

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

6/22/13

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 # 30606
Name: Murfin Drilling Co., Inc.
Wellsite Geologist: Ted Jochems
Purchaser: NCRA

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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 #:

3/20/11 3/30/11 3/30/11
Spud Date or 3/30/11 3/30/11 3/30/11
Recompletion Date Date Reached TD Completion Date or
Recompletion Date

API No. 15 - 063-21897-00-00
Spot Description: 51' N & 12' E
SW SW SE Sec. 17 Twp. 13 S. R. 31 East West
381 Feet from North / South Line of Section
2,298 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Gove
Lease Name: Nickelson 17D Well #: 1
Field Name:
Producing Formation: Johnson
Elevation: Ground: 2900 Kelly Bushing: 2910
Total Depth: 4670 Plug Back Total Depth: 4634
Amount of Surface Pipe Set and Cemented at: 222 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2361 Feet
If Alternate II completion, cement circulated from: 2361
feet depth to: surface w/ 310 sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 14400 ppm Fluid volume: 1000 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 #: JUN 22 2013

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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: 6/21/11

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 6/22/11 - 6/22/13
 Confidential Release Date:
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NJ Date: 6-27-11

Operator Name: Ritchie Exploration, Inc. Lease Name: Nickelson 17D Well #: 1
 Sec. 17 Twp. 13 S. R. 31 East West County: Gove

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 <i>(Attach Additional Sheets)</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log Formation (Top), Depth and Datum	<input checked="" type="checkbox"/> Sample
Samples Sent to Geological Survey	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top Datum
Cores Taken	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	SEE ATTACHED	
Electric Log Run	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Electric Log Submitted Electronically <i>(If no, Submit Copy)</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
List All E. Logs Run: Dual Induction Log Compensated Density/Neutron 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	4659	ASC	220	10% salt, 2% gel, 5#/sx gilsonite

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	4502.5' - 4507.5' (5/3/11)	500 gallons 15% NE	
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TUBING RECORD:	Size: <u>2-7/8"</u>	Set At: <u>4604</u>	Packer At:	Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>5/17/11</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>105.94</u>	Gas Mcf	Water Bbls. <u>0</u>	Gas-Oil Ratio <u>30.3</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input checked="" type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: CONFIDENTIAL <u>JUN 22 2013</u>
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RITCHIE

EXPLORATION, INC.
Wichita, Kansas

#1 Nickelson 17D

381' FSL & 2298' FEL

51' N & 12' E of SW SW SE Section 17-13S-31W

Gove County, Kansas

API# 15-063-21897-0000

Elevation: GL: 2900', KB: 2910'

<u>Sample Tops</u>			<u>Ref.</u>	<u>Well</u>
Anhydrite	2392'	+518	+1	
B/Anhydrite	2416'	+494	flat	
Heebner	3904'	-994	-11	
Lansing	3947'	-1037	-11	
Muncie Shale	4095'	-1185	-4	
Stark Shale	4176'	-1266	-3	
BKC	4251'	-1341	-7	
Pawnee	4378'	-1468	-3	
Myrick	4414'	-1504	-7	
Fort Scott	4434	-1524	-6	
Cherokee Shale	4460'	-1550	-5	
Johnson	4505'	-1595	-7	
Morrow Sand	4530'	-1620		
Mississippian	4550'	-1640	-5	
RTD	4670'	-1760		

le with 20 sacks.

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ALLIED CEMENTING CO., LLC. 043325

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

(Nickelson 170')

SERVICE POINT:
Oaklay, KS

DATE <i>3-30-11</i>	SEC. <i>17</i>	TWP. <i>13</i>	RANGE <i>31</i>	CALLED OUT	ON LOCATION	JOB START <i>2:00pm</i>	JOB FINISH <i>3:00pm</i>
LEASE <i>Nickelson 120</i>	WELL # <i>1</i>	LOCATION <i>Oaklay, KS 115 3 E 35 1E</i>			COUNTY <i>Gove</i>	STATE <i>K</i>	
OLD OR NEW (Circle one)							

CONTRACTOR *Murfum Drilling Rig #14*

TYPE OF JOB *Production*

HOLE SIZE *7 7/8* T.D. *4660*

CASING SIZE *4 1/2* DEPTH *4659*

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL *Port Collar* DEPTH *2365*

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT *21.66*

CEMENT LEFT IN CSG. *21.66*

PERFS.

DISPLACEMENT *75.06 Bbl*

OWNER *Same*

CEMENT

AMOUNT ORDERED *275 SKS ABC 10% salt*

5# Gilsomite 2% gel 740# 1% CD-31

COMMON @

POZMIX @

GEL *5 SKS @ 21.25 106.25*

CHLORIDE @

ASC *275 SKS @ 19.00 5225.00*

Salt 26 SKS @ 23.95 622.70

Gilsomite 1375# @ .89 1223.75

CD-31 193# @ 9.35 1804.55

WFR 2 500 gal @ 1.27 635.00

HANDLING *352 SKS @ 2.25 792.00*

MILEAGE *1145 kmile 626.96*

TOTAL *11666.62*

EQUIPMENT

PUMP TRUCK CEMENTER *LaReno / Andrew*

423/281 HELPER *Jeroy*

BULK TRUCK

394/306 DRIVER *Earl*

BULK TRUCK

DRIVER

REMARKS:

pump 5661 water, 500 gal WFR-2

500 gal water plug MHA 20% RH 30% K

mix 225 SKS ABC Down hole casing,

Wash pump & lines clean, Displace

plug #1 RT 1 and plug @ 1200'

float held

Thank you

SERVICE

DEPTH OF JOB *4659'*

PUMP TRUCK CHARGE *2405.00*

EXTRA FOOTAGE @

MILEAGE *18 miles X 2 @ 7.00 252.00*

MANIFOLD *Head Rental @ 200.00*

Light Vehicle 18 mi X 2 @ 4.00 144.00

TOTAL *3001.00*

CHARGE TO: *Ritchie Exploration*

STREET

CITY STATE ZIP

PLUG & FLOAT EQUIPMENT

1 Guide shoe 110.00

1 AFU insert @ 257.00

2 Turbo centralizers @ 59.00 406.00

4 Baskets @ 210.00 840.00

1 Port Collar @ 1649.00

1 Rubber plug @ 37.00

TOTAL *3351.00*

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 *Heather Annini*

SIGNATURE *[Signature]*

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

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ALLIED CEMENTING CO., LLC. 059894

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

SERVICE POINT:
Dodley KS

DATE <u>3/20/11</u>	SEC <u>17</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>2:50</u>	JOB FINISH <u>3:00</u>
LEASE <u>Nichols</u>	WELL # <u>1</u>	LOCATION <u>Dodley 115 3E 35</u>			COUNTY <u>Cowley</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>NEW</u>					

CONTRACTOR Murphy 14
 TYPE OF JOB Surf Seal
 HOLE SIZE 10 1/4 T.D. 222
 CASING SIZE 8 5/8 DEPTH 223
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 PERFS.
 DISPLACEMENT 12.2496

OWNER Same
 CEMENT AMOUNT ORDERED 175 Com 390cc 290 gel

EQUIPMENT
 PUMP TRUCK CEMENTER Alan
 # 422 HELPER Wayne
 BULK TRUCK
 # 404 DRIVER Terry
 BULK TRUCK
 # DRIVER

COMMON	<u>175</u>	@	<u>15.45</u>	<u>2703.75</u>
POZMIX		@	<u>20.00</u>	
GEL	<u>3</u>	@	<u>58.00</u>	<u>174.00</u>
CHLORIDE	<u>6</u>	@	<u>58.00</u>	<u>348.00</u>
ASC		@		
HANDLING	<u>184</u>	@	<u>2.40</u>	<u>441.60</u>
MILEAGE <u>10.92/mile</u>				<u>312.00</u>
TOTAL				<u>3869.75</u>

REMARKS:

Run 8 5/8 log Circulate, May cement
Displace cement
Cement did Circulate
Thank You Alan, Wayne, Terry

SERVICE

DEPTH OF JOB	<u>222'</u>		
PUMP TRUCK CHARGE			<u>1018.00</u>
EXTRA FOOTAGE		@	
MILEAGE <u>17</u>		@	<u>7.00</u>
MANIFOLD		@	
TOTAL			<u>1137.00</u>

CHARGE TO: Pitcher Exp
 STREET _____
 CITY _____ STATE _____ ZIP _____

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	

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 Greg Church
 SIGNATURE Greg Church

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

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ALLIED CEMENTING CO., LLC. 039833

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

SERVICE POINT:
OAKLEY

DATE <u>4-4-11</u>	SEC. <u>17</u>	TWP. <u>V35</u>	RANGE <u>31W</u>	CALLED OUT	ON LOCATION <u>11:00 AM</u>	JOB START <u>1:00 PM</u>	JOB FINISH <u>1:30 PM</u>
NICKELSON LEASE <u>17A</u>		WELL # <u>1</u>	LOCATION <u>OAKLEY 11S-3E-35-1E</u>		COUNTY <u>GOVE</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)							

CONTRACTOR EXPRESS WELL SERVICE OWNER SAME

TYPE OF JOB PORT COLLAR

HOLE SIZE _____ T.D. _____
 CASING SIZE 4 1/2" DEPTH _____
 TUBING SIZE 2 3/4" DEPTH 2360'
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

CEMENT
 AMOUNT ORDERED 500' Hulls
450 SKS 604002 68901 1/4" Flo-Seal

EQUIPMENT

PUMP TRUCK CEMENTER TERRY
 # 431 HELPER DAMEN
 BULK TRUCK
 # 394 DRIVER EAL
 BULK TRUCK
 # _____ DRIVER _____

COMMON	<u>186 SKS</u>	@ <u>16.25</u>	<u>3022.50</u>
POZMIX	<u>124 SKS</u>	@ <u>8.50</u>	<u>1054.00</u>
GEL	<u>16 SKS</u>	@ <u>21.25</u>	<u>340.00</u>
CHLORIDE		@ _____	_____
ASC		@ _____	_____
		@ _____	_____
		@ _____	_____
		@ _____	_____
		@ _____	_____
		@ _____	_____
		@ _____	_____
		@ _____	_____
		@ _____	_____
HANDLING	<u>475 SKS</u>	@ <u>2.25</u>	<u>1068.75</u>
MILEAGE	<u>114 PER SE / MILE</u>		<u>940.50</u>
TOTAL			<u>6827.75</u>

REMARKS:

Run Tubing to 2360'. Pressure system to 1200 PSI. Held. OPEN PORT COLLAR MAX 310 SKS 604002 68901 1/4" Flo-Seal with 300' Hulls. Displace 8000 GAL WATER. Close PORT COLLAR PRESSURE SYSTEM TO 1200 PSI. Held. Run 5 TB + Reverse out. Cement did circulate.

THANK YOU

CHARGE TO: RETCHER EXPLORATION
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>2360'</u>		
PUMP TRUCK CHARGE			<u>2125.00</u>
EXTRA FOOTAGE	@ _____		_____
MILEAGE	<u>18 X 2</u>	@ <u>7.00</u>	<u>252.00</u>
MANIFOLD	@ _____		_____
<u>Light Wellhead 13-2</u>	@ <u>4.00</u>		<u>144.00</u>
TOTAL			<u>2521.00</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 [Signature]

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

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[Signature]



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 22ND ST N #700 WICHITA KS
67278+3188

ATTN: TED JOCHEMS

17-13S-31W GOVE

NICKELSON 17D #1

Start Date: 2011.03.23 @ 18:33:00

End Date: 2011.03.24 @ 01:01:30

Job Ticket #: 15640 DST #: 1

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

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Printed: 2011.03.31 @ 12:10:15

RITCHIE EXPLORATION INC

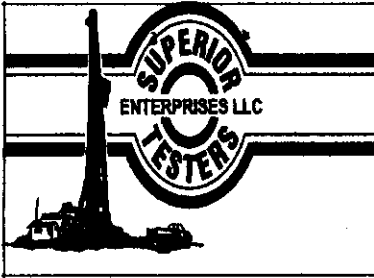
NICKELSON 17D #1

17-13S-31W GOVE

DST # 1

LANSING C ZONE

2011.03.23



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15640

DST#: 1

Test Start: 2011.03.23 @ 18:33:00

GENERAL INFORMATION:

Formation: **LANSING C ZONE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:12:30

Time Test Ended: 01:01:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY - 75

Interval: **3961.00 ft (KB) To 3994.00 ft (KB) (TVD)**

Reference Elevations: 2910.00 ft (KB)

Total Depth: 3994.00 ft (KB) (TVD)

2900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: **8524** Inside

Press@RunDepth: 192.48 psia @ 3990.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.23

End Date:

2011.03.24

Last Calib.: 2011.03.24

Start Time: 18:34:00

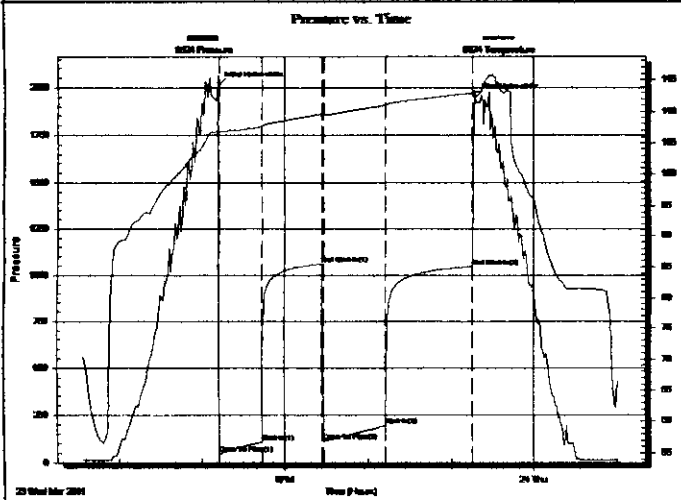
End Time:

01:01:30

Time On Btm: 2011.03.23 @ 20:12:00

Time Off Btm: 2011.03.23 @ 23:17:00

TEST COMMENT: 30/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 5 1/2 INCHES INTO WATER IN 30 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:WEAK BUT BUILDING BLOW BUILT 5 1/2 INCHES INTO WATER IN 45 MINUTES
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

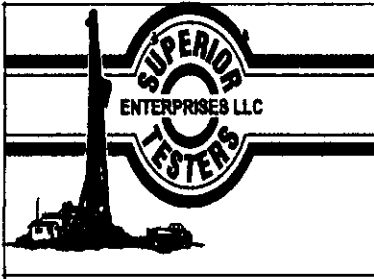
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2008.87	107.16	Initial Hydro-static
1	43.42	106.50	Open To Flow (1)
31	107.45	107.57	Shut-In(1)
75	1060.87	109.58	End Shut-In(1)
76	112.36	109.39	Open To Flow (2)
121	192.48	110.96	Shut-In(2)
184	1047.66	112.90	End Shut-In(2)
185	1949.31	112.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	MUDDY WATER 50%MUD 50%WATER	0.47
0.00	CHLORIDES 32,000	0.00
0.00	RESISTIVITY .35 @76	0.00

Gas Rates

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



DRILL STEM TEST REPORT

RITCHEE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15640

DST#: 1

Test Start: 2011.03.23 @ 18:33:00

GENERAL INFORMATION:

Formation: **LANSING C ZONE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:12:30

Time Test Ended: 01:01:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY - 75

Interval: **3961.00 ft (KB) To 3994.00 ft (KB) (TVD)**

Reference Elevations: 2910.00 ft (KB)

Total Depth: 3994.00 ft (KB) (TVD)

2900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: **8525**

Outside

Press@RunDepth: 1048.16 psia @ 3991.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.23

End Date:

2011.03.24

Last Calib.: 2011.03.24

Start Time: 18:34:00

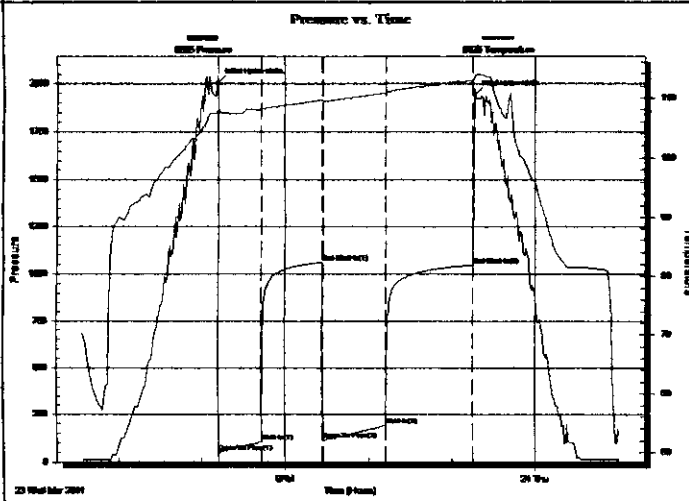
End Time:

01:01:00

Time On Btm: 2011.03.23 @ 20:12:00

Time Off Btm: 2011.03.23 @ 23:17:00

TEST COMMENT: 30/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 5 1/2 INCHES INTO WATER IN 30 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:WEAK BUT BUILDING BLOW BUILT 5 1/2 INCHES INTO WATER IN 45 MINUTES
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

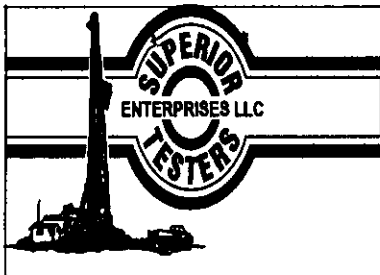
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2008.97	108.04	Initial Hydro-static
1	48.38	107.20	Open To Flow (1)
31	105.99	108.04	Shut-in(1)
75	1061.42	109.68	End Shut-in(1)
76	114.15	109.47	Open To Flow (2)
121	192.59	110.87	Shut-in(2)
184	1048.16	112.96	End Shut-in(2)
185	1948.72	113.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	MUDDY WATER 50%MUD 50%WATER	0.47
0.00	CHLORIDES 32,000	0.00
0.00	RESISTIVITY .35 @76	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700 WICHITA KS 67278+3188
 ATTN: TED JOCHEMS

NICKELSON 17D #1
17-13S-31W GOVE
 Job Ticket: 15640 **DST#: 1**
 Test Start: 2011.03.23 @ 18:33:00

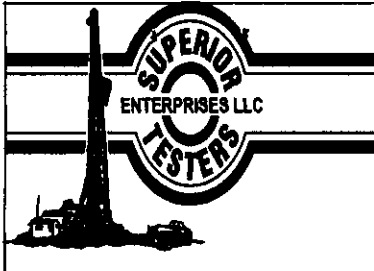
Tool Information

Drill Pipe:	Length: 3382.00 ft	Diameter: 3.80 inches	Volume: 47.44 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 580.00 ft	Diameter: 2.25 inches	Volume: 2.85 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 50.29 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	3961.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	33.00 ft			
Tool Length:	62.00 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			3933.00	
Shut-In Tool	5.00			3938.00	
Hydrolic Tool	5.00			3943.00	
Jars	6.00			3949.00	
Safety Joint	2.00			3951.00	
Packer	5.00			3956.00	29.00 Bottom Of Top Packer
Packer	5.00			3961.00	
Perforations	28.00			3989.00	
Recorder	1.00	8524	Inside	3990.00	
Recorder	1.00	8525	Outside	3991.00	
Bullnose	3.00			3994.00	33.00 Bottom Packers & Anchor

Total Tool Length: 62.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15640

DST#: 1

Test Start: 2011.03.23 @ 18:33:00

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: 6.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 1800.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	MUDDY WATER 50%MUD 50%WATER	0.467
0.00	CHLORIDES 32,000	0.000
0.00	RESISTIVITY .35 @76	0.000

Total Length: ft Total Volume: 1.967 bbl

Num Fluid Samples: 0

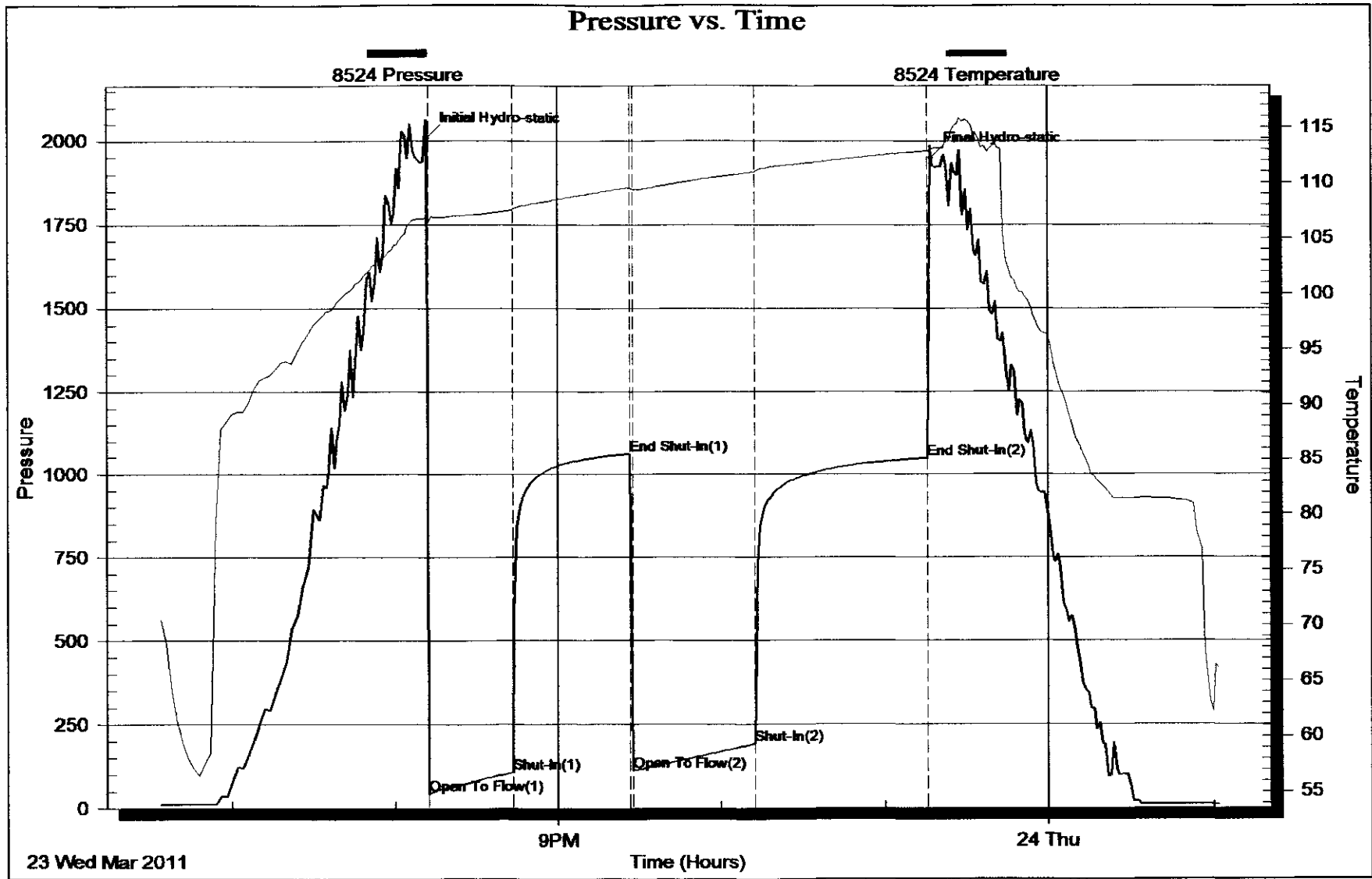
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

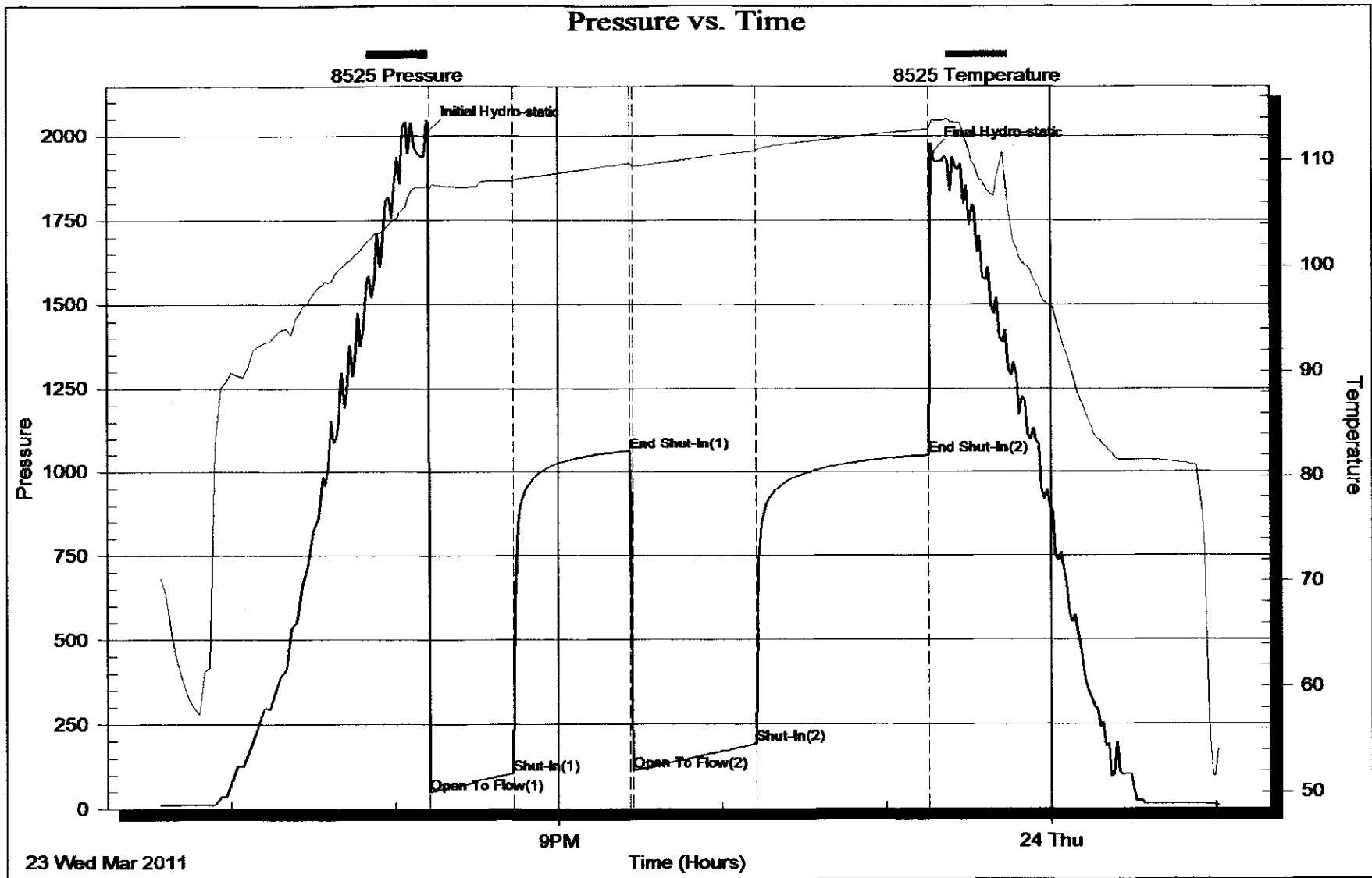


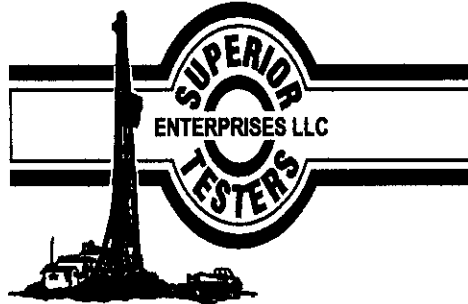
Serial #: 8525

Outside RITCHIE EXPLORATION INC

17-13S-31W GOVE

DST Test Number: 1





DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 22ND ST N #700 WICHITA KS
67278+3188

ATTN: TED JOCHEMS

17-13S-31W GOVE

NICKELSON 17D #1

Start Date: 2011.03.24 @ 18:54:00

End Date: 2011.03.25 @ 01:41:00

Job Ticket #: 15641 DST #: 2

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

Printed: 2011.03.31 @ 12:10:02

RITCHIE EXPLORATION INC

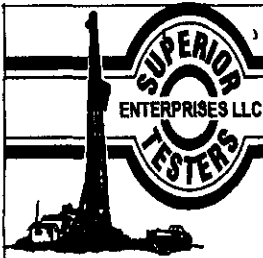
NICKELSON 17D #1

17-13S-31W GOVE

DST # 2

LANSING H ZONE

2011.03.24



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15641

DST#: 2

Test Start: 2011.03.24 @ 18:54:00

GENERAL INFORMATION:

Formation: **LANSING H ZONE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:30:30

Time Test Ended: 01:41:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-75-SCOTT CITY

Interval: **4089.00 ft (KB) To 4120.00 ft (KB) (TVD)**

Reference Elevations: 2910.00 ft (KB)

Total Depth: 4120.00 ft (KB) (TVD)

2900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: **8524**

Inside

Press@RunDepth: 623.34 psia @ 4116.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.24

End Date:

2011.03.25

Last Calib.: 2011.03.25

Start Time: 18:55:00

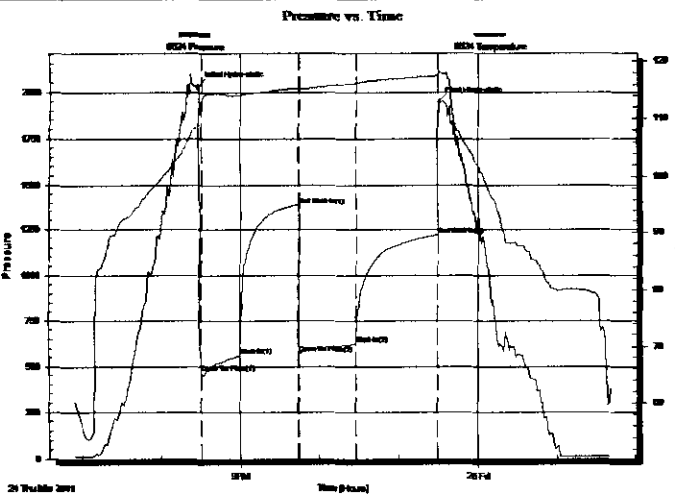
End Time:

01:41:00

Time On Btm: 2011.03.24 @ 20:28:30

Time Off Btm: 2011.03.24 @ 23:30:00

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:FAIR BLOW BUILT 2 INCHES FROM BOTTOM OF BUCKET IN 45 MINUTES
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

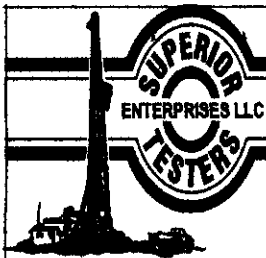
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2036.32	109.21	Initial Hydro-static
2	467.26	113.31	Open To Flow (1)
32	559.14	114.08	Shut-in(1)
76	1389.97	115.35	End Shut-in(1)
76	574.46	115.16	Open To Flow (2)
119	623.34	116.18	Shut-in(2)
181	1218.07	117.36	End Shut-in(2)
182	1952.61	118.01	Final Hydro-static

Recovery

Length (ft)	Description	Volume (tbl)
1330.00	MUDDY WATER 35%MUD 55%WATER	10.52
0.00	CHLORIDES 35,000	0.00
0.00	RESISTIVITY .35 @76 DEGREES	0.00

Gas Rates

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WCHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15641

DST#: 2

Test Start: 2011.03.24 @ 18:54:00

GENERAL INFORMATION:

Formation: **LANSING H ZONE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:30:30

Time Test Ended: 01:41:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-75-SCOTT CITY

Interval: **4089.00 ft (KB) To 4120.00 ft (KB) (TVD)**

Reference Elevations: 2910.00 ft (KB)

Total Depth: 4120.00 ft (KB) (TVD)

2900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Poor

KB to GR/CF: 10.00 ft

Serial #: 8525

Outside

Press@RunDepth: 1218.61 psia @ 4117.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.24

End Date:

2011.03.25

Last Calib.: 2011.03.25

Start Time: 18:55:00

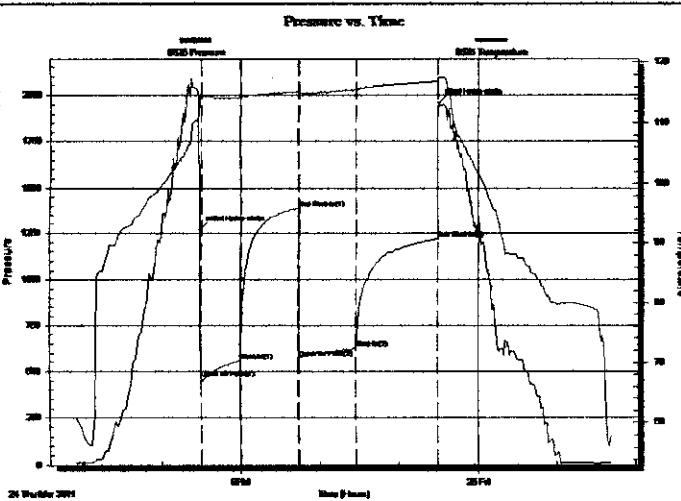
End Time:

01:41:30

Time On Btm: 2011.03.24 @ 20:29:00

Time Off Btm: 2011.03.24 @ 23:30:00

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:FAIR BLOW BUILT 2 INCHES FROM BOTTOM OF BUCKET IN 45 MINUTES
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

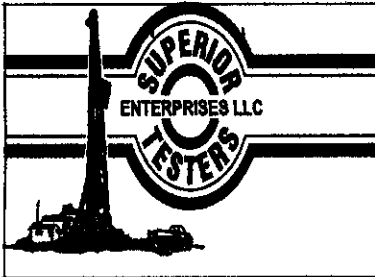
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1270.35	113.86	Initial Hydro-static
2	466.65	114.54	Open To Flow (1)
32	559.80	114.26	Shut-in(1)
75	1392.42	115.24	End Shut-in(1)
76	575.40	114.94	Open To Flow (2)
119	623.92	115.58	Shut-in(2)
180	1218.61	116.87	End Shut-in(2)
181	1957.10	117.50	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1330.00	MUDDY WATER 35%MUD 55%WATER	10.52
0.00	CHLORIDES 35,000	0.00
0.00	RESISTIVITY .35 @76 DEGREES	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WCHITA KS 67278+3188

17-13S-31W GOVE

Job Ticket: 15641

DST#: 2

ATTN: TED JOCHEMS

Test Start: 2011.03.24 @ 18:54:00

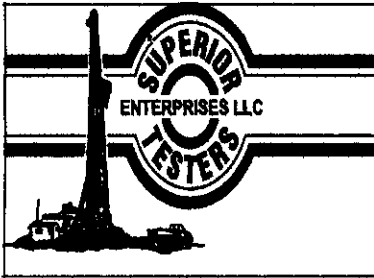
Tool Information

Drill Pipe:	Length: 3509.00 ft	Diameter: 3.80 inches	Volume: 49.22 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 580.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 49.22 bbl</u>	Tool Chased 4.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 82000.00 lb
Depth to Top Packer:	4089.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4061.00	
Shut-In Tool	5.00			4066.00	
Hydraulic Tool	5.00			4071.00	
Jars	6.00			4077.00	
Safety Joint	2.00			4079.00	
Packer	5.00			4084.00	29.00 Bottom Of Top Packer
Packer	5.00			4089.00	
Perforations	26.00			4115.00	
Recorder	1.00	8524	Inside	4116.00	
Recorder	1.00	8525	Outside	4117.00	
Bullnose	3.00			4120.00	31.00 Bottom Packers & Anchor

Total Tool Length: 60.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

Job Ticket: 15641

DST#: 2

ATTN: TED JOCHEMS

Test Start: 2011.03.24 @ 18:54:00

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: 7.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1330.00	MUDDY WATER 35%MUD 55%WATER	10.521
0.00	CHLORIDES 35,000	0.000
0.00	RESISTIVITY .35 @76 DEGREES	0.000

Total Length: 1330.00 ft Total Volume: 10.521 bbl

Num Fluid Samples: 0

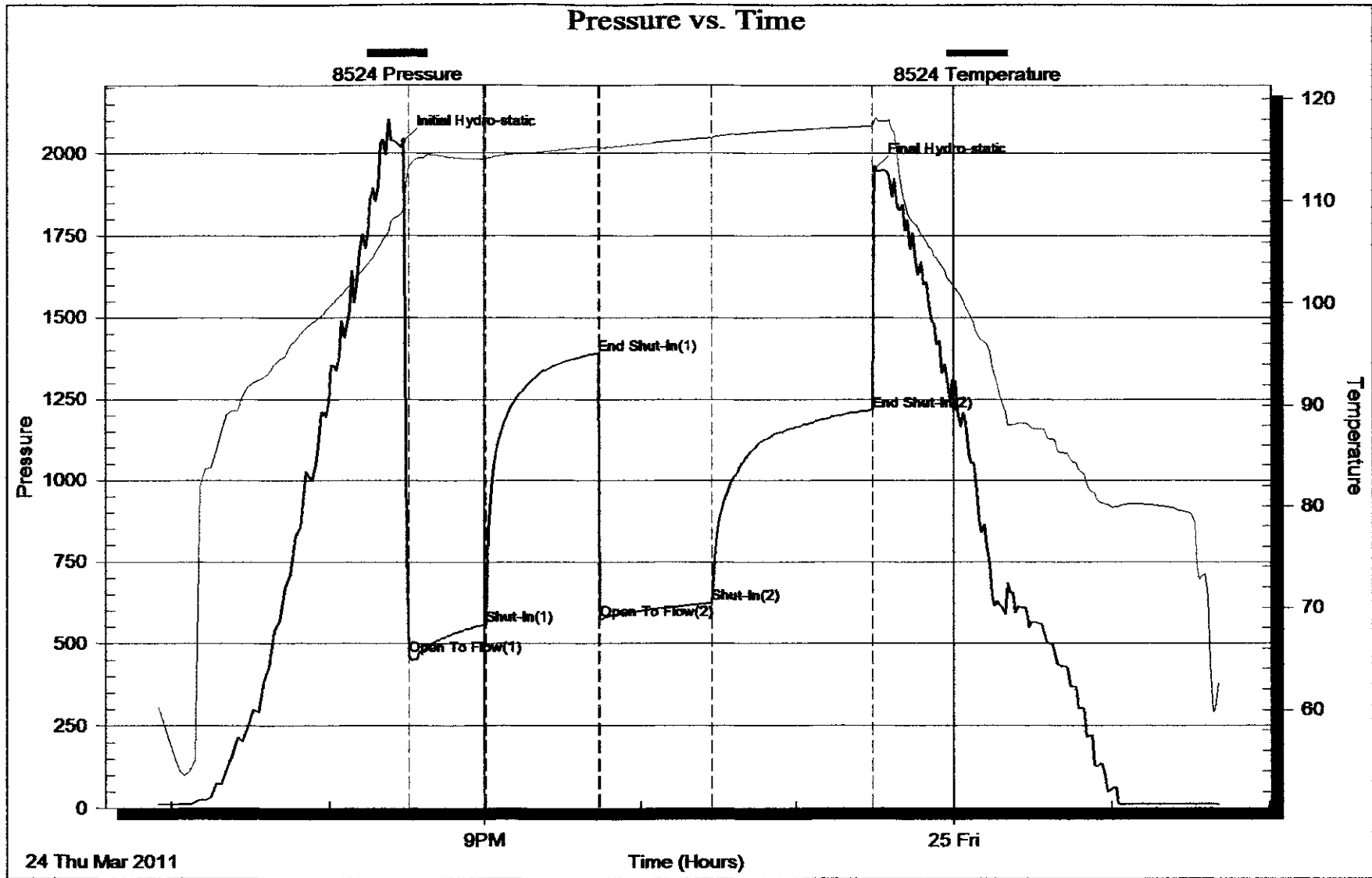
Num Gas Bombs: 0

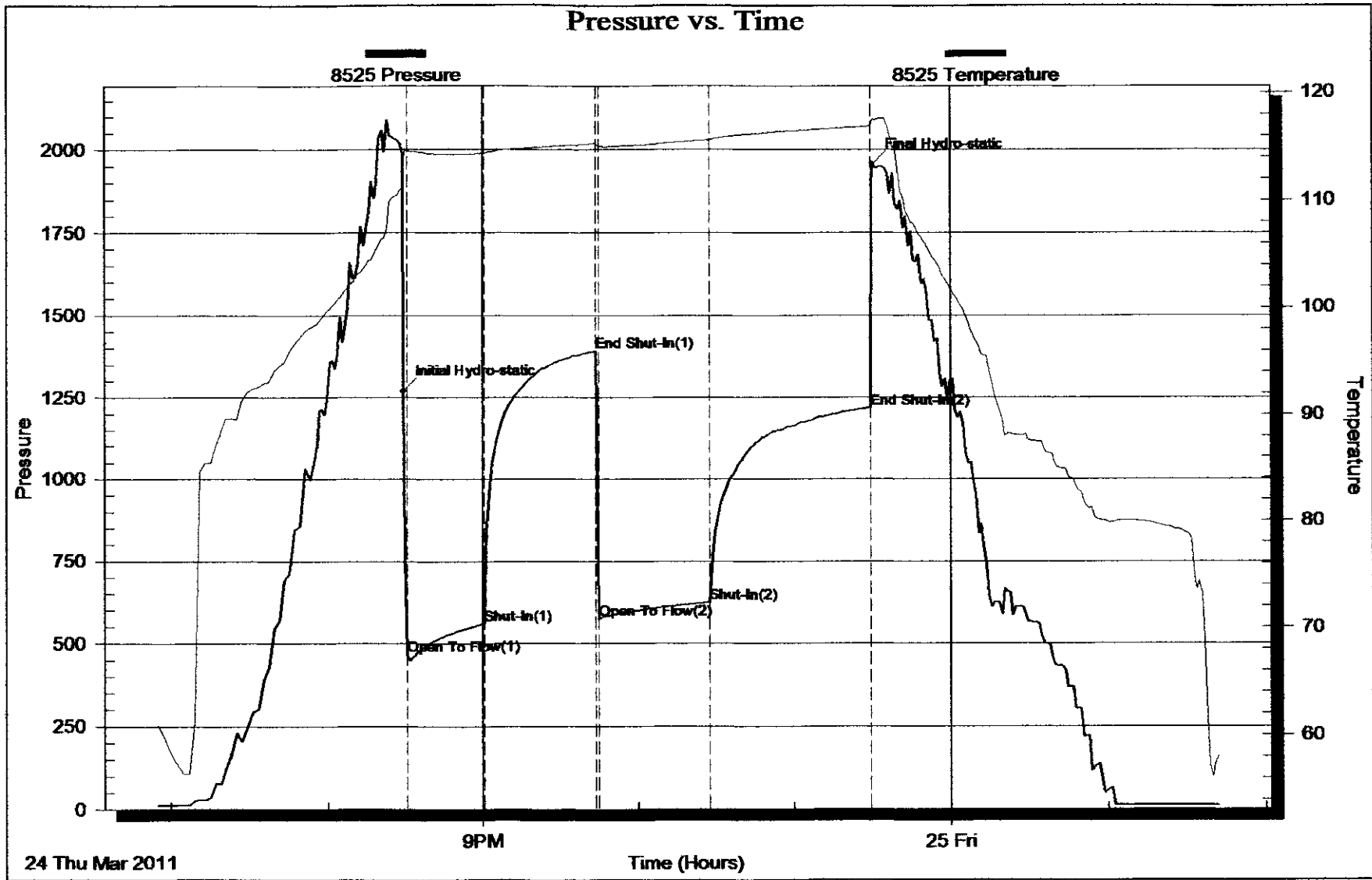
Serial #:

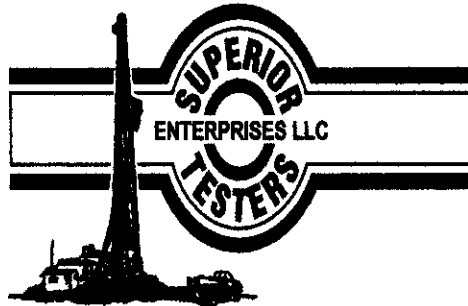
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 22ND ST N #700 WICHITA KS
67278+3188

ATTN: TED JOCHEMS

17-13S-31W GOVE

NICKELSON 17D #1

Start Date: 2011.03.25 @ 10:25:00

End Date: 2011.03.25 @ 17:08:30

Job Ticket #: 15642 DST #: 3

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

Printed: 2011.03.31 @ 12:12:25

RITCHIE EXPLORATION INC

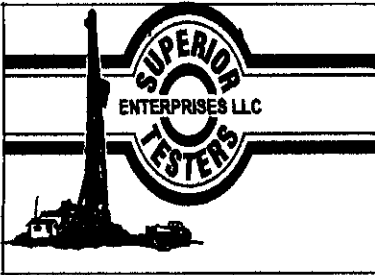
NICKELSON 17D #1

17-13S-31W GOVE

DST # 3

LKC I ZONE

2011.03.25



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700 WICHITA KS 67278+3188
 ATTN: TED JOCHEMS

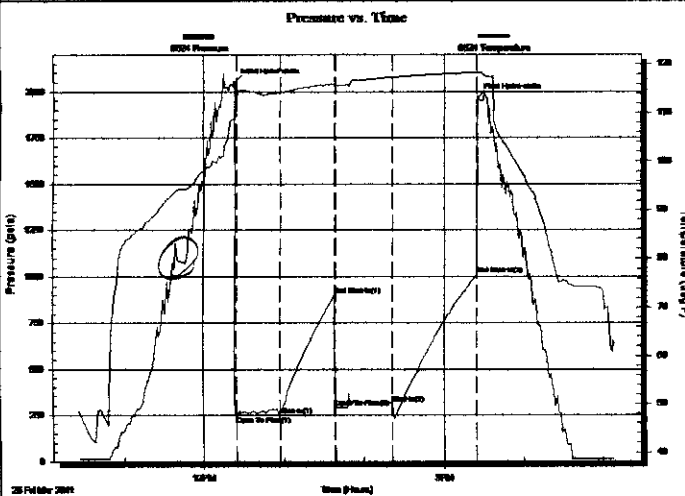
NICKELSON 17D #1
17-13S-31W GOVE
 Job Ticket: 15642 **DST#: 3**
 Test Start: 2011.03.25 @ 10:25:00

GENERAL INFORMATION:

Formation: **LKC I ZONE**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 12:24:30
 Time Test Ended: 17:08:30
 Interval: **4120.00 ft (KB) To 4148.00 ft (KB) (TVD)**
 Total Depth: **4148.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: **JARED SCHECK**
 Unit No: **3320-SCOTT CITY-75**
 Reference Elevations: **2910.00 ft (KB)**
2900.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 8524 Inside
 Press@RunDepth: **309.90 psia @ 4144.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.03.25** End Date: **2011.03.25** Last Calib.: **2011.03.25**
 Start Time: **10:26:00** End Time: **17:08:30** Time On Btm: **2011.03.25 @ 12:23:00**
 Time Off Btm: **2011.03.25 @ 15:25:30**

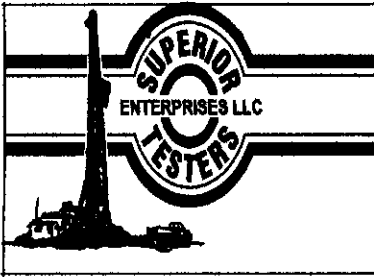
TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES
 45/INITIAL SHUT IN: NO BLOW BACK
 45/FINAL OPEN VERY WEAK SURGE DID NOT BUILD FLUSHED TOOL 10 MINUTES INTO OPEN BLOW DIED
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2049.92	108.69	Initial Hydro-static
2	196.44	112.74	Open To Flow (1)
34	247.24	114.21	Shut-in(1)
75	901.55	115.99	End Shut-in(1)
76	288.09	115.80	Open To Flow (2)
119	309.90	117.33	Shut-in(2)
182	1010.87	118.34	End Shut-in(2)
183	1969.22	118.26	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
580.00	MUD	2.85

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15642

DST#: 3

Test Start: 2011.03.25 @ 10:25:00

GENERAL INFORMATION:

Formation: **LKC I ZONE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 12:24:30

Time Test Ended: 17:08:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY-75

Interval: **4120.00 ft (KB) To 4148.00 ft (KB) (TVD)**

Reference Elevations: 2910.00 ft (KB)

Total Depth: 4148.00 ft (KB) (TVD)

2900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8525

Outside

Press@RunDepth: 1010.85 psia @ 4145.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.25

End Date:

2011.03.25

Last Calib.: 2011.03.25

Start Time: 10:26:00

End Time:

17:09:00

Time On Btm: 2011.03.25 @ 12:23:00

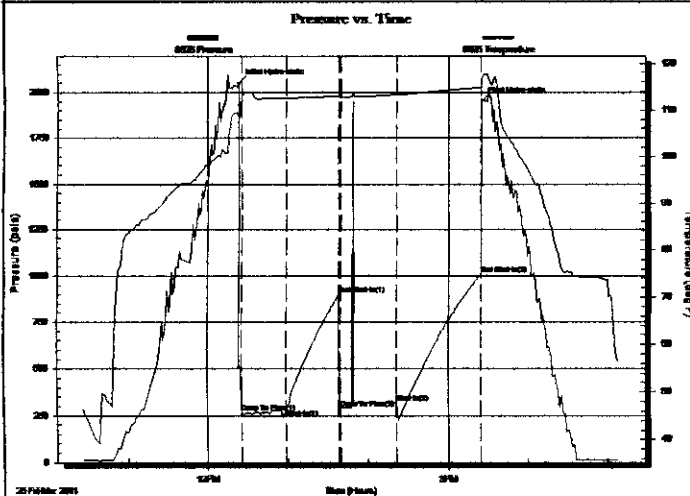
Time Off Btm: 2011.03.25 @ 15:25:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 2 MINUTES

45/INITIAL SHUT IN: NO BLOW BACK

45/FINAL OPEN VERY WEAK SURGE DID NOT BUILD FLUSHED TOOL 10 MINUTES INTO OPEN BLOW DIED

60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

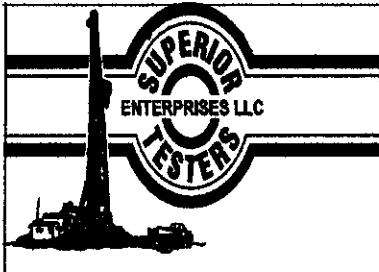
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2051.96	108.47	Initial Hydro-static
3	269.87	113.20	Open To Flow (1)
36	282.35	112.61	Shut-in(1)
75	901.38	113.07	End Shut-in(1)
76	287.86	112.88	Open To Flow (2)
119	317.96	113.36	Shut-in(2)
182	1010.85	114.88	End Shut-in(2)
183	1955.59	116.92	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
580.00	MUD	2.85

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15642

DST#: 3

Test Start: 2011.03.25 @ 10:25:00

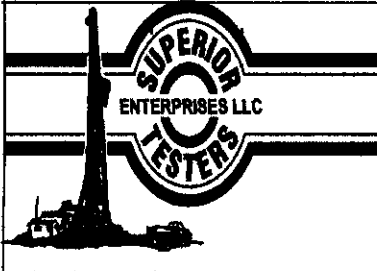
Tool Information

Drill Pipe:	Length: 3540.00 ft	Diameter: 3.80 inches	Volume: 49.66 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 580.00 ft	Diameter: 2.25 inches	Volume: 2.85 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 52.51 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	29.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4120.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	57.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4092.00	
Shut-In Tool	5.00			4097.00	
Hydraulic Tool	5.00			4102.00	
Jars	6.00			4108.00	
Safety Joint	2.00			4110.00	
Packer	5.00			4115.00	29.00 Bottom Of Top Packer
Packer	5.00			4120.00	
Perforations	23.00			4143.00	
Recorder	1.00	8524	Inside	4144.00	
Recorder	1.00	8525	Outside	4145.00	
Bullnose	3.00			4148.00	28.00 Bottom Packers & Anchor

Total Tool Length: 57.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15642

DST#: 3

Test Start: 2011.03.25 @ 10:25:00

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: 57.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
580.00	MUD	2.852

Total Length: 580.00 ft Total Volume: 2.852 bbl

Num Fluid Samples: 0

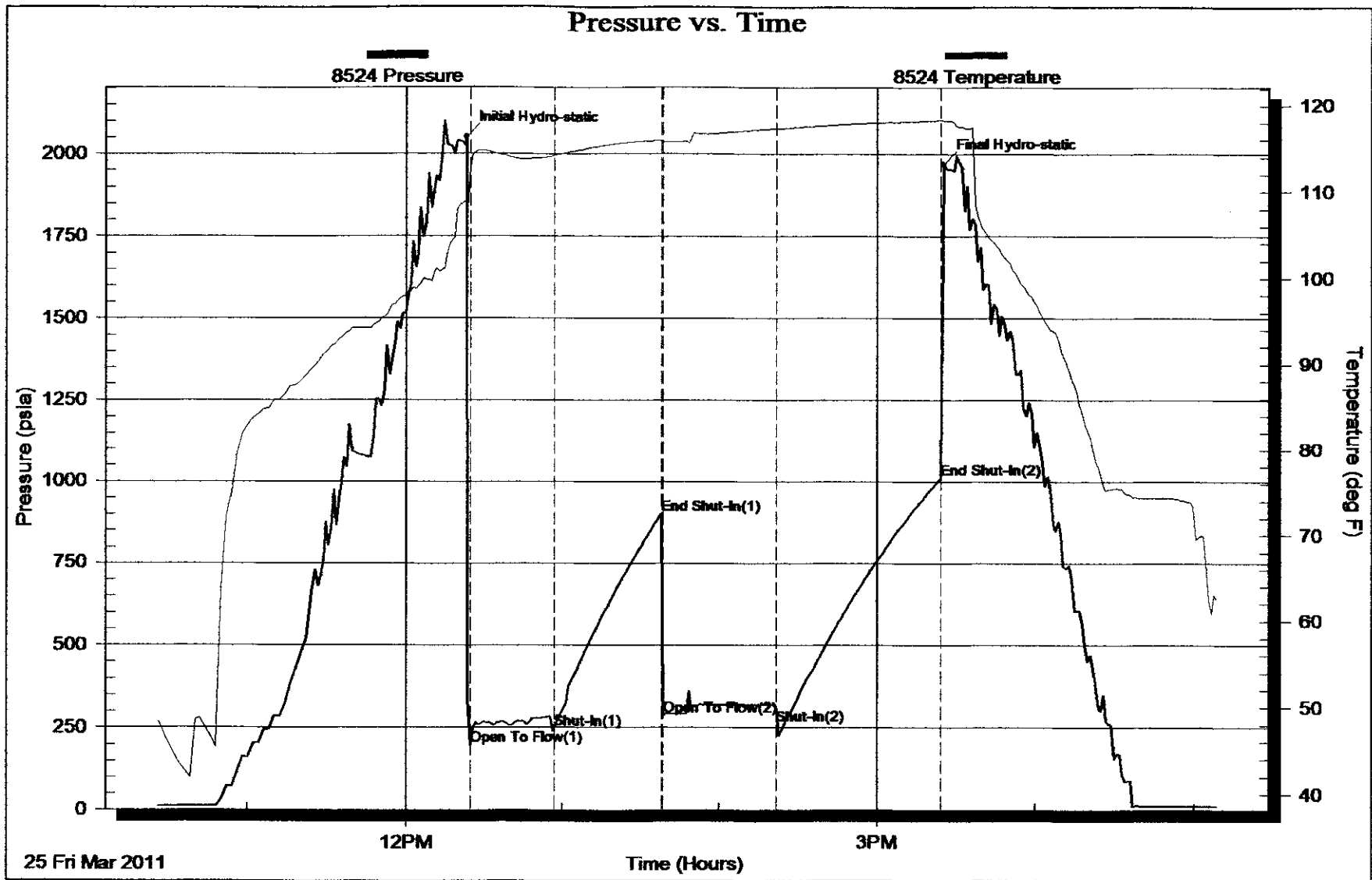
Num Gas Bombs: 0

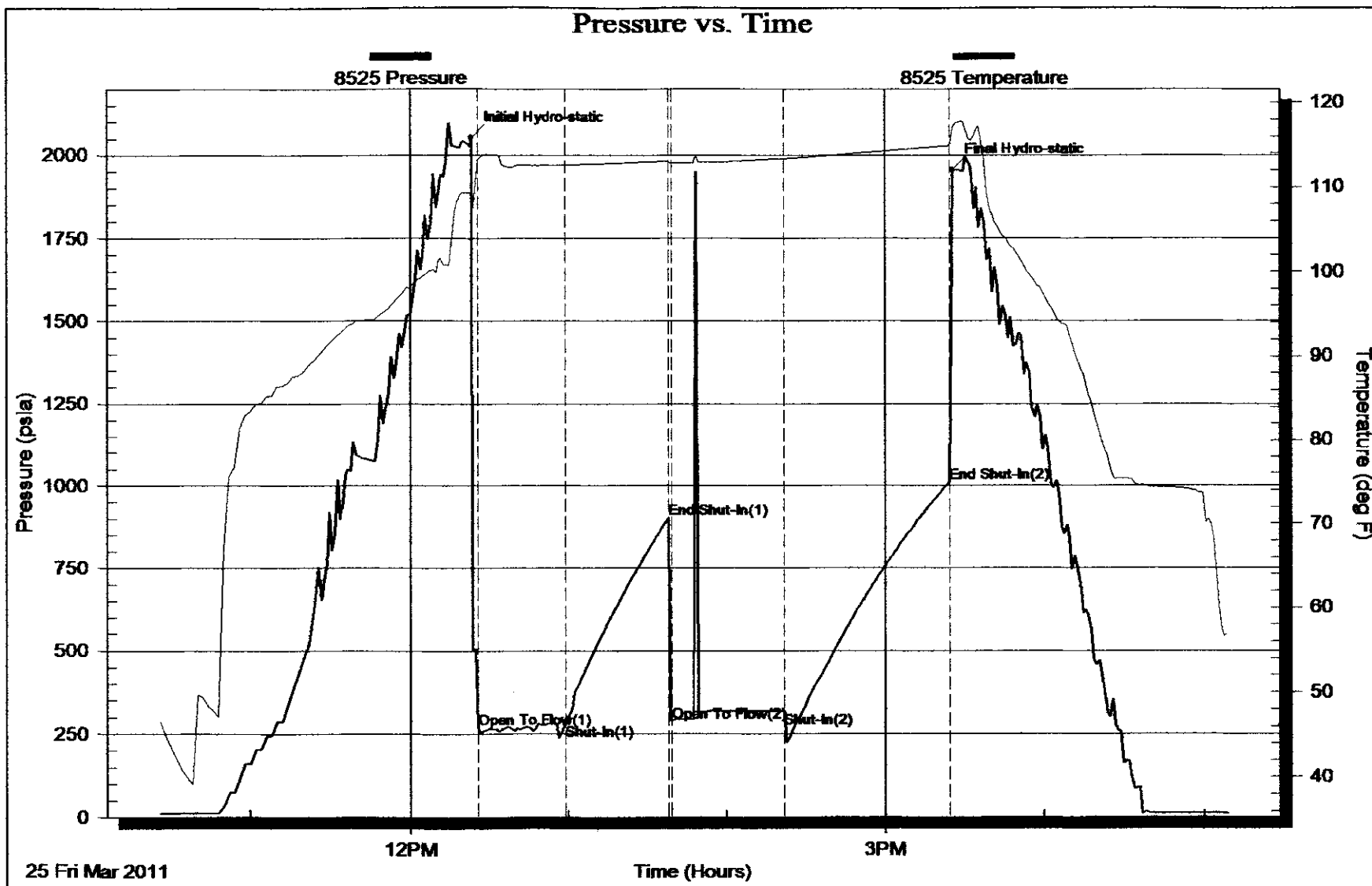
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**
8100 E 22ND ST N #700 WICHITA KS
67278+3188

ATTN: TED JOCHEMS

17-13S-31W GOVE

NICKELSON 17D #1

Start Date: 2011.03.25 @ 01:22:00
End Date: 2011.03.25 @ 08:08:00
Job Ticket #: 15643 DST #: 4

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

Printed: 2011.03.31 @ 12:08:40

RITCHIE EXPLORATION INC

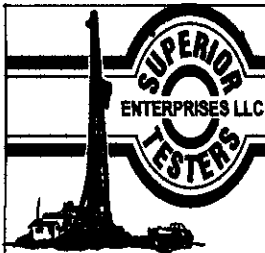
NICKELSON 17D #1

17-13S-31W GOVE

DST # 4

LANSING KC I, J Z

2011.03.25



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15643

DST#: 4

Test Start: 2011.03.25 @ 01:22:00

GENERAL INFORMATION:

Formation: LANSING KC I, J Z

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:12:30

Time Test Ended: 08:08:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320- SCOTT CITY -75

Interval: 4119.00 ft (KB) To 4174.00 ft (KB) (TVD)

Total Depth: 4174.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2910.00 ft (KB)

2900.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8524

Inside

Press@RunDepth: 87.16 psia @ 4170.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.25

End Date:

2011.03.25

Last Calib.:

2011.03.26

Start Time: 01:23:00

End Time:

08:08:00

Time On Btm:

2011.03.25 @ 03:11:00

Time Off Btm:

2011.03.25 @ 06:20:30

TEST COMMENT: 30/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 1 1/2 INTO WATER IN 30 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:WEAK BUT BUILDING BLOW BUILT 1 1/2 INTO WATER IN 45MINUTES
 60/FINAL SHUT IN: NO BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

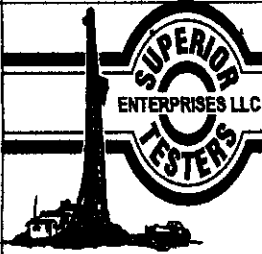
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1954.84	108.20	Initial Hydro-static
2	34.23	108.59	Open To Flow (1)
31	55.95	108.73	Shut-In(1)
75	1279.97	110.65	End Shut-In(1)
76	58.97	110.38	Open To Flow (2)
120	87.16	112.94	Shut-In(2)
189	1279.40	114.97	End Shut-In(2)
190	1927.05	115.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	MUDDY WATER 50%MUD 50%WATER	0.47
0.00	CHLORIDES 35,000	0.00
0.00	RESISTIVITY .35 @ 75 DEGREES	0.00

Gas Rates

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

Job Ticket: 15643

DST#: 4

ATTN: TED JOCHEMS

Test Start: 2011.03.25 @ 01:22:00

GENERAL INFORMATION:

Formation: **LANSING KC 1, J Z**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:12:30
 Time Test Ended: 08:08:00
 Interval: **4119.00 ft (KB) To 4174.00 ft (KB) (TVD)**
 Total Depth: **4174.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair

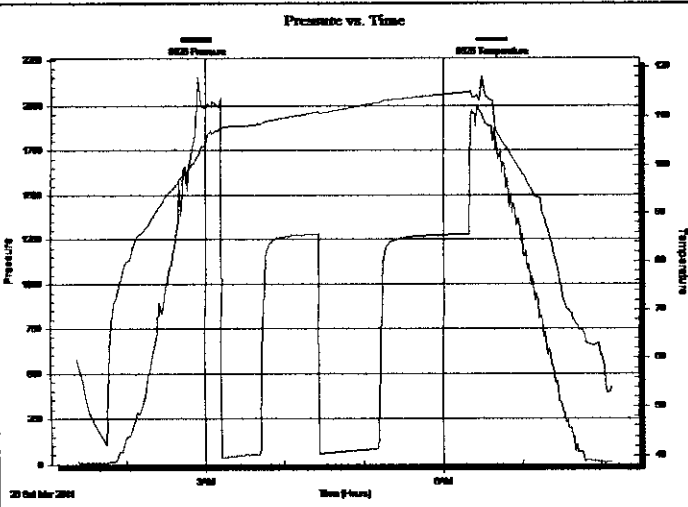
Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320- SCOTT CITY -75
 Reference Elevations: 2910.00 ft (KB)
 2900.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8525

Outside

Press@RunDepth: psia @ 4171.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.03.26 End Date: 2011.03.26 Last Calib.: 2011.03.26
 Start Time: 01:23:00 End Time: 08:08:30 Time On Btm:
 Time Off Btm:

TEST COMMENT: 30/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 1 1/2 INTO WATER IN 30 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:WEAK BUT BUILDING BLOW BUILT 1 1/2 INTO WATER IN 45MINUTES
 60/FINAL SHUT IN: NO BLOW BACK



PRESSURE SUMMARY

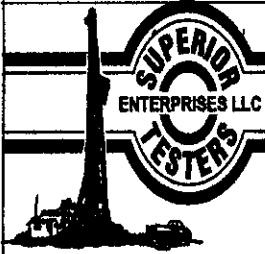
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
95.00	MUDDY WATER 50%MUD 50%WATER	0.47
0.00	CHLORIDES 35,000	0.00
0.00	RESISTIVITY .35 @ 75 DEGREES	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

Job Ticket: 15643

DST#: 4

ATTN: TED JOCHEMS

Test Start: 2011.03.25 @ 01:22:00

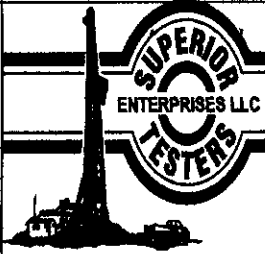
Tool Information

Drill Pipe:	Length: 3540.00 ft	Diameter: 3.80 inches	Volume: 49.66 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 580.00 ft	Diameter: 2.25 inches	Volume: 2.85 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume: 52.51 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4119.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	55.00 ft			
Tool Length:	76.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4099.00	
Shut-In Tool	5.00			4104.00	
Hydrolic Tool	5.00			4109.00	
Recorder	5.00			4114.00	
Packer	5.00			4119.00	21.00 Bottom Of Top Packer
Change Over Sub	0.75			4119.75	
Drill Pipe	32.50			4152.25	
Change Over Sub	0.75			4153.00	
Perforations	16.00			4169.00	
Recorder	1.00	8524	Inside	4170.00	
Recorder	1.00	8525	Outside	4171.00	
Bullnose	3.00			4174.00	55.00 Anchor Tool

Total Tool Length: 76.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

Job Ticket: 15643

DST#: 4

ATTN: TED JOCHEMS

Test Start: 2011.03.25 @ 01:22:00

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: 57.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 300.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	MUDDY WATER 50%MUD 50%WATER	0.467
0.00	CHLORIDES 35.000	0.000
0.00	RESISTIVITY .35 @ 75 DEGREES	0.000

Total Length: 95.00 ft Total Volume: 0.467 bbl

Num Fluid Samples: 0

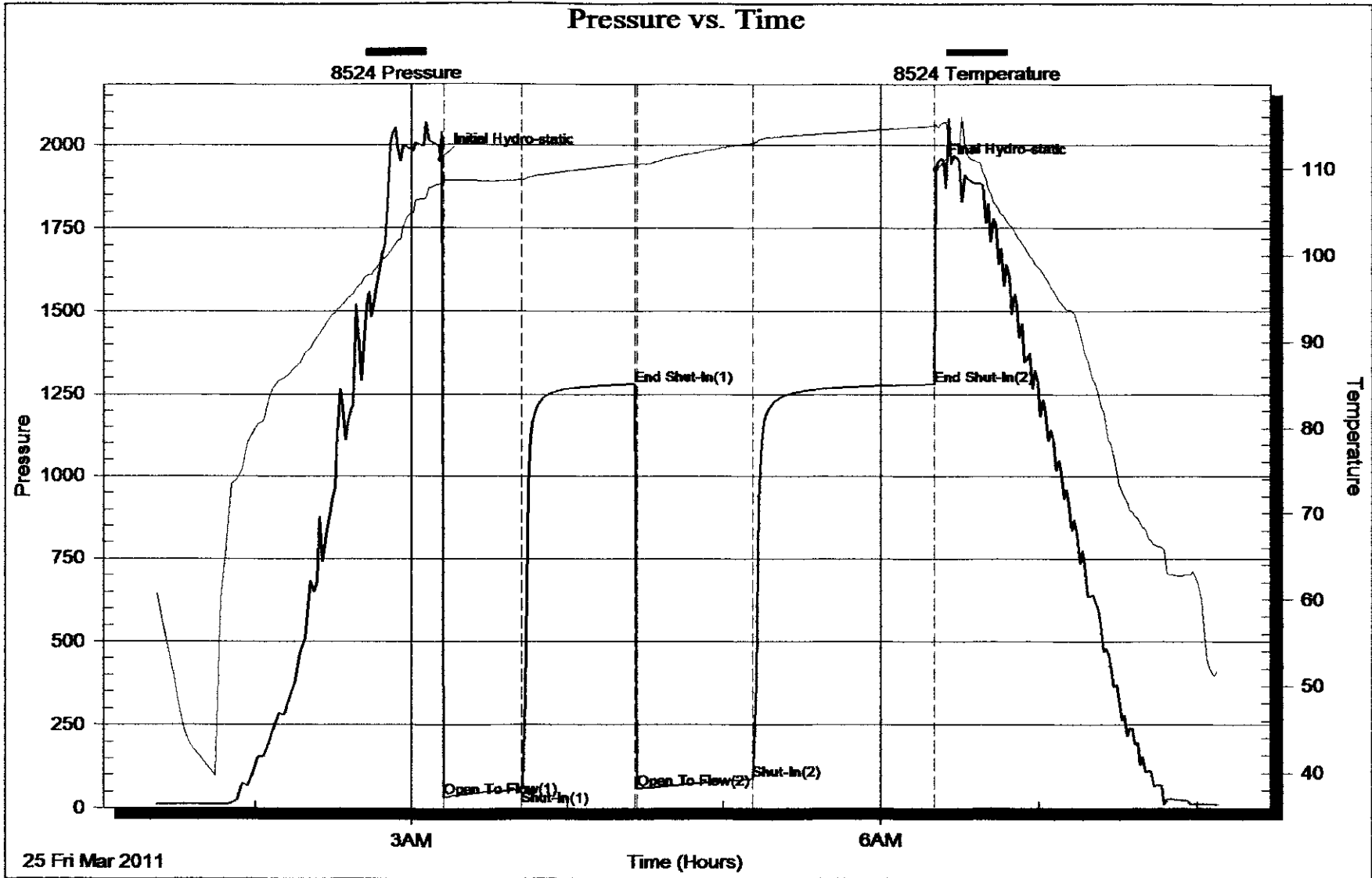
Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

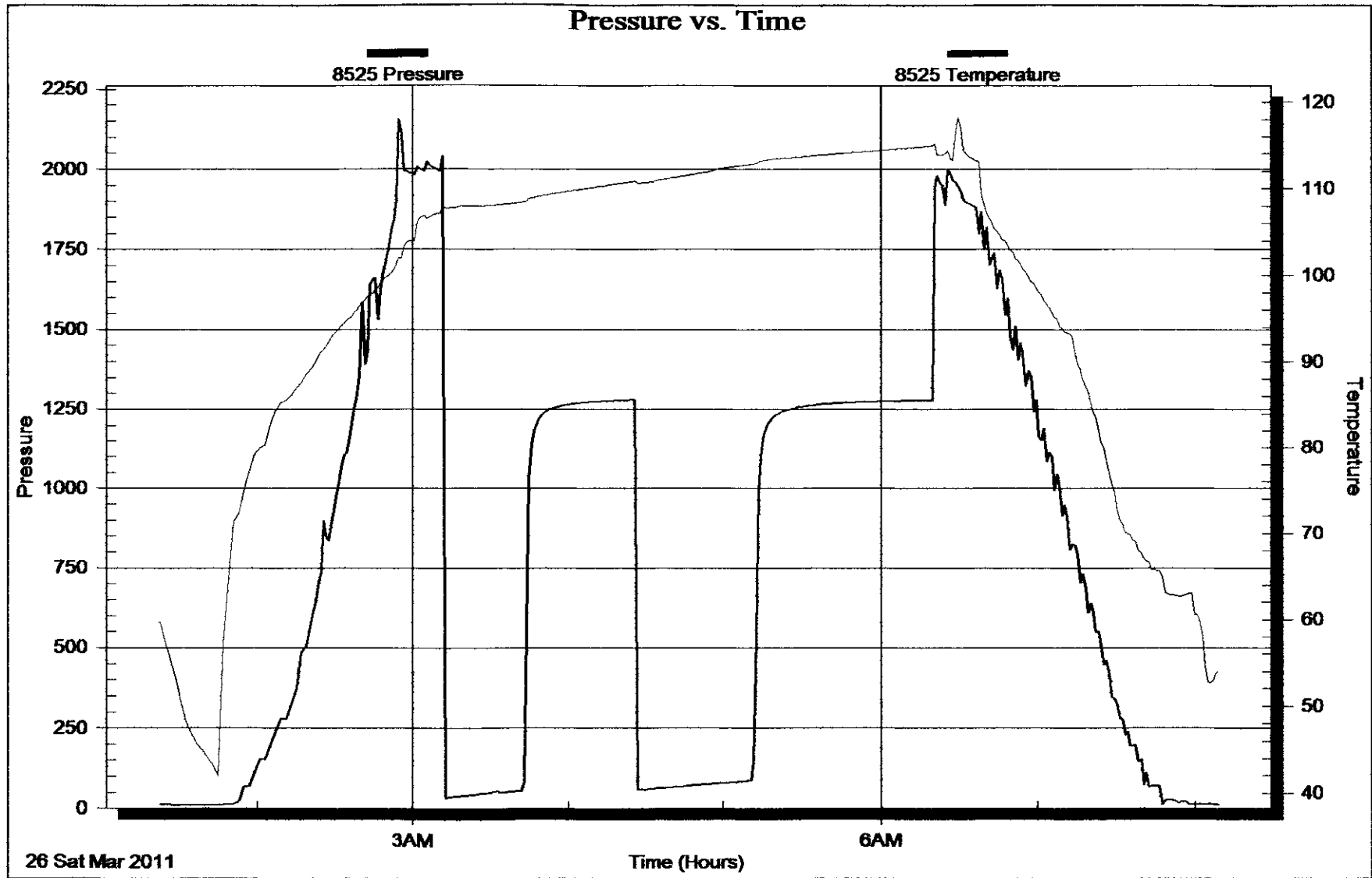


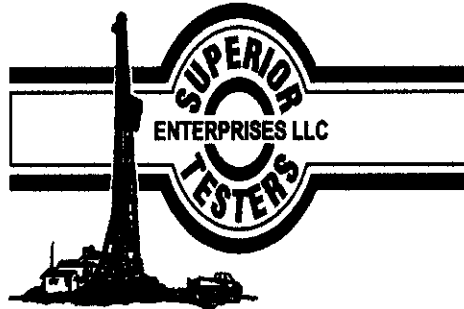
Serial #: 8525

Outside RITCHIE EXPLORATION INC

17-13S-31W GOVE

DST Test Number: 4





DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**
8100 E 22ND ST N #700 WICHITA KS
67278+3188

ATTN: TED JOCHEMS

17-13S-31W GOVE

NICKELSON 17D #1

Start Date: 2011.03.26 @ 19:30:00

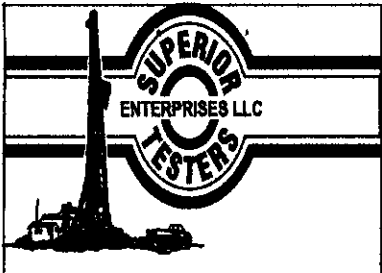
End Date: 2011.03.27 @ 03:01:00

Job Ticket #: 15644 DST #: 5

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

Printed: 2011.03.31 @ 12:07:19

RITCHIE EXPLORATION INC | NICKELSON 17D #1 | 17-13S-31W GOVE | DST # 5 | LKC K&L ZONES | 2011.03.26



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15644

DST#: 5

Test Start: 2011.03.26 @ 19:30:00

GENERAL INFORMATION:

Formation: LKC K&L ZONES

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:40:30

Time Test Ended: 03:01:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JAREDSCHECK

Unit No: 3320-SCOTT CITY -75

Interval: 4174.00 ft (KB) To 4246.00 ft (KB) (TVD)

Reference Elevations: 2910.00 ft (KB)

Total Depth: 4246.00 ft (KB) (TVD)

2900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8424

Inside

Press@RunDepth: 582.48 psia @ 4242.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.26

End Date: 2011.03.27

Last Calib.: 2011.03.27

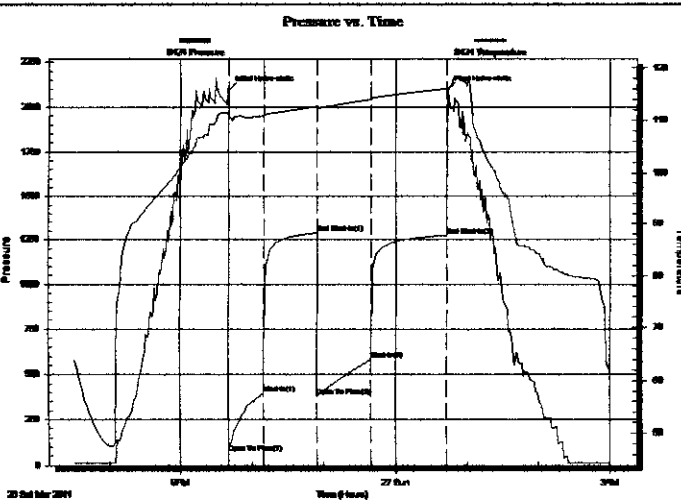
Start Time: 19:31:00

End Time: 03:01:00

Time On Btm: 2011.03.26 @ 21:40:00

Time Off Btm: 2011.03.27 @ 00:44:00

TEST COMMENT: 30/INITIAL OPEN: STRONG BLOW BUILT BOTTOM OF BUCKET IN 7 MINUTES
 45/INITIAL SHUT IN: NO BLOW BACK
 45/FINAL OPEN: STRONG BLOW BUILT BOTTOM OF BUCKET IN 9 MINUTES
 60/FINAL SHUT IN: NO BLOW BACK



PRESSURE SUMMARY

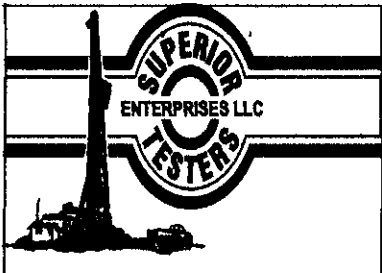
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2097.25	111.06	Initial Hydro-static
1	71.17	110.11	Open To Flow (1)
30	395.99	110.86	Shut-In(1)
74	1287.64	112.74	End Shut-In(1)
75	380.64	112.47	Open To Flow (2)
120	582.48	114.05	Shut-In(2)
183	1274.61	116.12	End Shut-In(2)
184	2097.21	116.10	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1300.00	WATER 10%MUD 90%WATER	12.95
0.00	CHLORIDES 50,000	0.00
0.00	RESISTIVITY .2 @76 DEGREES	0.00

Gas Rates

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15644

DST#: 5

Test Start: 2011.03.26 @ 19:30:00

GENERAL INFORMATION:

Formation: LKC K&L ZONES

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:40:30

Time Test Ended: 03:01:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JAREDSHECK

Unit No: 3320-SCOTT CITY -75

Interval: 4174.00 ft (KB) To 4246.00 ft (KB) (TVD)

Reference Elevations: 2910.00 ft (KB)

Total Depth: 4246.00 ft (KB) (TVD)

2900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8525

Outside

Press@RunDepth: 1275.04 psia @ 4243.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.26

End Date: 2011.03.27

Last Calib.: 2011.03.27

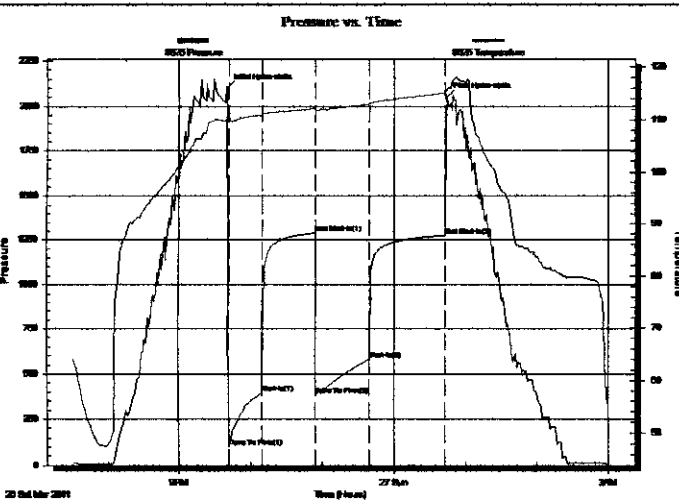
Start Time: 19:31:00

End Time: 03:01:00

Time On Btm: 2011.03.26 @ 21:40:30

Time Off Btm: 2011.03.27 @ 00:44:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 7 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 9 MINUTES
 60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

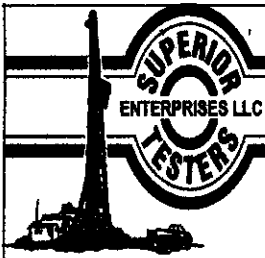
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2097.01	110.21	Initial Hydro-static
1	99.61	109.92	Open To Flow (1)
30	395.83	110.91	Shut-In(1)
74	1288.02	112.15	End Shut-In(1)
74	380.47	111.73	Open To Flow (2)
119	582.38	113.02	Shut-In(2)
183	1275.04	115.09	End Shut-In(2)
184	2051.84	115.60	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1300.00	WATER 10%MUD 90%WATER	12.95
0.00	CHLORIDES 50,000	0.00
0.00	RESISTIVITY .2 @76 DEGREES	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

Job Ticket: 15644

DST#: 5

ATTN: TED JOCHEMS

Test Start: 2011.03.26 @ 19:30:00

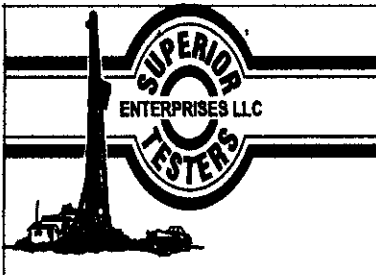
Tool Information

Drill Pipe:	Length: 3603.00 ft	Diameter: 3.80 inches	Volume: 50.54 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 580.00 ft	Diameter: 2.25 inches	Volume: 2.85 bbl	Weight to Pull Loose: 105000.0 lb
		Total Volume:	53.39 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4174.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	72.00 ft			
Tool Length:	93.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4154.00	
Shut-In Tool	5.00			4159.00	
Hydraulic Tool	5.00			4164.00	
Recorder	5.00			4169.00	
Packer	5.00			4174.00	21.00 Bottom Of Top Packer
Change Over Sub	0.75			4174.75	
Drill Pipe	32.50			4207.25	
Change Over Sub	0.75			4208.00	
Perforations	33.00			4241.00	
Recorder	1.00	8424	Inside	4242.00	
Recorder	1.00	8525	Outside	4243.00	
Bulldose	3.00			4246.00	72.00 Anchor Tool

Total Tool Length: 93.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

Job Ticket: 15644

DST#: 5

ATTN: TED JOCHEMS

Test Start: 2011.03.26 @ 19:30:00

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: 55.00 sec/qt

Cushion Volume:

bbf

Water Loss: 7.19 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 3500.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbf
1300.00	WATER 10%MUD 90%WATER	12.952
0.00	CHLORIDES 50,000	0.000
0.00	RESISTIVITY .2 @76 DEGREES	0.000

Total Length: 1300.00 ft Total Volume: 12.952 bbf

Num Fluid Samples: 0

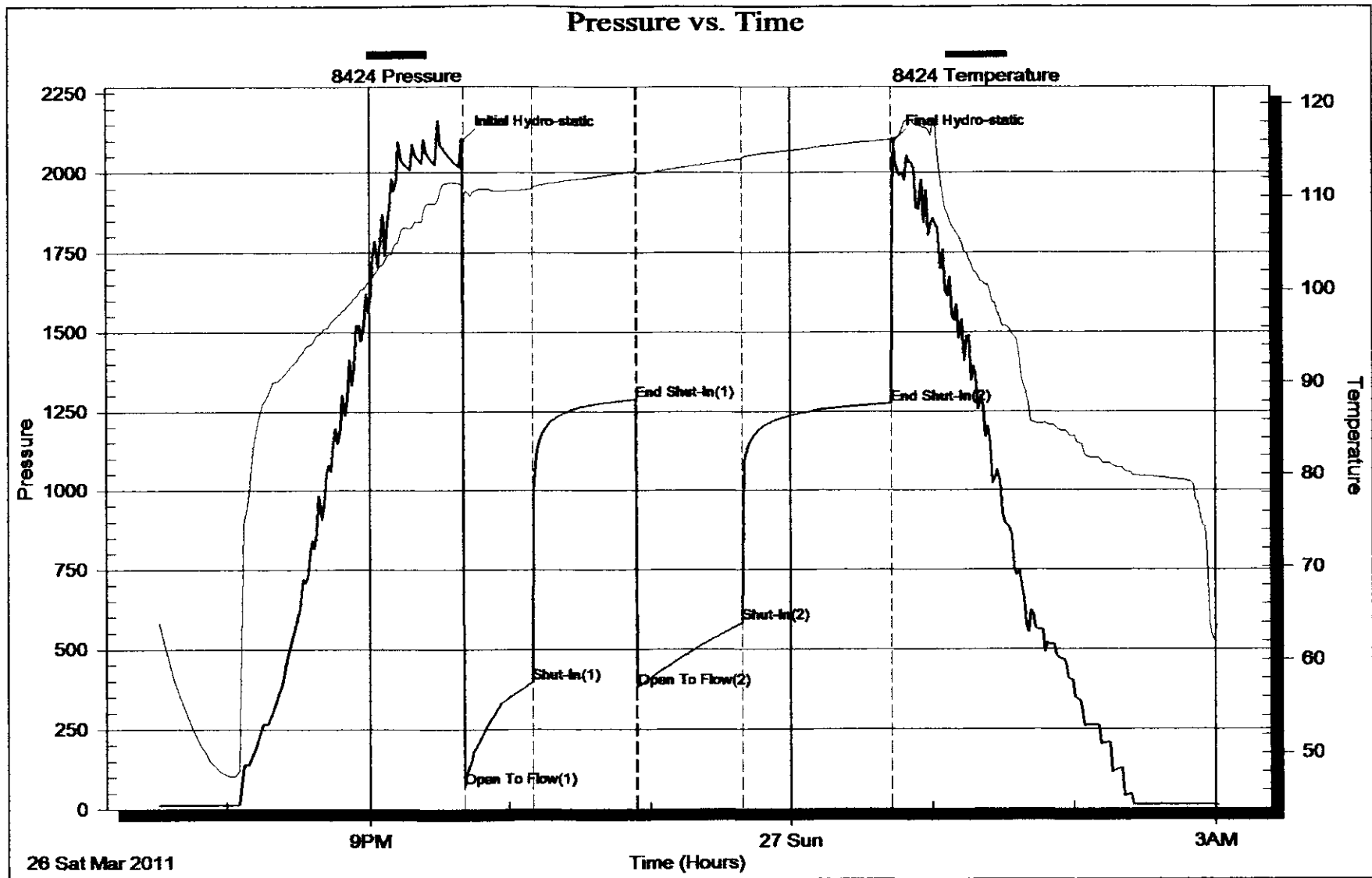
Num Gas Bombs: 0

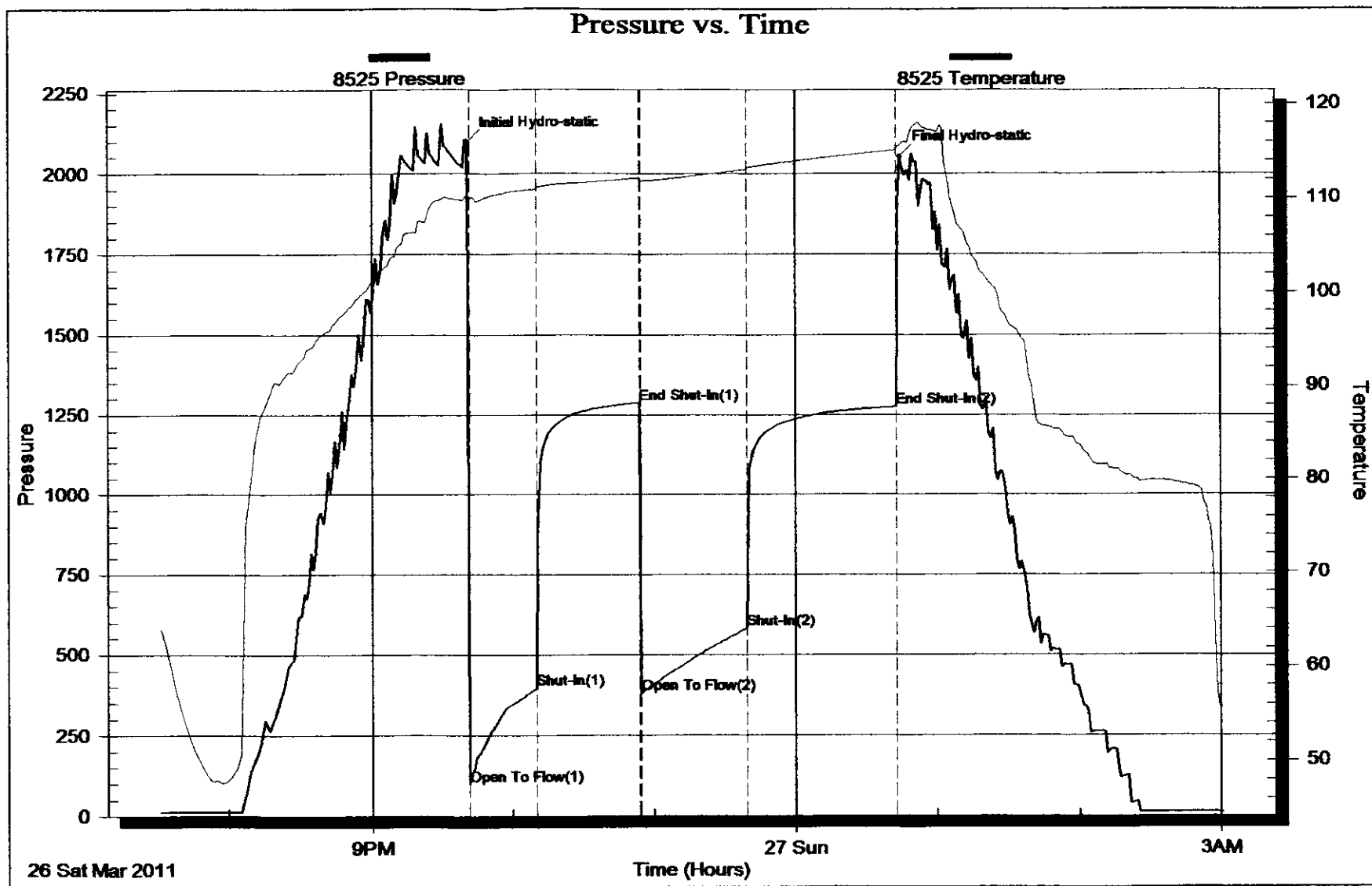
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 22ND ST N #700 WICHITA KS
67278+3188

ATTN: TED JOCHEMS

17-13S-31W GOVE

NICKELSON 17D #1

Start Date: 2011.03.28 @ 04:44:00

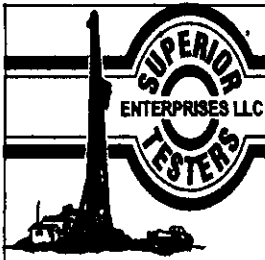
End Date: 2011.03.28 @ 11:48:00

Job Ticket #: 15645 DST #: 6

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

Printed: 2011.03.31 @ 12:07:07

RITCHIE EXPLORATION INC
NICKELSON 17D #1
17-13S-31W GOVE
DST # 6
FT SCOTT & CHEROKEE S
2011.03.28



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15645

DST#: 6

Test Start: 2011.03.28 @ 04:44:00

GENERAL INFORMATION:

Formation: FT SCOTT & CHEROKEE S

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:52:30

Time Test Ended: 11:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SSCHECK

Unit No: 3320-SCOTT CITY -75

Interval: 4426.00 ft (KB) To 4482.00 ft (KB) (TVD)

Total Depth: 4482.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2910.00 ft (KB)

2900.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8524

Inside

Press@RunDepth: 92.99 psia @ 4478.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.28

End Date: 2011.03.28

Last Calib.: 2011.03.28

Start Time: 04:45:00

End Time: 11:48:00

Time On Btm: 2011.03.28 @ 06:51:30

Time Off Btm: 2011.03.28 @ 09:54:00

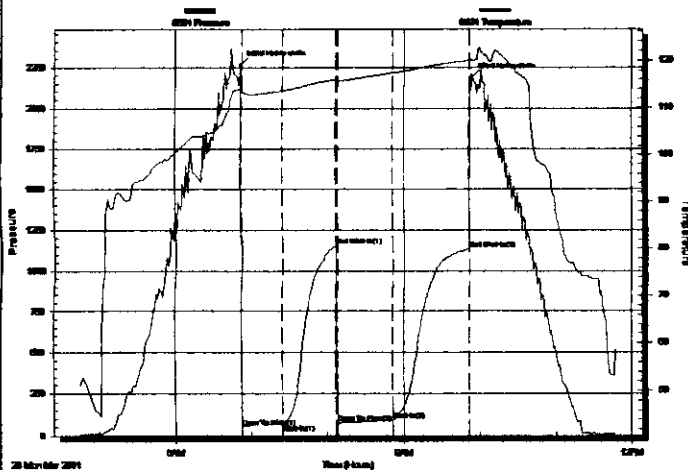
TEST COMMENT: 30/INITIAL OPEN: STRONG BLOW BUILT 3 INCHS INTO WATER IN 30 MINUTES

45/INITIAL SHUT IN: NO BLOW BACK

45/FINAL OPEN: STRONG BLOW BUILT 5 1/2 INCHES INTO WATER IN 45 MINUTES

60/FINAL SHUT IN: NO BLOW BACK

Pressure vs. Time



PRESSURE SUMMARY

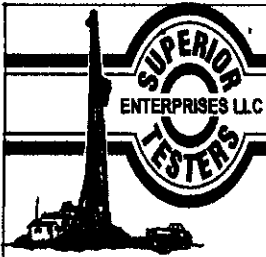
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2266.47	113.90	Initial Hydro-static
1	54.18	113.26	Open To Flow (1)
33	68.87	113.61	Shut-In(1)
75	1155.33	115.98	End Shut-In(1)
76	75.34	115.70	Open To Flow (2)
120	92.99	117.40	Shut-In(2)
180	1133.95	119.91	End Shut-In(2)
183	2192.53	120.02	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	MUDDY OIL 10% OIL 90% MUD	0.47
0.00	GAS IN PIPE 190 FEET	0.00

Gas Rates

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15645

DST#: 6

Test Start: 2011.03.28 @ 04:44:00

GENERAL INFORMATION:

Formation: FT SCOTT & CHEROKEE S

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:52:30

Time Test Ended: 11:48:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SSHECK

Unit No: 3320-SCOTT CITY -75

Interval: 4426.00 ft (KB) To 4482.00 ft (KB) (TVD)

Total Depth: 4482.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2910.00 ft (KB)

2900.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8525

Outside

Press@RunDepth: 1134.44 psia @ 4479.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.28

End Date: 2011.03.28

Last Calib.: 2011.03.28

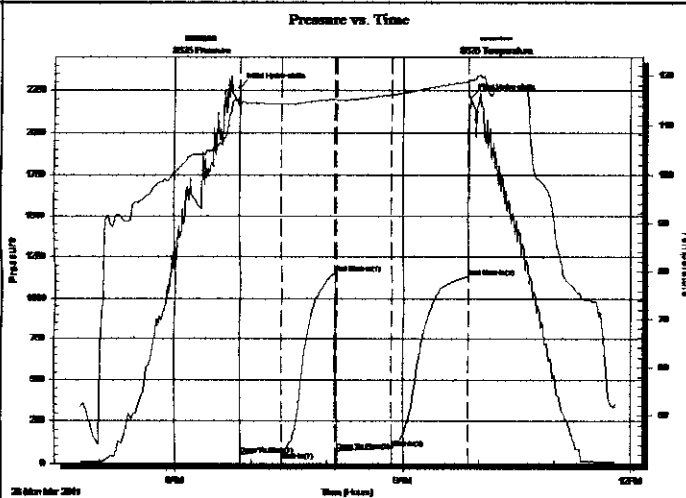
Start Time: 04:45:00

End Time: 11:49:00

Time On Btm: 2011.03.28 @ 06:51:00

Time Off Btm: 2011.03.28 @ 09:53:30

TEST COMMENT: 30/INITIAL OPEN: STRONG BLOW BUILT 3 INCHS INTO WATER IN 30 MINUTES
 45/INITIAL SHUT IN: NO BLOW BACK
 45/FINAL OPEN: STRONG BLOW BUILT 5 1/2 INCHES INTO WATER IN 45 MINUTES
 60/FINAL SHUT IN: NO BLOW BACK



PRESSURE SUMMARY

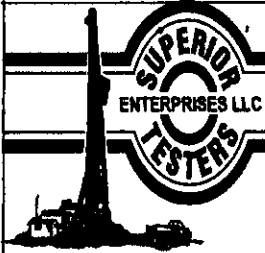
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2268.50	115.36	Initial Hydro-static
1	52.59	113.93	Open To Flow (1)
34	69.75	114.36	Shut-In(1)
76	1156.01	115.40	End Shut-In(1)
77	75.57	115.10	Open To Flow (2)
120	93.77	116.26	Shut-In(2)
181	1134.44	118.79	End Shut-In(2)
183	2208.68	119.09	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	MUDDY OIL 10% OIL 90% MUD	0.47
0.00	GAS IN PIPE 190 FEET	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

Job Ticket: 15645

DST#: 6

ATTN: TED JOCHEMS

Test Start: 2011.03.28 @ 04:44:00

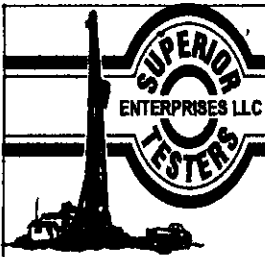
Tool Information

Drill Pipe:	Length: 3855.00 ft	Diameter: 3.80 inches	Volume: 54.08 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 580.00 ft	Diameter: 2.25 inches	Volume: 2.85 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 56.93 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	30.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4426.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	56.00 ft			
Tool Length:	77.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4406.00	
Shut-In Tool	5.00			4411.00	
Hydraulic Tool	5.00			4416.00	
Recorder	5.00			4421.00	
Packer	5.00			4426.00	21.00 Bottom Of Top Packer
Change Over Sub	0.75			4426.75	
Drill Pipe	31.50			4458.25	
Change Over Sub	0.75			4459.00	
Perforations	18.00			4477.00	
Recorder	1.00	8524	Inside	4478.00	
Recorder	1.00	8525	Outside	4479.00	
Bullnose	3.00			4482.00	56.00 Anchor Tool

Total Tool Length: 77.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

Job Ticket: 15645

DST#: 6

ATTN: TED JOCHEMS

Test Start: 2011.03.28 @ 04:44:00

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: 9.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

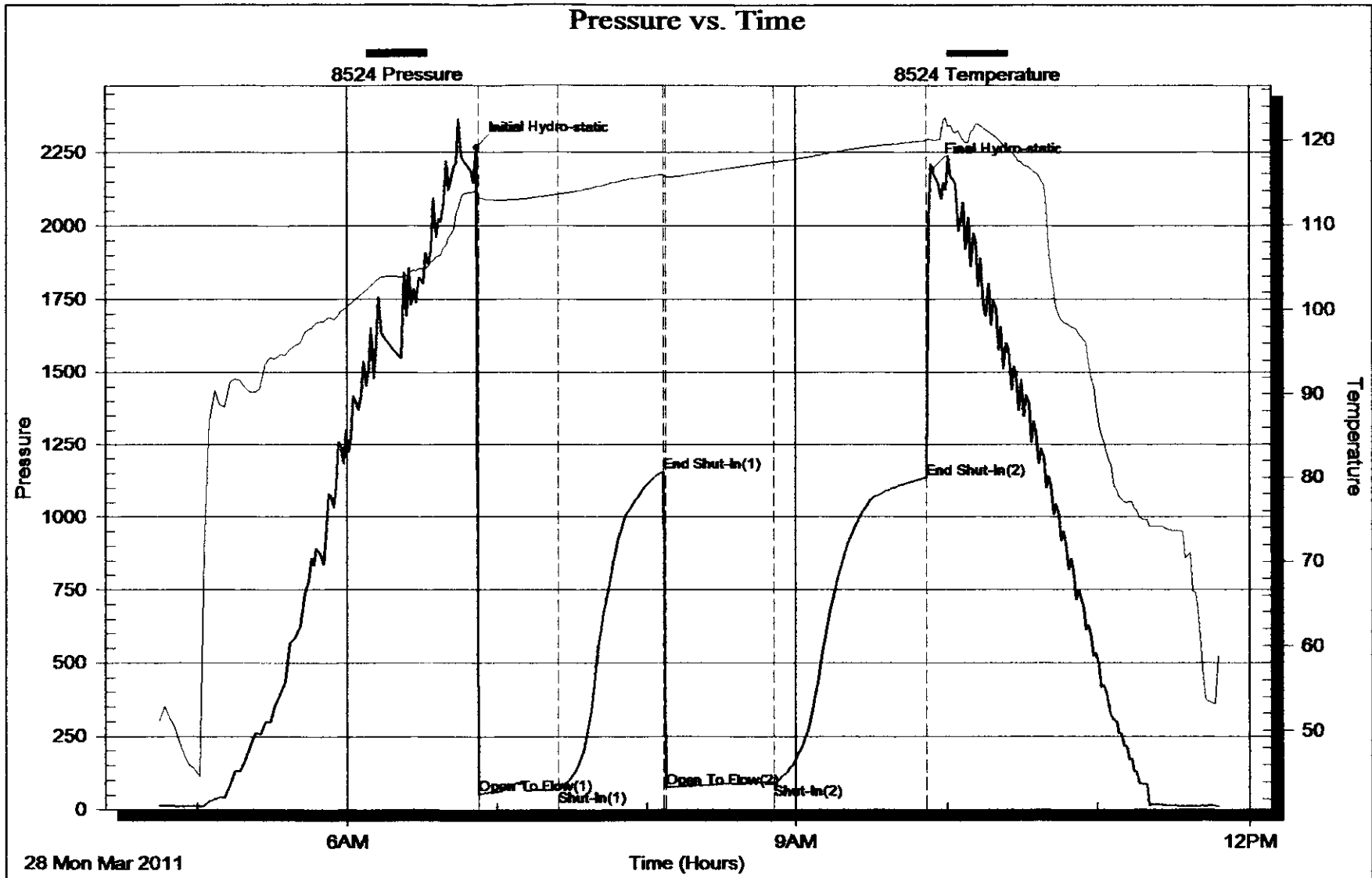
Length ft	Description	Volume bbl
95.00	MUDDY OIL 10%OIL 90%MUD	0.467
0.00	GAS IN PIPE 190 FEET	0.000

Total Length: 95.00 ft Total Volume: 0.467 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

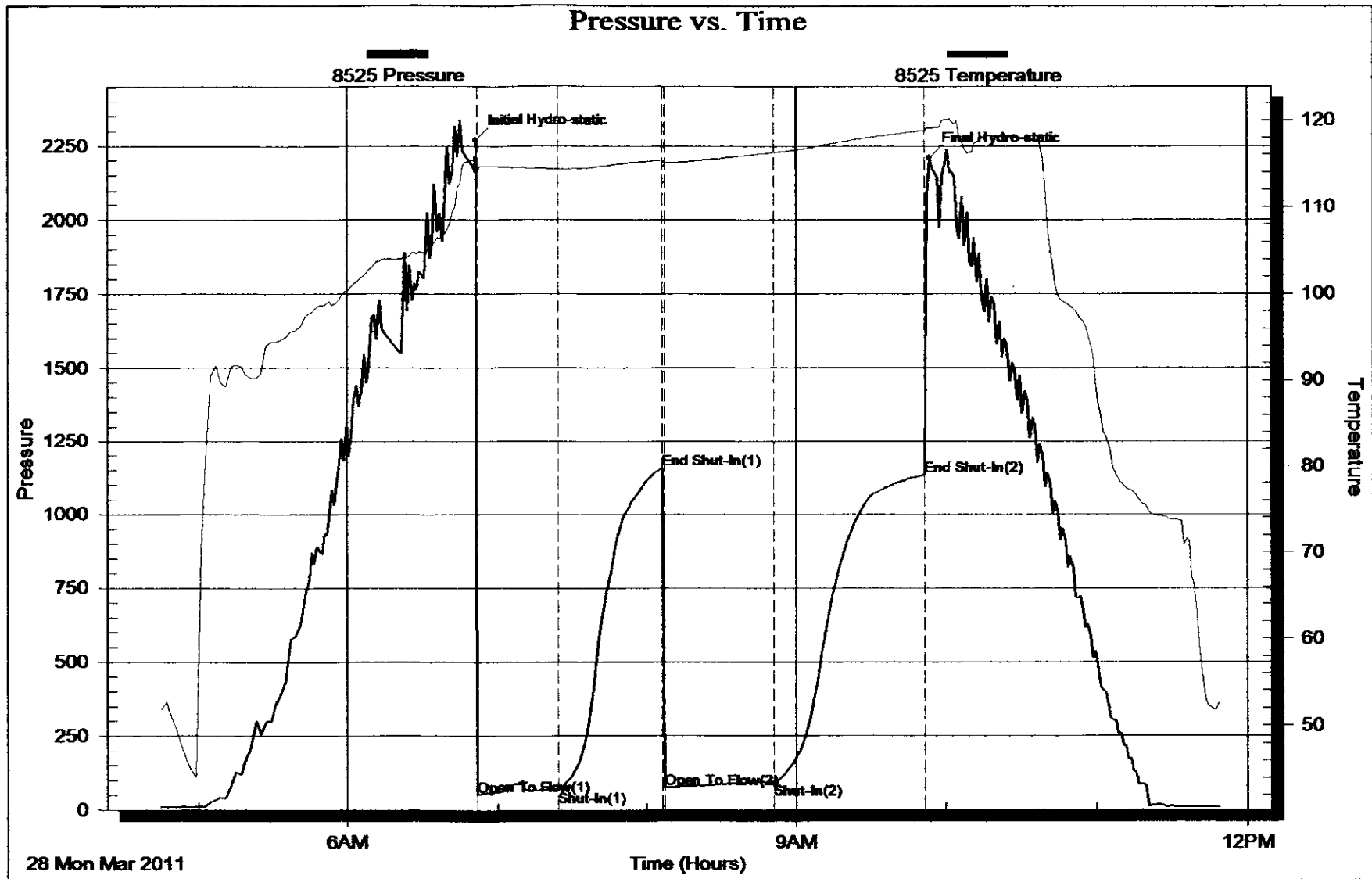


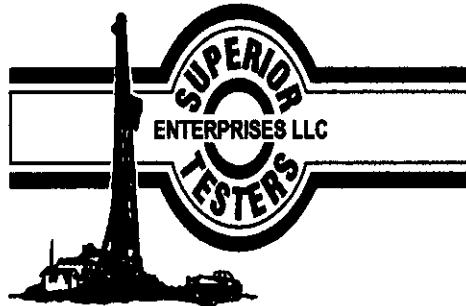
Serial #: 8525

Outside RITCHE EXPLORATION INC

17-13S-31W GOVE

DST Test Number: 6





DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 22ND ST N #700 WICHITA KS
67278+3188

ATTN: TED JOCHEMS

17-13S-31W GOVE

NICKELSON 17D #1

Start Date: 2011.03.28 @ 21:09:00

End Date: 2011.03.29 @ 04:15:00

Job Ticket #: 15646 DST #: 7

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

Printed: 2011.03.31 @ 12:06:07

RITCHIE EXPLORATION INC

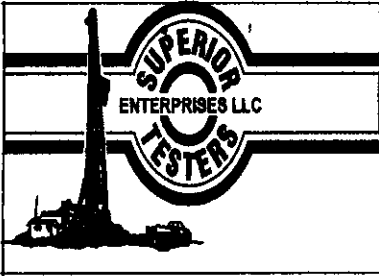
NICKELSON 17D #1

17-13S-31W GOVE

DST # 7

LOWER CHROKKEE TO JOH

2011.03.28



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15646

DST#: 7

Test Start: 2011.03.28 @ 21:09:00

GENERAL INFORMATION:

Formation: LOWER CHROKKEE TO JOH

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:57:30

Time Test Ended: 04:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY -75

Interval: 4481.00 ft (KB) To 4516.00 ft (KB) (TVD)

Total Depth: 4516.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2910.00 ft (KB)

2900.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8524

Inside

Press@RunDepth: 368.77 psia @ 4512.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.28

End Date:

2011.03.29

Last Calib.:

2011.03.29

Start Time: 20:10:00

End Time:

03:15:00

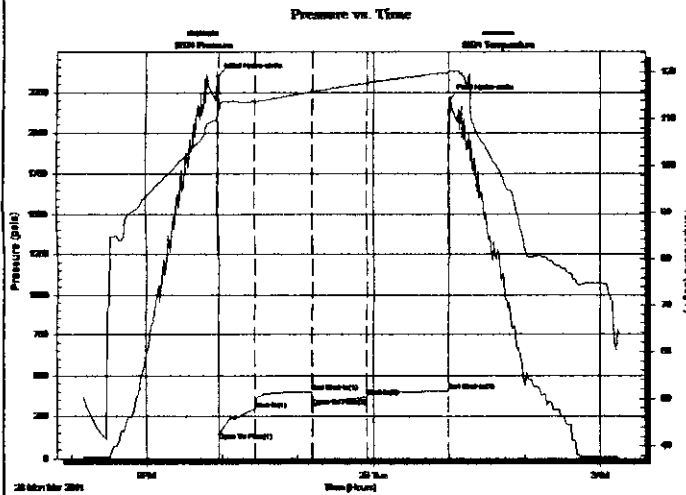
Time On Btm:

2011.03.28 @ 21:57:00

Time Off Btm:

2011.03.29 @ 01:01:00

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 4 MINUTE
 45/INITIAL SHUT IN: BOTTOM OF BUCKET
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 6 MINUTES
 60/FINAL SHUT IN: 1/2 INCH BLOW BACK



PRESSURE SUMMARY

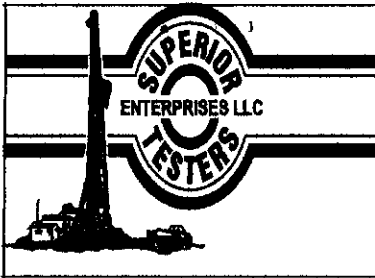
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2344.58	111.13	Initial Hydro-static
1	104.89	111.03	Open To Flow (1)
30	295.88	113.74	Shut-in(1)
74	401.09	115.78	End Shut-in(1)
75	313.05	115.81	Open To Flow (2)
118	368.77	117.65	Shut-in(2)
183	403.25	119.83	End Shut-in(2)
184	2212.43	120.18	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	GASSY OIL CUT MUD	1.87
0.00	5%MUD 25%GAS 70%OIL	0.00
570.00	GASSY OIL 30%GAS 70%OIL	6.17
0.00	1140 GAS IN PIPE	0.00
0.00	GRAVITY OIL 51	0.00

Gas Rates

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



DRILL STEM TEST REPORT

RITCHEE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

ATTN: TED JOCHEMS

Job Ticket: 15646

DST#: 7

Test Start: 2011.03.28 @ 21:09:00

GENERAL INFORMATION:

Formation: LOWER CHROKKEE TO JOH

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 22:57:30

Time Test Ended: 04:15:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY -75

Interval: 4481.00 ft (KB) To 4516.00 ft (KB) (TVD)

Reference Elevations: 2910.00 ft (KB)

Total Depth: 4516.00 ft (KB) (TVD)

2900.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8525

Outside

Press@RunDepth: 403.66 psia @ 4513.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.03.28

End Date:

2011.03.29

Last Calib.: 2011.03.29

Start Time: 20:10:00

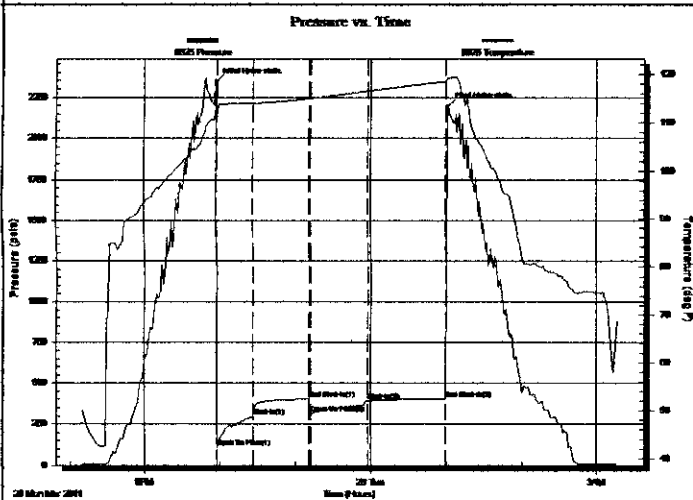
End Time:

03:17:00

Time On Btm: 2011.03.28 @ 21:57:00

Time Off Btm: 2011.03.29 @ 01:01:00

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 4 MINUTE
 45/INITIAL SHUT IN :BOTTOM OF BUCKET
 45/FINAL OPEN:STRONG BLOW BUILT BOTTOM OFUCKET IN 6 MINUTES
 60/FINAL SHUT IN:1/2 INCH BLOW BACK



PRESSURE SUMMARY

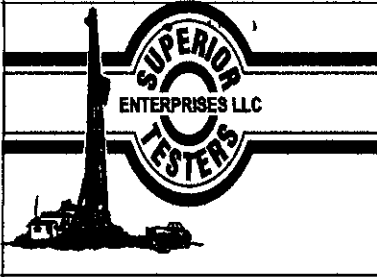
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2342.44	112.99	Initial Hydro-static
1	108.88	112.28	Open To Flow (1)
30	296.63	113.95	Shut-In(1)
74	401.42	114.97	End Shut-In(1)
75	313.39	114.98	Open To Flow (2)
120	389.81	116.48	Shut-In(2)
183	403.66	118.49	End Shut-In(2)
184	2196.81	119.14	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	GASSY OIL CUT MUD	1.87
0.00	5%MUD 25%GAS 70%OIL	0.00
570.00	GASSY OIL 30%GAS 70%OIL	6.17
0.00	1140 GAS IN PIPE	0.00
0.00	GRAVITY OIL 51	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

Job Ticket: 15646

DST#: 7

ATTN: TED JOCHEMS

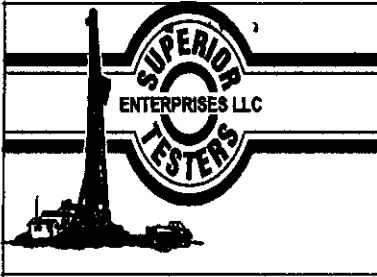
Test Start: 2011.03.28 @ 21:09:00

Tool Information

Drill Pipe:	Length: 3890.00 ft	Diameter: 3.80 inches	Volume: 54.57 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 580.00 ft	Diameter: 2.25 inches	Volume: 2.85 bbl	Weight to Pull Loose: 100000.0 lb
			Total Volume: 57.42 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 85000.00 lb
Depth to Top Packer:	4481.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	35.00 ft			
Tool Length:	56.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4461.00	
Shut-in Tool	5.00			4466.00	
Hydraulic Tool	5.00			4471.00	
Packer	5.00			4476.00	21.00 Bottom Of Top Packer
Packer	5.00			4481.00	
Perforations	30.00			4511.00	
Recorder	1.00	8524	Inside	4512.00	
Recorder	1.00	8525	Outside	4513.00	
Bullnose	3.00			4516.00	35.00 Bottom Packers & Anchor
Total Tool Length:	56.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

NICKELSON 17D #1

8100 E 22ND ST N #700 WICHITA KS 67278+3188

17-13S-31W GOVE

Job Ticket: 15646

DST#: 7

ATTN: TED JOCHEMS

Test Start: 2011.03.28 @ 21:09:00

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: 53.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	GASSY OIL CUT MUD	1.869
0.00	5%MUD 25%GAS 70%OIL	0.000
570.00	GASSY OIL 30%GAS 70%OIL	6.174
0.00	1140 GAS IN PIPE	0.000
0.00	GRAVITY OIL 51	0.000

Total Length: 950.00 ft Total Volume: 8.043 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:

