

CONFIDENTIAL

ORIGINAL

12/6/13

KANSAS CORPORATION COMMISSION OIL & GAS CONSERVATION DIVISION

Form ACO-1 June 2009

Form Must Be Typed Form must be Signed All blanks must be Filled

WELL COMPLETION FORM WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 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) 691-9500 CONTRACTOR: License # 33350 Name: Southwind Drilling Inc. Wellsite Geologist: Jeff Christian Purchaser: NCRA

Designate Type of Completion: [X] New Well [] Re-Entry [] Workover [X] 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 #:

8/29/11 9/6/11 9/6/11 Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 137-20581-00-00 Spot Description: 20' N & 40' E S/2 NE SE Sec. 31 Twp. 5 S. R. 24 [] East [X] West 1,670 Feet from [] North [X] South Line of Section 620 Feet from [X] East [] West Line of Section Footages Calculated from Nearest Outside Section Corner: [] NE [] NW [X] SE [] SW County: Norton Lease Name: Ninemire 31AD Well #: 1 Field Name: Producing Formation: LKC Elevation: Ground: 2372 Kelly Bushing: 2381 Total Depth: 3825 Plug Back Total Depth: 3782 Amount of Surface Pipe Set and Cemented at: 221 Feet Multiple Stage Cementing Collar Used? [X] Yes [] No If yes, show depth set: 1990 Feet If Alternate II completion, cement circulated from: surface feet depth to: 1990 w/ 290 sx cmt.

Drilling Fluid Management Plan (Data must be collected from the Reserve Pit) Chloride content: 12000 ppm Fluid volume: 800 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: CONFIDENTIAL RECEIVED Permit #:

DEC 06 2013 DEC 09 2011 KCC KCC WICHITA

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

AFFIDAVIT

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

Signature: [Signature] Title: Production Manager Date: 12/6/11

KCC Office Use ONLY

[X] Letter of Confidentiality Received Date: 12/6/11 - 12/6/13 [] Confidential Release Date: [X] Wireline Log Received [] Geologist Report Received [] UIC Distribution ALT [] I [X] II [] III Approved by: NY Date: 12/28/11

Operator Name: Ritchie Exploration, Inc. Lease Name: Ninemire 31AD Well #: 1

Sec. 31 Twp. 5 S. R. 24 East West County: Norton

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

List All E. Logs Run:
Radiation Guard Log

CASING RECORD <input type="checkbox"/> New <input checked="" 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#	221	common	160	3% cc, 2% gel
Production	7-7/8	5-1/2	15.5	3822	Poz	150	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	3588' - 3590' (9/26/11)	500 gallons 15% NE	

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TUBING RECORD:	Size: <u>2-7/8"</u>	Set At: <u>3767</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>10/17/11</u>	Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____			
Estimated Production Per 24 Hours	Oil Bbls. <u>20.38</u>	Gas Mcf	Water Bbls. <u>0</u>	Gas-Oil Ratio KCC
				Gravity <u>31.9</u>

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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 (Submit ACO-5) (Submit ACO-4) <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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#1 Ninemire 31AD

1670' FSL & 620' FEL

20'N & 40'E of S/2 NE SE Section 31-5S-24W

Norton County, Kansas

API# 15-137-20581-0000

Elevation: 2372' GL: 2381' KB

Sample Tops			Ref. Well
Anhydrite	1999'	+382	-3
B/Anhydrite	2031'	+350	-3
Topeka	3280'	-899	+5
Heebner	3485'	-1104	+4
Toronto	3506'	-1125	+6
Lansing	3522'	-1141	+6
LKC-F	3588'	-1207	+3
Muncie	3619'	-1238	+7
BKC	3705'	-1324	+12
Marmaton	3730'	-1349	+22
Altamont	3745'	-1364	+21
Pawnee	3770'	-1389	+24
Fort Scott	3788'	-1407	+28
RTD	3825'	-1444	

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ALLIED CEMENTING CO., LLC. 043410

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

SERVICE POINT:
Dakley, KS

DATE <u>9-12-11</u>	SEC <u>31</u>	TWP <u>5</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>1:00 pm</u>	JOB FINISH <u>1:30 pm</u>
LEASE <u>3140</u>	WELL# <u>1</u>	LOCATION <u>Morland, Ks 2E, 14W</u>			COUNTY <u>Wichita</u>	STATE <u>Ks</u>	
OLD OR NEW (Circle one) <u>12w. units</u>							

CONTRACTOR <u>Affinate Well Service</u>	OWNER <u>Same</u>
TYPE OF JOB <u>production port collar</u>	
HOLE SIZE _____ T.D. _____	CEMENT _____
CASINO SIZE <u>5 1/2</u> DEPTH _____	AMOUNT ORDERED <u>470 SK 6040 629 of</u>
TUBING SIZE _____ DEPTH _____	<u>1/4" # flo seal, 300# hulls outside</u>
DRILL PIPE _____ DEPTH _____	
TOOL <u>port collar</u> DEPTH <u>1990'</u>	
PRES. MAX _____ MINIMUM _____	COMMON <u>17 1/2 SK @ 16.25 2820.50</u>
MEAS. LINE _____ SHOE JOINT _____	POZMIX <u>116 SK @ 8.50 986.00</u>
CEMENT LEFT IN CSG. _____	GEL <u>15 SK @ 21.25 318.75</u>
PERFS. _____	CHLORIDE _____ @ _____
DISPLACEMENT _____	ASC _____ @ _____

EQUIPMENT	
PUMP TRUCK # <u>431</u>	CEMENTER <u>Lakene</u>
BULK TRUCK # <u>394/287</u>	HELPER <u>Darren</u>
BULK TRUCK # _____	DRIVER <u>Earl</u>
BULK TRUCK # _____	DRIVER _____

<u>Flo seal 73# @ 2.70 197.10</u>	
<u>Costaseal hulls 350# @ .89 311.50</u>	
_____ @ _____	
_____ @ _____	
_____ @ _____	
_____ @ _____	
HANDLING <u>487 SK @ 2.25 1095.75</u>	
MILEAGE <u>145 km @ 3.25 4725.00</u>	
TOTAL <u>10022.20</u>	

REMARKS:
pressure system to 1200#, open port collar, break circulation, mix 270 SK cement dam casing, Displace with water, close port collar, pressure to 1200#, run in 5 joints, wash out.
Cement did circulate
Thank you

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

SERVICE	
DEPTH OF JOB <u>1990'</u>	
PUMP TRUCK CHARGE _____	<u>1925.00</u>
EXTRA FOOTAGE _____ @ _____	
MILEAGE <u>80 X 2 @ 7.00 1120.00</u>	
MANIFOLD _____ @ _____	
<u>Light Vehicle mileage @ 4.00 640.00</u>	
TOTAL <u>3685.00</u>	

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.

PRINTED NAME _____
SIGNATURE Thomas A. Ash

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

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ALLIED CEMENTING CO., LLC. 043489

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

Ninemire 31AD 1

SERVICE POINT: Oakley

DATE <u>9-26-11</u>	SEC. <u>31</u>	TWP. <u>5</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30pm</u>	JOB FINISH <u>1:00pm</u>
LEASE <u>3/AD</u>	WELL # <u>#1</u>	LOCATION <u>morland 2E 14N</u>			COUNTY <u>Norton</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>1/2W N.INDO</u>			

CONTRACTOR southwind #2 OWNER Same
 TYPE OF JOB Production
 HOLE SIZE 7 7/8 T.D. 3825'
 CASING SIZE 5 1/2 DEPTH 3822'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL Port collar DEPTH 1990'
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 20'
 CEMENT LEFT IN CSG. 20'
 PERFS.
 DISPLACEMENT 90.48 bbl
 EQUIPMENT

CEMENT
 AMOUNT ORDERED 200 SKS 6040
1076 salt 20 gal 4001/8 00-31
500 gal WFR-2
 COMMON 120 SKS @ 16.25 1950.00
 POZMIX 80 SKS @ 8.50 680.00
 GEL 3 SKS @ 21.25 63.75
 CHLORIDE @
 ASC @
 @
salt 18 SKS @ 23.95 431.10
 @
CD-31 129 # @ 9.35 1206.15
 @
WFR-2 500 gal @ 1.27 635.00
 @
 HANDLING 225 SKS @ 2.25 506.25
 MILEAGE 11 # SK/mile 1980.00
 TOTAL 7453.25

PUMP TRUCK CEMENTER Andrew
 # 423-281 HELPER Jerry
 BULK TRUCK
 # 404 DRIVER Ethan
 BULK TRUCK
 # DRIVER

REMARKS:

Pump 500gal WFR-2 Plug mouse
hole 20 SKS Port hole 30 SKS
mix 150 SKS down casing
wash pump and line clean
Release plug Displace
700# LIFT 1000# 220
Plug float held.

Thank you

SERVICE

DEPTH OF JOB 3822'
 PUMP TRUCK CHARGE 2225.00
 EXTRA FOOTAGE @
 MILEAGE 80 miles @ 2.00 1600.00
 MANIFOLD head 200.00
light vehicle @ 4.00 640.00
 @

TOTAL 4185.00

CHARGE TO: Ritchie
 STREET
 CITY STATE ZIP

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5 1/2 PLUG & FLOAT EQUIPMENT

1 Guide shoe @ 240.00
1 AFU Insert @ 286.00
2 Baskets @ 332.00 664.00
1 Port collar @ 200.00
6 Turbo Lizers @ 80.00 480.00
1 Plug 73.00
 TOTAL 4353.00

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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.

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PRINTED NAME
 SIGNATURE Thomas A. Ad

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

DEC 06 2013

KCC

TR

ALLIED CEMENTING CO., LLC. 035806

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

SERVICE POINT:
Russell, ks

DATE <u>8-29-11</u>	SEC. <u>31</u>	TWP. <u>5</u>	RANGE <u>24</u>	CALLED OUT	ON LOCATION	JOB START <u>7:15pm</u>	JOB FINISH <u>9:45pm</u>
LEASE <u>Diemire</u>		WELL # <u>1</u>		LOCATION <u>10w Hill City</u>		COUNTY <u>Morton</u>	STATE <u>KS</u>
OLD OR NEW (Circle one)				<u>13 1/2 N Ninto</u>			

CONTRACTOR Southwind Drilling #2 OWNER _____

TYPE OF JOB Surface

HOLE SIZE _____ T.D. 221 CEMENT _____

CASING SIZE 8 5/8 DEPTH 219 AMOUNT ORDERED 160 sk Com

TUBING SIZE _____ DEPTH _____ 3% CC 2% Gel

DRILL PIPE _____ DEPTH _____

TOOL _____ DEPTH _____

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. 15 ft

PERFS. _____

DISPLACEMENT 12.99 bbl #20

EQUIPMENT

PUMP TRUCK CEMENTER Heath

409 HELPER Tadcl

BULK TRUCK _____

378 DRIVER Walter

BULK TRUCK _____

_____ DRIVER _____

COMMON 160 @ 16.25 2600.00

POZMIX _____ @ _____

GEL 3 @ 21.25 63.75

CHLORIDE 5 @ 58.20 291.00

ASC _____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

_____ @ _____

HANDLING 168 @ 2.25 378.00

MILEAGE 11/16 mile 1478.40

TOTAL 4811.15

REMARKS:

Ran 5 joints of 8 5/8 casing 23"

Circulated with mud pump

mixed 160 sk & displaced with 12.99 bbl #20

Cement did circulate!

Thank You!!

CHARGE TO: Bitchie Exploration, Inc

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB _____

PUMP TRUCK CHARGE _____ 1125.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 160 @ 7.00 1120.00

MANIFOLD _____ @ _____

Com 160 @ 4.00 640.00

_____ @ _____

TOTAL 2885.00

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PLUG & FLOAT EQUIPMENT

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SALES TAX (If Any) DEC 06 2013

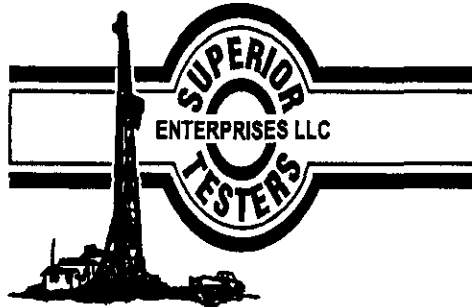
TOTAL CHARGES 7696.15

DISCOUNT 50/20 **KCC** IF PAID IN 30 DAYS

PRINTED NAME William Sanders

SIGNATURE William Sanders

(Handwritten mark)



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd street North
700 wichita kansas 67278

ATTN: Jeff Christian

31-5s-24w Norton

#1Ninemire 31 AD

Start Date: 2011.09.02 @ 08:56:00

End Date: 2011.09.02 @ 15:28:30

Job Ticket #: 17202 DST #: 1

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KCC

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

Printed: 2011.09.06 @ 18:29:41

Ritchie Exploration Inc.

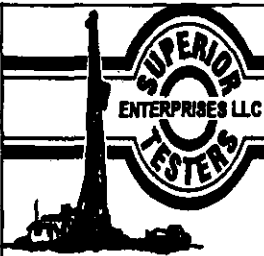
#1Ninemire 31 AD

31-5s-24w Norton

DST # 1

Lansing A

2011.09.02



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w wichita kansas 67278
 ATTN: Jeff Christian

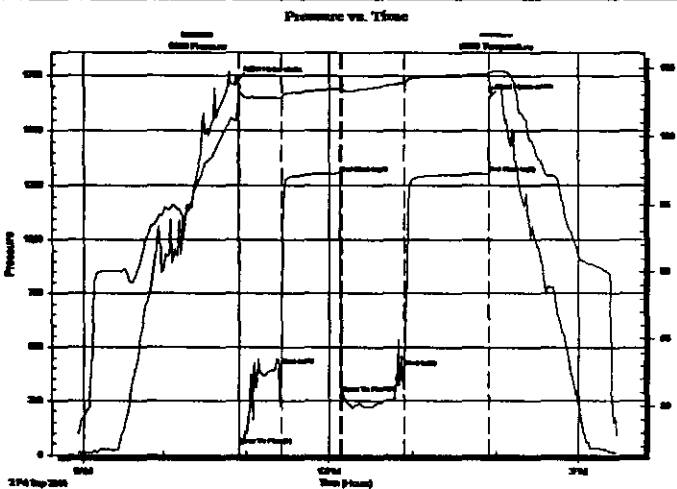
#1Ninemire 31 AD
 31-5a-24w Norton
 Job Ticket: 17202 DST#: 1
 Test Start: 2011.09.02 @ 08:56:00

GENERAL INFORMATION:

Formation: **Lansing A**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **10:54:30**
 Time Test Ended: **15:28:30**
 Interval: **3512.00 ft (KB) To 3534.00 ft (KB) (TVD)**
 Total Depth: **3534.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Poor**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Dustin Ellis**
 Unit No: **3315-GB-305**
 Reference Elevations: **3534.00 ft (KB)**
3512.00 ft (CF)
 KB to GR/CF: **22.00 ft**

Serial #: **6806** Inside
 Press@RunDepth: **404.92 psia @ 3530.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.09.02** End Date: **2011.09.02** Last Calib.: **2011.09.02**
 Start Time: **08:56:00** End Time: **15:28:30** Time On Btm: **2011.09.02 @ 10:53:30**
 Time Off Btm: **2011.09.02 @ 13:55:00**

TEST COMMENT: 1st open 30 minutes Weak building blow built to 2 inches into the bucket
 1st shut in 45 minutes No blow back
 2nd open 45 minutes Weak building blow built to 2.5 inches into the bucket
 2nd shut in 60 minutes No blow back



PRESSURE SUMMARY

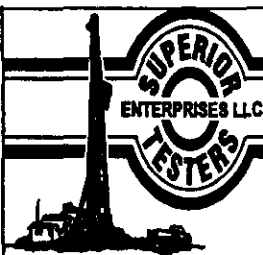
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1726.79	102.72	Initial Hydro-static
1	43.70	103.18	Open To Flow (1)
32	413.53	102.85	Shut-in(1)
75	1305.66	103.49	End Shut-in(1)
76	285.57	103.33	Open To Flow (2)
121	404.92	103.90	Shut-in(2)
181	1302.91	104.60	End Shut-in(2)
182	1648.62	104.68	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	clean oil 100%	0.42
60.00	oily cut mud 60% oil 40% mud	0.84

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w ichta kansas 67278
 ATTN: Jeff Christian

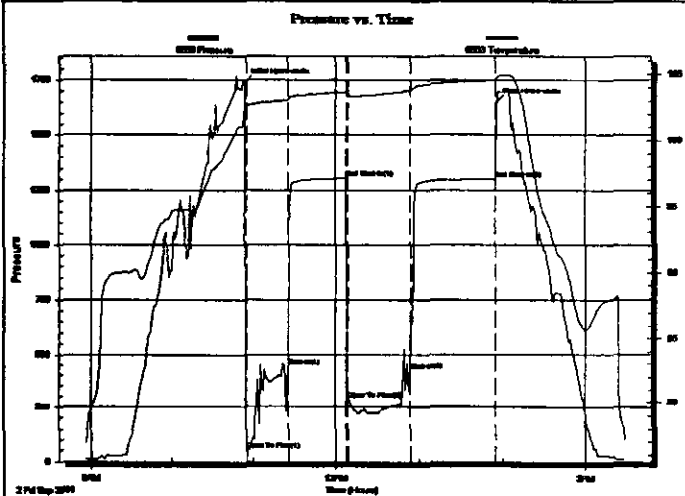
#1Ninemire 31 AD
 31-5s-24w Norton
 Job Ticket: 17202 DST#: 1
 Test Start: 2011.09.02 @ 08:56:00

GENERAL INFORMATION:

Formation: Lansing A
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 10:54:30
 Time Test Ended: 15:28:30
 Interval: 3512.00 ft (KB) To 3534.00 ft (KB) (TVD)
 Total Depth: 3534.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-305
 Reference Elevations: 3534.00 ft (KB)
 3512.00 ft (CF)
 KB to GR/CF: 22.00 ft

Serial #: 6663 Outside
 Press@RunDepth: 1300.57 psia @ 3531.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.09.02 End Date: 2011.09.02 Last Calib.: 2011.09.02
 Start Time: 08:56:00 End Time: 15:29:00 Time On Btm: 2011.09.02 @ 10:53:30
 Time Off Btm: 2011.09.02 @ 13:55:30

TEST COMMENT: 1st open 30 minutes Weak building blow built to 2 inches into the bucket
 1st shut in 45 minutes No blow back
 2nd open 45 minutes Weak building blow built to 2.5 inches into the bucket
 2nd shut in 60 minutes No blow back



PRESSURE SUMMARY

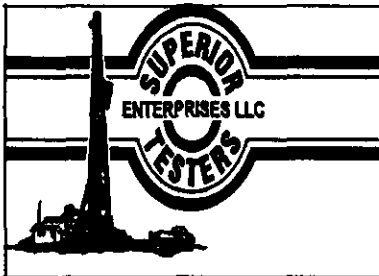
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1740.36	102.78	Initial Hydro-static
2	51.17	102.61	Open To Flow (1)
32	441.62	103.07	Shut-in(1)
75	1303.95	103.66	End Shut-in(1)
76	289.29	103.41	Open To Flow (2)
121	417.69	103.78	Shut-in(2)
181	1300.57	104.58	End Shut-in(2)
182	1650.79	104.70	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	clean oil 100%	0.42
60.00	oily cut mud 60% oil 40% mud	0.84

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w ichita kansas 67278
 ATTN: Jeff Christian

#1Ninemire 31 AD
 31-5s-24w Norton
 Job Ticket: 17202 DST#: 1
 Test Start: 2011.09.02 @ 08:56:00

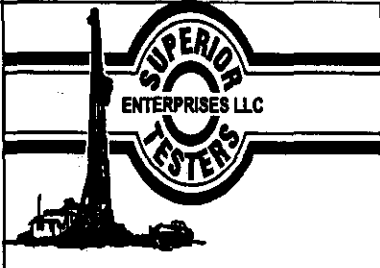
Tool Information

Drill Pipe:	Length: 3513.00 ft	Diameter: 3.80 inches	Volume: 49.28 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Full Loose: 40000.00 lb
			Total Volume: 49.28 bbl	Tool Chased 2.00 ft
Drill Pipe Above KB:	21.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3512.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	42.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3497.00	
Hydrolic Tool	5.00			3502.00	
Packer	5.00			3507.00	20.00 Bottom Of Top Packer
Packer	5.00			3512.00	
Perforations	17.00			3529.00	
Recorder	1.00	6806	Inside	3530.00	
Recorder	1.00	6663	Outside	3531.00	
Bull Plug	3.00			3534.00	22.00 Bottom Packers & Anchor

Total Tool Length: 42.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

#1Ninemire 31 AD

8100 East 22nd street North
700 w wichita kansas 67278

31-5s-24w Norton

Job Ticket: 17202

DST#: 1

ATTN: Jeff Christian

Test Start: 2011.09.02 @ 08:56:00

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: 65.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.98 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	clean oil 100%	0.421
60.00	oily cut mud 60% oil 40% mud	0.842

Total Length: 90.00 ft Total Volume: 1.263 bbl

Num Fluid Samples: 0

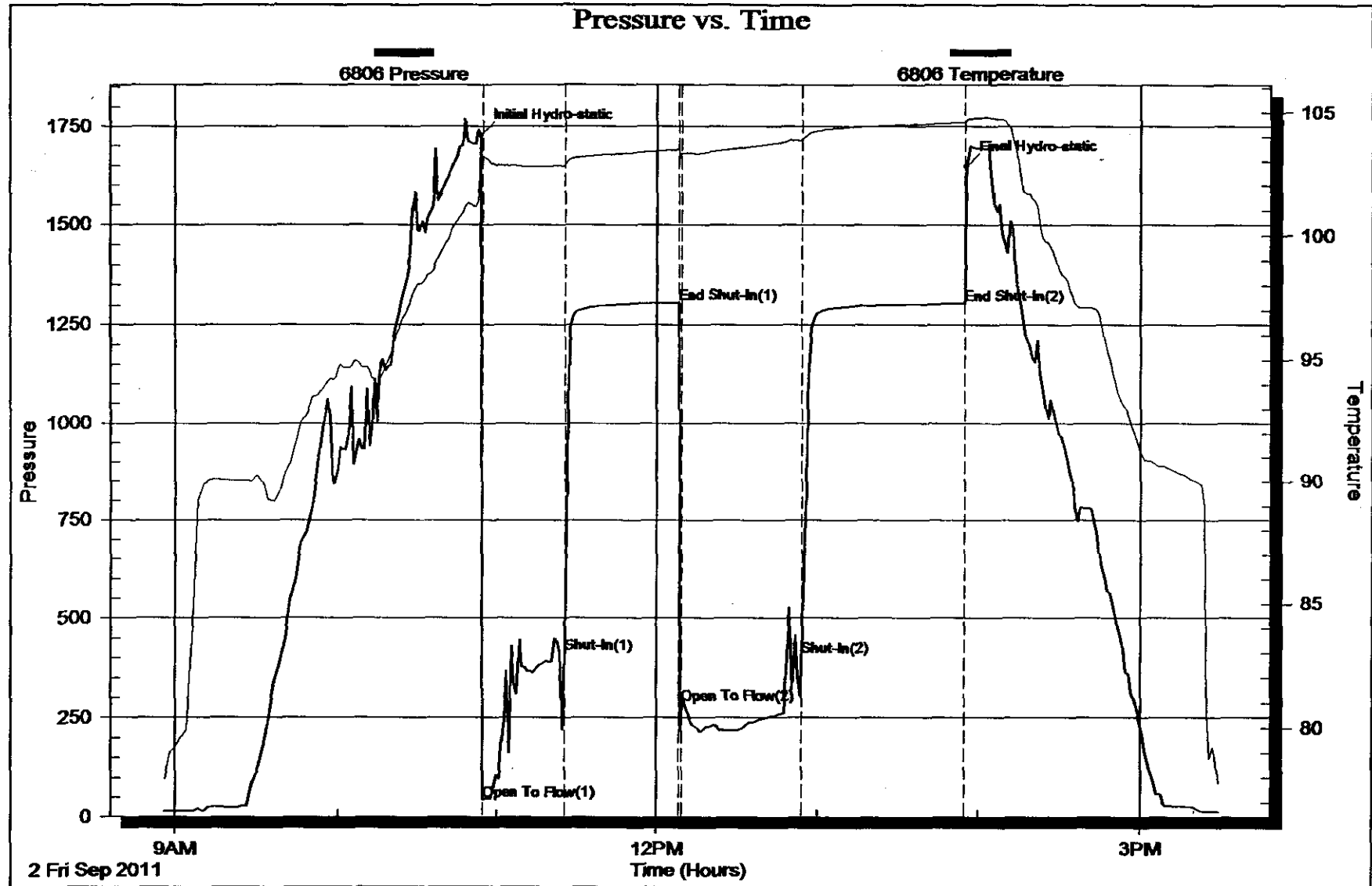
Num Gas Bombs: 0

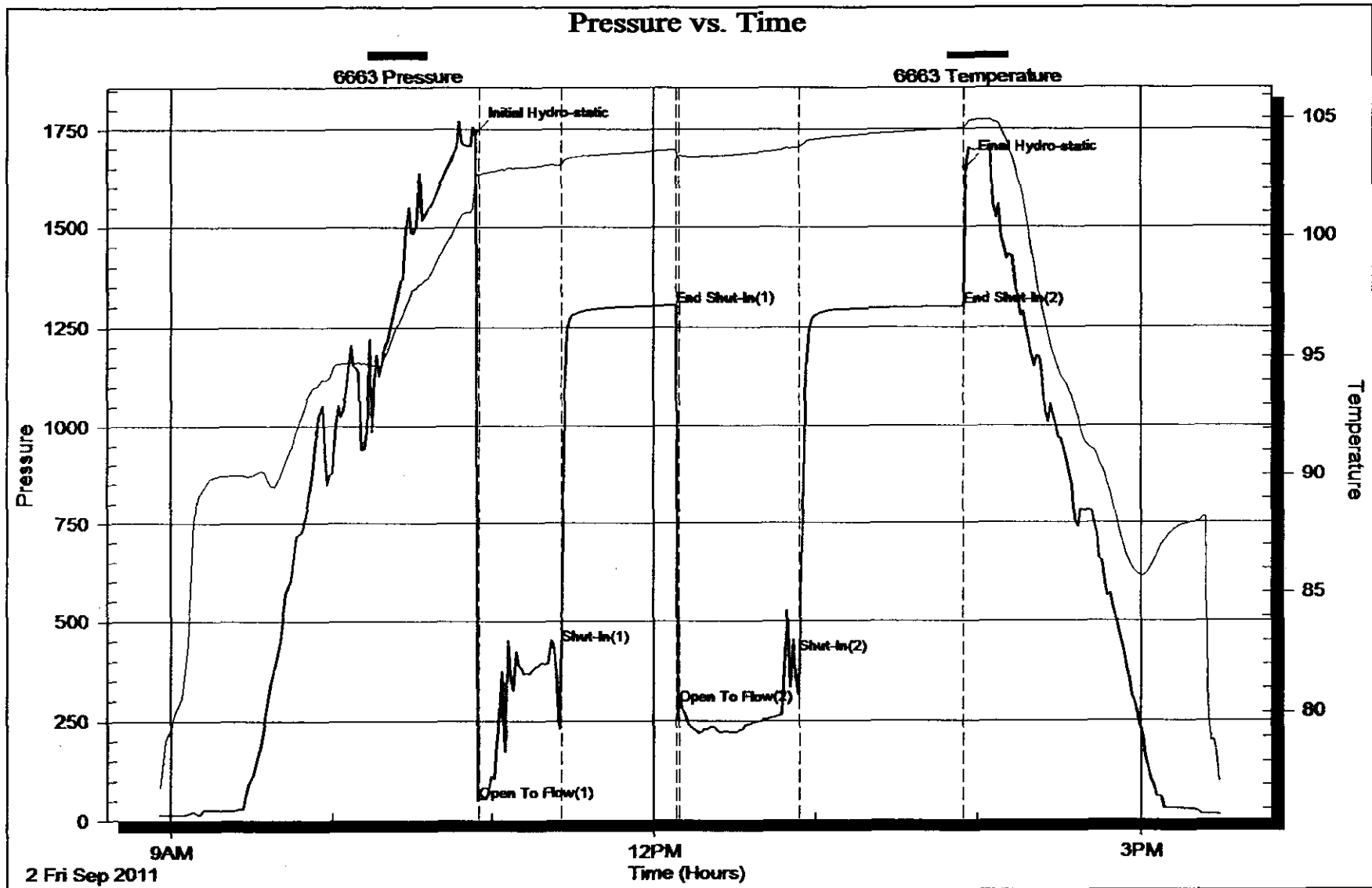
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd street North
700 wichita kansas 67278

ATTN: Jeff Christian

31-5s-24w Norton

#1Ninemire 31 AD

Start Date: 2011.09.02 @ 10:30:00

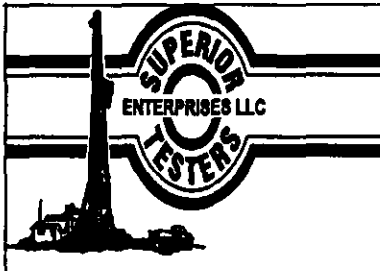
End Date: 2011.09.02 @ 16:52:00

Job Ticket #: 17206 DST #: 2

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

Printed: 2011.09.06 @ 18:29:54

Ritchie Exploration Inc. #1Ninemire 31 AD 31-5s-24w Norton DST # 2 Lansing C 2011.09.02



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w ichta kansas 67278
 ATTN: Jeff Christian

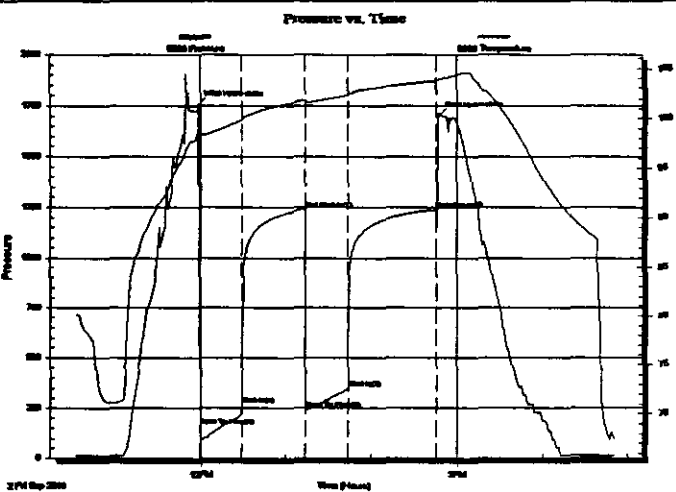
#1Ninemire 31 AD
 31-5s-24w Norton
 Job Ticket: 17206 DST#: 2
 Test Start: 2011.09.02 @ 10:30:00

GENERAL INFORMATION:

Formation: **Lansing C**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **11:59:30**
 Time Test Ended: **16:52:00**
 Interval: **3534.00 ft (KB) To 3558.00 ft (KB) (TVD)**
 Total Depth: **3558.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Dustin Ellis**
 Unit No: **3315-GB- 305**
 Reference Elevations: **3534.00 ft (KB)**
3512.00 ft (CF)
 KB to GRVCF: **22.00 ft**

Serial #: 6806 Inside
 Press@RunDepth: **346.70 psia @ 3554.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.09.02** End Date: **2011.09.02** Last Calib.: **2011.09.03**
 Start Time: **10:31:00** End Time: **16:52:00** Time On Btm: **2011.09.02 @ 11:58:30**
 Time Off Btm: **2011.09.02 @ 14:47:00**

TEST COMMENT: 1st open 30 minutes Fair buidling blow built to bottom of bucket in 20 minutes
 1st shut in 45 minutes No blow back
 2nd open 30 minutes Strong blow blew bottom of bucket in 8 minutes
 2nd shut in 60 minutes No blow back



PRESSURE SUMMARY

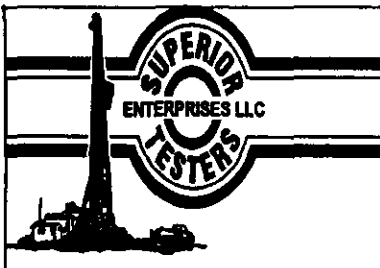
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1756.59	98.61	Initial Hydro-static
1	159.76	98.29	Open To Flow (1)
31	270.55	99.90	Shut-In(1)
76	1241.39	101.91	End Shut-In(1)
76	244.36	101.70	Open To Flow (2)
106	346.70	102.37	Shut-In(2)
167	1238.83	103.77	End Shut-In(2)
169	1705.00	103.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Water mud cut oil 20% mud 20% w ater	60.84
675.00	salk water 100%	9.47
0.00	Chlorides 56000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 wichita kansas 67278
 ATTN: Jeff Christian

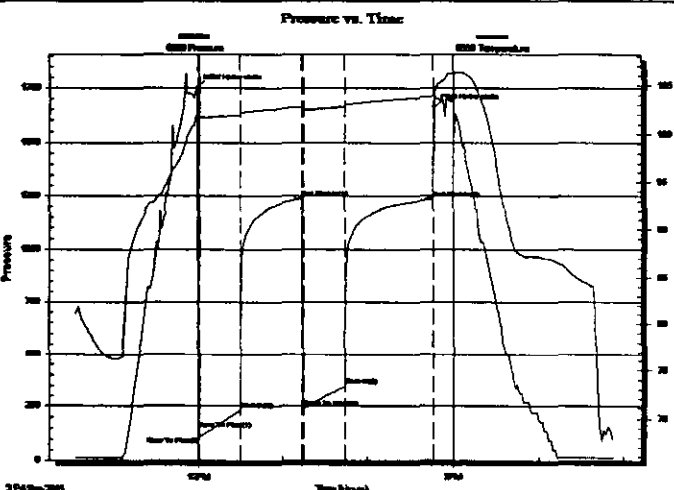
#1Ninemire 31 AD
 31-5a-24w Norton
 Job Ticket: 17206 DST#: 2
 Test Start: 2011.09.02 @ 10:30:00

GENERAL INFORMATION:

Formation: **Lansing C**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:59:30
 Time Test Ended: 16:52:00
 Interval: **3534.00 ft (KB) To 3558.00 ft (KB) (TVD)**
 Total Depth: **3558.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB- 305
 Reference Elevations: **3534.00 ft (KB)**
3512.00 ft (CF)
 KB to GR/CF: **22.00 ft**

Serial #: **6663** Outside
 Press@RunDepth: **1239.33 psia @ 3555.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.09.02** End Date: **2011.09.02** Last Calib.: **2011.09.03**
 Start Time: **10:31:00** End Time: **16:54:00** Time On Btm: **2011.09.02 @ 11:58:30**
 Time Off Btm: **2011.09.02 @ 14:46:00**

TEST COMMENT: 1st open 30 minutes Fair building blow built to bottom of bucket in 20 minutes
 1st shut in 45 minutes No blow back
 2nd open 30 minutes Strong blow blew bottom of bucket in 8 minutes
 2nd shut in 60 minutes No blow back



PRESSURE SUMMARY

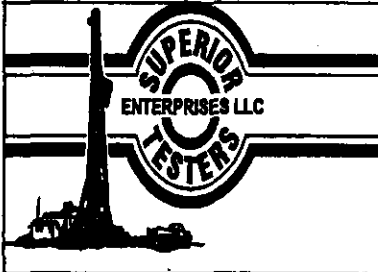
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1751.27	101.95	Initial Hydro-static
1	146.18	101.67	Open To Flow (1)
3	110.35	101.67	Open To Flow (2)
31	232.97	101.93	Shut-in(1)
76	1241.81	102.75	End Shut-in(1)
77	243.31	102.50	Open To Flow (3)
106	348.28	102.80	Shut-in(2)
167	1239.33	103.85	End Shut-in(2)
168	1662.34	103.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Water mud cut oil 20% mud 20% w ater	60.84
675.00	sait w ater 100%	9.47
0.00	Chlorides 56000	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 North
 700 w ichta kansas 67278
 ATTN: Jeff Christian

#1Ninemire 31 AD
 31-5s-24w Norton
 Job Ticket: 17206 DST#: 2
 Test Start: 2011.09.02 @ 10:30:00

Tool Information

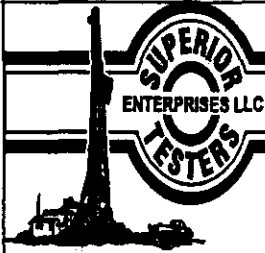
Drill Pipe:	Length: 3544.00 ft	Diameter: 3.80 inches	Volume: 49.71 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
		Total Volume: 49.71 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3534.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.25 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3519.00	
Hydraulic Tool	5.00			3524.00	
Packer	5.00			3529.00	20.00 Bottom Of Top Packer
Packer	5.00			3534.00	
Perforations	19.00			3553.00	
Recorder	1.00	6806	Inside	3554.00	
Recorder	1.00	6663	Outside	3555.00	
Bull Plug	3.00			3558.00	24.00 Bottom Packers & Anchor

Total Tool Length: 44.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.

#1 Ninemire 31 AD

8100 East 22nd street North
700 w ichita kansas 67278

31-5s-24w Norton

Job Ticket: 17206

DST#: 2

ATTN: Jeff Christian

Test Start: 2011.09.02 @ 10:30:00

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: 65.00 sec/qt

Cushion Volume:

bbl

Water Loss: 5.98 in³

Gas Cushion Type:

Resistivity: 0.10 ohm.m

Gas Cushion Pressure:

psia

Salinity: 500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Water mud cut oil 20% mud 20% water 60%	0.842
675.00	salt water 100%	9.468
0.00	Chlorides 56000	0.000

Total Length:

735.00 ft

Total Volume:

10.310 bbl

Num Fluid Samples: 0

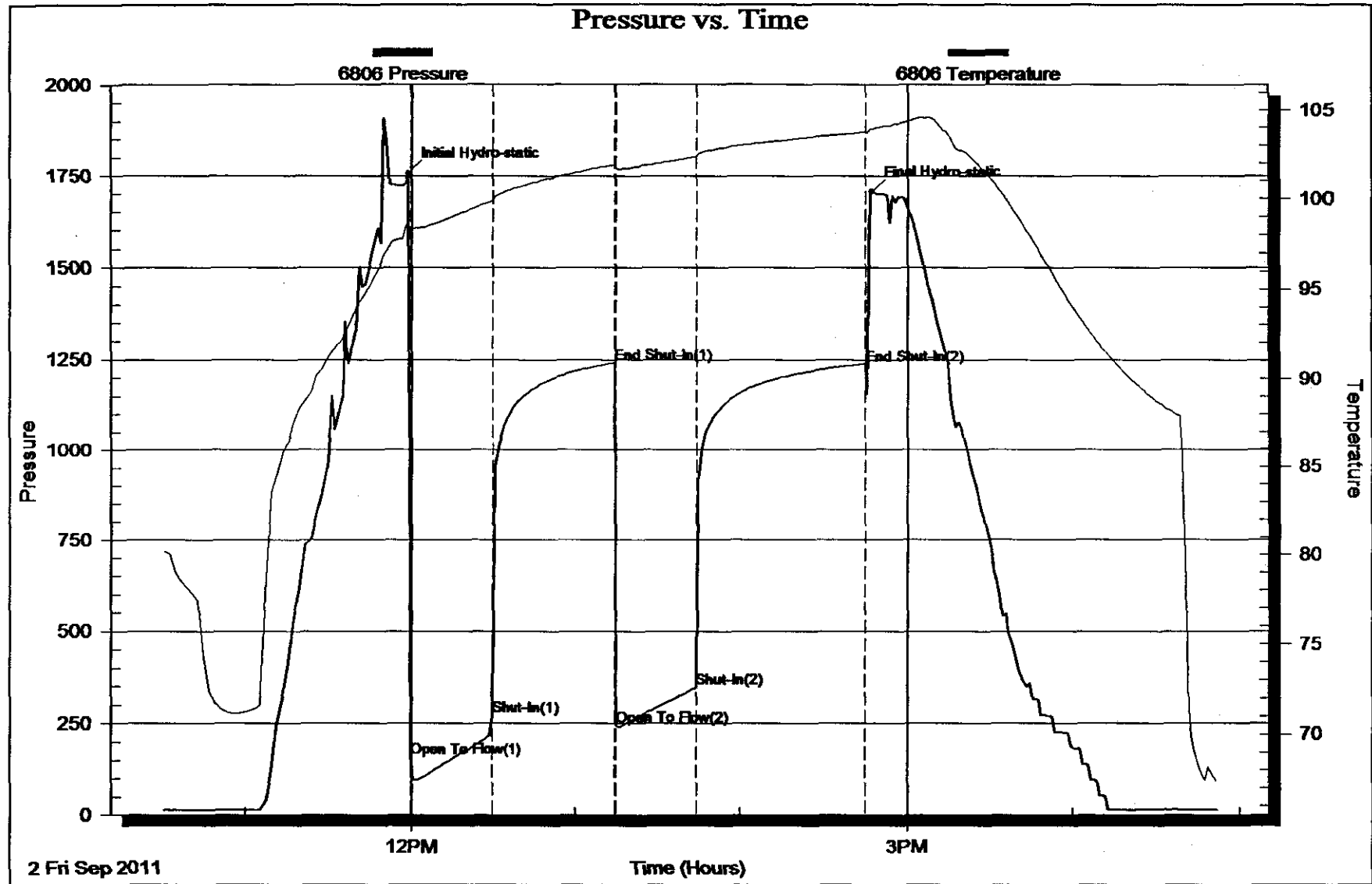
Num Gas Bombs: 0

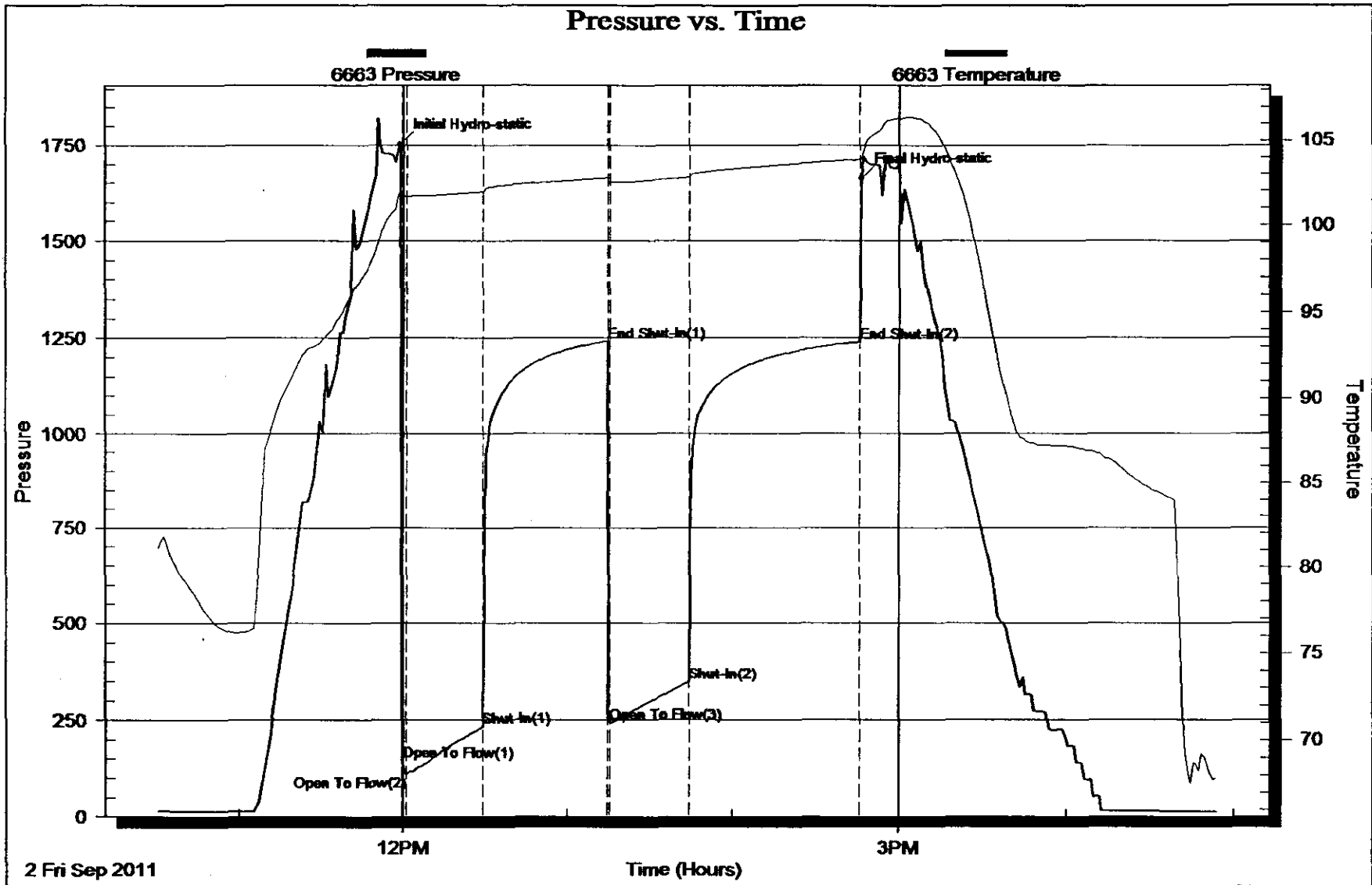
Serial #:

Laboratory Name:

Laboratory Location:

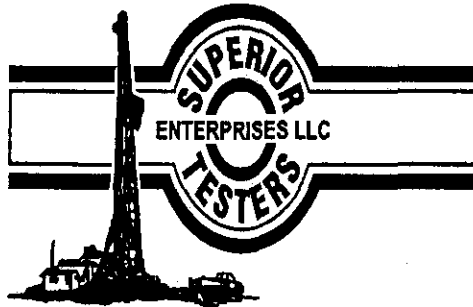
Recovery Comments:





2 Fri Sep 2011

Time (Hours)



DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd street North
700 wichita kansas 67278

ATTN: Jeff Christian

31-5s-24w Norton

#1Ninemire 31 AD

Start Date: 2011.09.03 @ 10:30:00

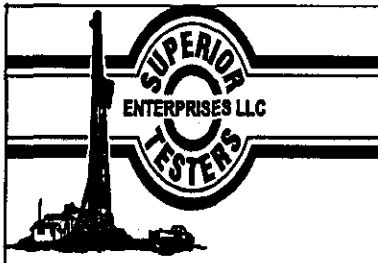
End Date: 2011.09.03 @ 16:01:30

Job Ticket #: 17207 DST #: 3

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

Printed: 2011.09.06 @ 18:30:05

Ritchie Exploration Inc. #1Ninemire 31 AD 31-5s-24w Norton DST # 3 Lansing 2011.09.03



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 wichita kansas 67278
 ATTN: Jeff Christian

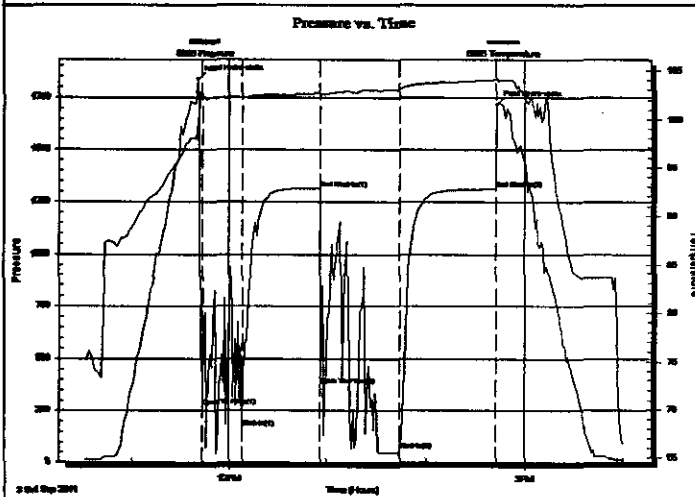
#1Ninemire 31 AD
31-5s-24w Norton
 Job Ticket: 17207 DST#: 3
 Test Start: 2011.09.03 @ 10:30:00

GENERAL INFORMATION:

Formation: **Lansing**
 Deviated: **No** Whipstock: **ft (KB)**
 Time Tool Opened: **11:43:00**
 Time Test Ended: **16:01:30**
 Interval: **3555.00 ft (KB) To 3576.00 ft (KB) (TVD)**
 Total Depth: **3576.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Bottom Hole (Initial)**
 Tester: **Dustin Ellis**
 Unit No: **3315-GB-305**
 Reference Elevations: **3534.00 ft (KB)**
3512.00 ft (CF)
 KB to GR/CF: **22.00 ft**

Serial #: 6806 **Inside**
 Press@RunDepth: **166.43 psia @ 3572.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.09.03** End Date: **2011.09.03** Last Calib.: **2011.09.03**
 Start Time: **10:31:00** End Time: **16:01:30** Time On Btm: **2011.09.03 @ 11:41:30**
 Time Off Btm: **2011.09.03 @ 14:43:00**

TEST COMMENT: 1st open 30 minutes Weak blow built to 1.5 in 30 minutes
 1st shut in 45 minutes No blow back
 2nd open 45 minutes Weak surface blow then died off
 2nd shut in 60 minutes No blow back



PRESSURE SUMMARY

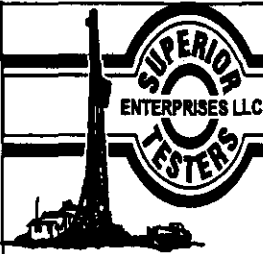
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1839.50	100.72	Initial Hydro-static
3	272.42	102.29	Open To Flow (1)
27	166.43	102.20	Shut-In(1)
75	1316.54	102.72	End Shut-In(1)
75	370.21	102.44	Open To Flow (2)
123	56.96	103.08	Shut-In(2)
181	1312.96	104.08	End Shut-In(2)
182	1718.44	104.22	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
39.00	Drilling Mud	0.55

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w ichita kansas 67278
 ATTN: Jeff Christian

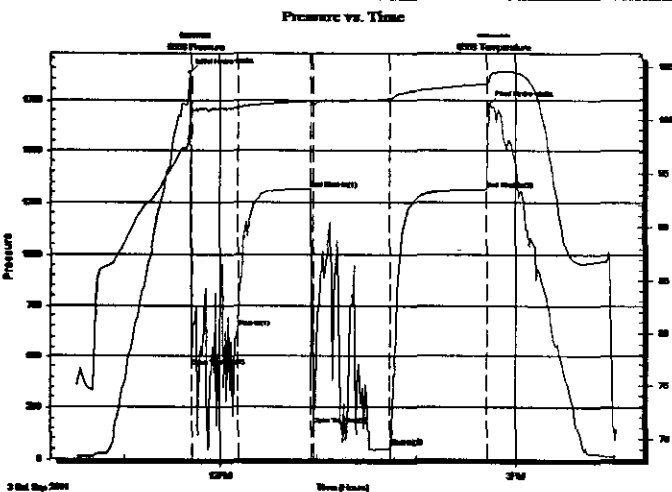
#1Ninemire 31 AD
 31-5e-24w Norton
 Job Ticket: 17207 DST#: 3
 Test Start: 2011.09.03 @ 10:30:00

GENERAL INFORMATION:

Formation: Lansing
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:43:00
 Time Test Ended: 16:01:30
 Interval: 3555.00 ft (KB) To 3576.00 ft (KB) (TVD)
 Total Depth: 3576.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-305
 Reference Elevations: 3534.00 ft (KB)
 3512.00 ft (CF)
 KB to GR/CF: 22.00 ft

Serial #: 6663 Outside
 Press@RunDepth: 1313.76 psia @ 3573.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.09.03 End Date: 2011.09.03 Last Calib.: 2011.09.03
 Start Time: 10:31:00 End Time: 16:01:30 Time On Btm: 2011.09.03 @ 11:41:30
 Time Off Btm: 2011.09.03 @ 14:43:30

TEST COMMENT: 1st open 30 minutes Weak blow built to 1.5 in 30 minutes
 1st shut in 45 minutes No blow back
 2nd open 45 minutes Weak surface blow then died off
 2nd shut in 60 minutes No blow back



PRESSURE SUMMARY

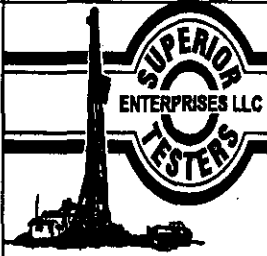
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1880.47	99.98	Initial Hydro-static
2	443.68	100.78	Open To Flow (1)
30	640.04	101.16	Shut-in(1)
75	1317.59	101.83	End Shut-in(1)
77	168.11	101.57	Open To Flow (2)
123	60.42	102.07	Shut-in(2)
181	1313.76	103.39	End Shut-in(2)
182	1726.90	103.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
39.00	Drilling Mud	0.55

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w ichita kansas 67278
 ATTN: Jeff Christian

#1Ninemire 31 AD
 31-5s-24w Norton
 Job Ticket: 17207 DST#: 3
 Test Start: 2011.09.03 @ 10:30:00

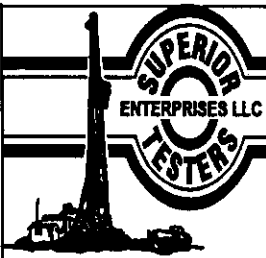
Tool Information

Drill Pipe:	Length: 3546.00 ft	Diameter: 3.80 inches	Volume: 49.74 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 49.74 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3555.00 ft			Final 34000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	21.00 ft			
Tool Length:	41.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in Tool	5.00			3540.00	
Hydraulic Tool	5.00			3545.00	
Packer	5.00			3550.00	20.00 Bottom Of Top Packer
Packer	5.00			3555.00	
Perforations	16.00			3571.00	
Recorder	1.00	6806	Inside	3572.00	
Recorder	1.00	6663	Outside	3573.00	
Bull Plug	3.00			3576.00	21.00 Bottom Packers & Anchor

Total Tool Length: 41.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
8100 East 22nd street North
700 w ichita kansas 67278

#1Ninemire 31 AD
31-5s-24w Norton
Job Ticket: 17207 DST#: 3
Test Start: 2011.09.03 @ 10:30:00

ATTN: Jeff Christian

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: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.38 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 500.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

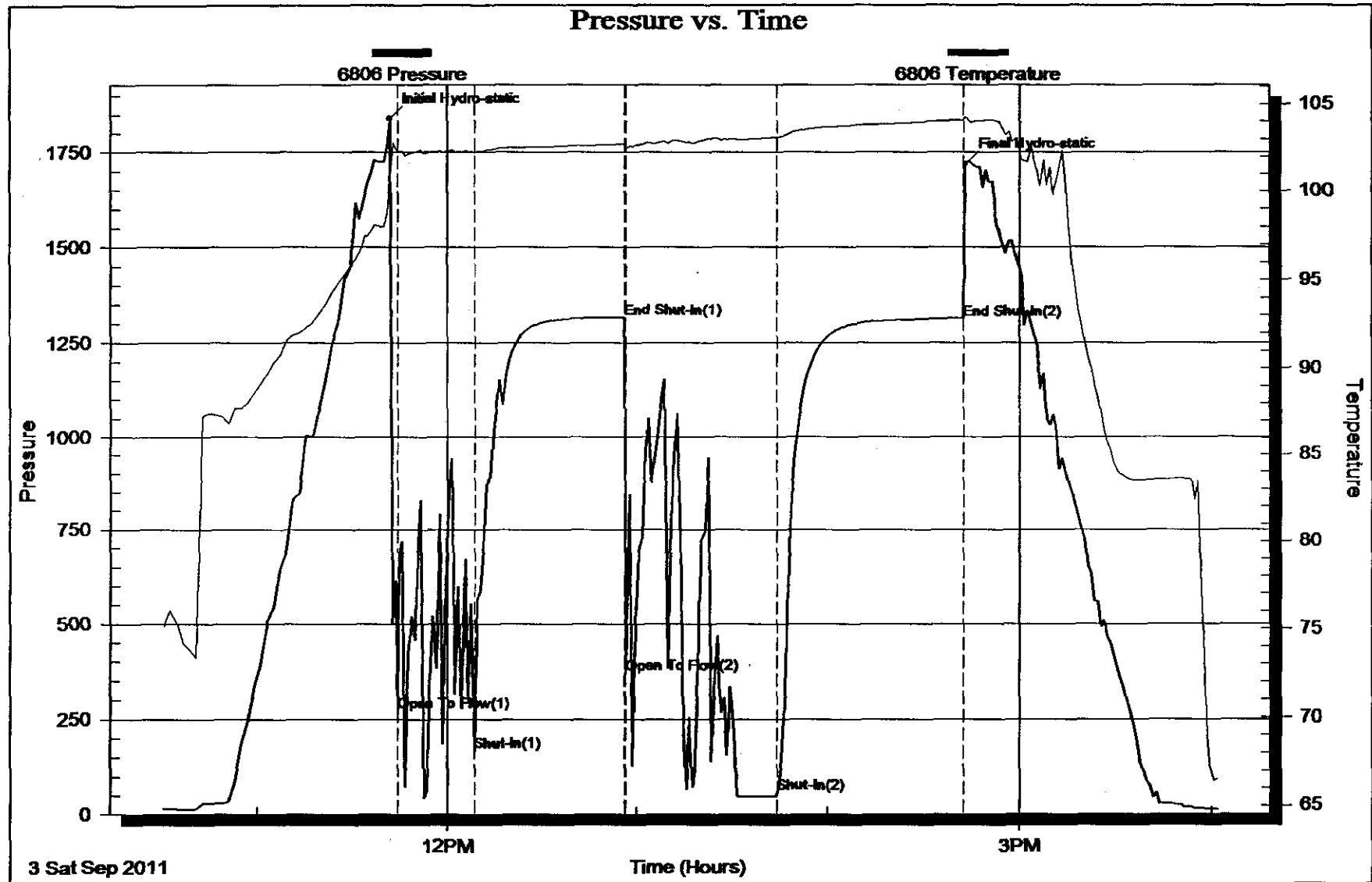
Length ft	Description	Volume bbl
39.00	Drilling Mud	0.547

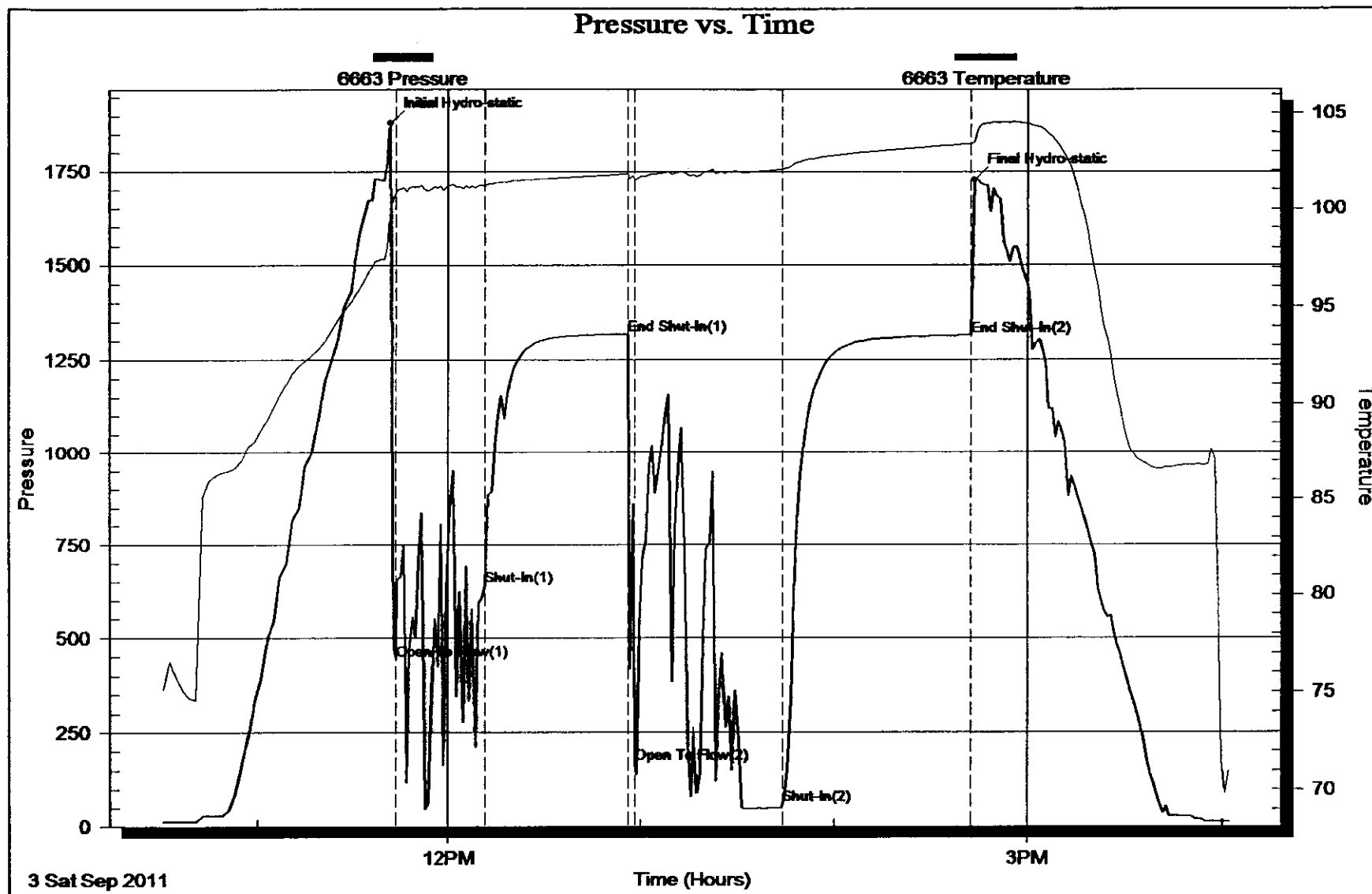
Total Length: 39.00 ft Total Volume: 0.547 bbl

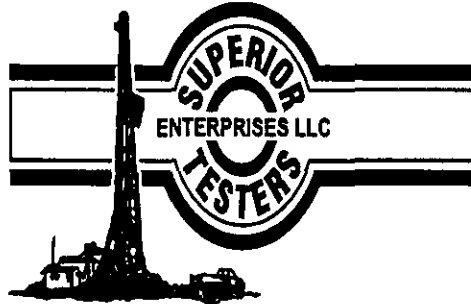
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd street North
700 wichita kansas 67278

ATTN: Jeff Christian

31-5s-24w Norton

#1Ninemire 31 AD

Start Date: 2011.09.04 @ 12:17:00

End Date: 2011.09.04 @ 18:38:00

Job Ticket #: 17208 DST #: 4

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

Printed: 2011.09.06 @ 18:31:31

Ritchie Exploration Inc.

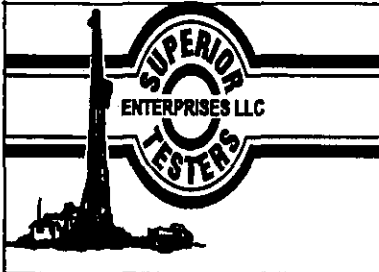
#1Ninemire 31 AD

31-5s-24w Norton

DST # 4

Lansing E&F

2011.09.04



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w ichta kansas 67278
 ATTN: Jeff Christian

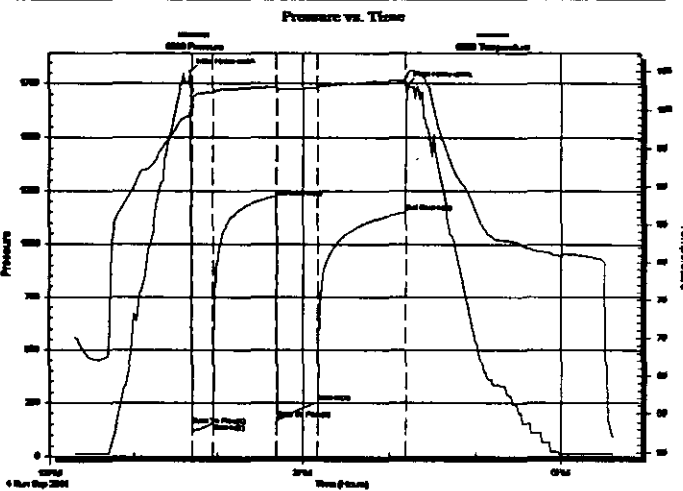
#1Ninemire 31 AD
 31-5a-24w Norton
 Job Ticket: 17208 DST#: 4
 Test Start: 2011.09.04 @ 12:17:00

GENERAL INFORMATION:

Formation: **Lansing E&F**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 13:41:30
 Time Test Ended: 18:38:00
 Interval: **3574.00 ft (KB) To 3598.00 ft (KB) (TVD)**
 Total Depth: **3598.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Dustin Ellis**
 Unit No: **3315-GB-305**
 Reference Elevations: **3534.00 ft (KB)**
3512.00 ft (CF)
 KB to GR/CF: **22.00 ft**

Serial #: **6663** Outside
 Press@RunDepth: **253.85 psia @ 3595.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.09.04** End Date: **2011.09.04** Last Calib.: **2011.09.04**
 Start Time: **12:18:00** End Time: **18:38:00** Time On Btm: **2011.09.04 @ 13:40:30**
 Time Off Btm: **2011.09.04 @ 16:12:30**

TEST COMMENT: 1st open 15 minutes Strong blow blew bottom of bucket 2 minutes
 1st shutin 45 minutes Yes blow back
 2nd open 30 minutes Strong blow blew bottom of bucket 2 minutes
 2nd shut in 60 minutes Yes blow back



PRESSURE SUMMARY

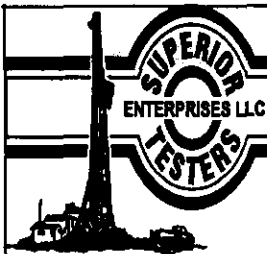
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1805.23	100.53	Initial Hydro-static
1	144.55	101.44	Open To Flow (1)
16	155.33	102.24	Shut-in(1)
61	1217.09	102.86	End Shut-in(1)
61	172.84	102.60	Open To Flow (2)
91	253.85	102.81	Shut-in(2)
151	1150.89	103.81	End Shut-in(2)
152	1741.93	104.34	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oil Cut Mud 90% Oil 10% Mud	0.84
622.00	Clean Oil 100% Oil	8.73
0.00	Gravity 32 Corrected	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w ichita kansas 67278
 ATTN: Jeff Christian

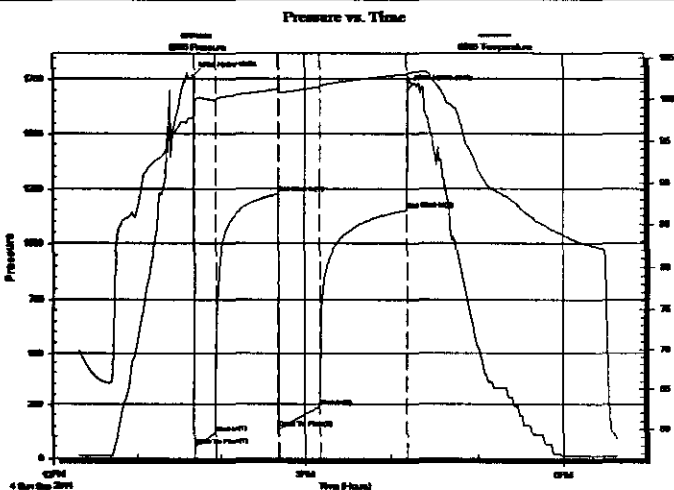
#1Ninemire 31 AD
 31-5~~2~~-24w Norton
 Job Ticket: 17208 DST#: 4
 Test Start: 2011.09.04 @ 12:17:00

GENERAL INFORMATION:

Formation: Lansing E&F
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 13:41:30
 Time Test Ended: 18:38:00
 Interval: 3574.00 ft (KB) To 3598.00 ft (KB) (TVD)
 Total Depth: 3598.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-305
 Reference Elevations: 3534.00 ft (KB)
 3512.00 ft (CF)
 KB to GRVCF: 22.00 ft

Serial #: 6806 Inside
 Press@RunDepth: 1151.49 psia @ 3594.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.09.04 End Date: 2011.09.04 Last Calib.: 2011.09.04
 Start Time: 12:18:00 End Time: 18:38:30 Time On Btm: 2011.09.04 @ 13:40:30
 Time Off Btm: 2011.09.04 @ 16:12:00

TEST COMMENT: 1st open 15 minutes Strong blow blew bottom of bucket 2 minutes
 1st shut in 45 minutes Yes blow back
 2nd open 30 minutes Strong blow blew bottom of bucket 2 minutes
 2nd shut in 60 minutes Yes blow back



PRESSURE SUMMARY

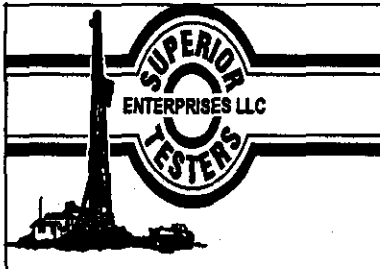
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1767.79	97.88	Initial Hydro-static
1	57.03	99.77	Open To Flow (1)
16	118.68	99.96	Shut-In(1)
61	1224.88	101.25	End Shut-In(1)
61	141.85	100.98	Open To Flow (2)
90	237.86	101.50	Shut-In(2)
151	1151.49	103.03	End Shut-In(2)
152	1703.87	103.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Oil Cut Mud 90%Oil 10% Mud	0.84
622.00	Clean Oil 100% Oil	8.73
0.00	Gravity 32 Corrected	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 North
 700 w ichita kansas 67278
 ATTN: Jeff Christian

#1Ninemire 31 AD
 31-5s-24w Norton
 Job Ticket: 17208 DST#: 4
 Test Start: 2011.09.04 @ 12:17:00

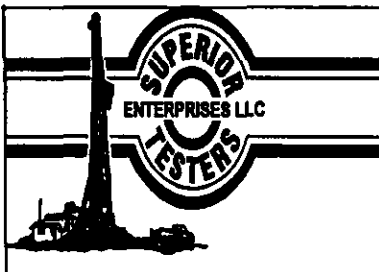
Tool Information

Drill Pipe:	Length: 3577.00 ft	Diameter: 3.80 inches	Volume: 50.18 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 55000.00 lb
			Total Volume: 50.18 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3574.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	24.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.25 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in Tool	5.00			3559.00	
Hydraulic Tool	5.00			3564.00	
Packer	5.00			3569.00	20.00 Bottom Of Top Packer
Packer	5.00			3574.00	
Perforations	19.00			3593.00	
Recorder	1.00	6806	Inside	3594.00	
Recorder	1.00	6663	Outside	3595.00	
Bull Plug	3.00			3598.00	24.00 Bottom Packers & Anchor

Total Tool Length: 44.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w wichita kansas 67278
 ATTN: Jeff Christian

#1Ninemire 31 AD
 31-5s-24w Norton
 Job Ticket: 17208 DST#: 4
 Test Start: 2011.09.04 @ 12:17:00

Mud and Cushion Information

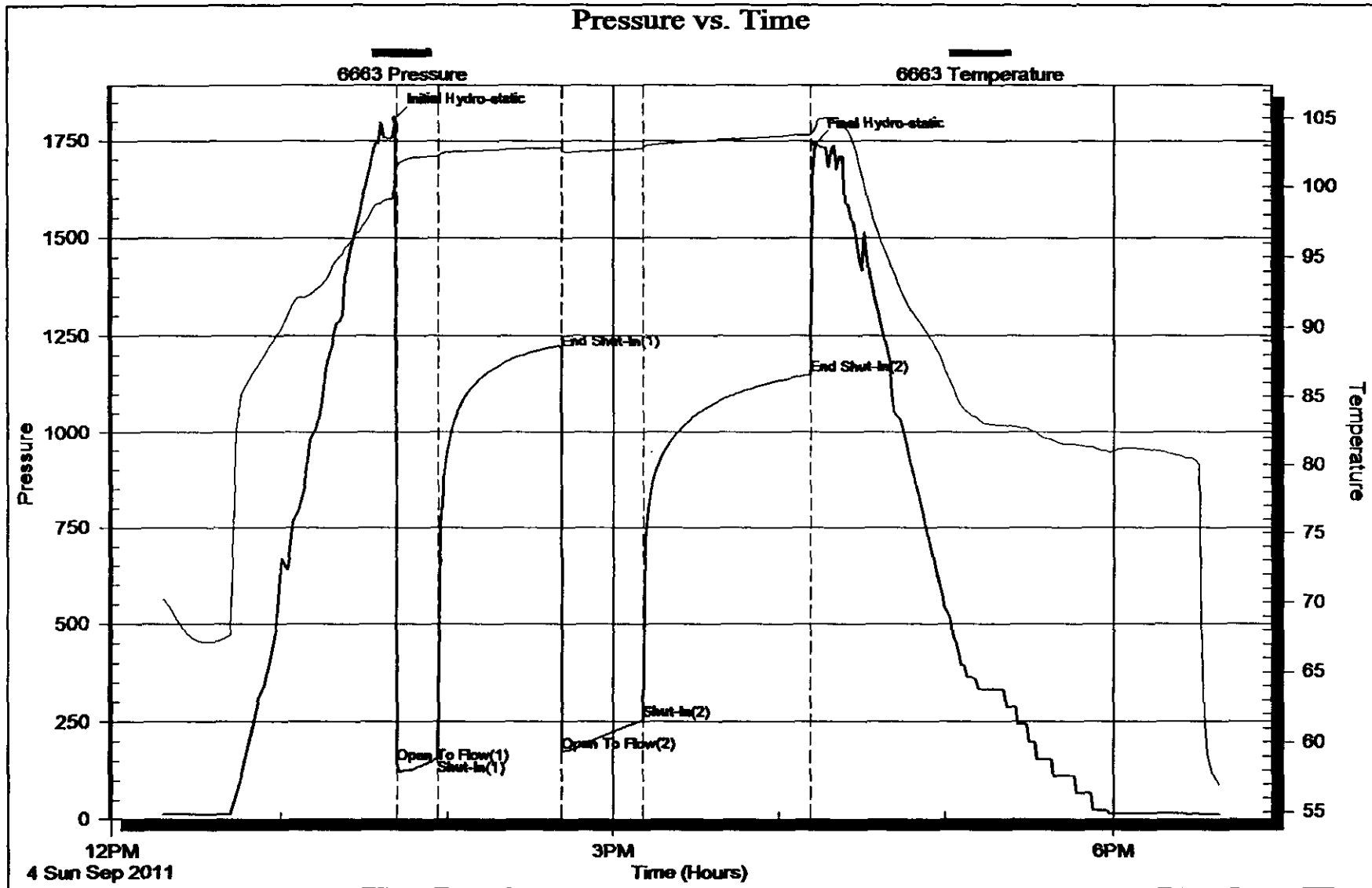
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 500.00 ppm			
Filter Cake: 1.00 inches			

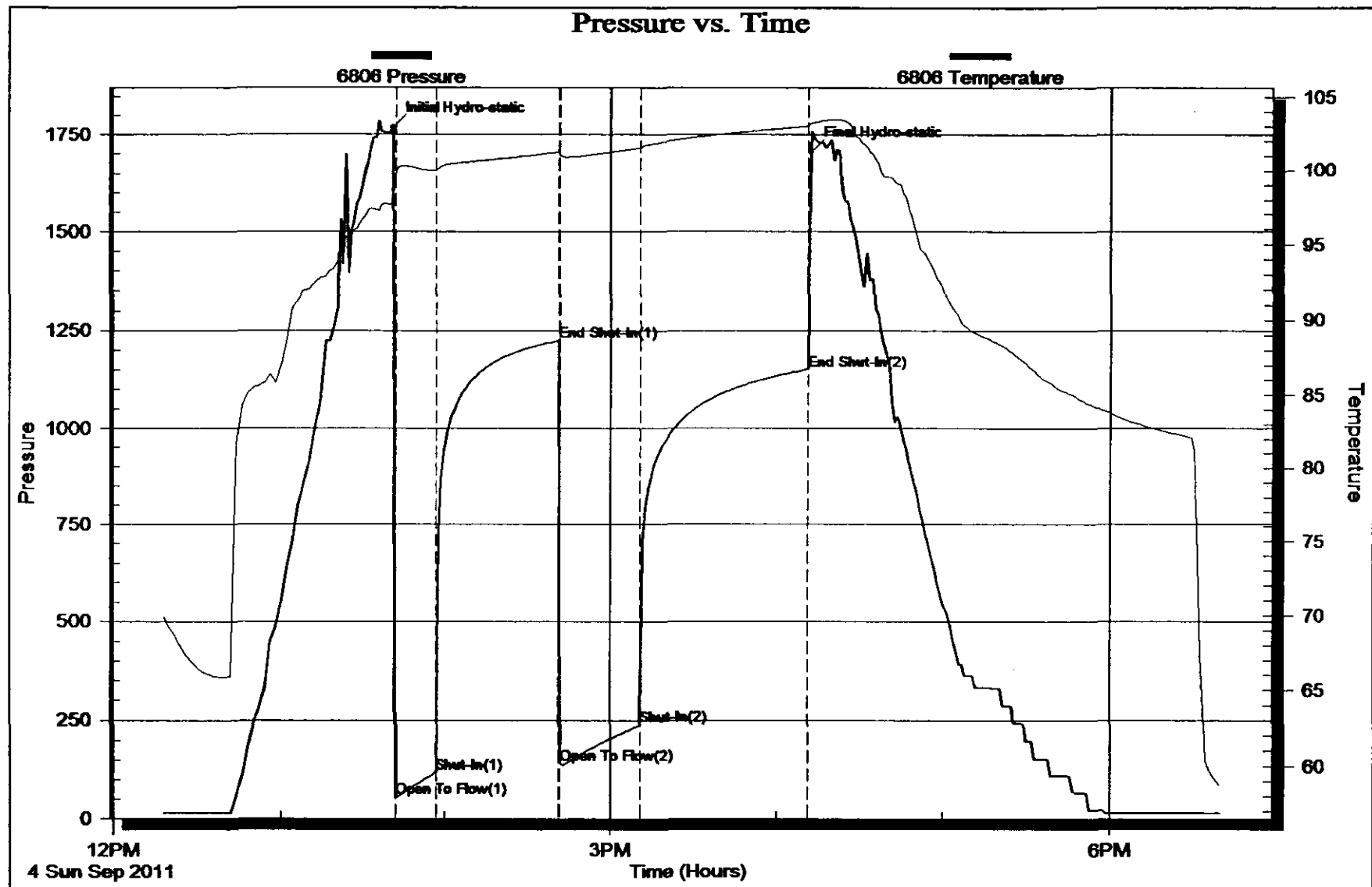
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Oil Cut Mud 90%Oil 10% Mud	0.842
622.00	Clean Oil 100% Oil	8.725
0.00	Gravity 32 Corrected	0.000

Total Length: 682.00 ft Total Volume: 9.567 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 North
700 wichita kansas 67278

ATTN: Jeff Christian

31-5s-24w Norton

#1Ninemire 31 AD

Start Date: 2011.09.04 @ 02:07:00

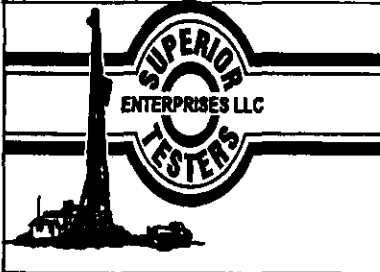
End Date: 2011.09.04 @ 08:09:30

Job Ticket #: 17209 DST #: 5

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

Printed: 2011.09.06 @ 18:31:43

Ritchie Exploration Inc. #1Ninemire 31 AD 31-5s-24w Norton DST # 5 Lansing H 2011.09.04



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w wichita kansas 67278
 ATTN: Jeff Christian

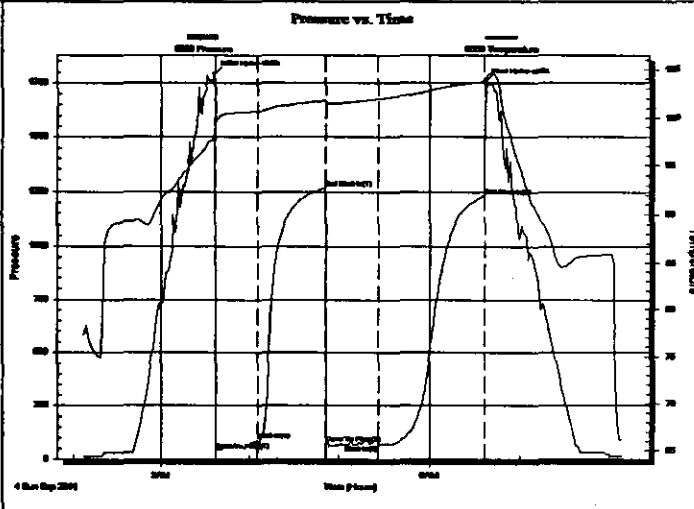
#1Ninemire 31 AD
31-5s-24w Norton
 Job Ticket: 17209 DST#: 5
 Test Start: 2011.09.04 @ 02:07:00

GENERAL INFORMATION:

Formation: **Lansing H**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:37:00
 Time Test Ended: 08:09:30
 Interval: **3617.00 ft (KB) To 3643.00 ft (KB) (TVD)**
 Total Depth: **3643.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-305
 Reference Elevations: 3534.00 ft (KB)
 3512.00 ft (CF)
 KB to GR/CF: 22.00 ft

Serial #: 6663 Outside
 Press@RunDepth: 67.58 psia @ 3640.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.09.04 End Date: 2011.09.04 Last Calib.: 2011.09.04
 Start Time: 02:07:00 End Time: 08:09:30 Time On Btm: 2011.09.04 @ 03:36:30
 Time Off Btm: 2011.09.04 @ 06:37:00

TEST COMMENT: 1st open 30 minutes Weak surface blow built to 2.5 inches into the bucket
 1st shut in 45 minutes No blow back
 2nd open 45 minutes Weak surface blow built to 1.5 inches into the bucket
 2nd shut in 60 minutes No blow back



PRESSURE SUMMARY

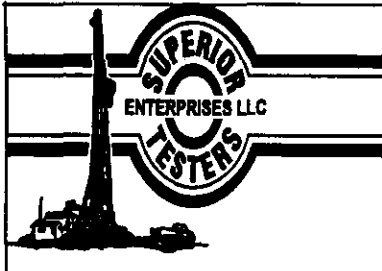
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1791.07	98.79	Initial Hydro-static
1	38.97	99.22	Open To Flow (1)
29	86.41	100.75	Shut-in(1)
75	1268.44	101.84	End Shut-in(1)
75	73.91	101.55	Open To Flow (2)
110	67.58	102.03	Shut-in(2)
181	1232.73	103.73	End Shut-in(2)
181	1754.09	103.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slightly Oil cut mud 5% Oil 95% Mud	0.84

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w ichita kansas 67278
 ATTN: Jeff Christian

#1Ninemire 31 AD
 31-5e-24w Norton
 Job Ticket: 17209 DST#: 5
 Test Start: 2011.09.04 @ 02:07:00

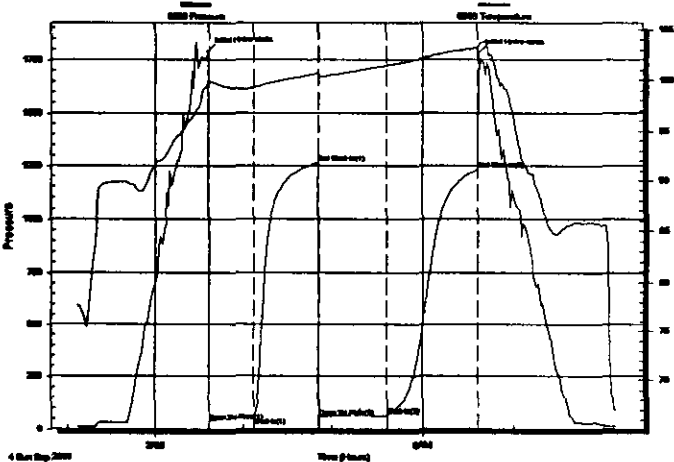
GENERAL INFORMATION:

Formation: Lansing H
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:37:00
 Time Test Ended: 08:09:30
 Interval: 3617.00 ft (KB) To 3643.00 ft (KB) (TVD)
 Total Depth: 3643.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: Dustin Ellis
 Unit No: 3315-GB-305
 Reference Elevations: 3534.00 ft (KB)
 3512.00 ft (CF)
 KB to GR/CF: 22.00 ft

Serial #: 6806 Inside
 Press@RunDepth: 1232.03 psia @ 3639.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.09.04 End Date: 2011.09.04 Last Calib.: 2011.09.04
 Start Time: 02:07:00 End Time: 08:09:30 Time On Btm: 2011.09.04 @ 03:36:30
 Time Off Btm:

TEST COMMENT: 1st open 30 minutes Weak surface blow built to 2.5 inches into the bucket
 1st shut in 45 minutes No blow back
 2nd open 45 minutes Weak surface blow built to 1.5 inches into the bucket
 2nd shut in 60 minutes No blow back

Pressure vs. Time



PRESSURE SUMMARY

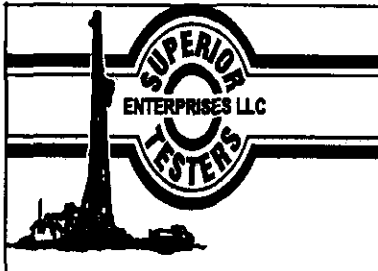
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1791.62	100.11	Initial Hydro-static
1	37.20	99.84	Open To Flow (1)
31	51.84	99.28	Shut-in(1)
74	1266.37	100.68	End Shut-in(1)
75	55.85	100.42	Open To Flow (2)
120	64.61	101.47	Shut-in(2)
180	1232.03	103.19	End Shut-in(2)
181	1784.00	103.40	Initial Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
60.00	Slightly Oil cut mud 5% Oil 95% Mud	0.84

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 wichita kansas 67278
 ATTN: Jeff Christian

#1Ninemire 31 AD
 31-5s-24w Norton
 Job Ticket: 17209 DST#: 5
 Test Start: 2011.09.04 @ 02:07:00

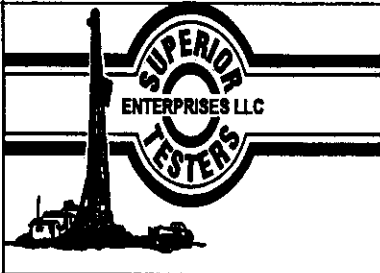
Tool Information

Drill Pipe:	Length: 3608.00 ft	Diameter: 3.80 inches	Volume: 50.61 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			<u>Total Volume: 50.61 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 34000.00 lb
Depth to Top Packer:	3617.00 ft			Final 36000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.25 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00			3602.00	
Hydrolic Tool	5.00			3607.00	
Packer	5.00			3612.00	20.00 Bottom Of Top Packer
Packer	5.00			3617.00	
Perforations	21.00			3638.00	
Recorder	1.00	6806	Inside	3639.00	
Recorder	1.00	6663	Outside	3640.00	
Bull Plug	3.00			3643.00	26.00 Bottom Packers & Anchor

Total Tool Length: 46.00



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w ichta kansas 67278
 ATTN: Jeff Christian

#1Ninemire 31 AD
 31-5s-24w Norton
 Job Ticket: 17209 DST#: 5
 Test Start: 2011.09.04 @ 02:07:00

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: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 700.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
60.00	Slightly Oil cut mud 5% Oil 95% Mud	0.842

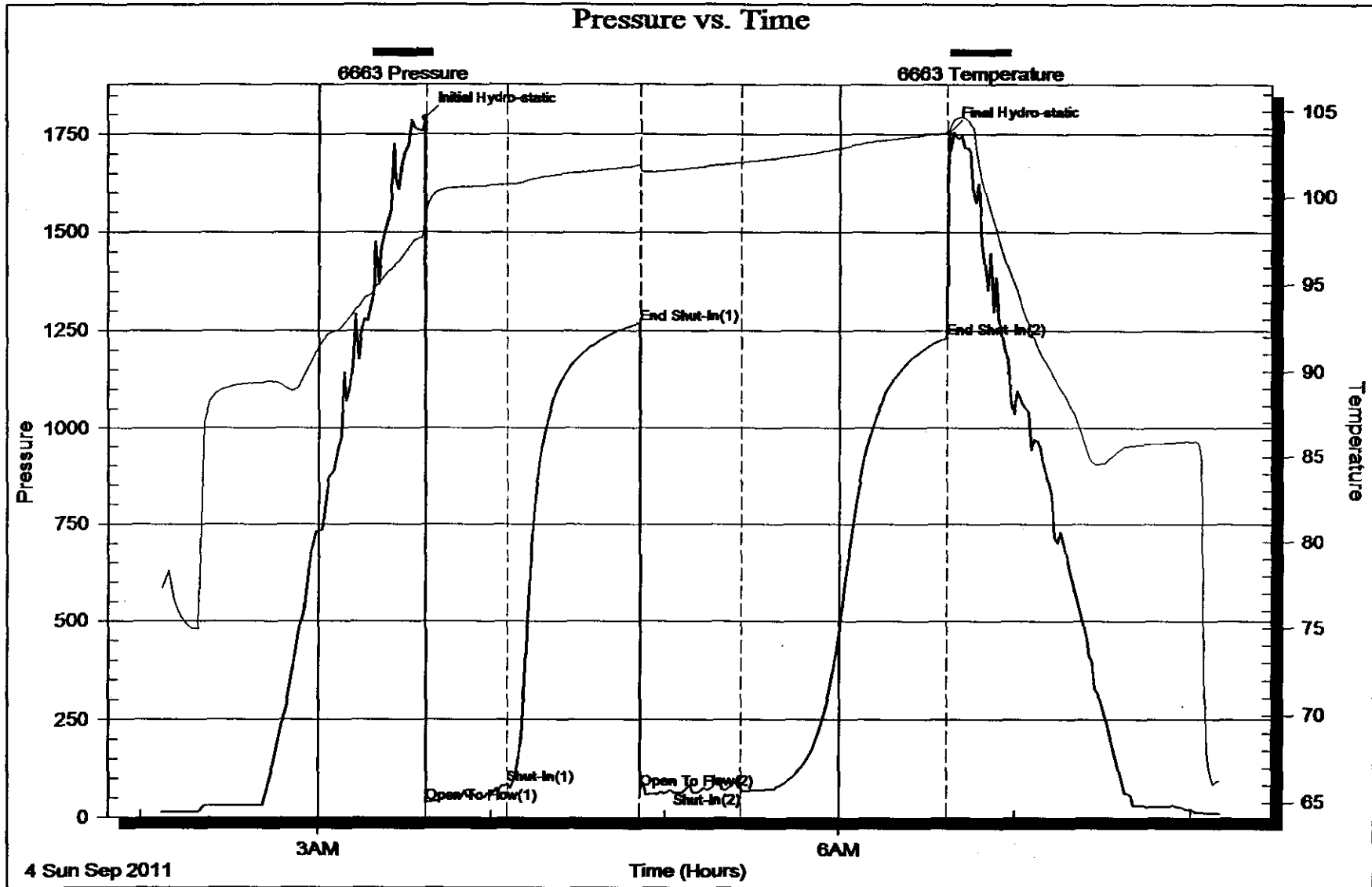
Total Length: 60.00 ft Total Volume: 0.842 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

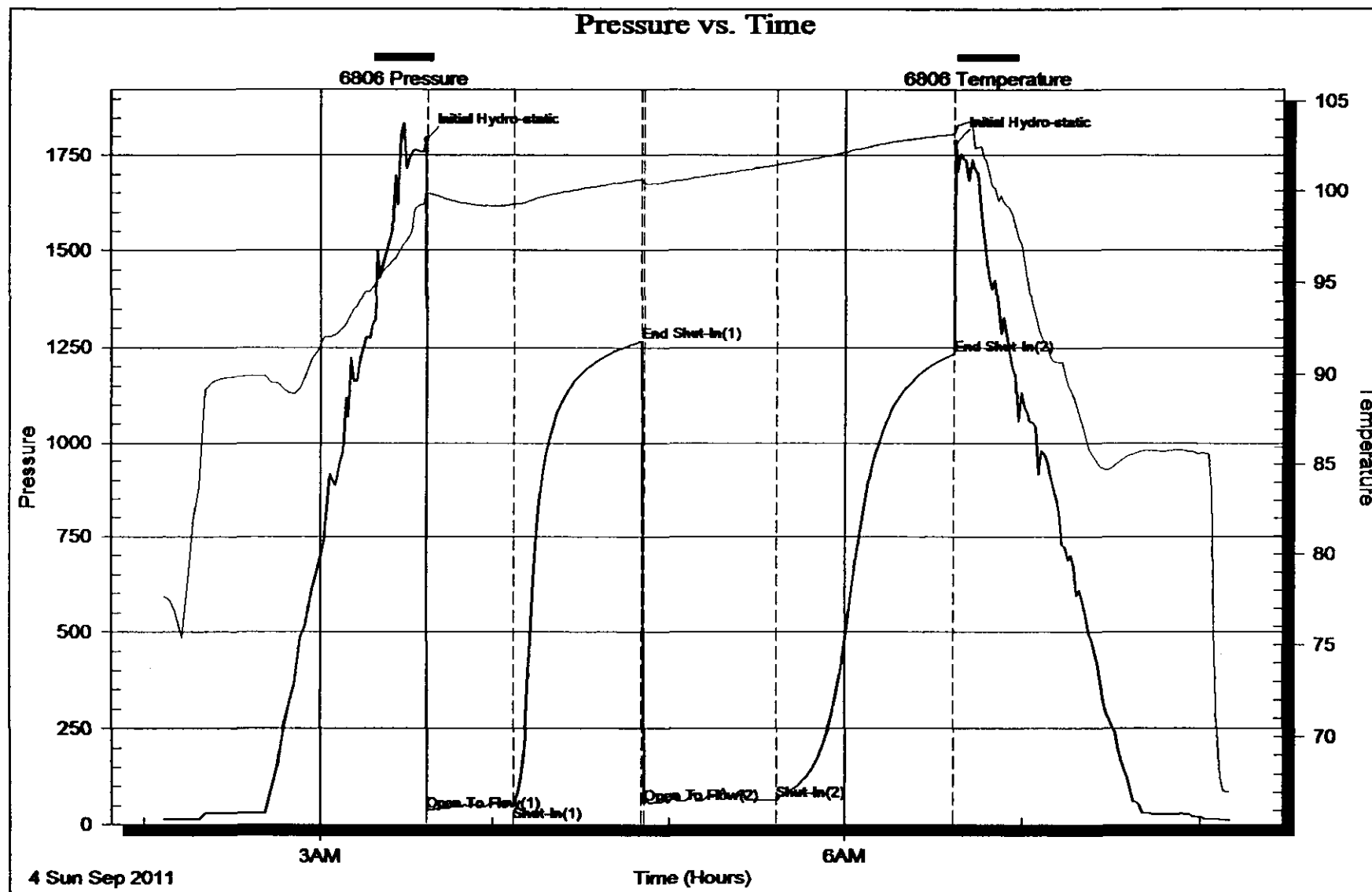
Serial #: 6663

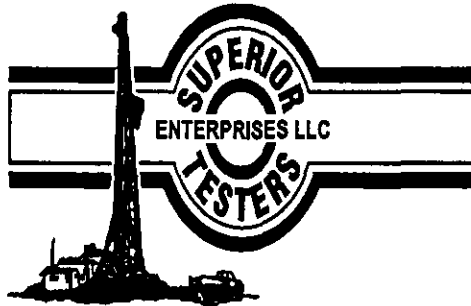
Outside Ritchie Exploration Inc.

31-5s-24w Norton

DST Test Number: 5







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc.**

8100 East 22nd street North
700 wichita kansas 67278

ATTN: Jeff Christian

31-5s-24w Norton

#1Ninemire 31 AD

Start Date: 2011.09.05 @ 03:22:00

End Date: 2011.09.05 @ 09:05:30

Job Ticket #: 17211 DST #: 6

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

Printed: 2011.09.06 @ 18:36:32

Ritchie Exploration Inc. #1Ninemire 31 AD 31-5s-24w Norton DST # 6 Lansing J 2011.09.05

DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 wichita kansas 67278
 ATTN: Jeff Christian

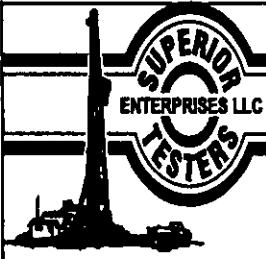
#1Ninemire 31 AD
 31-5s-24w Norton
 Job Ticket: 17211 DST#: 6
 Test Start: 2011.09.05 @ 03:22:00

Tool Information

Drill Pipe:	Length: 3634.00 ft	Diameter: 3.80 inches	Volume: 50.98 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 50000.00 lb
			Total Volume: 50.98 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 33000.00 lb
Depth to Top Packer:	3643.00 ft			Final 39000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-in Tool	5.00			3628.00	
Hydraulic Tool	5.00			3633.00	
Packer	5.00			3638.00	20.00 Bottom Of Top Packer
Packer	5.00			3643.00	
Perforations	24.00			3667.00	
Recorder	1.00	6806	Inside	3668.00	
Recorder	1.00	6663	Outside	3669.00	
Bull Plug	3.00			3672.00	29.00 Bottom Packers & Anchor
Total Tool Length:		49.00			



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc.
 8100 East 22nd street North
 700 w ichta kansas 67278
 ATTN: Jeff Christian

#1Ninemire 31 AD
 31-5s-24w Norton
 Job Ticket: 17211 DST#: 6
 Test Start: 2011.09.05 @ 03:22:00

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: 6.40 in*	Gas Cushion Type:		
Resistivity: 0.20 ohm.m	Gas Cushion Pressure: psia		
Salinity: 700.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	Slightly oil cut mud 5%oil 95%mud	1.683
60.00	Muddy Water 40%mud 60% w ater	0.842
60.00	Mud cut w ate 30% w ater 70%mud	0.842
0.00		0.000

Total Length: 240.00 ft Total Volume: 3.367 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

