 DST#: 6
 Test Start: 2011.01.15 @ 11:41:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API:
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Safinity: 6800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Slightly Oil cut Mud	0.148
0.00	10 % Oil 90% Mud	0.000

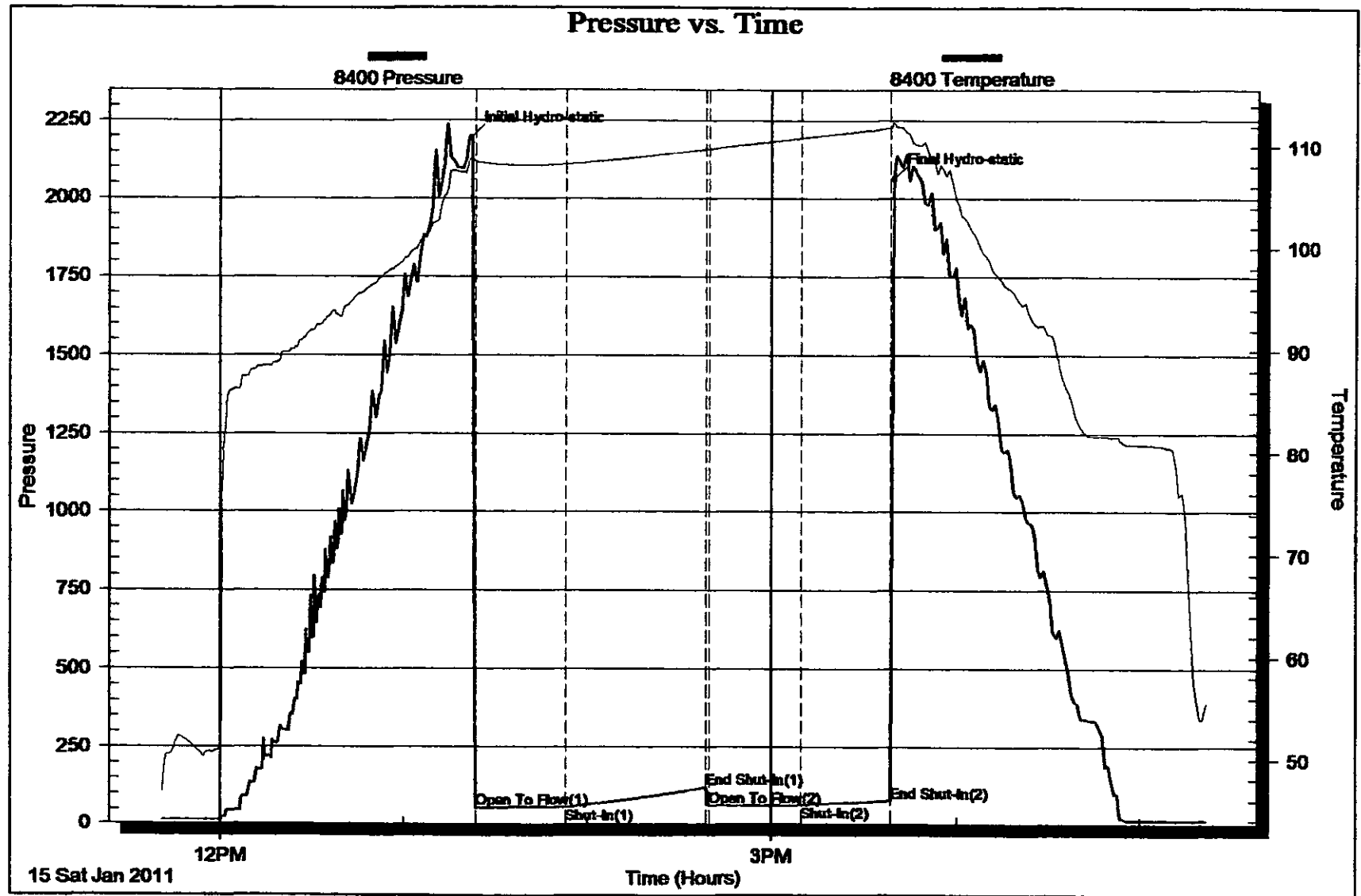
Total Length: 30.00 ft Total Volume: 0.148 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8400

Outside Ritchie Exploration Inc.

23/14S32W Logan

DST Test Number: 5



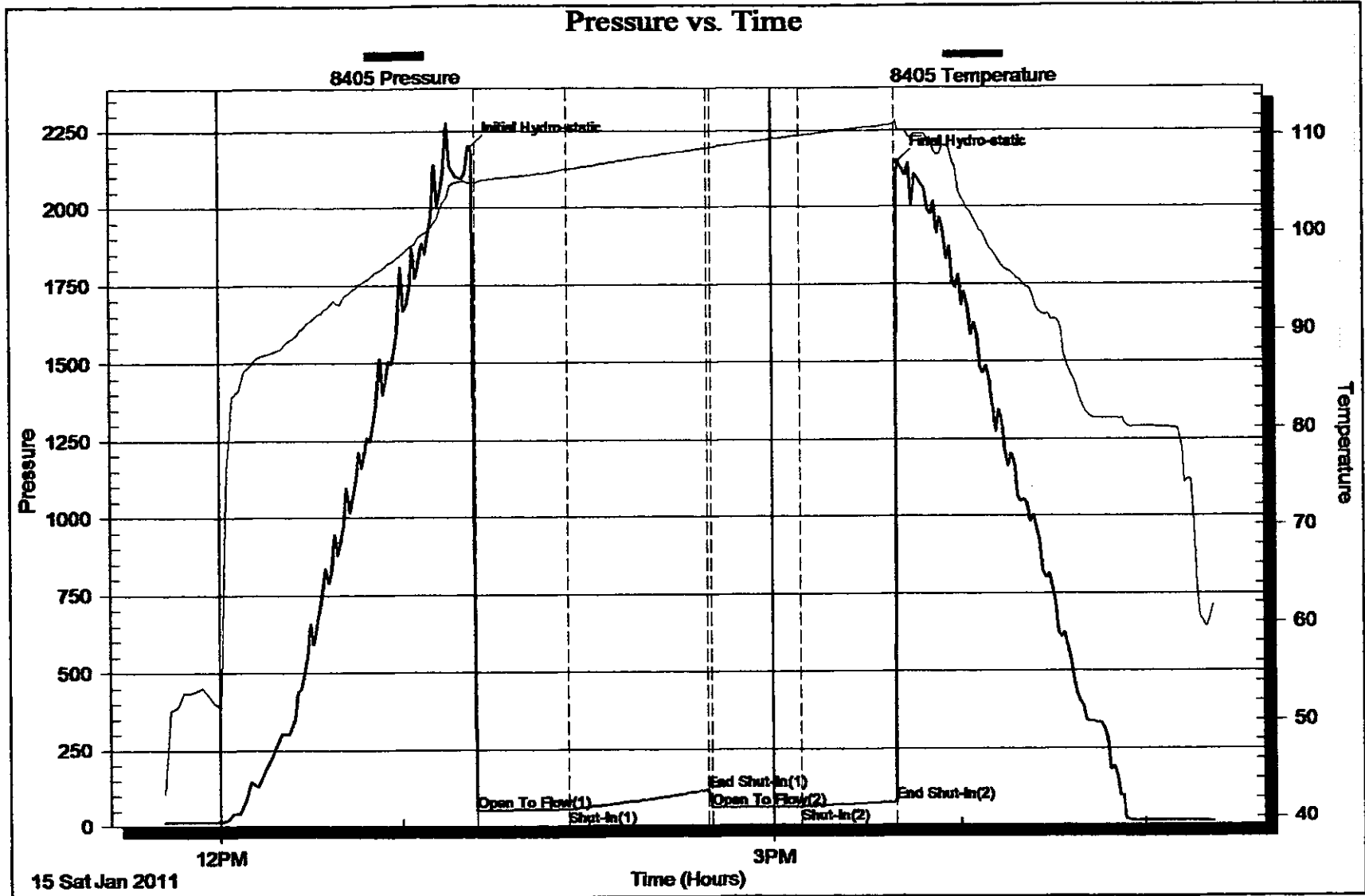
Serial #: 8405

Inside

Ritchie Exploration Inc.

23/14S/32W Logan

DST Test Number: 5





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd Street
Wichita Kansas 67278+3188

ATTN: Justin Clegg

23/14S/32W Logan

Ellis #2-23D

Start Date: 2011.01.16 @ 03:02:00

End Date: 2011.01.16 @ 09:43:30

Job Ticket #: 16015 DST #: 6

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

Printed: 2011.01.18 @ 10:34:12

Ritchie Exploration Inc.

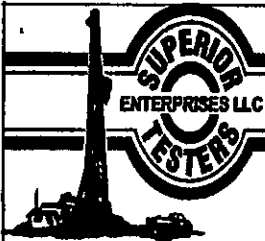
Ellis #2-23D

23/14S/32W Logan

DST # 6

Johnson Upper

2011.01.18



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

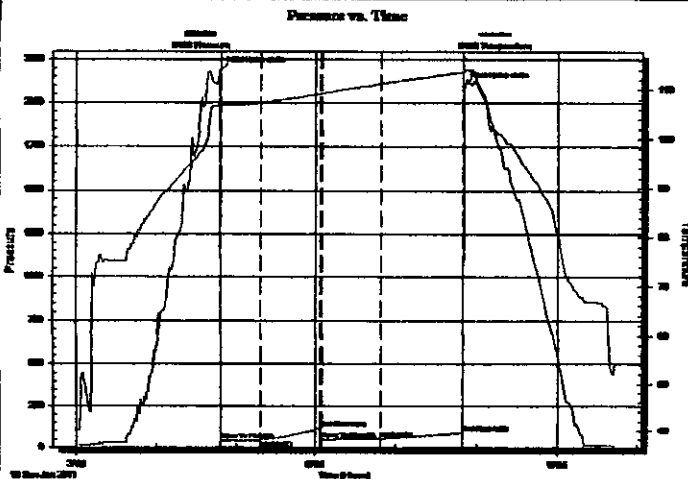
Ellis #2-23D
23/14S/32W Logan
 Job Ticket: 16015 DST#: 6
 Test Start: 2011.01.16 @ 03:02:00

GENERAL INFORMATION:

Formation: **Johnson Upper**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **04:48:30**
 Tester: **Dylan E Ellis**
 Time Test Ended: **09:43:30**
 Unit No: **3345/Great Bend/344**
 Interval: **4330.00 ft (KB) To 4364.00 ft (KB) (TVD)**
 Reference Elevations: **2759.00 ft (KB)**
 Total Depth: **4364.00 ft (KB) (TVD)**
2749.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **10.00 ft**

Serial #: 8400 Outside
 Press@RunDepth: **53.61 psia @ 4361.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.01.16** End Date: **2011.01.16** Last Calib.: **2011.01.16**
 Start Time: **03:02:10** End Time: **09:43:30** Time On Btm: **2011.01.16 @ 04:47:30**
 Time Off Btm: **2011.01.16 @ 07:50:30**

TEST COMMENT: 1ST Opening 30 Minutes weak blow /blow built to 0.50 inches into bucket of water
 1ST Shut-in 45 Minutes no blow back
 2ND Opening 45 Minutes weak surface blow /blow blew for 35 minutes and died
 2ND Shut-in 60 Minutes no blow back



PRESSURE SUMMARY

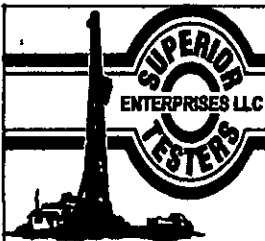
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2182.51	107.40	Initial Hydro-static
1	41.20	106.99	Open To Flow (1)
31	43.62	107.30	Shut-in(1)
76	117.14	109.15	End Shut-in(1)
77	47.50	109.20	Open To Flow (2)
121	53.61	111.17	Shut-in(2)
162	89.19	113.51	End Shut-in(2)
183	2097.72	114.05	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Slightly Oil cut Mud	0.15
0.00	10% Oil 90% Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

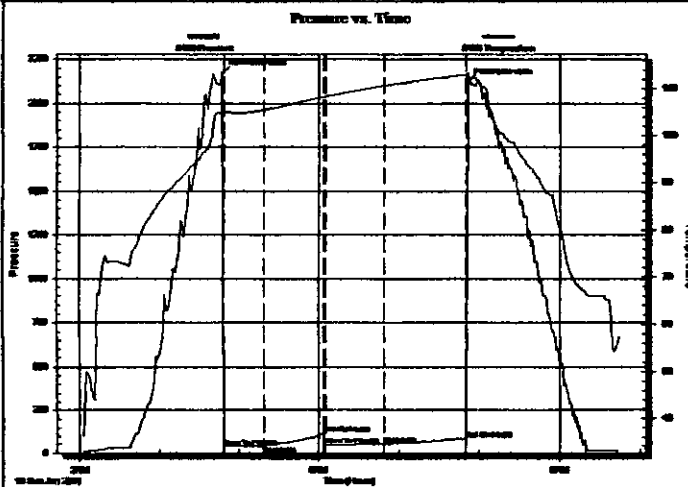
Ellis #2-23D
23/14S/32W Logan
 Job Ticket: 16015 DST#: 6
 Test Start: 2011.01.16 @ 03:02:00

GENERAL INFORMATION:

Formation: **Johnson Upper**
 Deviated: **No Whipstock:** ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **04:48:30**
 Tester: **Dylan E Ellis**
 Time Test Ended: **09:43:30**
 Unit No: **3345/Great Bend/344**
 Interval: **4330.00 ft (KB) To 4364.00 ft (KB) (TVD)**
 Reference Elevations: **2759.00 ft (KB)**
 Total Depth: **4364.00 ft (KB) (TVD)**
2749.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **10.00 ft**

Serial #: 8405 **Inside**
 Press@RunDepth: **87.65 psia @ 4360.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.01.16** End Date: **2011.01.16** Last Calib.: **2011.01.16**
 Start Time: **03:03:01** End Time: **09:44:11** Time On Btrr: **2011.01.16 @ 04:47:12**
 Time Off Btrr: **2011.01.16 @ 07:51:12**

TEST COMMENT: 1ST Opening 30 Minutes weak blow/blow built to 0.50 inches into bucket of water
 1ST Shut-In 45 Minutes no blow back
 2ND Opening 45 Minutes weak surface blow/blow blow for 35 minutes and died
 2ND Shut-In 60 Minutes no blow back



PRESSURE SUMMARY

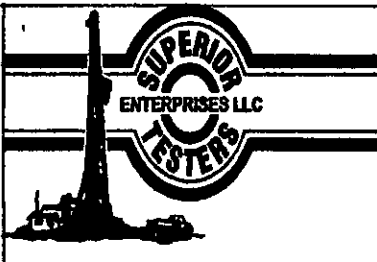
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2170.06	104.96	Initial Hydro-static
1	38.94	104.86	Open To Flow (1)
32	41.47	105.45	Shut-In(1)
77	116.67	108.27	End Shut-In(1)
78	45.59	108.31	Open To Flow (2)
122	51.71	110.61	Shut-In(2)
183	87.65	112.95	End Shut-In(2)
184	2123.63	113.44	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Slightly Oil cut Mud	0.15
0.00	10% Oil 90% Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
23/14S/32W Logan
 Job Ticket: 16015 **DST#: 6**
 Test Start: 2011.01.16 @ 03:02:00

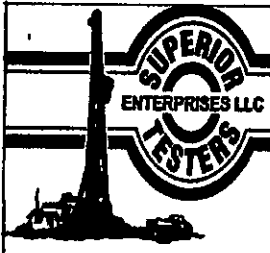
Tool Information

Drill Pipe:	Length: 3767.00 ft	Diameter: 3.80 inches	Volume: 52.84 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 577.20 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 23000.00 lb
			Total Volume: 55.68 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	35.20 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4330.00 ft			Final 79000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	55.00 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			4310.00	
Shut-In Tool	5.00			4315.00	
Hydraulic Tool	5.00			4320.00	
Packer	5.00			4325.00	21.00 Bottom Of Top Packer
Packer	5.00			4330.00	
Perforations	29.00			4359.00	
Recorder	1.00	8405	Inside	4360.00	
Recorder	1.00	8400	Outside	4361.00	
Bullnose	3.00			4364.00	34.00 Bottom Packers & Anchor
Total Tool Length:	55.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
8100 East 22nd Street
Wichita Kansas 67278+3188
ATTN: Justin Clegg

Ellis #2-23D
23/14S/32W Logan
Job Ticket: 16015 DST#: 6
Test Start: 2011.01.16 @ 03:02:00

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: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ²	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6800.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Slightly Oil cut Mud	0.148
0.00	10% Oil 90% Mud	0.000

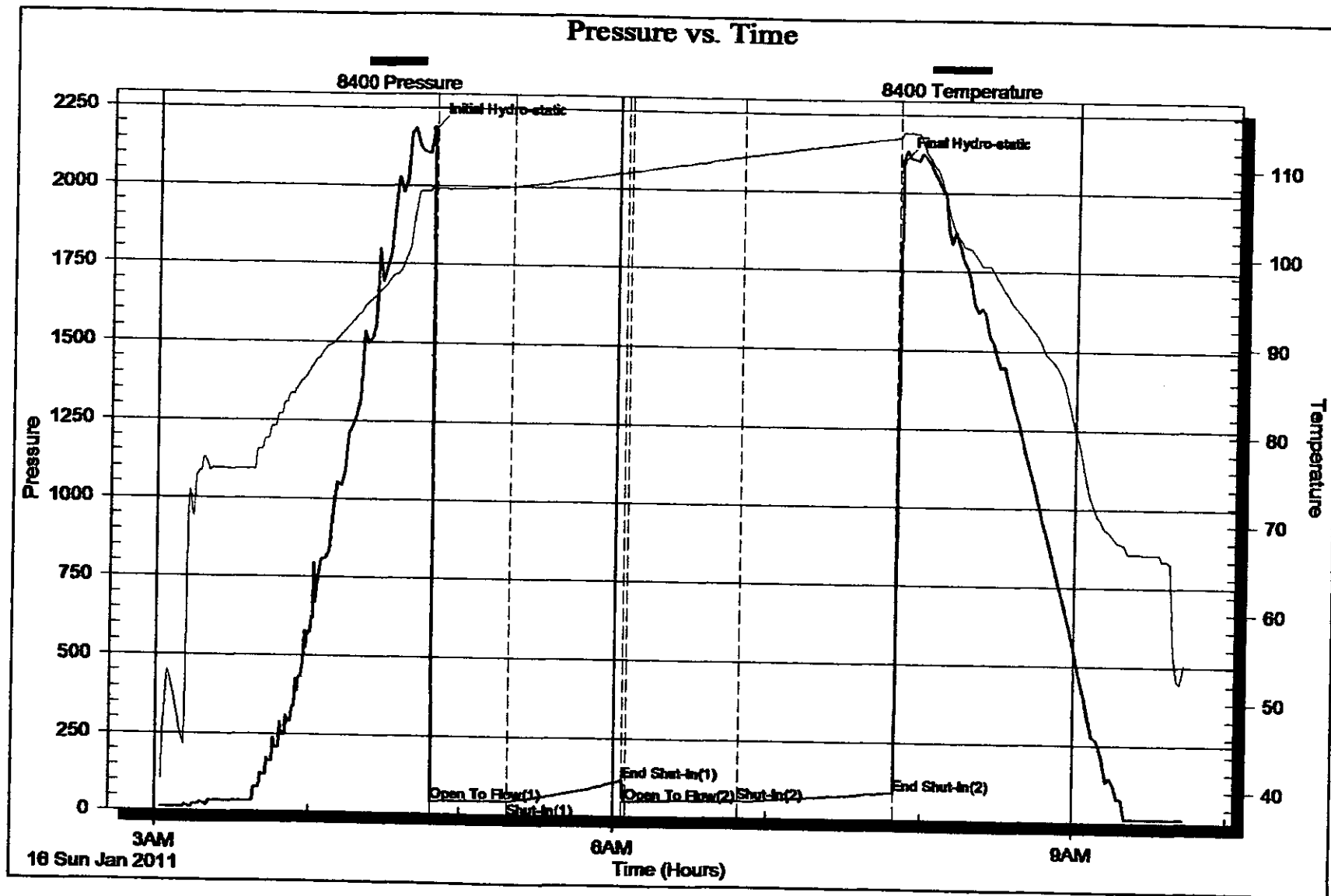
Total Length: 30.00 ft Total Volume: 0.148 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8400

Outside Ritchie Exploration Inc.

23/14S32W Logan

DST Test Number: 6



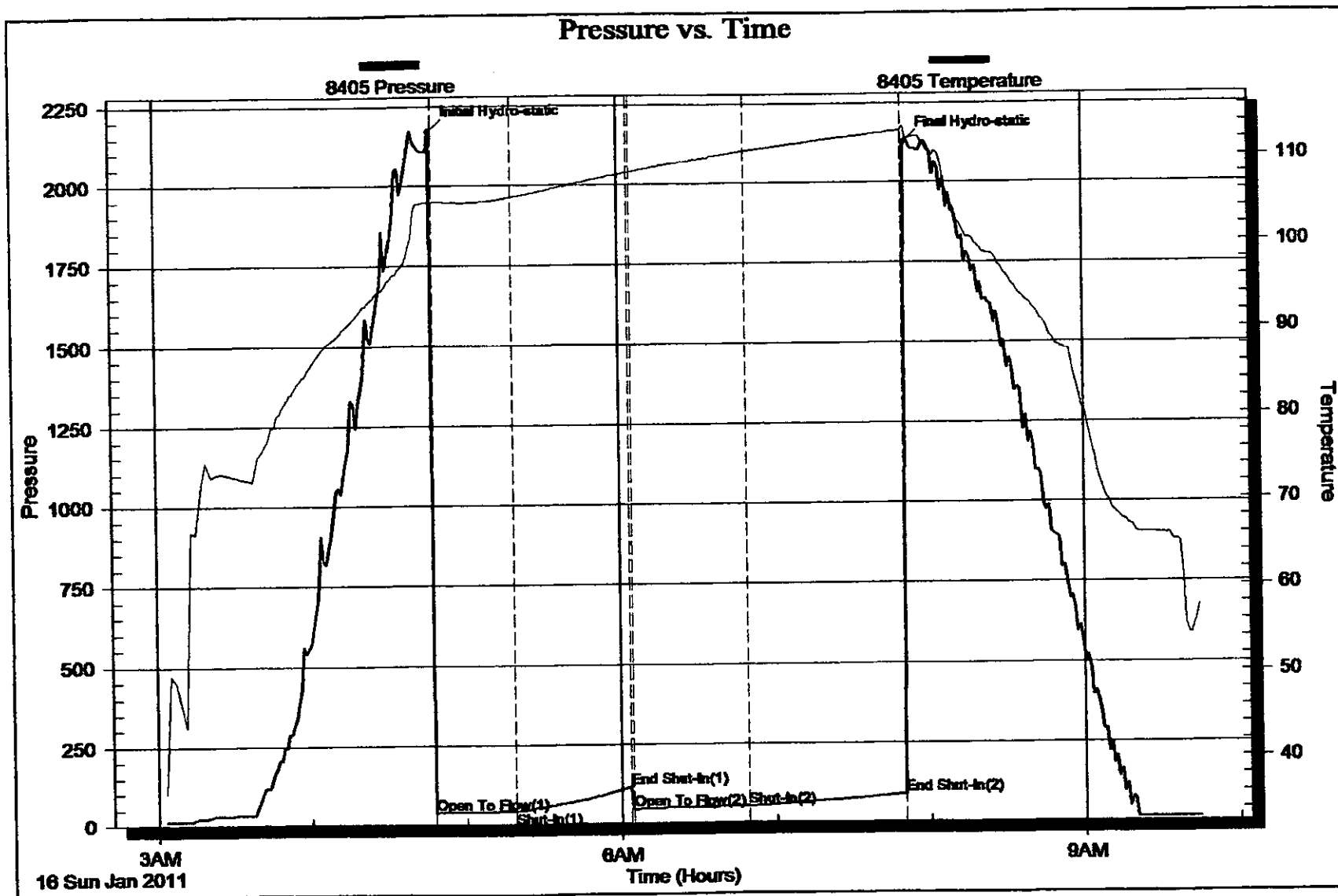
Serial #: 8405

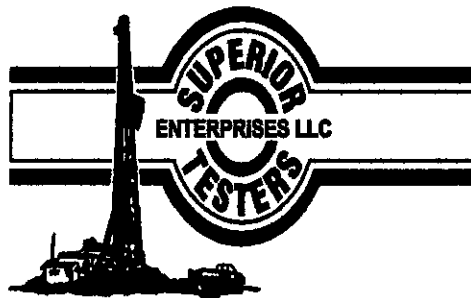
Inside

Ritchie Exploration Inc.

23/14S/32W Logan

DST Test Number: 6





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd Street
Wichita Kansas 67278+3188

ATTN: Justin Clegg

23/14S/32W Logan

Ellis #2-23D

Start Date: 2011.01.16 @ 04:45:00

End Date: 2011.01.16 @ 11:07:00

Job Ticket #: 16016 DST #: 7

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

Printed: 2011.01.18 @ 10:19:23

Ritchie Exploration Inc.

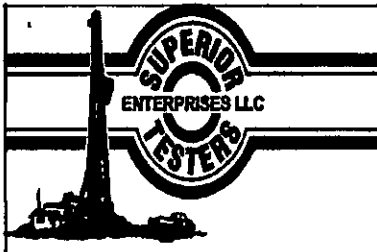
Ellis #2-23D

23/14S/32W Logan

DST # 7

Lower Johnson

2011.01.18



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

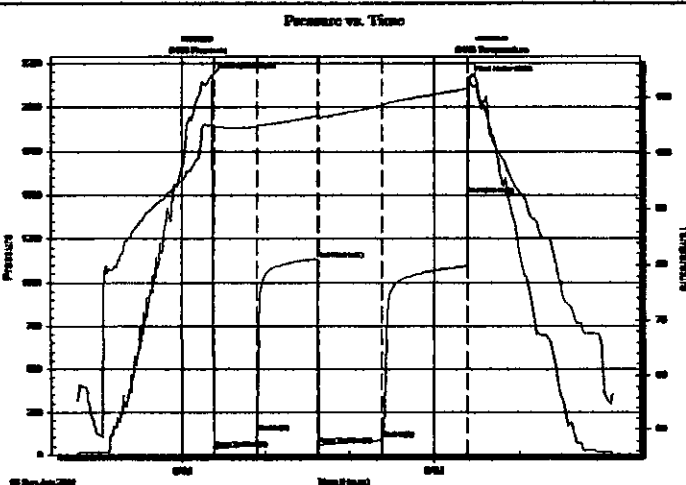
Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16016 DST#: 7
 Test Start: 2011.01.16 @ 04:45:00

GENERAL INFORMATION:

Formation: **Lower Johnson**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 06:22:30
 Time Test Ended: 11:07:00
 Interval: **4364.00 ft (KB) To 4383.00 ft (KB) (TVD)**
 Total Depth: **4383.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Dylan E Ellis**
 Unit No: **3345/Great Bend/344**
 Reference Elevations: **2759.00 ft (KB)**
2749.00 ft (CF)
KB to GR/CF: 10.00 ft

Serial #: **8400** Outside
 Press@RunDepth: **92.49 psia @ 4380.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.01.16** End Date: **2011.01.16** Last Calib.: **2011.01.16**
 Start Time: **04:45:10** End Time: **11:07:00** Time On Btm: **2011.01.16 @ 06:21:00**
 Time Off Btm: **2011.01.16 @ 09:24:00**

TEST COMMENT: 1ST Opening 30 Minutes weak blow / blow built to 1.50 inches into a bucket of water
 1ST Shut-in 45 Minutes yes blow back
 2ND Opening 45 Minutes weak blow / blow built to 1.25 inches into a bucket of water
 2ND Shut-in 60 Minutes yes blow back



PRESSURE SUMMARY

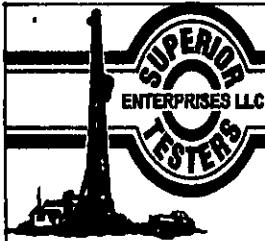
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2177.17	105.13	Initial Hydro-static
2	35.43	104.94	Open To Flow (1)
33	127.49	104.81	Shut-in(1)
76	1134.73	106.76	End Shut-in(1)
77	58.89	106.53	Open To Flow (2)
122	92.49	108.58	Shut-in(2)
183	1501.42	111.94	End Shut-in(2)
183	2159.80	112.83	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Water cut Mud	0.49
0.00	20% Water 80%Mud	0.00
0.00	Chlorides 31,000	0.00
0.00	Resistivity was .45 @ 54 degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Richie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

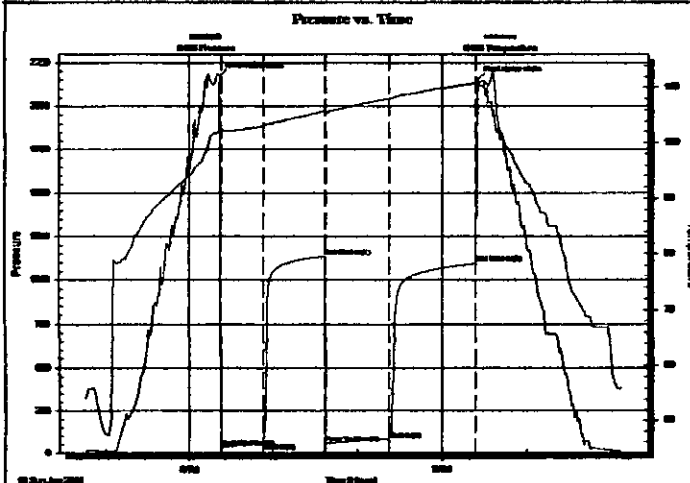
Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16016 DST#: 7
 Test Start: 2011.01.16 @ 04:45:00

GENERAL INFORMATION:

Formation: **Lower Johnson**
 Deviated: **No Whipstock** ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: **06:22:30**
 Tester: **Dylan E Ellis**
 Time Test Ended: **11:07:00**
 Unit No: **3345/Great Bend/344**
 Interval: **4364.00 ft (KB) To 4383.00 ft (KB) (TVD)**
 Reference Elevations: **2759.00 ft (KB)**
 Total Depth: **4383.00 ft (KB) (TVD)**
2749.00 ft (CF)
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 KB to GR/CF: **10.00 ft**

Serial #: 8405 **Inside**
 Press@RunDepth: **1093.38 psia @ 4379.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.01.16** End Date: **2011.01.16** Last Calib.: **2011.01.16**
 Start Time: **04:46:01** End Time: **11:07:10** Time On Btm: **2011.01.16 @ 06:21:41**
 Time Off Btm: **2011.01.16 @ 09:24:41**

TEST COMMENT: 1ST Opening 30 Minutes weak blow / blow built to 1.50 inches into a bucket of water
 1ST Shut-In 45 Minutes yes blow back
 2ND Opening 45 Minutes weak blow / blow built to 1.25 inches into a bucket of water
 2ND Shut-In 60 Minutes yes blow back



PRESSURE SUMMARY

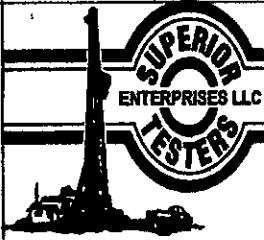
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2174.74	102.42	Initial Hydro-static
1	33.02	102.26	Open To Flow (1)
31	58.53	103.06	Shut-In(1)
75	1133.71	105.79	End Shut-In(1)
76	57.05	105.62	Open To Flow (2)
121	82.62	107.99	Shut-In(2)
182	1093.38	110.79	End Shut-In(2)
183	2152.98	110.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
100.00	Water cut Mud	0.49
0.00	20% Water 80%Mud	0.00
0.00	Chlorides 31,000	0.00
0.00	Resistivity was .45 @ 54 degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16016 DST#: 7
 Test Start: 2011.01.16 @ 04:45:00

Tool Information

Drill Pipe:	Length: 3794.00 ft	Diameter: 3.80 inches	Volume: 53.22 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 577.20 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 20000.00 lb
			<u>Total Volume: 56.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	28.20 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4364.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	19.00 ft			
Tool Length:	40.00 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			4344.00	
Shut-In Tool	5.00			4349.00	
Hydraulic Tool	5.00			4354.00	
Packer	5.00			4359.00	21.00 Bottom Of Top Packer
Packer	5.00			4364.00	
Perforations	14.00			4378.00	
Recorder	1.00	8405	Inside	4379.00	
Recorder	1.00	8400	Outside	4380.00	
Bullnose	3.00			4383.00	19.00 Bottom Packers & Anchor
Total Tool Length:	40.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
23/14S/32W Logan
 Job Ticket: 16016 **DST#: 7**
 Test Start: 2011.01.18 @ 04:45:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Satinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.79 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6700.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
100.00	Water cut Mud	0.492
0.00	20% Water 80%Mud	0.000
0.00	Chlorides 31,000	0.000
0.00	Resistivity was .45 @ 54 degrees	0.000

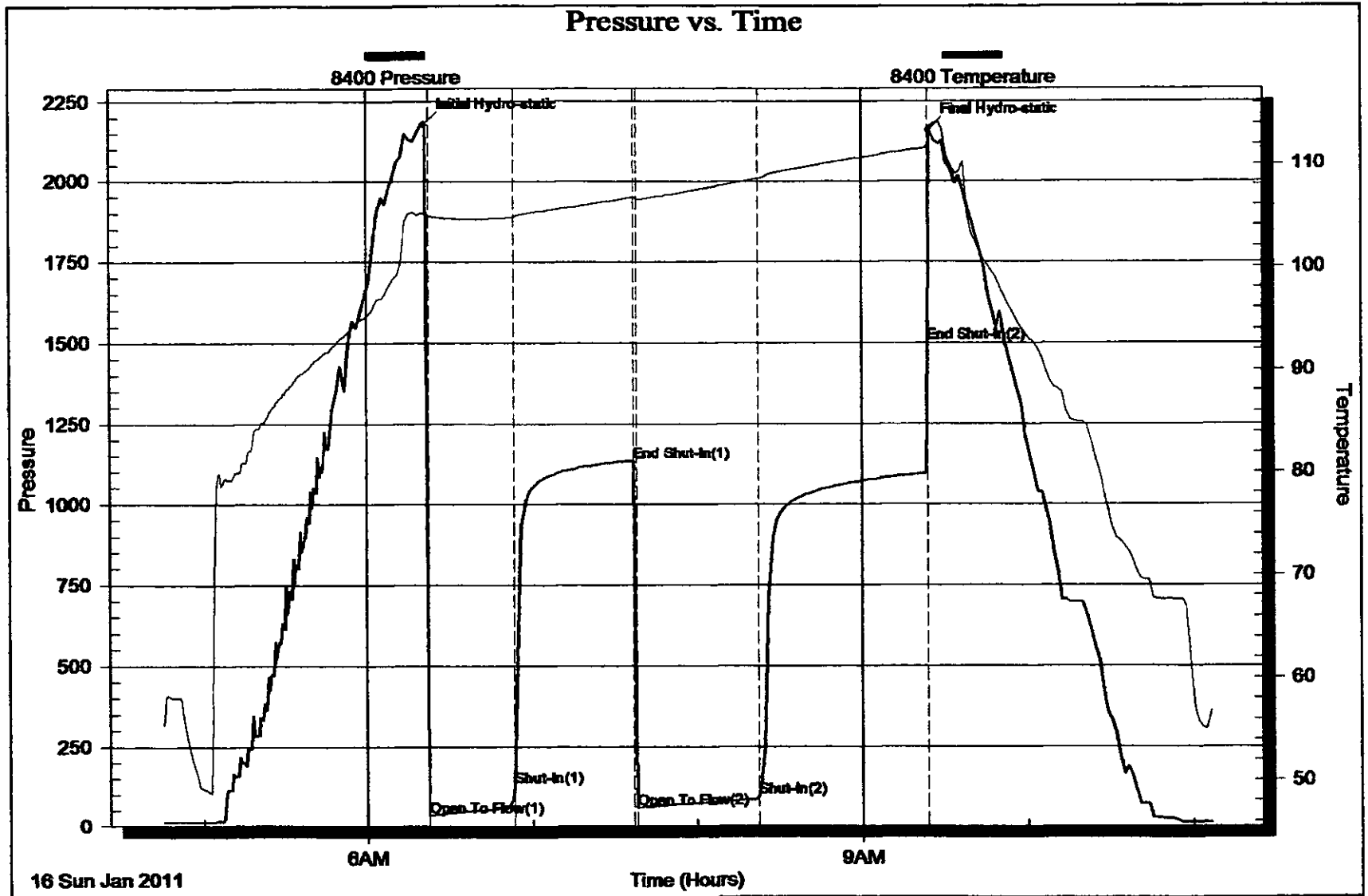
Total Length: 100.00 ft Total Volume: 0.492 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8400

Outside Ritchie Exploration Inc.

23/14S/32W Logan

DST Test Number: 7



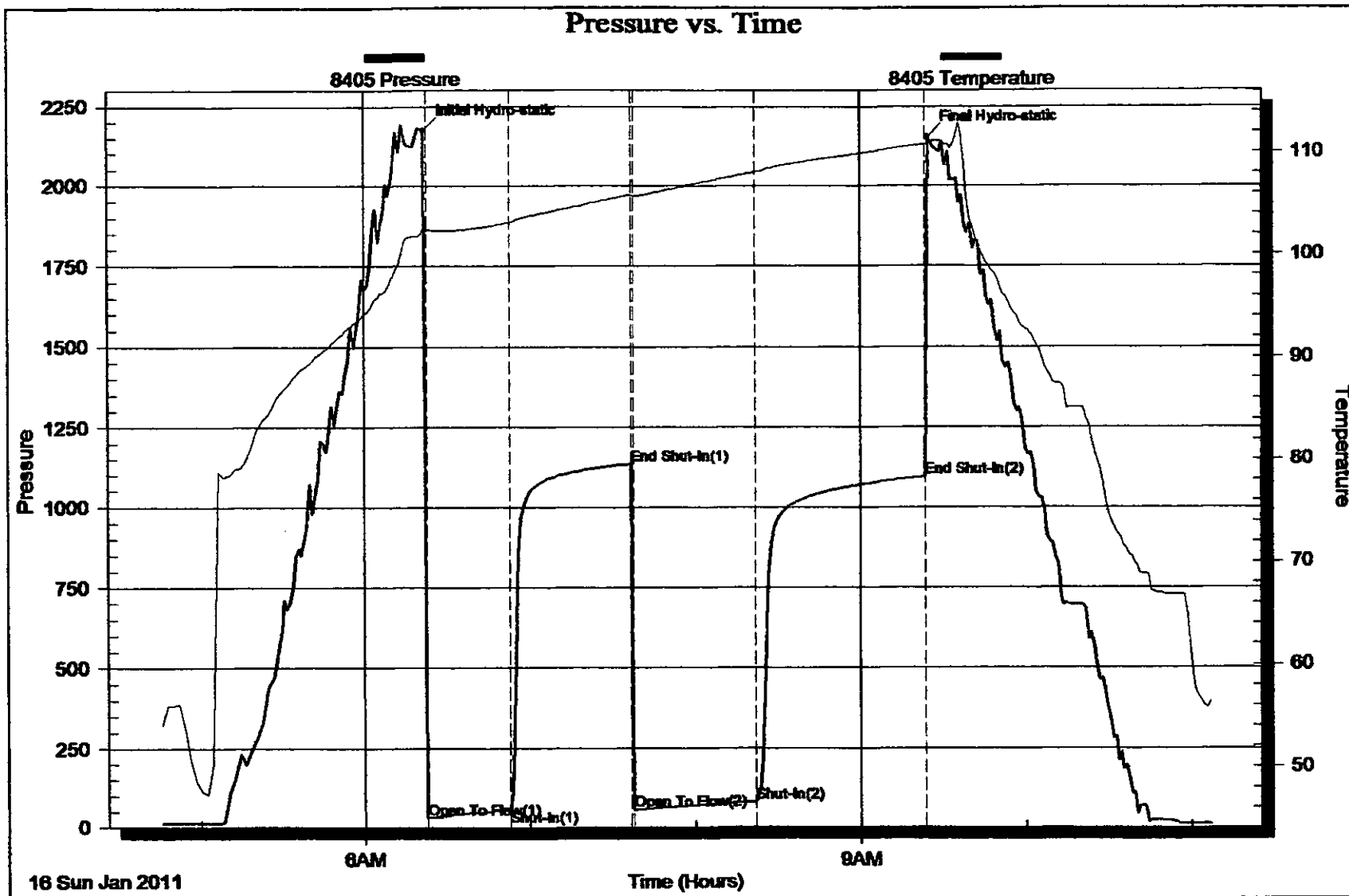
Serial #: 8405

Inside

Ritchie Exploration Inc.

23/14S32W Logan

DST Test Number: 7





DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd Street
Wichita Kansas 67278+3188

ATTN: Justin Clegg

23/14S/32W Logan

Ellis #2-23D

Start Date: 2011.01.17 @ 05:58:00

End Date: 2011.01.17 @ 12:53:00

Job Ticket #: 16017 DST #: 8

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

Printed: 2011.01.18 @ 10:17:45

Ritchie Exploration Inc.

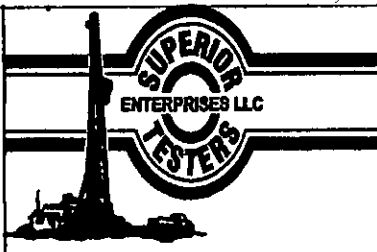
Ellis #2-23D

23/14S/32W Logan

DST # 8

Marrow Sand

2011.01.17



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

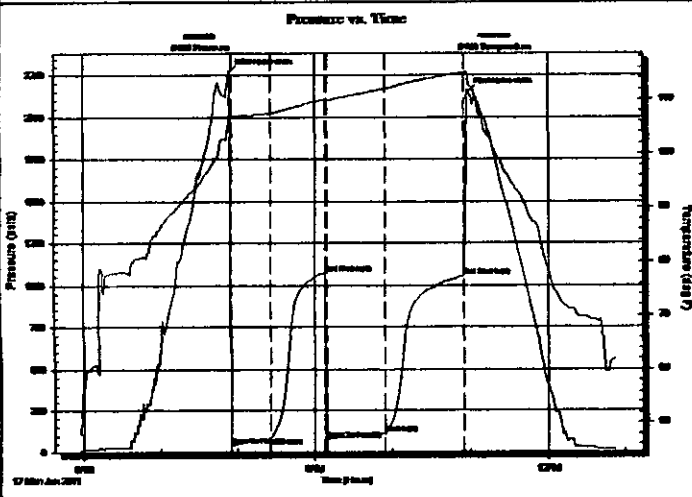
Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16017 DST#: 8
 Test Start: 2011.01.17 @ 05:58:00

GENERAL INFORMATION:

Formation: **Marrow Sand**
 Deviated: **No Whipstock** ft (KB)
 Time Tool Opened: 07:55:00
 Time Test Ended: 12:53:00
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Dylan E Elism**
 Unit No: **3345/Great Bend/344**
 Interval: **4376.00 ft (KB) To 4403.00 ft (KB) (TVD)**
 Total Depth: **4403.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Reference Elevations: **2759.00 ft (KB)**
2749.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: **8400** Outside
 Press@RunDepth: **111.63 psia @ 4400.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.01.17** End Date: **2011.01.17** Last Calib.: **2011.01.17**
 Start Time: **05:58:10** End Time: **12:53:00** Time On Btrr: **2011.01.17 @ 07:54:00**
 Time Off Btrr: **2011.01.17 @ 10:58:30**

TEST COMMENT: 1ST Opening 30 Minutes fair blow / blow built to 6 inches into a bucket of water
 1ST Shut-in 45 Minutes no blow back
 2ND Opening 45 Minutes fair blow / blow blew to bottom of bucket of water in 37 minutes
 2ND Shut-in 60 Minutes yes blow back



PRESSURE SUMMARY

Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2270.72	106.06	Initial Hydro-static
1	44.89	106.56	Open To Flow (1)
32	89.68	107.51	Shut-in (1)
74	1074.78	110.03	End Shut-in (1)
76	79.82	109.85	Open To Flow (2)
121	111.63	112.08	Shut-in (2)
182	1052.53	114.98	End Shut-in (2)
185	2152.93	112.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Free Clean Gassy Oil	0.05
0.00	10% Gas 90% Oil	0.00
95.00	Mud cut Oil	0.47
0.00	25% Mud 75% Oil	0.00
95.00	Slightly Gas cut Muddy Oil	0.47
0.00	20% Gas 36% Oil 44% Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

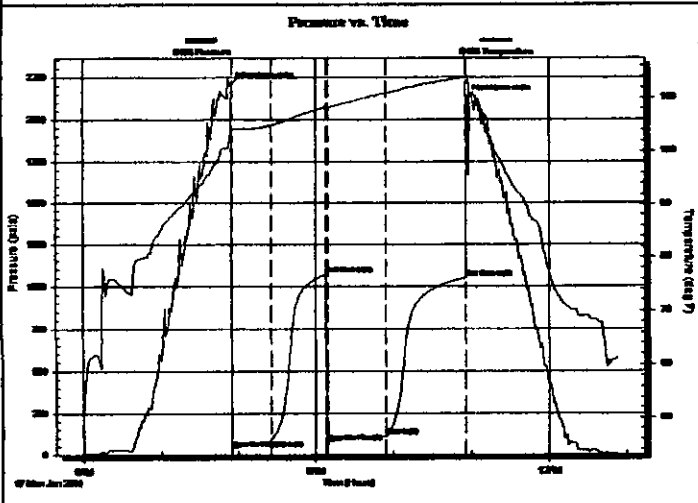
Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16017 DST#: 8
 Test Start: 2011.01.17 @ 05:58:00

GENERAL INFORMATION:

Formation: **Marrow Sand**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 07:55:00 Tester: Dylan E Blism
 Time Test Ended: 12:53:00 Unit No: 3345/Great Bend/344
 Interval: **4376.00 ft (KB) To 4403.00 ft (KB) (TVD)** Reference Elevations: 2759.00 ft (KB)
 Total Depth: **4403.00 ft (KB) (TVD)** 2749.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: **8405** Inside
 Press@RunDepth: 1051.10 psia @ 4399.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.01.17 End Date: 2011.01.17 Last Calib.: 2011.01.17
 Start Time: 05:59:01 End Time: 12:53:40 Time On Btmr: 2011.01.17 @ 07:53:40
 Time Off Btmr: 2011.01.17 @ 10:56:40

TEST COMMENT: 1ST Opening 30 Minutes fair blow / blow built to 6 inches into a bucket of water
 1ST Shut-in 45 Minutes no blow back
 2ND Opening 45 Minutes fair blow / blow blew to bottom of bucket of water in 37 minutes
 2ND Shut-in 60 Minutes yes blow back



PRESSURE SUMMARY

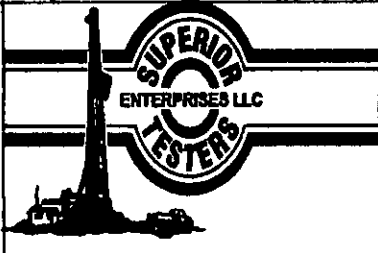
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2199.06	103.06	Initial Hydro-static
2	38.77	103.92	Open To Flow (1)
32	87.17	104.95	Shut-in(1)
75	1074.94	108.28	End Shut-in(1)
76	77.58	108.15	Open To Flow (2)
121	109.58	110.91	Shut-in(2)
182	1051.10	113.79	End Shut-in(2)
183	2120.09	114.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	Free Clean Gassy Oil	0.05
0.00	10% Gas 90% Oil	0.00
95.00	Mud cut Oil	0.47
0.00	25% Mud 75% Oil	0.00
95.00	Slightly Gas cut Muddy Oil	0.47
0.00	20% Gas 36% Oil 44%Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
23/14S/32W Logan
 Job Ticket: 16017 DST#: 8
 Test Start: 2011.01.17 @ 05:58:00

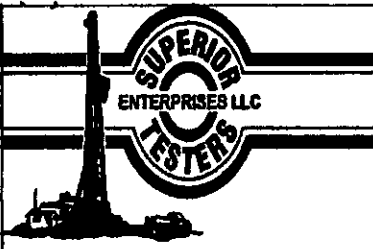
Tool Information

Drill Pipe:	Length: 3793.00 ft	Diameter: 3.80 inches	Volume: 53.21 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 577.20 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 45000.00 lb
			Total Volume: 56.05 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	15.20 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4376.00 ft			Final 82000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	48.00 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			4356.00	
Shut-In Tool	5.00			4361.00	
Hydrolic Tool	5.00			4366.00	
Packer	5.00			4371.00	21.00 Bottom Of Top Packer
Packer	5.00			4376.00	
Perforations	22.00			4398.00	
Recorder	1.00	8405	Inside	4399.00	
Recorder	1.00	8400	Outside	4400.00	
Buttnose	3.00			4403.00	27.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
 8100 East 22nd Street
 Wichita Kansas 67278+3188
 ATTN: Justin Clegg

Ellis #2-23D
 23/14S/32W Logan
 Job Ticket: 16017 DST#: 8
 Test Start: 2011.01.17 @ 05:58:00

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: 54.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.80 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 6700.00 ppm			
Filter Cake: 2.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	Free Clean Gassy Oil	0.049
0.00	10% Gas 90% Oil	0.000
95.00	Mud cut Oil	0.467
0.00	25% Mud 75% Oil	0.000
95.00	Slightly Gas cut Muddy Oil	0.467
0.00	20% Gas 36% Oil 44%Mud	0.000
0.00	350 feet of Gas in the pipe	0.000
0.00	Gravity of Oil corrected is 35	0.000

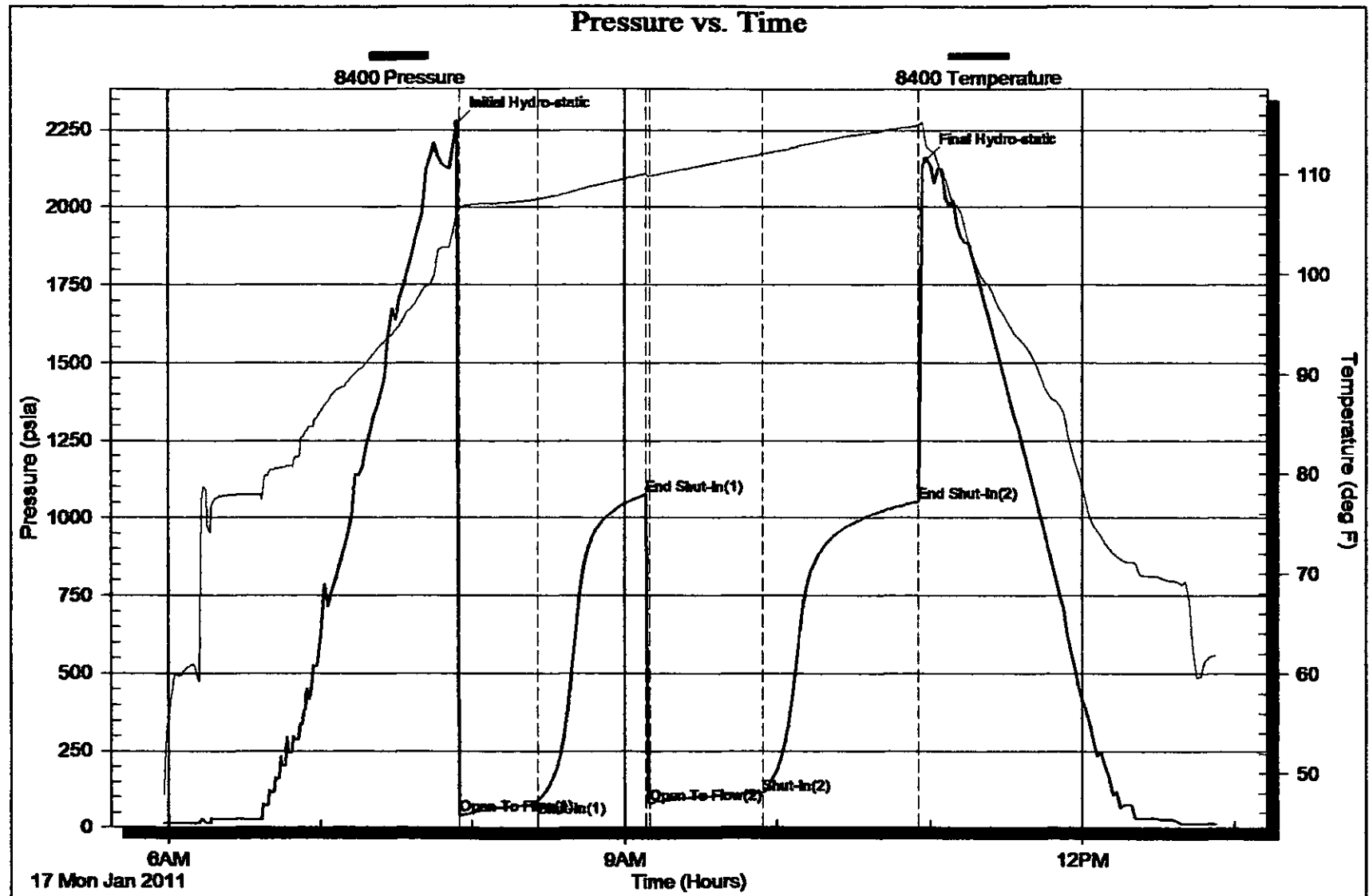
Total Length: 200.00 ft Total Volume: 0.983 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

Serial #: 8400

Outside Ritchie Exploration Inc.

23/14S32W Logan

DST Test Number: 8



Serial #: 8405

Inside

Ritchie Exploration Inc.

23/14S32W Logan

DST Test Number: 8

