

10/28/13

Form ACO-1
June 2009

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

ORIGINAL
KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

CONFIDENTIAL

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: Larry Friend
Purchaser: NCRA

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 #: _____
7/25/11 8/7/11 8/7/11
Spud Date or Date Reached TD Completion Date or
Recompletion Date Recompletion Date

API No. 15 - 063-21933-00-00
Spot Description: 5' N & 80' E
S/2 SW SE Sec. 30 Twp. 13 S. R. 31 East West
335 Feet from North / South Line of Section
1,900 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Gove
Lease Name: Joseph 30CD Well #: 3
Field Name: _____
Producing Formation: LKC/Myrick/Johnson
Elevation: Ground: 2911 Kelly Bushing: 2921
Total Depth: 4700 Plug Back Total Depth: 4656
Amount of Surface Pipe Set and Cemented at: 216 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2370' Feet
If Alternate II completion, cement circulated from: surface
feet depth to: 2370 w/ 310 sx cmt.

Drilling Fluid Management Plan
(Data must be collected from the Reserve Pit)
Chloride content: 19000 ppm Fluid volume: 900 bbls
Dewatering method used: evaporation
Location of fluid disposal if hauled offsite: KCC
Operator Name: _____
Lease Name: _____ License #: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____
County: _____ Permit #: _____

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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: _____
Title: Production Manager Date: 10/27/11

KCC Office Use ONLY

Letter of Confidentiality Received
Date: 10.28.11 - 10.28.13
 Confidential Release Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
ALT I II III Approved by: NS Date: 11-7-11

Operator Name: Ritchie Exploration, Inc. Lease Name: Joseph 30CD Well #: 3

Sec. 30 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 Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Dual Induction Log Compensated Neutron/Density Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum SEE ATTACHED CONFIDENTIAL OCT 28 2013 KCC
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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#	216'	common	175	3%cc, 2% gel
Production	7-7/8"	5-1/2"	15.5#	4690'	ASC	200	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 (Amount and Kind of Material Used)	Depth
4	4502' - 4507.5' (8/30/11)	500 gals 15% NE	RECEIVED
4	4414.5' - 4418' (8/30/11)	500 gals 15% NE	OCT 28 2011
4	4160' - 4163.5' (8/30/11)	500 gals 15% NE	KCC WICHITA

TUBING RECORD: Size: <u>2-7/8"</u> Set At: <u>4638'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>9/8/11</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>76.56</u>	Gas Mcf <u>30.54</u> Water Bbls. _____ Gas-Oil Ratio _____ Gravity <u>34.5</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 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: _____ _____
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ALLIED CEMENTING CO., LLC. 040013

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

SERVICE POINT: Oakley, K

DATE <u>8/15/11</u>	SEC <u>30</u>	TWP <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>12:30p</u>	JOB FINISH <u>1:30p</u>
LEASE <u>Joseph 30</u>	WELL # <u>3</u>	LOCATION <u>Oakley 11g 3E-5S-1W-1N</u>		COUNTY <u>Cove</u>	STATE <u>K1</u>		
OLD OR NEW (Circle one) <u>NEW</u>				Finto			

CONTRACTOR Express Well Service OWNER Same

TYPE OF JOB Port Collar

HOLE SIZE _____ T.D. _____

CASING SIZE 5 1/2 DEPTH 4690

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL Port Collar DEPTH 2370

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT _____

CEMENT LEFT IN CSG. _____

PERFS. _____

DISPLACEMENT _____

CEMENT

AMOUNT ORDERED 450 SKs 60/40

6070 gel 114 16 Flo Seal

500 16 Hulls On Side

used 310 SKs

COMMON	<u>186</u>	@ <u>16.25</u>	<u>3022.50</u>
POZMIX	<u>124</u>	@ <u>8.25</u>	<u>1024.00</u>
GEL	<u>16</u>	@ <u>21.25</u>	<u>340.00</u>
CHLORIDE		@	
ASC		@	
Flo Seal	<u>78 16</u>	@ <u>2.70</u>	<u>210.60</u>
Hulls 6 5/8s		@ <u>31.85</u>	<u>191.12</u>
HANDLING	<u>488 SKs</u>	@ <u>2.25</u>	<u>1098.00</u>
MILEAGE	<u>14 SK/mile</u>		<u>1073.60</u>
TOTAL			<u>6989.80</u>

EQUIPMENT

PUMP TRUCK CEMENTER Alan

422 HELPER Wayne

BULK TRUCK

394 DRIVER Earl

BULK TRUCK

_____ DRIVER _____

REMARKS:

Test tool to 1200 PSI Tool Held

Open tool Est. circulation 114 310 SKs

60/40 690 gel 114 Flo Seal. Displace

w/ 13 BBL H₂O. Close tool. Test

to 1200 PSI. Held. Run 5 JTS

Reverse Clean.

Cement did Circulate.

Thank You Alan, Wayne

Earl

CHARGE TO: Ritchie Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

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PLUG & FLOAT EQUIPMENT

KCC

TOTAL 2565.00

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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.

PRINTED NAME _____

SIGNATURE Thomas A. [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS _____

TR

ALLIED CEMENTING CO., LLC. 039858

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

SERVICE POINT:
OAKLEY

DATE 8-7-11	SEC. 30	TWP. 13	RANGE 31W	CALLED OUT	ON LOCATION 10:00 AM	JOB START 4:00 PM	JOB FINISH 5:00 PM
LEASE JOSEPH 30 C/D	WELL # 3	LOCATION OAKLEY 11S-3E-5S-1W-1A			COUNTY GOOSE	STATE KS	
OLD OR <u>NEW</u> (Circle one)			E INTO				

CONTRACTOR MURFIN DRLS Rig # 14
 TYPE OF JOB PRODUCTION STRING
 HOLE SIZE 7 7/8" T.D. 4700'
 CASING SIZE 5 1/2" DEPTH 4690'
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL PORT COLLAR DEPTH 2369'
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT 23.00'
 CEMENT LEFT IN CSG. 23.00
 PERFS.
 DISPLACEMENT 111 BALS

OWNER SAME
 CEMENT
 AMOUNT ORDERED 250 SKS ASC 10% SALT
5# GELSONATE 2% GEL 3/4 OF 1% CA-31
 COMMON @
 POZMIX @
 GEL 5 SKS @ 21.25 106.25
 CHLORIDE @
 ASC 250 SKS @ 19.00 4750.00
GELSONATE 12SD @ .89 112.50
 @
SALT 24 SKS @ 23.95 574.80
 @
CA-31 176# @ 9.35 1645.60
 @
WFR-2 500 GALS @ 1.22 635.00
 @
 HANDLING 305 SKS @ 2.25 686.25
 MILEAGE 114 PER SK/ MILE @ 570.35 65000.00
 TOTAL 10080.00

EQUIPMENT

PUMP TRUCK CEMENTER TERRY
 # 422 HELPER WAYNE
 BULK TRUCK
 # 347 DRIVER ETHAN
 BULK TRUCK
 # DRIVER

REMARKS:

MIX 500 GALS WFR-2, MIX 20 SKS
MOUSE HOLE, MIX 30 SKS RAT HOLE
MIX 200 SKS ASC 10% SALT 5# GELSONATE
2% GEL 3/4 OF 1% CA-31. WASH TRUCK
& LEVES. DISPLACE 111 BOLS FRESH
WATER DOWN TO INSERT. HAD
900 PSI LEFT PRESSURE. LOADED
PLUG AT 1750 PSI. FLOAT HELD
 THANK YOU

SERVICE

DEPTH OF JOB 4690'
 PUMP TRUCK CHARGE 2405.00
 EXTRA FOOTAGE @
 MILEAGE 20X2 @ 7.00 290.00
 MANIFOLD HEAD @ 200.00
LIGHT VEHICLE 20X2 @ 4.00 160.00
 @

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

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TOTAL 3045.00

5 1/2" PLUG & FLOAT EQUIPMENT

1- Guide Shoes 240.00
 1- AFU INSERT @ 286.00
 1- PORT COLLAR @ 260.00
 8- TURBOIZERS @ 49.00 392.00
 4- BASKETS @ 337.00 1348.00
 1- RUBBER PLUG @ 73.00
 TOTAL 4939.00

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 Peter Fiorin
 SIGNATURE [Signature]

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

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ALLIED CEMENTING CO., LLC. 043460

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

SERVICE POINT: Oakley

DATE <u>7-25-11</u>	SEC. <u>30</u>	TWP. <u>13</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION	JOB START <u>11:00</u>	JOB FINISH <u>11:30</u>
LEASE # <u>Joseph #3</u>	WELL # <u>30 CD</u>	LOCATION <u>Oakley 11s 3E 5s</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>		<u>1W 1N E120</u>					

CONTRACTOR Murfin Drilling #14

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 219'

CASING SIZE 8 7/8 DEPTH 219'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 12.99 BDL

OWNER Same

CEMENT

AMOUNT ORDERED 175 sks com 38cc

28 gal

COMMON	<u>175 sks</u>	@	<u>16.25</u>	<u>2843.75</u>
POZMIX		@		
GEL	<u>3 sks</u>	@	<u>21.25</u>	<u>63.75</u>
CHLORIDE	<u>6 sks</u>	@	<u>58.20</u>	<u>349.20</u>
ASC		@		
		@		
		@		
		@		
		@		
		@		
		@		
HANDLING	<u>184 sks</u>	@	<u>2.25</u>	<u>414.00</u>
MILEAGE	<u>114.58/mile</u>			<u>404.80</u>
				TOTAL <u>4075.50</u>

EQUIPMENT

PUMP TRUCK CEMENTER Andrew

423-281 HELPER Terry

BULK TRUCK

404 DRIVER Terry

BULK TRUCK

DRIVER

REMARKS:

Cement did circulate

thank you

CHARGE TO: Ritchie Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>219'</u>		
PUMP TRUCK CHARGE			<u>1125.00</u>
EXTRA FOOTAGE		@	
MILEAGE	<u>20 miles KR2</u>	@	<u>2.00</u>
MANIFOLD	<u>head</u>	@	<u>200.00</u>
<u>light vehicle</u>		@	<u>4.00</u>
		@	
TOTAL <u>1765.00</u>			

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PLUG & FLOAT EQUIPMENT

	@		
	@		
	@		
	@		
	@		
TOTAL _____			

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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.

PRINTED NAME Craig Inrux

SIGNATURE [Signature]

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

R



RITCHIE

EXPLORATION, INC.
Wichita, Kansas

#3 Joseph 30CD

335' FSL & 1900' FEL

5' N & 80' E of S/2 SW SE Section 30-13S-31W

Gove County, Kansas

API# 15-063-21933-0000

Elevation: GL: 2911', KB: 2921'

Sample Tops			Ref. Well
Anhydrite	2396'	+525	-2
B/Anhydrite	2418'	+503	-1
Heebner	3899'	-978	+4
Toronto	3920'	-999	+9
Lansing	3944'	-1023	+5
Muncie Shale	4095'	-1174	+4
Stark Shale	4176'	-1255	+10
Hush	4214'	-1293	+8
BKC	4255'	-1334	+5
Marmaton	4275'	-1354	+4
Pawnee	4380'	-1459	+1
Myrick	4419'	-1498	flat
Fort Scott	4434'	-1513	+2
Cherokee Shale	4464'	-1543	+1
Johnson	4506'	-1585	+1
Morrow Sand	4541'	-1620	-7
Mississippian	4580'	-1659	-37
RTD	4700'	-1779	

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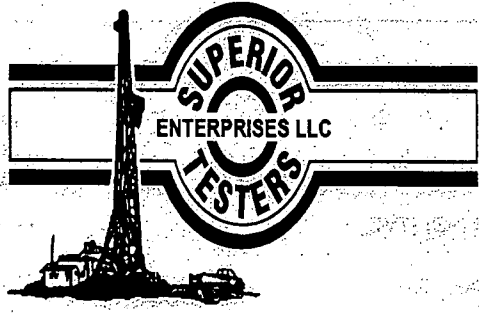
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DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd St N #700 Wichita KS
67278+3188

ATTN: Larry Friend

30-13-31 Gove

Joseph 30 cd #3

Start Date: 2011.07.29 @ 14:04:00

End Date: 2011.07.29 @ 21:14:30

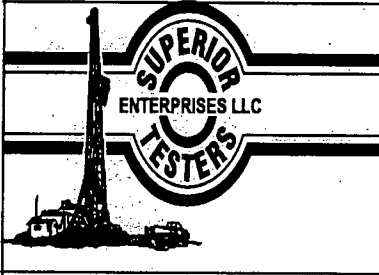
Job Ticket #: 16510 DST #: 1

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

ATTN: Larry Friend

Job Ticket: 16510

DST#: 1

Test Start: 2011.07.29 @ 14:04:00

GENERAL INFORMATION:

Formation: **Lansing "C Zone"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:17:30

Time Test Ended: 21:14:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Scott City-70

Interval: **3962.00 ft (KB) To 3994.00 ft (KB) (TVD)**

Total Depth: 3994.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2921.00 ft (KB)

2911.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419 Inside

Press@RunDepth: 431.49 psia @ 3990.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.07.29 End Date: 2011.07.29

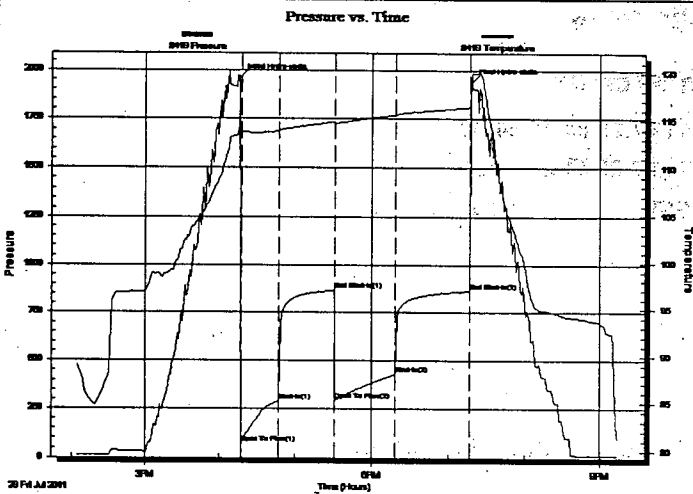
Last Calib.: 2011.07.29

Start Time: 14:05:00 End Time: 21:14:30

Time On Btm: 2011.07.29 @ 16:16:30

Time Off Btm: 2011.07.29 @ 19:18:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 11 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 14 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

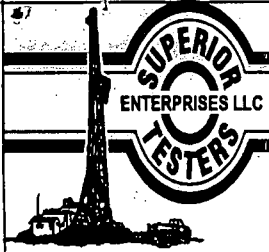
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1961.31	114.31	Initial Hydro-static
1	74.02	113.88	Open To Flow (1)
31	290.32	113.91	Shut-In(1)
75	868.72	114.86	End Shut-In(1)
75	295.06	114.72	Open To Flow (2)
122	431.49	115.56	Shut-In(2)
181	864.89	116.39	End Shut-In(2)
182	1940.10	119.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
570.00	Water 95% Water 5%Mud	3.67
285.00	Oil cut water Mud 10%Oil 10%Mud 80%	14.00
30.00	Water cut Heavy Oil 30% Water 70%Oil	0.42
0.00	Chlorides 58,000	0.00
0.00	Resistivity 1 @ 80 Degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

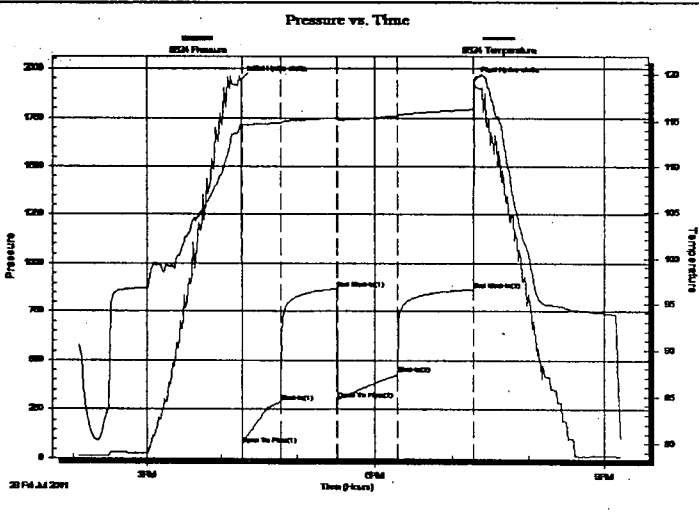
Ritchie Exploration Inc **Joseph 30 cd #3**
 8100 E 22nd St N #700 Wichita KS 67278+3188 **30-13-31 Gove**
 ATTN: Larry Friend Job Ticket: 16510 **DST#: 1**
Test Start: 2011.07.29 @ 14:04:00

GENERAL INFORMATION:

Formation: **Lansing "C Zone"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:17:30
 Time Test Ended: 21:14:30
 Interval: **3962.00 ft (KB) To 3994.00 ft (KB) (TVD)**
 Total Depth: 3994.00 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-70
 Reference Elevations: 2921.00 ft (KB)
 2911.00 ft (CF)
 KB:to GR/CF: 10.00 ft

Serial #: 8524 Outside
 Press@RunDepth: 865.18 psia @ 3991.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.07.29 End Date: 2011.07.29 Last Calib.: 2011.07.29
 Start Time: 14:05:00 End Time: 21:13:30 Time On Btm: 2011.07.29 @ 16:15:30
 Time Off Btm: 2011.07.29 @ 19:17:30

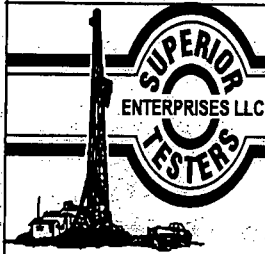
TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 11 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 14 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1942.55	114.80	Initial Hydro-static
1	69.82	114.53	Open To Flow (1)
31	288.29	114.79	Shut-In(1)
75	868.80	115.32	End Shut-In(1)
76	299.41	115.15	Open To Flow (2)
123	429.22	115.56	Shut-In(2)
181	865.18	116.30	End Shut-In(2)
182	1937.77	119.23	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
570.00	Water 95% Water 5%Mud	3.67
285.00	Oil cut water Mud 10%Oil 10%Mud 80%	4.00
30.00	Water cut Heavy Oil 30% Water 70%Oil	0.42
0.00	Chlorides 58,000	0.00
0.00	Resistivity 1 @ 80 Degrees	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16510

DST#: 1

ATTN: Larry Friend

Test Start: 2011.07.29 @ 14:04:00

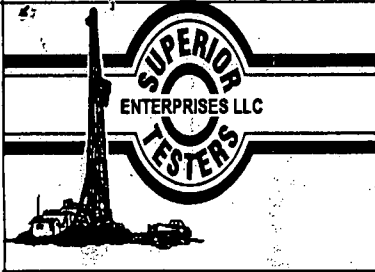
Tool Information

Drill Pipe:	Length: 3487.00 ft	Diameter: 3.80 inches	Volume: 48.91 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: 475.00 ft	Diameter: 2.25 inches	Volume: 2.34 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 51.25 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	28.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3962.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	60.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00		Inside	3939.00	
Hydraulic Tool	5.00			3944.00	
Jars	6.00			3950.00	
Safety Joint	2.00			3952.00	
Packer	5.00			3957.00	28.00 Bottom Of Top Packer
Packer	5.00			3962.00	
Anchor	27.00			3989.00	
Recorder	1.00	8419	Inside	3990.00	
Recorder	1.00	8524	Outside	3991.00	
Bullnose	3.00			3994.00	32.00 Bottom Packers & Anchor
Total Tool Length:	60.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc **Joseph 30 cd #3**
 8100 E 22nd St N #700 Wichita KS 67278+3188 **30-13-31 Gove**
 Job Ticket: 16510 **DST#: 1**
 ATTN: Larry Friend **Test Start: 2011.07.29 @ 14:04:00**

Mud and Cushion Information

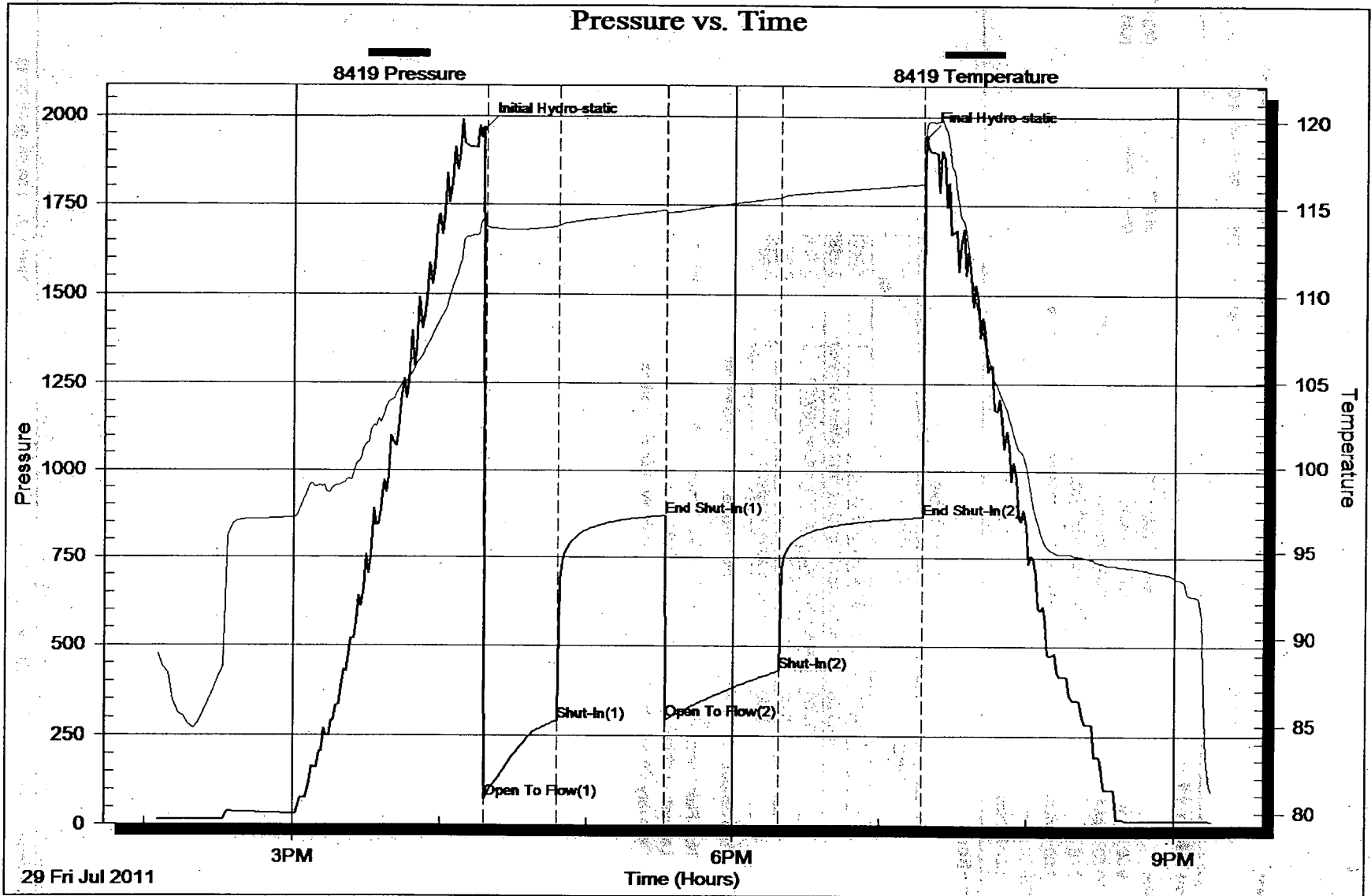
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 66.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.16 in ³	Gas Cushion Type:		
Resistivity: 1.00 ohm.m	Gas Cushion Pressure: psia		
Salinity: 2000.00 ppm			
Filter Cake: 1.00 inches			

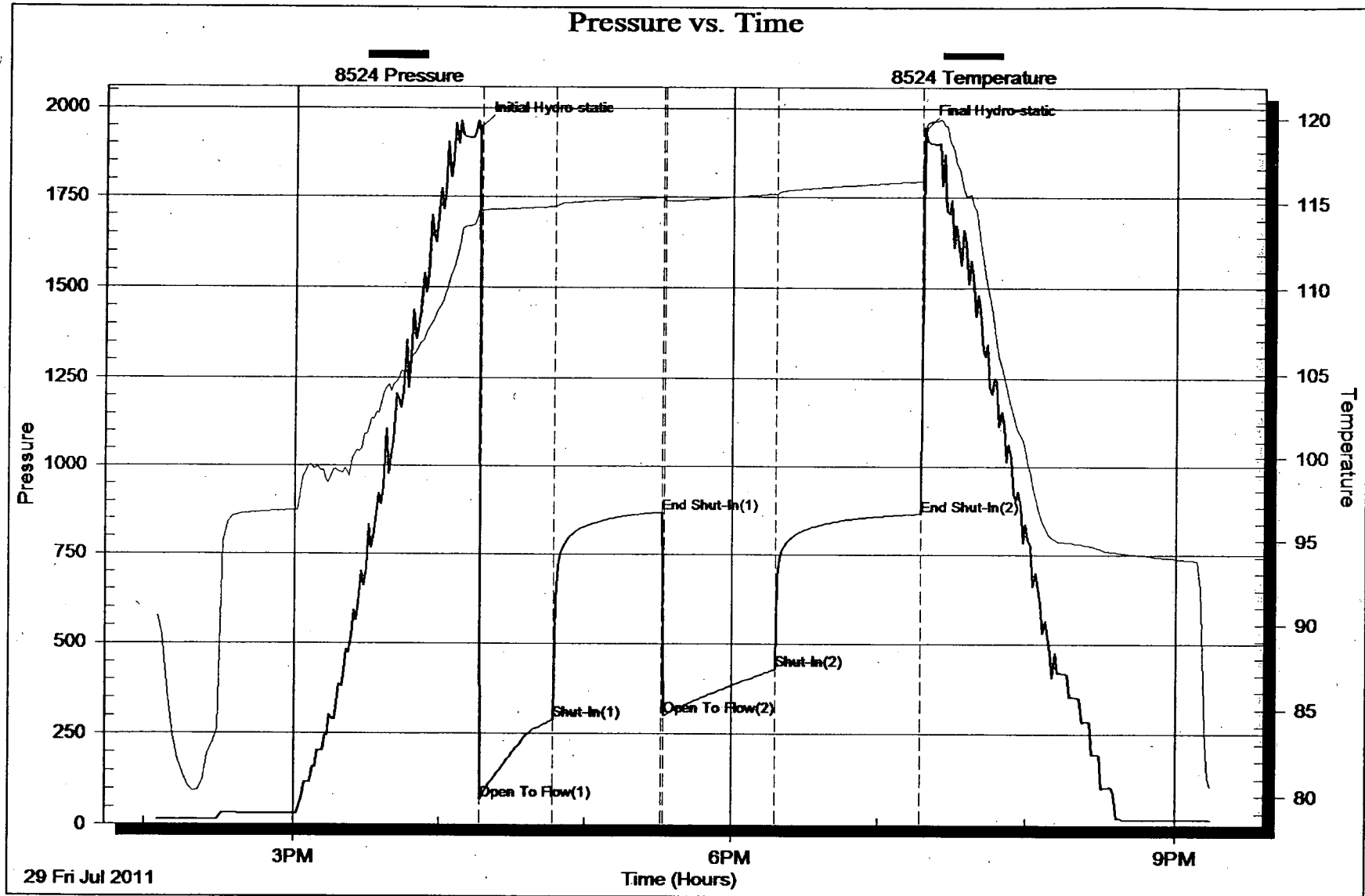
Recovery Information

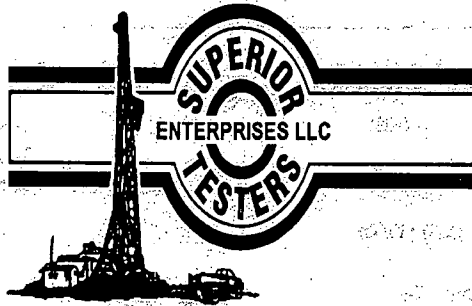
Recovery Table

Length ft	Description	Volume bbl
570.00	Water 95% Water 5%Mud	3.669
285.00	Oil cut w ater Mud 10%Oil 10%Mud 80%Wat	3.998
30.00	Water cut Heavy Oil 30% Water 70%Oil	0.421
0.00	Chlorides 58,000	0.000
0.00	Resistivity 1 @ 80 Degrees	0.000

Total Length: 885.00 ft Total Volume: 8.088 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments: Chlorides 58,000 Resistivity 1 @ 80 Degrees







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd St N #700 Wichita KS
67278+3188

ATTN: Larry Friend

30-13-31 Gove

Joseph 30 cd #3

Start Date: 2011.07.30 @ 04:12:00

End Date: 2011.07.30 @ 11:08:00

Job Ticket #: 16511 DST #: 2

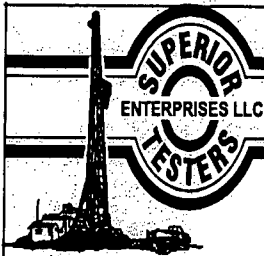
Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2011.08.08 @ 08:20:43

Ritchie Exploration Inc
Joseph 30 cd #3
30-13-31 Gove
DST # 2
Lansing " D zone "
2011.07.30



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16511

DST#: 2

ATTN: Larry Friend

Test Start: 2011.07.30 @ 04:12:00

GENERAL INFORMATION:

Formation: **Lansing "D zone"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 06:14:30

Time Test Ended: 11:08:00

Test Type: Conventional Bottom Hole (Real-Time)

Tester: Jared Scheck

Unit No: 3320-Scott City -70

Interval: **3986.00 ft (KB) To 4012.00 ft (KB) (TVD)**

Total Depth: 4012.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2921.00 ft (KB)

2911.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419

Inside

Press@RunDepth: 267.70 psia @ 4008.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.07.30 End Date: 2011.07.30

Last Calib.: 2011.07.30

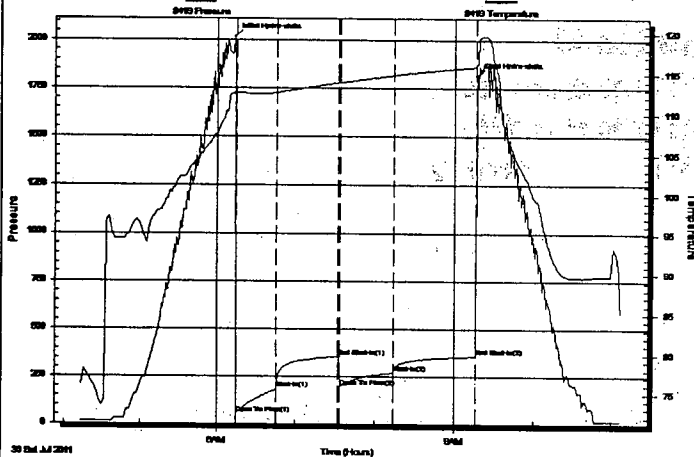
Start Time: 04:13:00 End Time: 11:08:00

Time On Btm: 2011.07.30 @ 06:13:00

Time Off Btm: 2011.07.30 @ 09:16:30

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built bottom of bucket in 25 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Fair blow built 3-inches from bottom of bucket in 45 minutes
 2nd Shut-in 60 Minutes-No blow back

Pressure vs. Time



PRESSURE SUMMARY

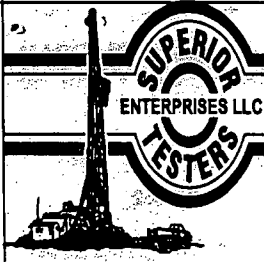
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2017.43	112.46	Initial Hydro-static
2	51.15	112.64	Open To Flow (1)
33	182.09	112.64	Shut-In(1)
79	355.09	113.89	End Shut-In(1)
81	193.09	113.89	Open To Flow (2)
121	267.70	114.85	Shut-In(2)
183	357.04	115.95	End Shut-In(2)
184	1817.74	116.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
30.00	Muddy w ater 40% mud 60% w ater	0.15
510.00	Water 5% mud 95% w ater	2.51
0.00	Chlorides 48,000	0.00
0.00	Resistivity .9 @ 86 degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

ATTN: Larry Friend

Job Ticket: 16511

DST#: 2

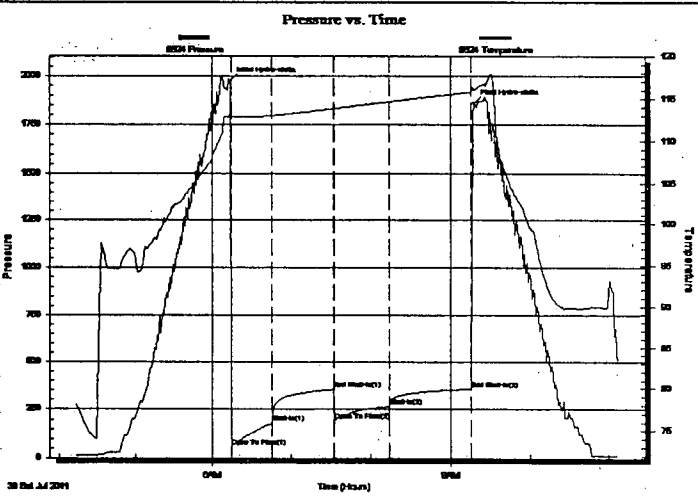
Test Start: 2011.07.30 @ 04:12:00

GENERAL INFORMATION:

Formation: **Lansing " Dzone "**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 06:14:30
 Time Test Ended: 11:08:00
 Interval: **3986.00 ft (KB) To 4012.00 ft (KB) (TVD)**
 Total Depth: **4012.00 ft (KB) (TVD)**
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: **Conventional Bottom Hole: (Real-Time)**
 Tester: **Jared Scheck**
 Unit No: **3320-Scott City -70**
 Reference Elevations: **2921.00 ft (KB)**
2911.00 ft (CF)
 KB to GR/CF: **10.00 ft**

Serial #: 8524 Outside
 Press@RunDepth: 356.58 psia @ 4009.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.07.30 End Date: 2011.07.30 Last Calib.: 2011.07.30
 Start Time: 04:13:00 End Time: 11:07:30 Time On Btm: 2011.07.30 @ 06:13:30
 Time Off Btm: 2011.07.30 @ 09:17:30

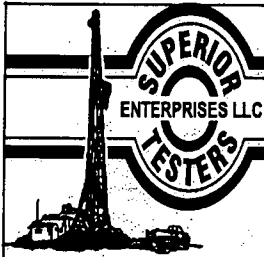
TEST COMMENT: 1st Opening 30 Minutes-Fair blow built bottom of bucket in 25 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Fair blow built 3 inches from bottom of bucket in 45 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1975.48	113.25	Initial Hydro-static
1	56.51	112.87	Open To Flow (1)
32	180.86	112.99	Shut-In(1)
79	354.33	113.86	End Shut-In(1)
79	192.13	113.86	Open To Flow (2)
120	266.40	114.67	Shut-In(2)
182	356.58	115.77	End Shut-In(2)
184	1862.62	115.94	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
30.00	Muddy w water 40% mud 60% water	0.15
510.00	Water 5% mud 95% water	2.51
0.00	Chlorides 48,000	0.00
0.00	Resistivity .9 @ 86 degrees	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
 8100 E 22nd St N #700 Wichita KS 67278+3188
 ATTN: Larry Friend

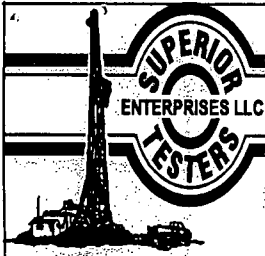
Joseph 30 cd #3
 30-13-31 Gove
 Job Ticket: 16511 DST#: 2
 Test Start: 2011.07.30 @ 04:12:00

Tool Information

Drill Pipe:	Length: 3392.00 ft	Diameter: 3.80 inches	Volume: 47.58 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: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose: 84000.00 lb
			Total Volume: 50.38 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	4.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3986.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	54.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	3963.00	
Hydrolic Tool	5.00			3968.00	
Jars	6.00			3974.00	
Safety Joint	2.00			3976.00	
Packer	5.00			3981.00	28.00 Bottom Of Top Packer
Packer	5.00			3986.00	
Anchor	21.00			4007.00	
Recorder	1.00	8419	Inside	4008.00	
Recorder	1.00	8524	Outside	4009.00	
Bullnose	3.00			4012.00	26.00 Bottom Packers & Anchor
Total Tool Length:	54.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16511

DST#: 2

ATTN: Larry Friend

Test Start: 2011.07.30 @ 04:12:00

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: 66.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: 0.90 ohm.m

Gas Cushion Pressure:

psia

Salinity: 2000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
30.00	Muddy water 40% mud 60% water	0.148
510.00	Water 5% mud 95% water	2.508
0.00	Chlorides 48,000	0.000
0.00	Resistivity .9 @ 86 degrees	0.000

Total Length: 540.00 ft

Total Volume: 2.656 bbl

Num Fluid Samples: 0

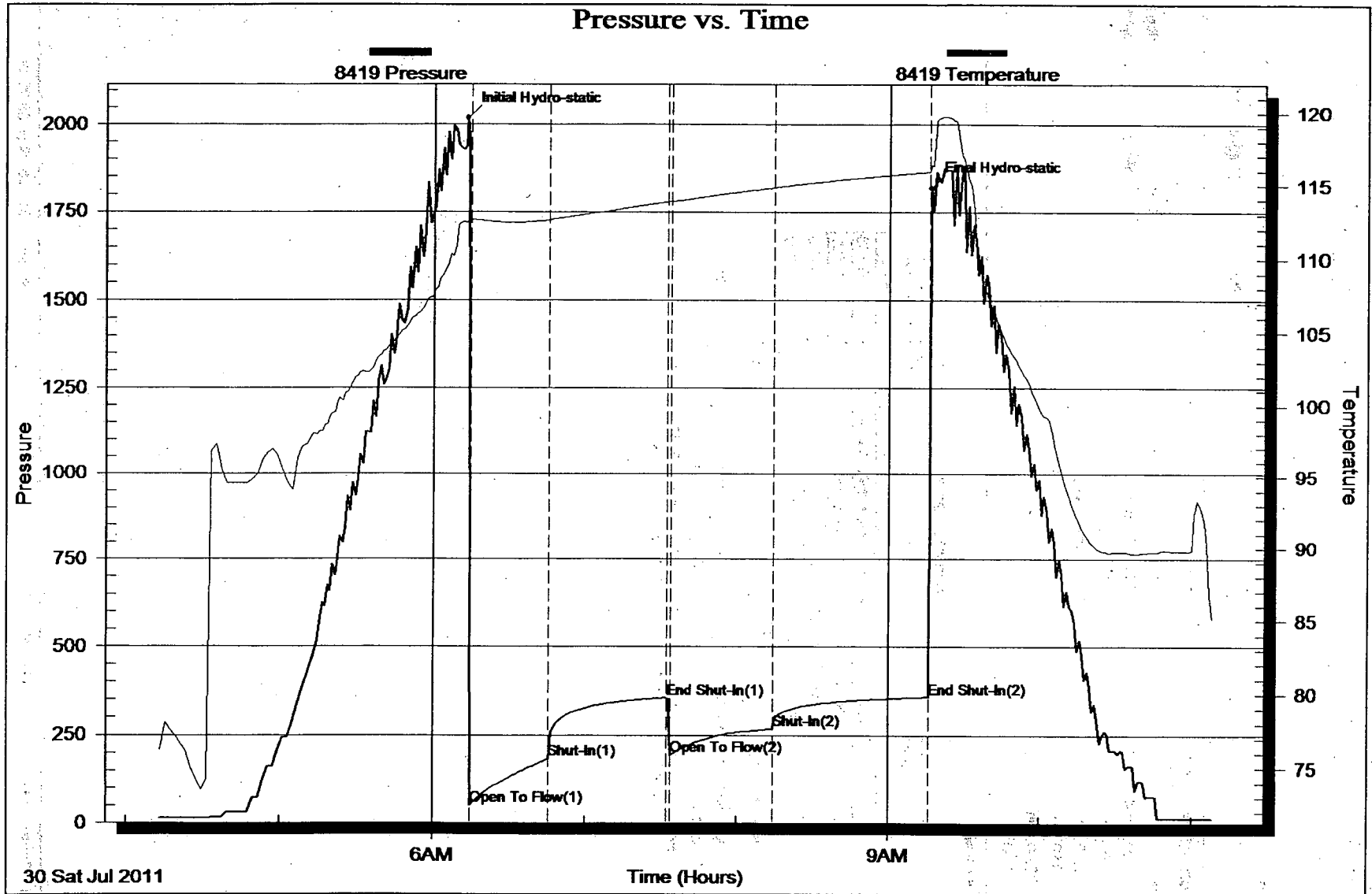
Num Gas Bombs: 0

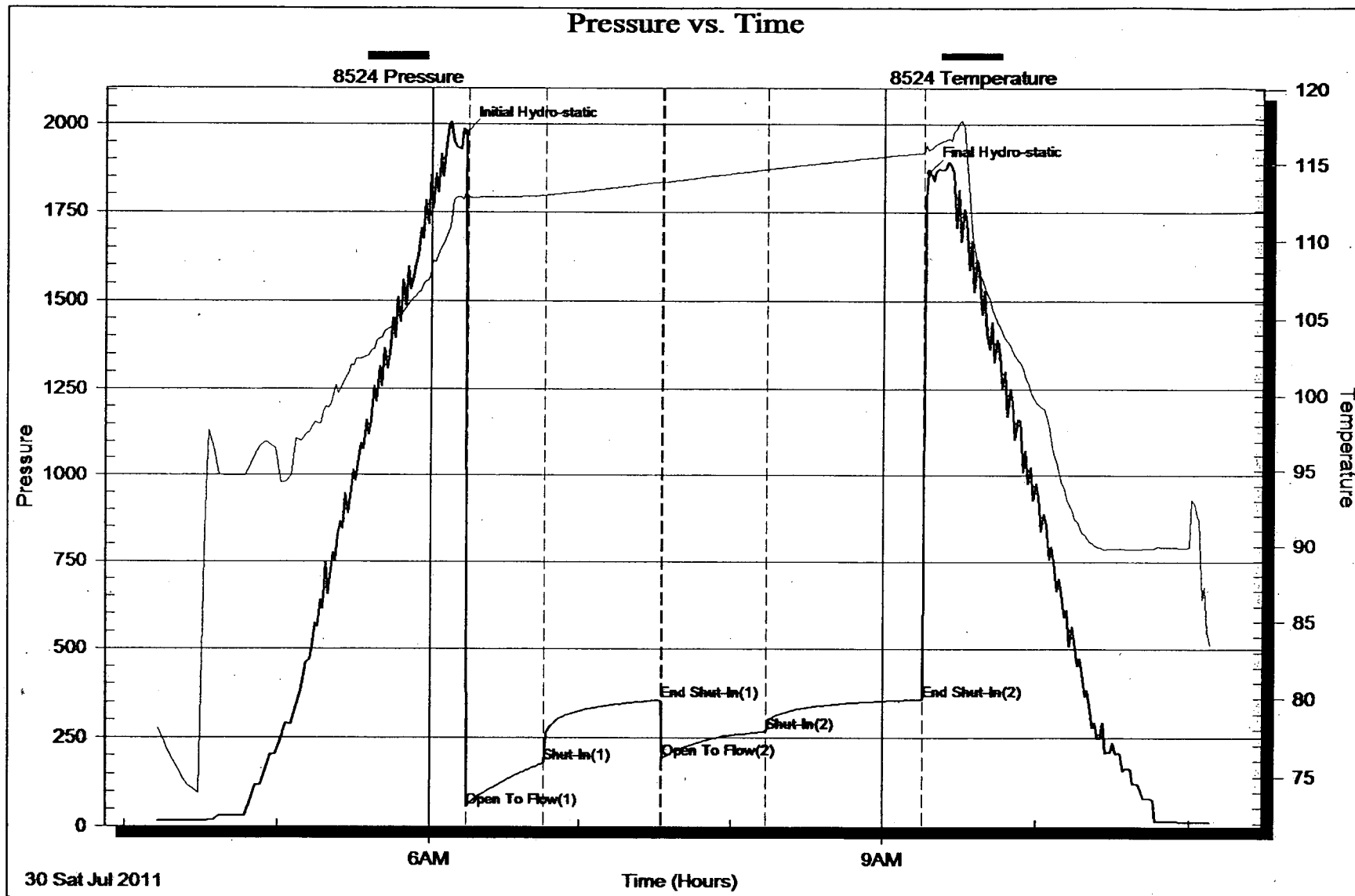
Serial #:

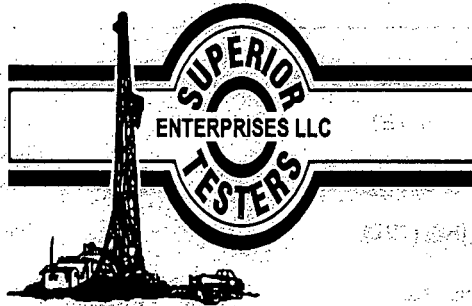
Laboratory Name:

Laboratory Location:

Recovery Comments: Chlorides 48,000 Resistivity .9 @ 86 degrees







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**
8100 E 22nd St N #700 Wichita KS
67278+3188

ATTN: Larry Friend

30-13-31 Gove

Joseph 30 cd #3

Start Date: 2011.07.30 @ 18:01:00

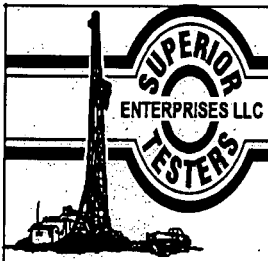
End Date: 2011.07.30 @ 23:05:00

Job Ticket #: 16512 DST #: 3

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

Printed: 2011.08.08 @ 08:20:56

Ritchie Exploration Inc
Joseph 30 cd #3
30-13-31 Gove
DST # 3
Lansing "E zone"
2011.07.30



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16512

DST#: 3

ATTN: Larry Friend

Test Start: 2011.07.30 @ 18:01:00

GENERAL INFORMATION:

Formation: **Lansing "Ezone"**
 Deviated: No Whipstock:
 Time Tool Opened: 19:40:30
 Time Test Ended: 23:05:00

ft (KB)

Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 3320-Scott City-70

Interval: **4008.00 ft (KB) To 4034.00 ft (KB) (TVD)**
 Total Depth: **4034.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair

Reference Elevations: **2921.00 ft (KB)**
2911.00 ft (CF)
 KB to GR/CF: **10.00 ft**

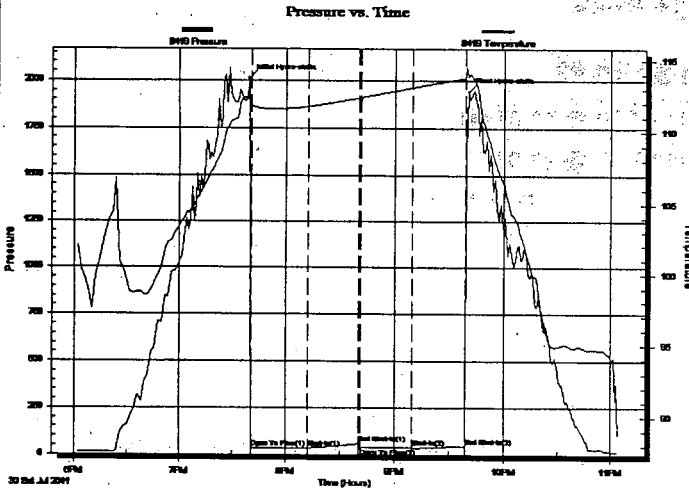
Serial #: 8419

Inside

Press@RunDepth: **37.69 psia @ 4030.00 ft (KB)**
 Start Date: **2011.07.30** End Date: **2011.07.30**
 Start Time: **18:02:00** End Time: **23:05:00**

Capacity: **5000.00 psia**
 Last Calib.: **2011.07.30**
 Time On Btm: **2011.07.30 @ 19:39:30**
 Time Off Btm: **2011.07.30 @ 21:40:30**

TEST COMMENT: 1st Opening 30 Minutes-Weak surge died off
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes -No blow flushed tool good surge did not build
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

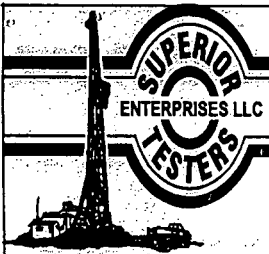
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2011.81	112.39	Initial Hydro-static
1	35.37	111.93	Open To Flow (1)
33	35.79	111.80	Shut-In(1)
61	59.43	112.39	End Shut-In(1)
62	36.25	111.83	Open To Flow (2)
90	37.69	113.10	Shut-In(2)
120	47.48	113.75	End Shut-In(2)
121	1941.00	113.81	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita:KS 67278+3188

30-13-31 Gove

ATTN: Larry Friend

Job Ticket: 16512

DST#: 3

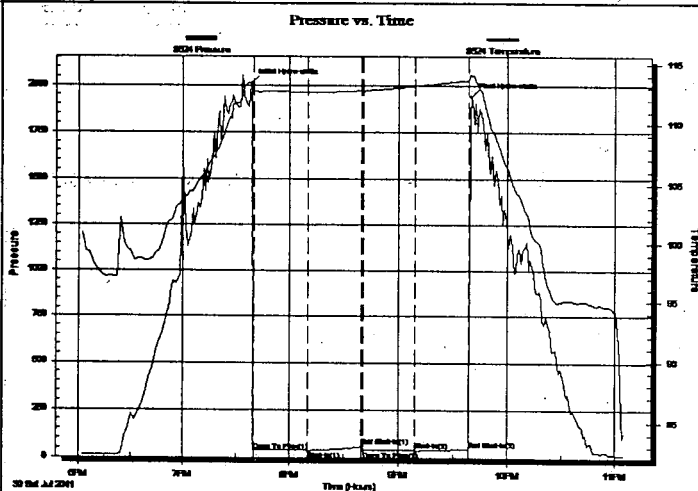
Test Start: 2011.07.30 @ 18:01:00

GENERAL INFORMATION:

Formation: **Lansing "E zone"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 19:40:30
 Time Test Ended: 23:05:00
 Interval: 4008.00 ft (KB) To 4034.00 ft (KB) (TVD)
 Total Depth: 4034.00 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-70
 Reference Elevations: 2921.00 ft (KB)
 2911.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8524 Outside
 Press@RunDepth: 46.74 psia @ 4031.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.07.30 End Date: 2011.07.30 Last Calib.: 2011.07.30
 Start Time: 18:02:00 End Time: 23:05:30 Time On Btm: 2011.07.30 @ 19:39:00
 Time Off Btm: 2011.07.30 @ 21:40:00

TEST COMMENT: 1st Opening 30 Minutes-Weak surge died off
 1st Shut-in 30 Minutes-No blow back
 2nd Opening 30 Minutes-No blow flushed tool good surge did not build
 2nd Shut-in 30 Minutes-No blow back



PRESSURE SUMMARY

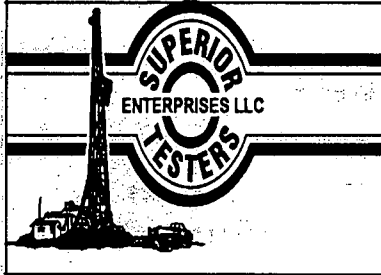
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2011.05	113.30	Initial Hydro-static
1	37.35	112.77	Open To Flow (1)
31	35.72	112.64	Shut-In(1)
61	58.35	112.77	End Shut-In(1)
62	36.52	112.46	Open To Flow (2)
90	38.04	113.14	Shut-In(2)
120	46.74	113.63	End Shut-In(2)
121	1940.94	114.06	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1.00	Mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16512

DST#: 3

ATTN: Larry Friend

Test Start: 2011.07.30 @ 18:01:00

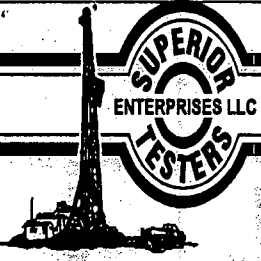
Tool Information

Drill Pipe:	Length: 3421.00 ft	Diameter: 3.80 inches	Volume: 47.99 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: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 50.79 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4008.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-In Tool	5.00		Inside	3991.00	
Hydrolic Tool	5.00			3996.00	
Safety Joint	2.00			3998.00	
Packer	5.00			4003.00	22.00 Bottom Of Top Packer
Packer	5.00			4008.00	
Anchor	21.00			4029.00	
Recorder	1.00	8419	Inside	4030.00	
Recorder	1.00	8524	Outside	4031.00	
Bullnose	3.00			4034.00	26.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16512

DST#: 3

ATTN: Larry Friend

Test Start: 2011.07.30 @ 18:01:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 65.00 sec/qt
Water Loss: 7.16 in³
Resistivity: ohm.m
Salinity: 3200.00 ppm
Filter Cake: 1.00 inches

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

Oil API: deg API
Water Salinity: ppm

Recovery Information

Recovery Table

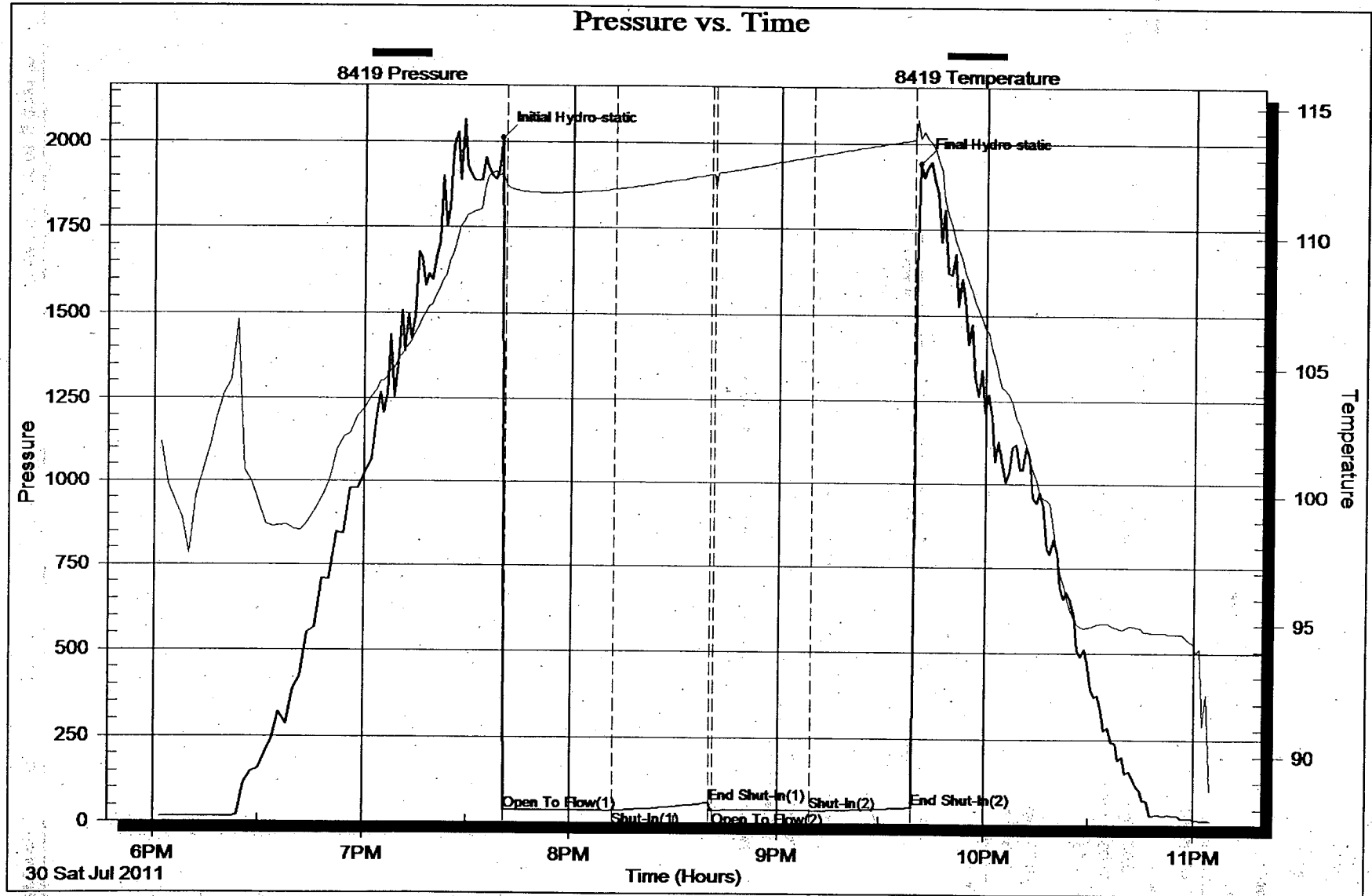
Length ft	Description	Volume bbl
1.00	Mud	0.005

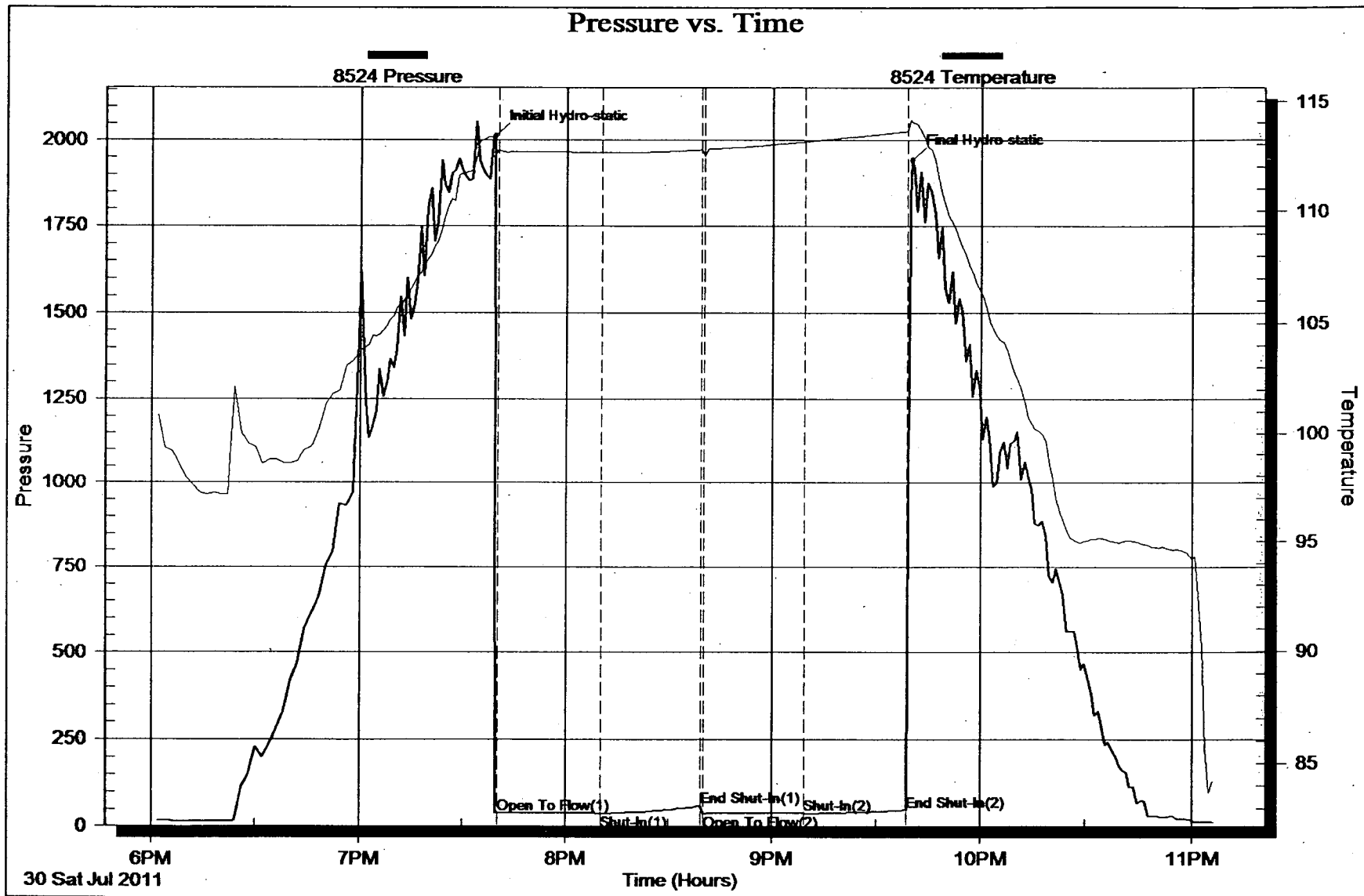
Total Length: 1.00 ft Total Volume: 0.005 bbl

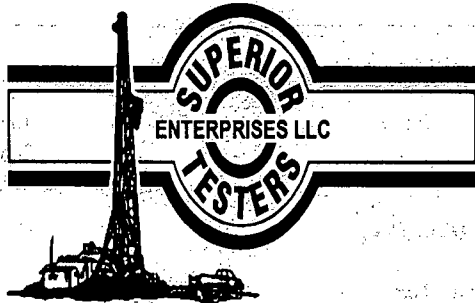
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Flushed tool on 2nd open good surge did not build







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd St N #700 Wichita KS
67278+3188

ATTN: Larry Friend

30-13-31 Gove

Joseph 30 cd #3

Start Date: 2011.07.31 @ 09:39:00

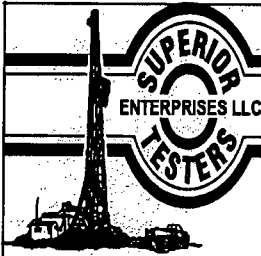
End Date: 2011.07.31 @ 16:22:30

Job Ticket #: 16513 DST #: 4

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

Printed: 2011.08.08 @ 08:21:20

Ritchie Exploration Inc
Joseph 30 cd #3
30-13-31 Gove
DST # 4
Lansing "H zone"
2011.07.31



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

ATTN: Larry Friend

Job Ticket: 16513

DST#: 4

Test Start: 2011.07.31 @ 09:39:00

GENERAL INFORMATION:

Formation: **Lansing "H zone"**

Deviated: **No Whipstock:** ft (KB)

Time Tool Opened: 11:35:30

Time Test Ended: 16:22:30

Test Type: **Conventional Bottom Hole (Initial)**

Tester: **Jared Scheck**

Unit No: **3320-Scott City -70**

Interval: **4086.00 ft (KB) To 4122.00 ft (KB) (TVD)**

Total Depth: **4122.00 ft (KB) (TVD)**

Hole Diameter: **7.88 inches** Hole Condition: **Fair**

Reference Elevations: **2921.00 ft (KB)**

2911.00 ft (CF)

KB to GR/CF: **10.00 ft**

Serial #: 8419 **Inside**

Press@RunDepth: **133.09 psia @ 4118.00 ft (KB)**

Capacity: **5000.00 psia**

Start Date: **2011.07.31** End Date: **2011.07.31**

Last Calib.: **2011.07.31**

Start Time: **09:40:00** End Time: **16:22:30**

Time On Btm: **2011.07.31 @ 11:34:00**

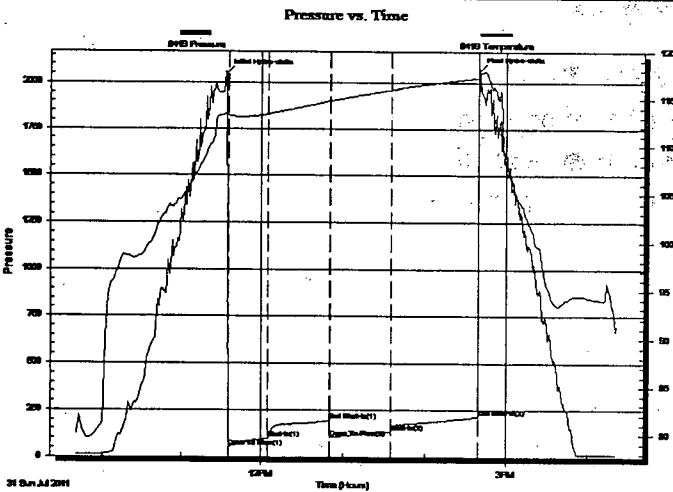
Time Off Btm: **2011.07.31 @ 14:40:00**

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 13 minutes

1st Shut-in 45 Minutes-No blow back

2nd Opening 45 Minutes-Fair blow built bottom of bucket in 17 minutes

2nd Shut-in 60 Minutes-Very weak



PRESSURE SUMMARY

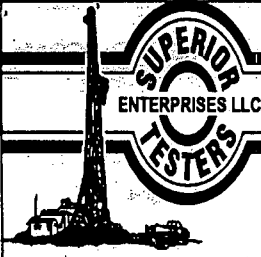
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2051.91	113.61	Initial Hydro-static
2	49.19	113.30	Open To Flow (1)
31	96.91	113.43	Shut-In(1)
77	192.50	114.82	End Shut-In(1)
78	103.69	114.83	Open To Flow (2)
121	133.09	115.98	Shut-In(2)
185	214.58	117.27	End Shut-In(2)
186	2067.14	117.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	Heavy oil cut mud 30%gas 30%mud 40%	0.93
95.00	Cean gassy oil 10%gas 90%oil	0.47
570.00	Gas in pipe	5.40
0.00	Gravity 45	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16513

DST#: 4

ATTN: Larry Friend

Test Start: 2011.07.31 @ 09:39:00

GENERAL INFORMATION:

Formation: **Lansing "Hzone"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 11:35:30

Time Test Ended: 16:22:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Scott City -70

Interval: 4086.00 ft (KB) To 4122.00 ft (KB) (TVD)

Total Depth: 4122.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2921.00 ft (KB)

2911.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8425

Outside

Press@RunDepth: 213.80 psia @ 4119.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.07.31

End Date:

2011.07.31

Last Calib.:

2011.07.31

Start Time: 09:40:00

End Time:

16:22:30

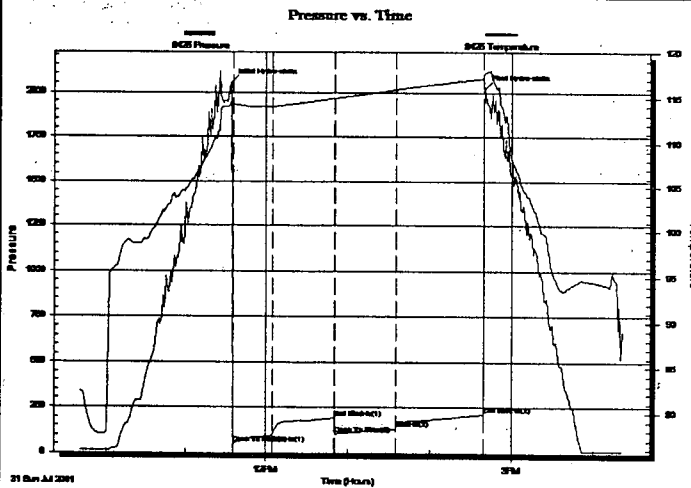
Time On Btm:

2011.07.31 @ 11:34:30

Time Off Btm:

2011.07.31 @ 14:40:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 13 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Fair blow built bottom of bucket in 17 minutes
 2nd Shut-in 60 Minutes-Very weak



PRESSURE SUMMARY

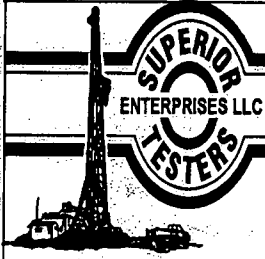
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2049.03	114.75	Initial Hydro-static
1	49.92	114.36	Open To Flow (1)
31	96.20	114.06	Shut-In(1)
76	191.82	114.97	End Shut-In(1)
77	103.71	114.99	Open To Flow (2)
121	135.41	115.93	Shut-In(2)
185	213.80	117.14	End Shut-In(2)
186	2016.31	117.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	Heavy oil cut mud 30%gas 30%mud 40%	0.93
95.00	Cean gassy oil 10%gas 90%oil	0.47
570.00	Gas in pipe	5.40
0.00	Gravity 45	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16513

DST#: 4

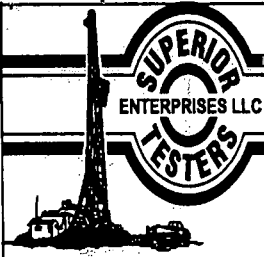
ATTN: Larry Friend

Test Start: 2011.07.31 @ 09:39:00

Tool Information

Drill Pipe:	Length: 3517.00 ft	Diameter: 3.80 inches	Volume: 49.33 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: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 52.13 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4086.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	36.00 ft			
Tool Length:	58.00 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		Inside	4069.00	
Hydraulic Tool	5.00			4074.00	
Safety Joint	2.00			4076.00	
Packer	5.00			4081.00	22.00 Bottom Of Top Packer
Packer	5.00			4086.00	
Anchor	31.00			4117.00	
Recorder	1.00	8419	Inside	4118.00	
Recorder	1.00	8425	Outside	4119.00	
Bullnose	3.00			4122.00	36.00 Bottom Packers & Anchor
Total Tool Length:	58.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16513

DST#: 4

ATTN: Larry Friend

Test Start: 2011.07.31 @ 09:39:00

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:

bbbl

Water Loss: 7.16 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 3200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	Heavy oil cut mud 30%gas 30%mud 40%oil	0.934
95.00	Cean gassy oil 10%gas 90%oil	0.467
570.00	Gas in pipe	5.399
0.00	Gravity 45	0.000

Total Length: 855.00 ft

Total Volume: 6.800 bbl

Num Fluid Samples: 0

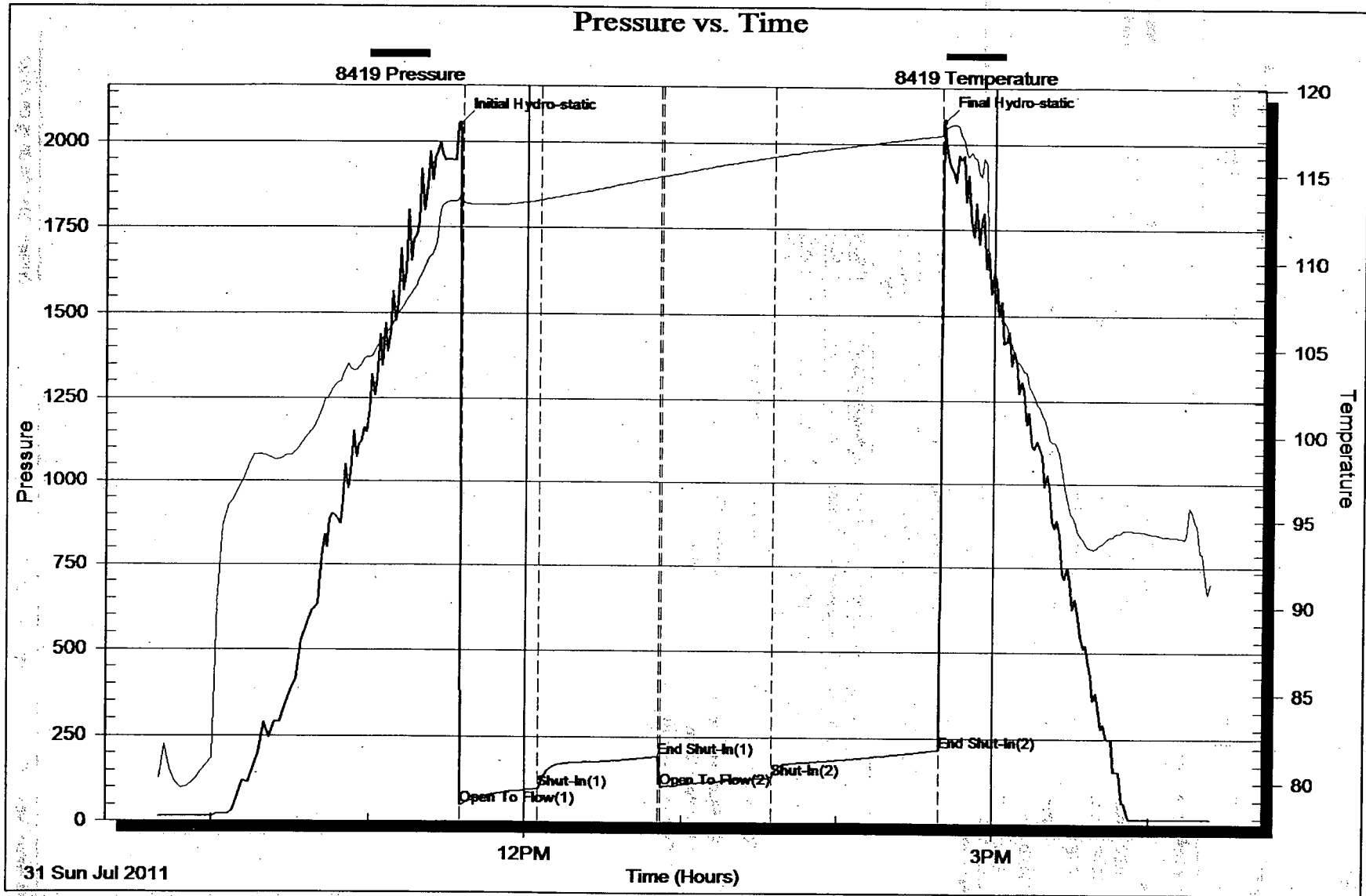
Num Gas Bombs: 0

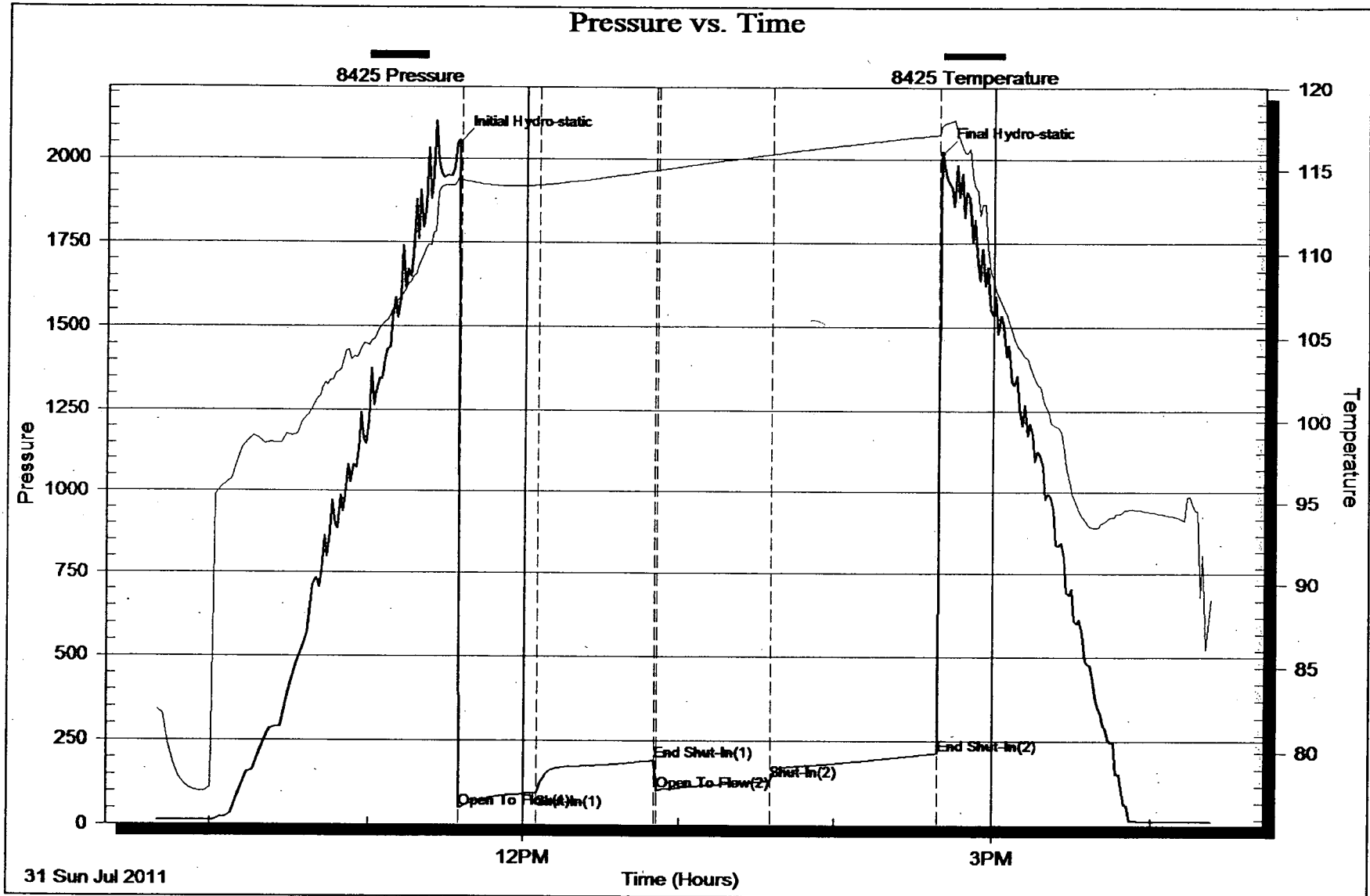
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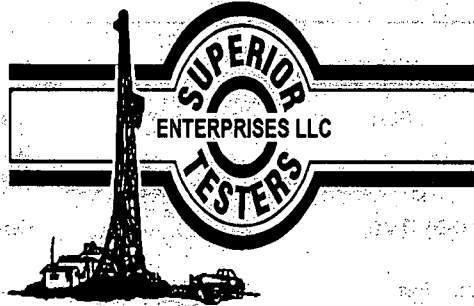
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd St N #700 Wichita KS
67278+3188

ATTN: Larry Friend

30-13-31 Gove

Joseph 30 cd #3

Start Date: 2011.08.01 @ 00:25:00

End Date: 2011.08.01 @ 07:11:00

Job Ticket #: 16514 DST #: 5

Superior Testers Enterprises LLC

PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2011.08.08 @ 08:21:34

Ritchie Exploration Inc

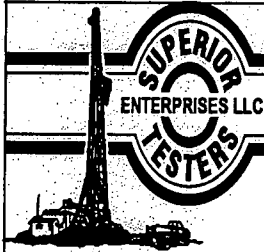
Joseph 30 cd #3

30-13-31 Gove

DST # 5

Lansing "I zone"

2011.08.01



DRILL STEM TEST REPORT

Ritchie Exploration Inc
 8100 E22nd St N #700 Wichita KS 67278+3188
 ATTN: Larry Friend

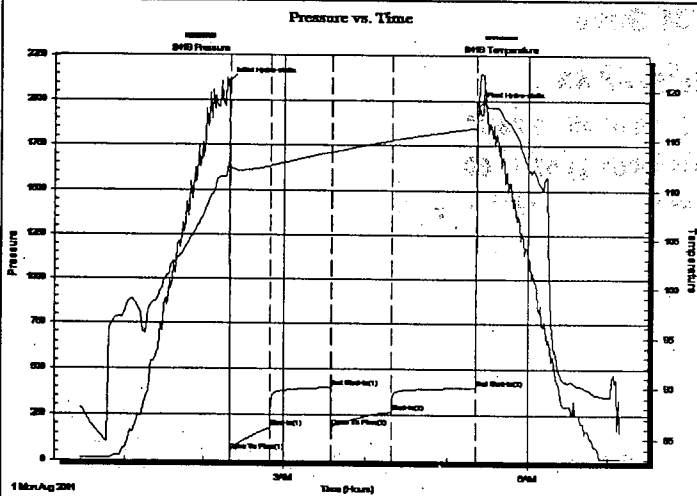
Joseph 30 cd #3
30-13-31 Gove
 Job Ticket: 16514 DST#: 5
 Test Start: 2011.08.01 @ 00:25:00

GENERAL INFORMATION:

Formation: **Lansing "I zone"**
 Deviated: **No Whipstock:** ft (KB)
 Time Tool Opened: 02:20:30
 Time Test Ended: 07:11:00
 Interval: **4125.00 ft (KB) To 4160.00 ft (KB) (TVD)**
 Total Depth: **4160.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair**
 Test Type: **Conventional Bottom Hole (Initial)**
 Tester: **Jared Scheck**
 Unit No: **33200-Scott city-70**
 Reference Elevations: 2921.00 ft (KB)
 2911.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8419 **Inside**
 Press@RunDepth: 263.42 psia @ 4156.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2011.08.01 End Date: 2011.08.01 Last Calib.: 2011.08.01
 Start Time: 00:26:00 End Time: 07:11:00 Time On Btm: 2011.08.01 @ 02:19:30
 Time Off Btm: 2011.08.01 @ 05:23:30

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built bottom of bucket in 26 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak building blow built bottom of bucket in 45 minutes
 2nd Shut-in 60 Minutes-Very weak



PRESSURE SUMMARY

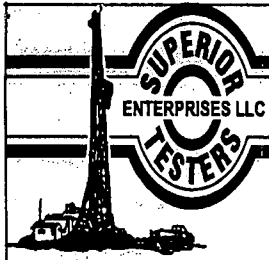
Time (Min)	Pressure (psia)	Temp (deg F)	Annotation
0	2110.17	112.88	Initial Hydro-static
1	54.16	112.28	Open To Flow (1)
31	177.88	112.39	Shut-In(1)
76	397.40	113.83	End Shut-In(1)
77	186.13	113.81	Open To Flow (2)
120	263.42	115.00	Shut-In(2)
183	398.86	116.34	End Shut-In(2)
184	1973.09	120.51	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
220.00	Slightly oil cut muddy w ater	1.08
0.00	5%oil 40%mud 55%w ater	0.00
95.00	Oil cut muddy w ater	0.47
0.00	5%w ater 25%oil 70%mud	0.00
95.00	Oily mud 15%oil 85%mud	0.47
0.00	95 feet gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc
 8100 E 22nd St N #700 Wichita KS 67278+3188
 ATTN: Larry Friend

Joseph 30 cd #3
30-13-31 Gove
 Job Ticket: 16514 **DST# 5**
 Test Start: 2011.08.01 @ 00:25:00

GENERAL INFORMATION:

Formation: **Lansing "I zone"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 02:20:30
 Time Test Ended: 07:11:00
 Interval: **4125.00 ft (KB) To 4160.00 ft (KB) (TVD)**
 Total Depth: 4160.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Test Type: Conventional Bottom Hole (Initial)
 Tester: Jared Scheck
 Unit No: 33200-Scott city-70
 Reference Elevations: 2921.00 ft (KB)
 2911.00 ft (CF)
 KB to GR/CF: 10.00 ft

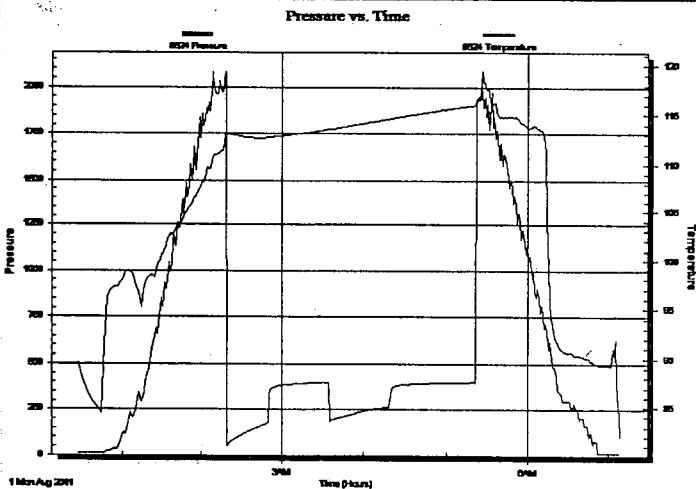
Serial #: 8524

Outside

Press@RunDepth: psia @ 4157.00 ft (KB)
 Start Date: 2011.08.01 End Date: 2011.08.01
 Start Time: 00:26:00 End Time: 07:10:00

Capacity: 5000.00 psia
 Last Calib.: 2011.08.01
 Time On Btm:
 Time Off Btm:

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built bottom of bucket in 26 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-Weak building blow built bottom of bucket in 45 minutes
 2nd Shut-in 60 Minutes-Very weak



PRESSURE SUMMARY

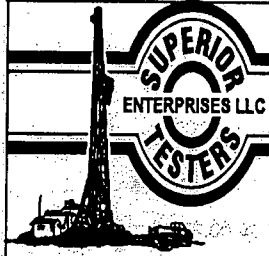
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation

Recovery

Length (ft)	Description	Volume (bbl)
220.00	Slightley oil cut muddy w ater	1.08
0.00	5%oil 40%mud 55%w ater	0.00
95.00	Oil cut muddy w ater	0.47
0.00	5%w ater 25%oil 70%mud	0.00
95.00	Oily mud 15%oil 85%mud	0.47
0.00	95 feet gas in pipe	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
 8100 E 22nd St N #700 Wichita KS 67278+3188
 ATTN: Larry Friend

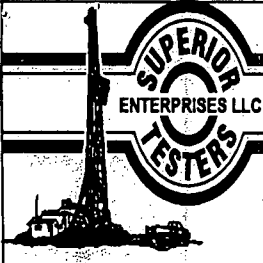
Joseph 30 cd #3
 30-13-31 Gove
 Job Ticket: 16514 DST#: 5
 Test Start: 2011.08.01 @ 00:25:00

Tool Information

Drill Pipe:	Length: 3548.00 ft	Diameter: 3.80 inches	Volume: 49.77 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: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose:	80000.00 lb
			Total Volume: 52.57 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	68000.00 lb
Depth to Top Packer:	4125.00 ft			Final	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	35.00 ft				
Tool Length:	57.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		
Tool Comments:					

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-InTool	5.00		Inside	4108.00	
Hydraulic Tool	5.00			4113.00	
Safety Joint	2.00			4115.00	
Packer	5.00			4120.00	22.00 Bottom Of Top Packer
Packer	5.00			4125.00	
Anchor	30.00			4155.00	
Recorder	1.00	8419	Inside	4156.00	
Recorder	1.00	8524	Outside	4157.00	
Bullnose	3.00			4160.00	35.00 Bottom Packers & Anchor
Total Tool Length:	57.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16514 DST#: 5

ATTN: Larry Friend

Test Start: 2011.08.01 @ 00:25:00

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: 63.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in*

Gas Cushion Type:

Resistivity: 2.00 ohm.m

Gas Cushion Pressure:

psia

Salinity: 3400.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
220.00	Slightley oil cut muddy w ater	1.082
0.00	5%oil 40%mud 55%w ater	0.000
95.00	Oil cut muddy w ater	0.467
0.00	5%w ater 25%oil 70%mud	0.000
95.00	Oily mud 15%oil 85%mud	0.467
0.00	95 feet gas in pipe	0.000
0.00	chlorides 38,000	0.000

Total Length: 410.00 ft Total Volume: 2.016 bbl

Num Fluid Samples: 0

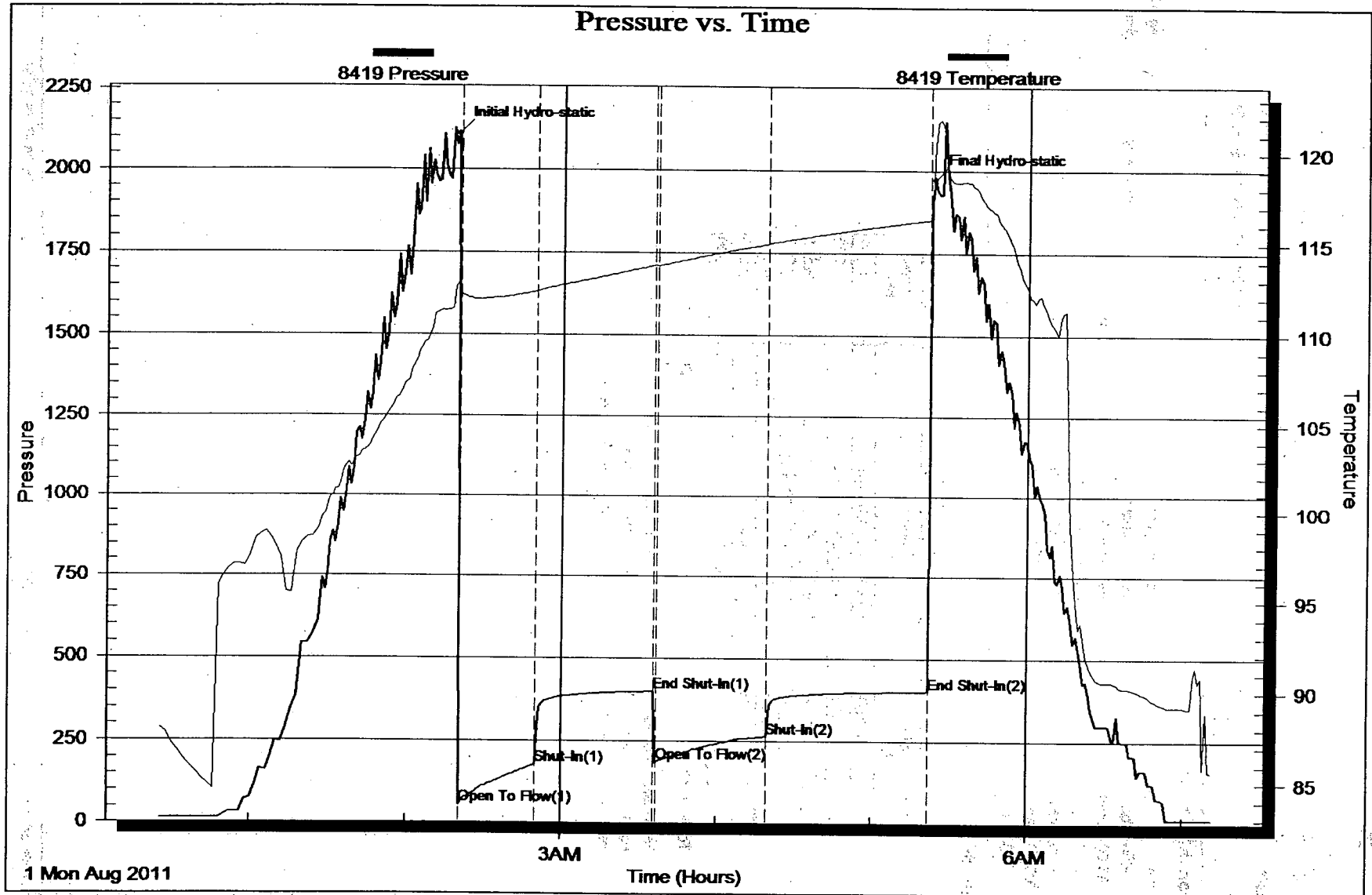
Num Gas Bombs: 0

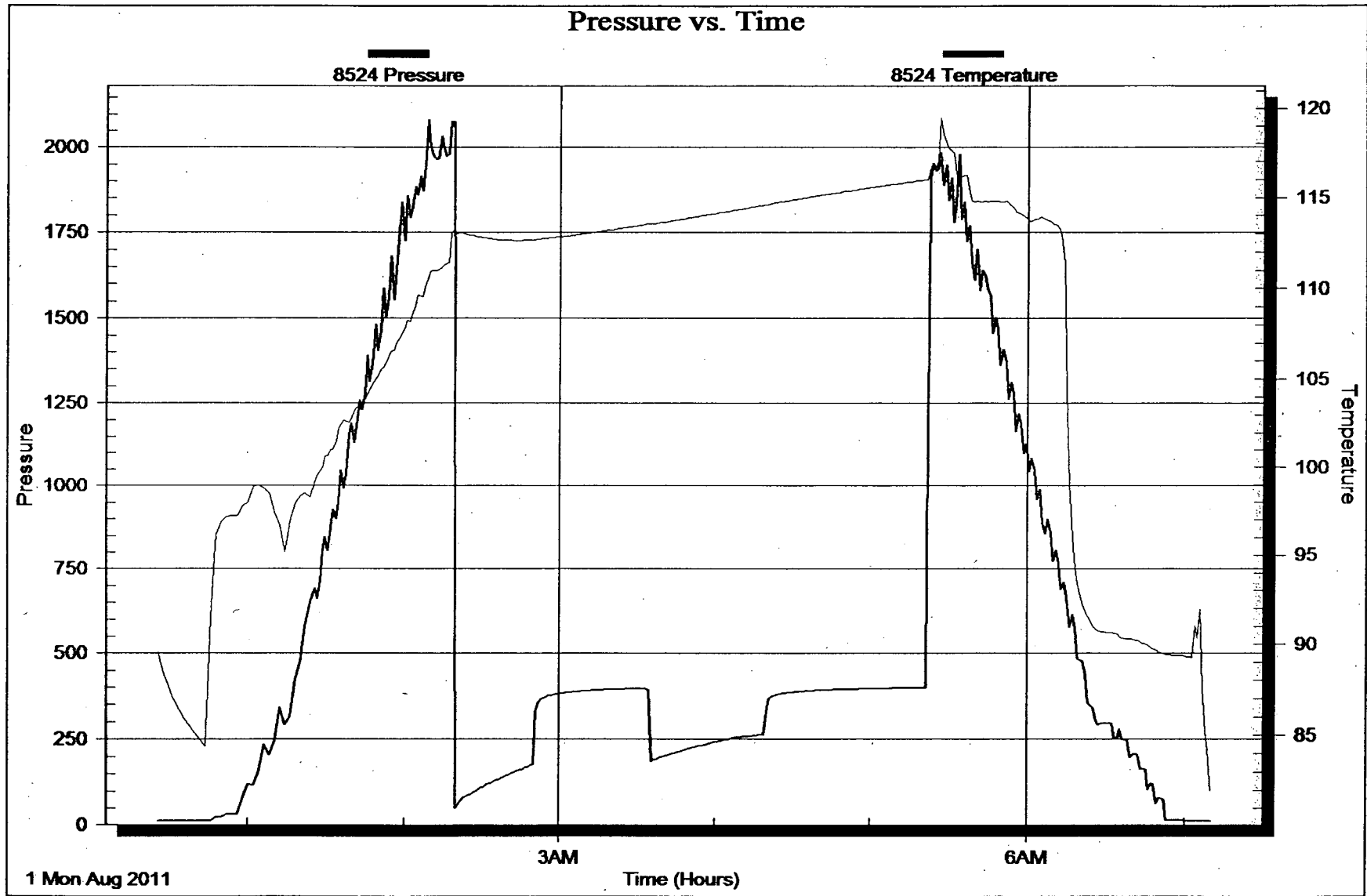
Serial #:

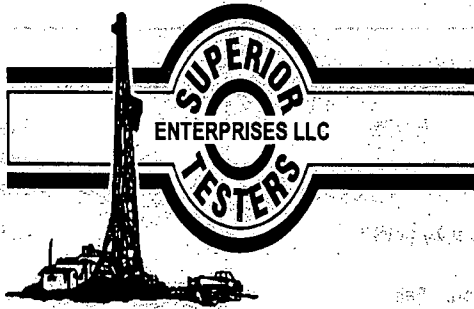
Laboratory Name:

Laboratory Location:

Recovery Comments: chlorides 38,000 resistivity 2 @86 degrees







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd St N #700 Wichita KS
67278+3188

ATTN: Larry Friend

30-13-31 Gove

Joseph 30 cd #3

Start Date: 2011.08.01 @ 13:39:00

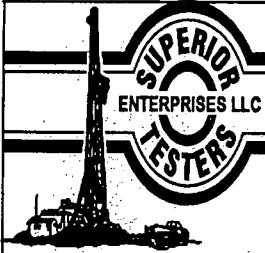
End Date: 2011.08.01 @ 20:47:00

Job Ticket #: 16515 DST #: 6

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

Printed: 2011.08.08 @ 08:21:49

Ritchie Exploration Inc Joseph 30 cd #3 30-13-31 Gove DST # 6 Lansing "J zone" 2011.08.01



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

ATTN: Larry Friend

Job Ticket: 16515

DST#: 6

Test Start: 2011.08.01 @ 13:39:00

GENERAL INFORMATION:

Formation: **Lansing "J zone"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:47:30

Time Test Ended: 20:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Scott City-70

Interval: **4156.00 ft (KB) To 4176.00 ft (KB) (TVD)**

Total Depth: 4176.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2921.00 ft (KB)

2911.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419 Inside

Press@RunDepth: 279.60 psia @ 4172.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.01 End Date: 2011.08.01

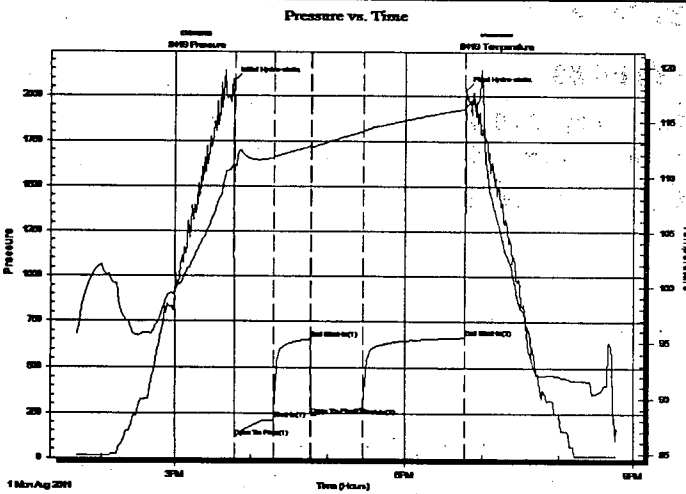
Last Calib.: 2011.08.01

Start Time: 13:40:00 End Time: 20:47:00

Time On Btm: 2011.08.01 @ 15:46:30

Time Off Btm: 2011.08.01 @ 18:47:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 15 minutes
 1st Shut-in 45 Minutes-Blow back 4 inches
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 8 minutes
 2nd Shut-in 60 Minutes-Blow back 6 inches



PRESSURE SUMMARY

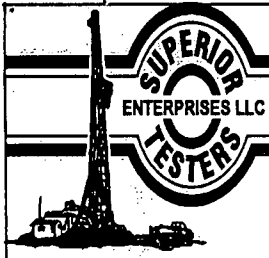
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2082.93	111.25	Initial Hydro-static
1	114.96	110.97	Open To Flow (1)
32	214.44	111.70	Shut-In(1)
60	654.18	112.74	End Shut-In(1)
61	236.67	112.68	Open To Flow (2)
101	279.60	114.12	Shut-In(2)
180	664.60	116.21	End Shut-In(2)
181	2036.17	116.47	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	gassy oil cut mud	1.40
0.00	20%mud 30%gas 50%oil	0.00
285.00	gassy oil cut mud	1.40
0.00	10%gas 20%mud 70%oil	0.00
190.00	slightley oil cut gassy mud	2.67
0.00	10%oil 30%gas 60%mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16515

DST#: 6

ATTN: Larry Friend

Test Start: 2011.08.01 @ 13:39:00

GENERAL INFORMATION:

Formation: **Lansing "J zone"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 15:47:30

Time Test Ended: 20:47:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Scott City-70

Interval: 4156.00 ft (KB) To 4176.00 ft (KB) (TVD)

Total Depth: 4176.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2921.00 ft (KB)

2911.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8524

Outside

Press@RunDepth: 664.70 psia @ 4173.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.01

End Date: 2011.08.01

Last Calib.: 2011.08.01

Start Time: 13:40:00

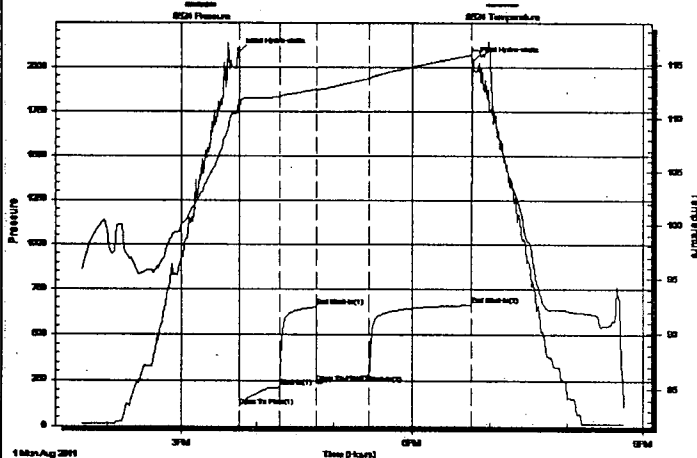
End Time: 20:46:00

Time On Btm: 2011.08.01 @ 15:46:00

Time Off Btm: 2011.08.01 @ 18:47:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 15 minutes
 1st Shut-in 45 Minutes-Blow back 4 inches
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 8 minutes
 2nd Shut-in 60 Minutes-Blow back 6 inches

Pressure vs. Time



PRESSURE SUMMARY

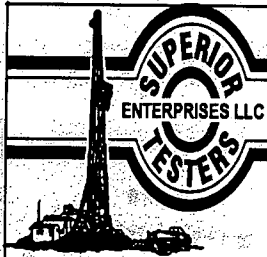
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2083.03	111.77	Initial Hydro-static
1	112.66	111.09	Open To Flow (1)
32	214.03	111.98	Shut-In(1)
60	654.19	112.75	End Shut-In(1)
61	236.46	112.66	Open To Flow (2)
101	279.16	113.73	Shut-In(2)
180	664.70	115.92	End Shut-In(2)
181	2036.55	116.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	gassy oil cut mud	1.40
0.00	20%mud 30%gas 50%oil	0.00
285.00	gassy oil cut mud	1.40
0.00	10%gas 20%mud 70%oil	0.00
190.00	slightly oil cut gassy mud	2.67
0.00	10%oil 30%gas 60%mud	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
 8100 E 22nd St N #700 Wichita KS 67278+3188
 ATTN: Larry Friend

Joseph 30 cd #3
 30-13-31 Gove
 Job Ticket: 16515 DST#: 6
 Test Start: 2011.08.01 @ 13:39:00

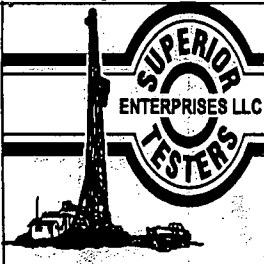
Tool Information

Drill Pipe:	Length: 3580.00 ft	Diameter: 3.80 inches	Volume: 50.22 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: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose:	83000.00 lb
			Total Volume: 53.02 bbl	Tool Chased:	0.00 ft
Drill Pipe Above KB:	16.00 ft			String Weight: Initial:	68000.00 lb
Depth to Top Packer:	4156.00 ft			Final:	68000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	20.00 ft				
Tool Length:	42.00 ft				
Number of Packers:	2	Diameter:	6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00		Inside	4139.00	
Hydraulic Tool	5.00			4144.00	
Safety Joint	2.00			4146.00	
Packer	5.00			4151.00	22.00 Bottom Of Top Packer
Packer	5.00			4156.00	
Anchor	15.00			4171.00	
Recorder	1.00	8419	Inside	4172.00	
Recorder	1.00	8524	Outside	4173.00	
Bullnose	3.00			4176.00	20.00 Bottom Packers & Anchor
Total Tool Length:	42.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16515 DST#: 6

ATTN: Larry Friend

Test Start: 2011.08.01 @ 13:39:00

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: 68.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.77 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 3800.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
285.00	gassy oil cut mud	1.402
0.00	20%mud 30%gas 50%oil	0.000
285.00	gassy oil cut mud	1.402
0.00	10%gas 20%mud 70%oil	0.000
190.00	slightley oil cut gassy mud	2.665
0.00	10%oil 30%gas 60%mud	0.000
0.00	1140 feet gas in pipe	0.000

Total Length: 760.00 ft Total Volume: 5.469 bbl

Num Fluid Samples: 0

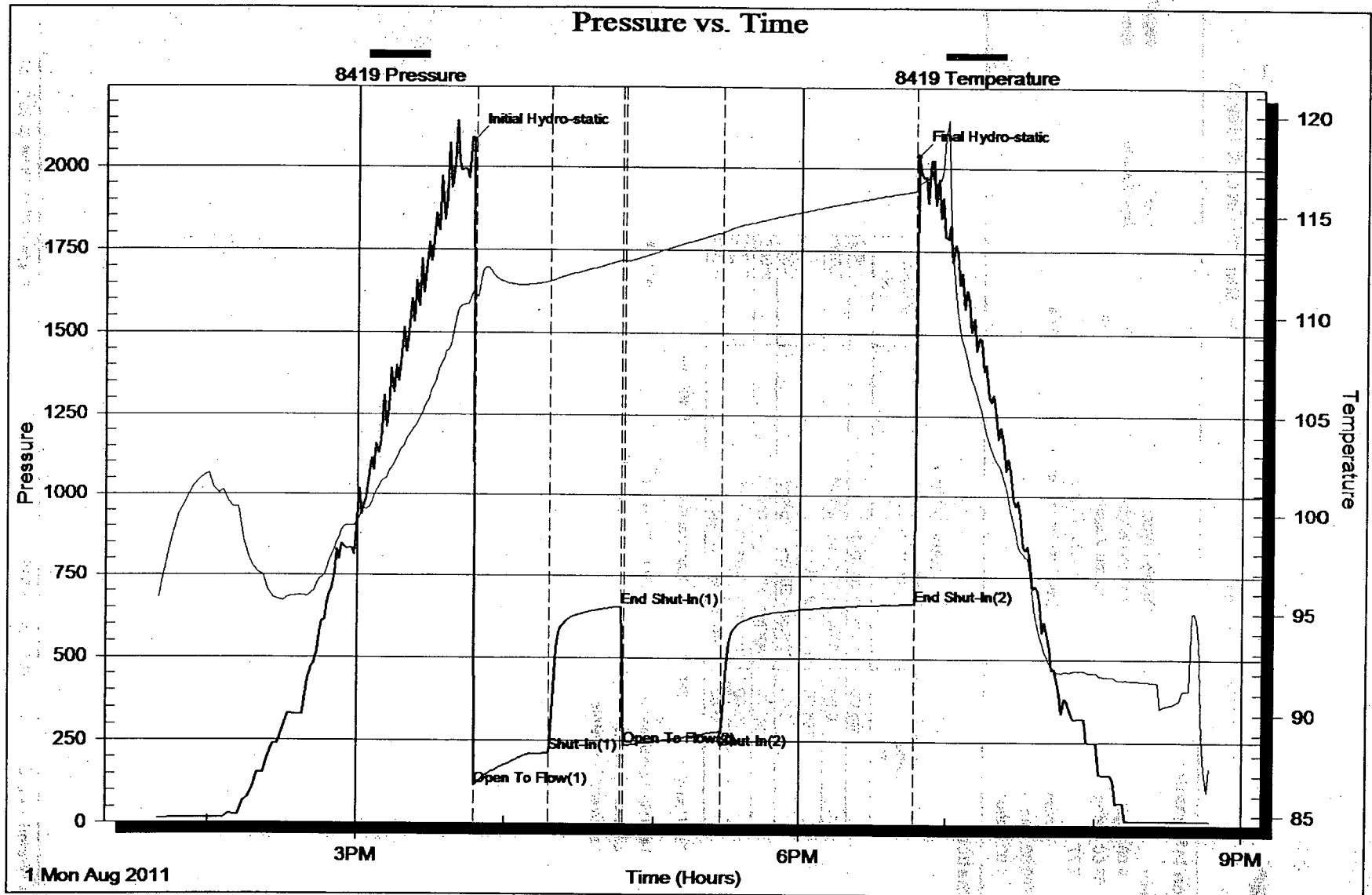
Num Gas Bombs: 0

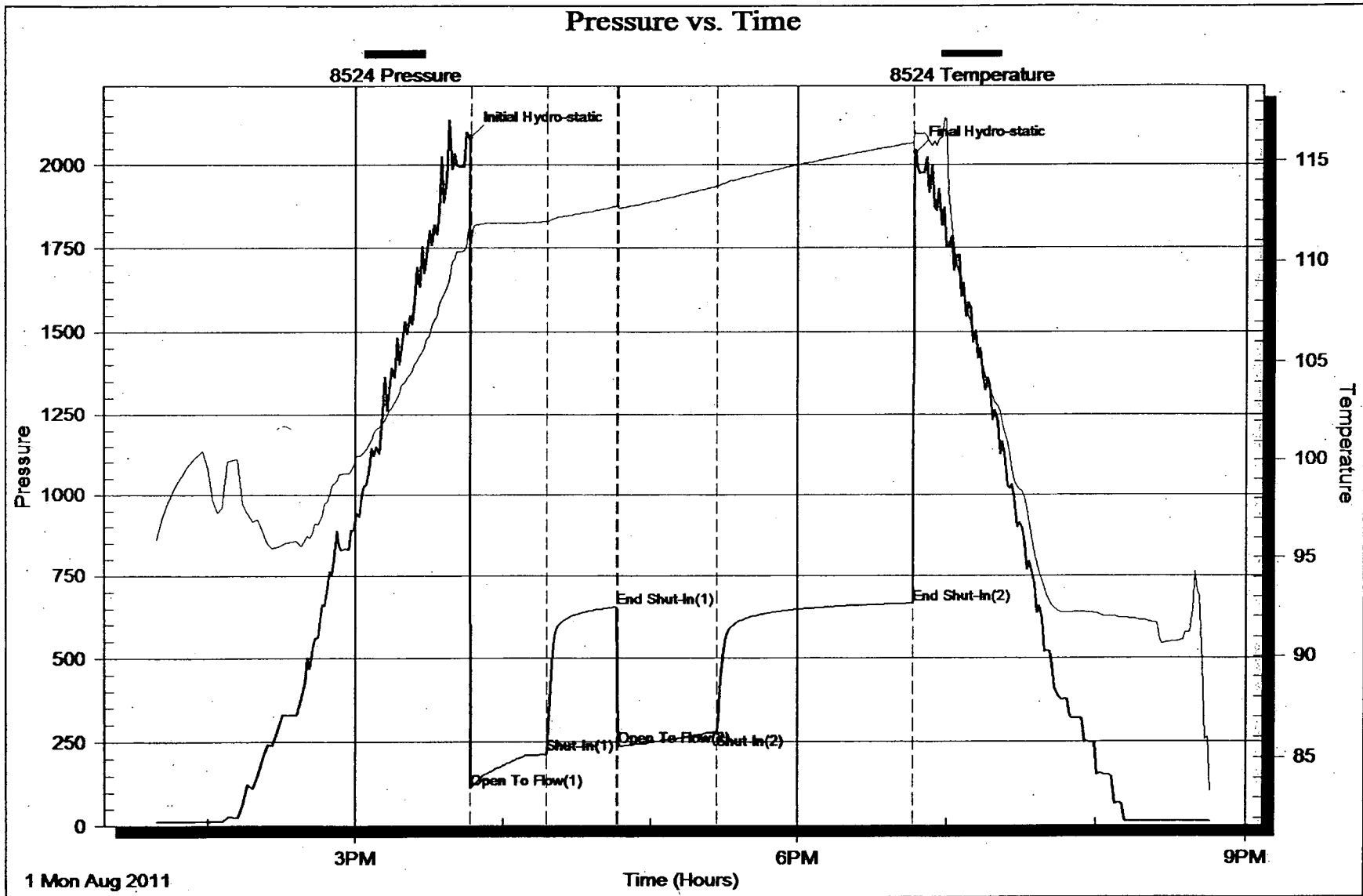
Serial #:

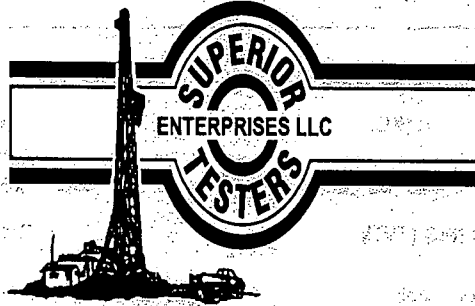
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**
8100 E 22nd St N #700 Wichita KS
67278+3188

ATTN: Larry Friend

30-13-31 Gove

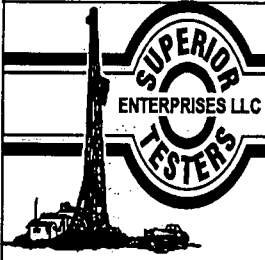
Joseph 30 cd #1

Start Date: 2011.08.02 @ 04:53:00
End Date: 2011.08.02 @ 12:28:30
Job Ticket #: 16516 DST #: 7

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

Printed: 2011.08.08 @ 08:45:12

Ritchie Exploration Inc Joseph 30 cd #1 30-13-31 Gove DST # 7 Lansing "k zone" 2011.08.02



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #1

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

ATTN: Larry Friend

Job Ticket: 16516

DST#: 7

Test Start: 2011.08.02 @ 04:53:00

GENERAL INFORMATION:

Formation: **Lansing " k zone"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 07:08:30

Time Test Ended: 12:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Scott City-70

Interval: **4173.00 ft (KB) To 4212.00 ft (KB) (TVD)**

Reference Elevations: 2921.00 ft (KB)

Total Depth: 4212.00 ft (KB) (TVD)

2911.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8419 Inside

Press@RunDepth: 696.30 psia @ 4174.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.02 End Date: 2011.08.02

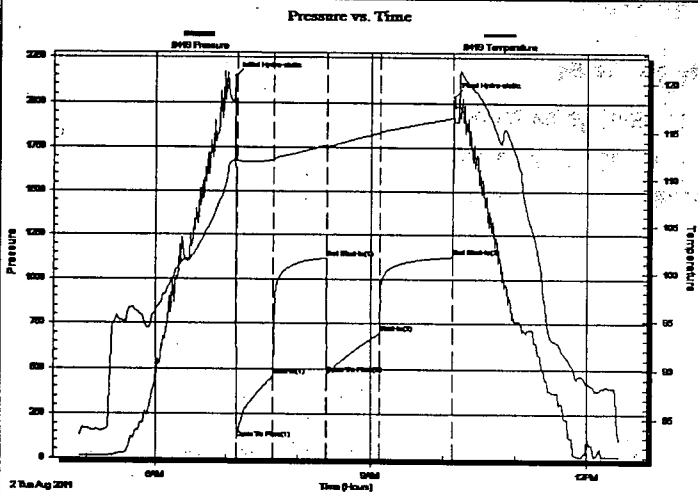
Last Calib.: 2011.08.02

Start Time: 04:54:00 End Time: 12:28:30

Time On Btm: 2011.08.02 @ 07:07:30

Time Off Btm: 2011.08.02 @ 10:09:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucet in 4 minutes
 1st Shut-in 45 Minutes-very weak surface
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 7 minutes
 2nd Shut-in 60 Minutes-1 1/2 Blow back



PRESSURE SUMMARY

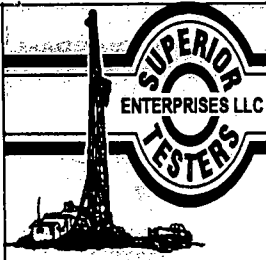
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2146.02	112.29	Initial Hydro-static
1	110.65	111.99	Open To Flow (1)
32	459.54	112.04	Shut-In(1)
76	1119.52	113.66	End Shut-In(1)
77	471.67	113.54	Open To Flow (2)
121	696.30	114.93	Shut-In(2)
181	1125.80	116.51	End Shut-In(2)
182	2035.14	116.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
1180.00	Water	11.36
285.00	Slightley oil cut muddy w ater	4.00
0.00	3%oil 40%mud 57%w ater	0.00
0.00	95 feet gas in pipe	0.00
0.00	Chlorides 50,000	0.00
0.00	Resistivity 2 @ 82 degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc
 8100 E 22nd St N #700 Wichita KS 67278+3188
 ATTN: Larry Friend

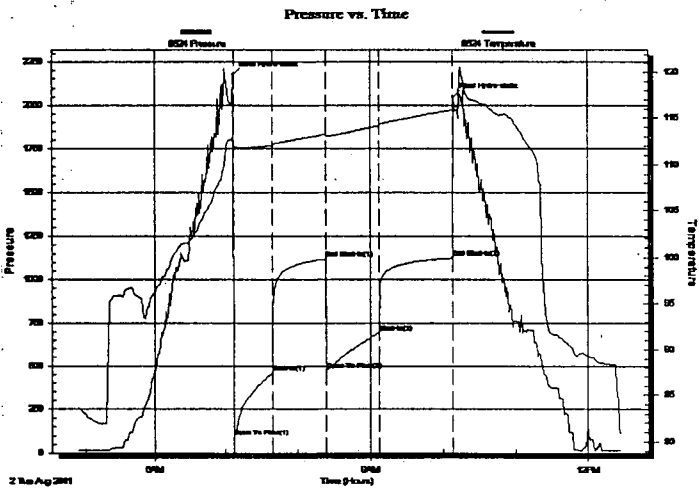
Joseph 30 cd #1
30-13-31 Gove
 Job Ticket: 16516 **DST#: 7**
 Test Start: 2011.08.02 @ 04:53:00

GENERAL INFORMATION:

Formation: **Lansing "k zone"**
 Deviated: No Whipstock: ft (KB)
 Test Type: **Conventional Bottom Hole (Initial)**
 Time Tool Opened: 07:08:30 Tester: **Jared Scheck**
 Time Test Ended: 12:28:30 Unit No: **3320-Scott City-70**
 Interval: **4173.00 ft (KB) To 4212.00 ft (KB) (TVD)** Reference Elevations: **2921.00 ft (KB)**
 Total Depth: **4212.00 ft (KB) (TVD)** **2911.00 ft (CF)**
 Hole Diameter: **7.88 inches** Hole Condition: **Fair** KB to GR/CF: **10.00 ft**

Serial #: 8524 Outside
 Press@RunDepth: **1126.10 psia @ 4175.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.08.02** End Date: **2011.08.02** Last Calib.: **2011.08.02**
 Start Time: **04:54:00** End Time: **12:28:30** Time On Btm: **2011.08.02 @ 07:06:30**
 Time Off Btm: **2011.08.02 @ 10:08:30**

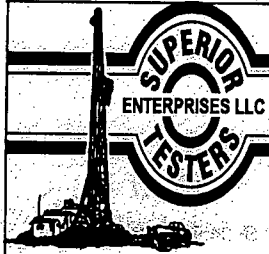
TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucet in 4 minutes
 1st Shut-in 45 Minutes-very weak surface
 2nd Opening 45 Minutes-Strong blow built bottom of bucket in 7 minutes
 2nd Shut-in 60 Minutes-1 1/2 Blow back



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2176.66	112.91	Initial Hydro-static
1	91.12	111.94	Open To Flow (1)
33	458.72	112.07	Shut-In(1)
77	1119.77	113.27	End Shut-In(1)
78	473.77	113.07	Open To Flow (2)
121	696.08	114.19	Shut-In(2)
181	1126.10	115.86	End Shut-In(2)
182	2048.74	116.16	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
1180.00	Water	11.36
285.00	Slightly oil cut muddy w ater	4.00
0.00	3%oil 40%mud 57%w ater	0.00
0.00	95 feet gas in pipe	0.00
0.00	Chlorides 50,000	0.00
0.00	Resistivity 2 @ 82 degrees	0.00

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Joseph 30 cd #1

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16516

DST#: 7

ATTN: Larry Friend

Test Start: 2011.08.02 @ 04:53:00

Tool Information

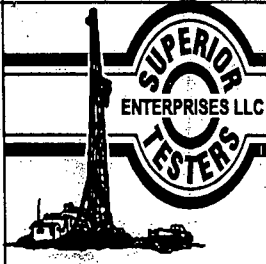
Drill Pipe:	Length: 3612.00 ft	Diameter: 3.80 inches	Volume: 50.67 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose: 83000.00 lb
			Total Volume: 53.47 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	31.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4173.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	5.00 ft			
Tool Length:	27.00 ft			

Number of Packers: 2 Diameter: 6.75 inches

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00		Inside	4156.00	
Hydraulic Tool	5.00			4161.00	
Safety Joint	2.00			4163.00	
Packer	5.00			4168.00	22.00 Bottom Of Top Packer
Packer	5.00			4173.00	
Anchor	0.00			4173.00	
Recorder	1.00	8419	Inside	4174.00	
Recorder	1.00	8524	Outside	4175.00	
Bullnose	3.00			4178.00	5.00 Bottom Packers & Anchor
Total Tool Length:	27.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Joseph 30 cd #1

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16516

DST#: 7

ATTN: Larry Friend

Test Start: 2011.08.02 @ 04:53:00

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: 64.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.59 in³

Gas Cushion Type:

Resistivity: 2.00 ohm.m

Gas Cushion Pressure:

psia

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
1180.00	Water	11.360
285.00	Slightley oil cut muddy water	3.998
0.00	3%oil 40%mud 57%w ater	0.000
0.00	95 feet gas in pipe	0.000
0.00	Chlorides 50,000	0.000
0.00	Resistivity 2 @ 82 degrees	0.000

Total Length: 1465.00 ft

Total Volume: 15.358 bbl

Num Fluid Samples: 0

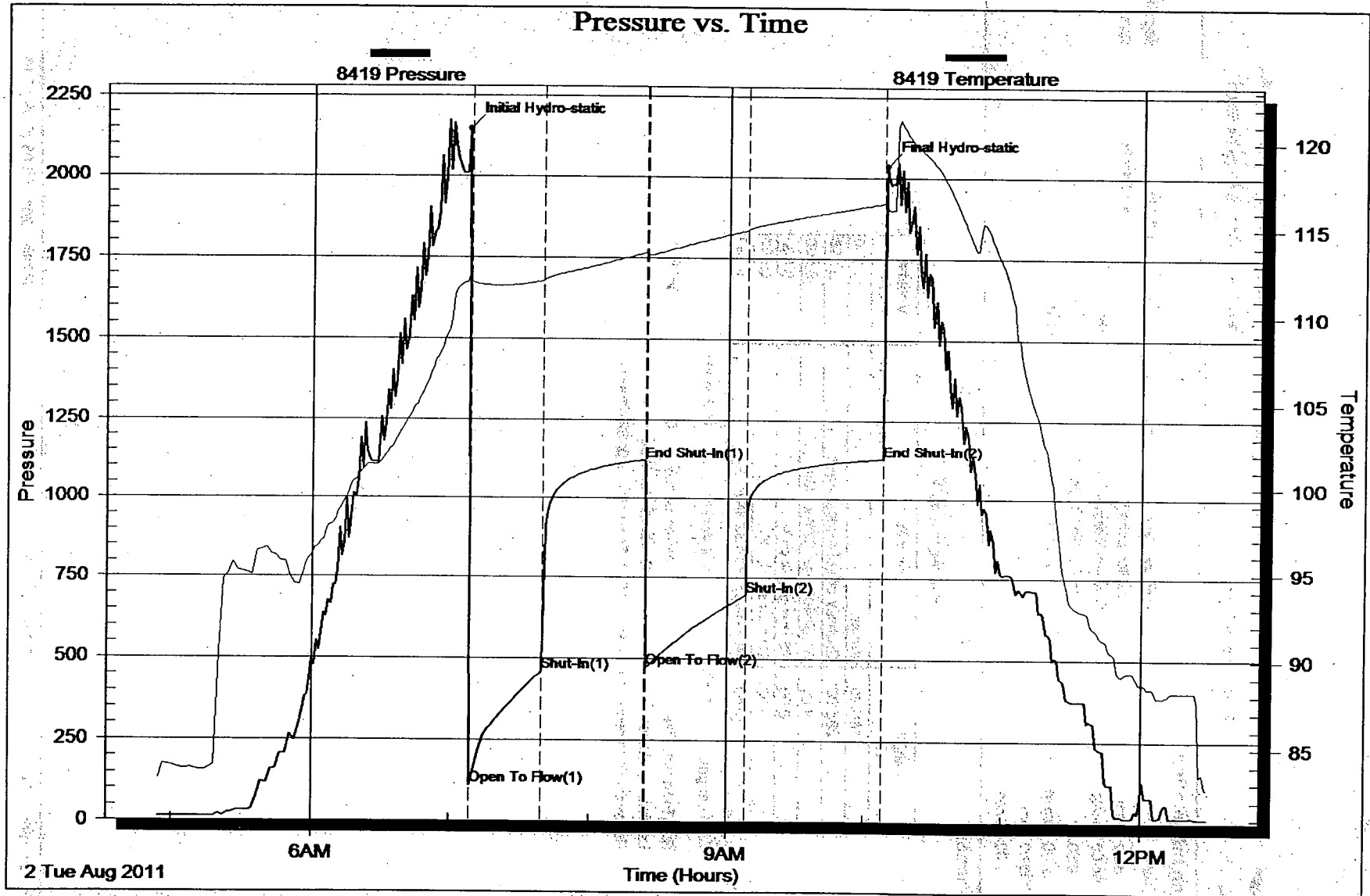
Num Gas Bombs: 0

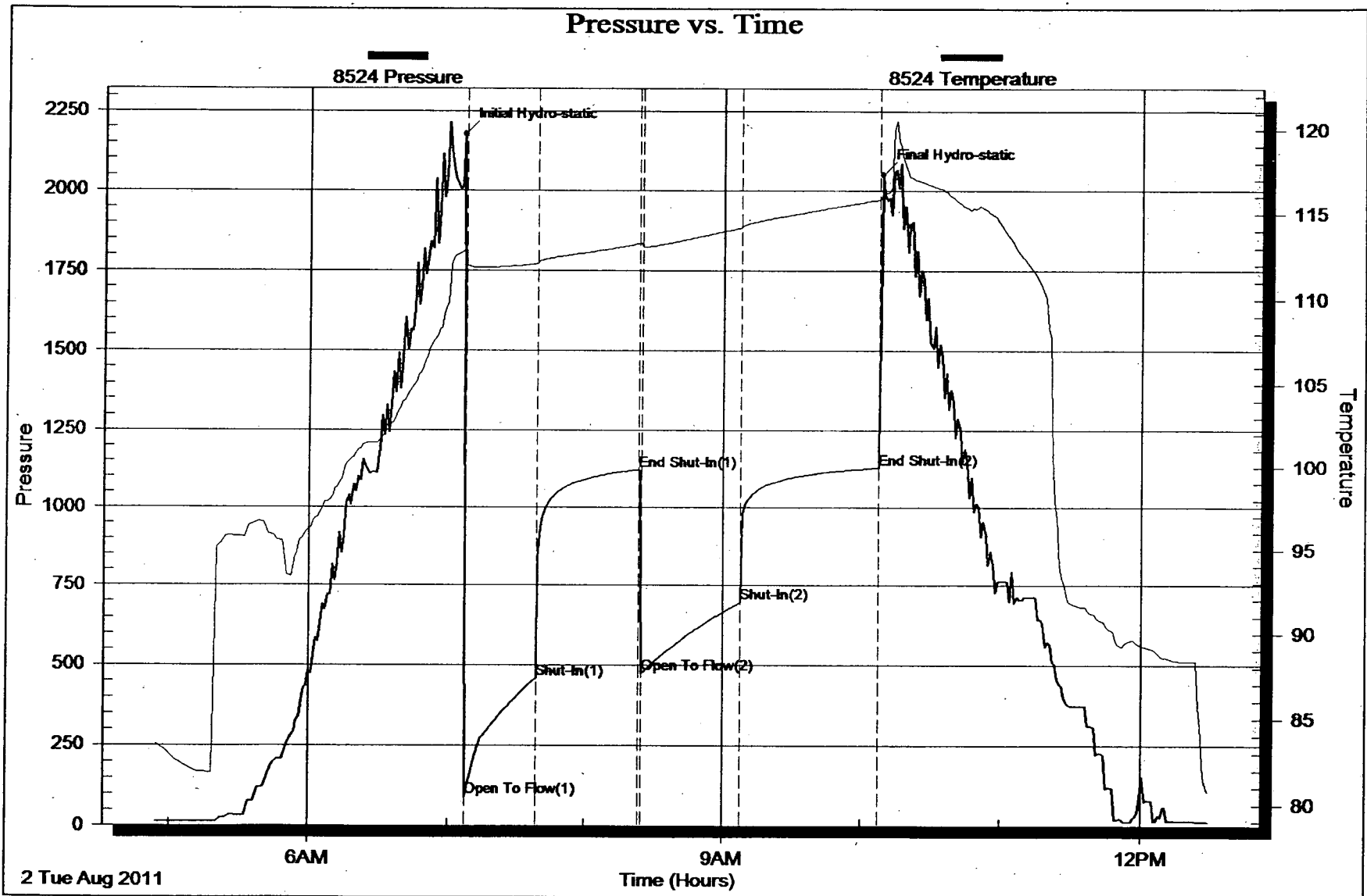
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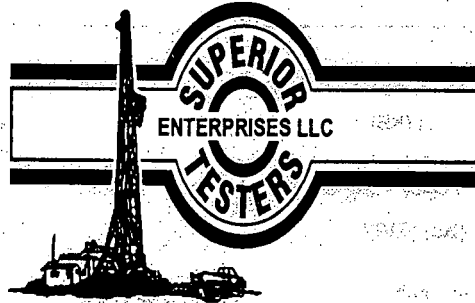
Laboratory Name:

Laboratory Location:

Recovery Comments: Chlorides 50,000 Resistivity 2 @ 82 degrees







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**
8100 E 22nd St N #700 Wichita KS
67278+3188

ATTN: Larry Friend

30-13-31 Gove

Joseph 30 cd #3

Start Date: 2011.08.02 @ 19:58:00

End Date: 2011.08.03 @ 02:51:00

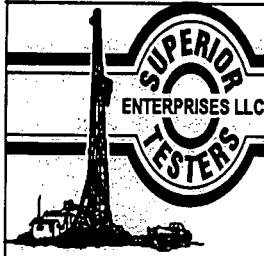
Job Ticket #: 16517 DST #: 8

Superior Testers Enterprises LLC
PO Box 138 Great Bend KS 67530

1-800-792-6902

Printed: 2011.08.08 @ 08:22:04

Ritchie Exploration Inc
Joseph 30 cd #3
30-13-31 Gove
DST # 8
Lansing "L zone"
2011.08.02



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16517

DST#: 8

ATTN: Larry Friend

Test Start: 2011.08.02 @ 19:58:00

GENERAL INFORMATION:

Formation: **Lansing "L zone"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:50:00

Time Test Ended: 02:51:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Scott City -70

Interval: 4211.00 ft (KB) To 4256.00 ft (KB) (TVD)

Total Depth: 4256.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2921.00 ft (KB)

2911.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419

Inside

Press@RunDepth: 264.26 psia @ 4252.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.02

End Date: 2011.08.03

Last Calib.: 2011.08.03

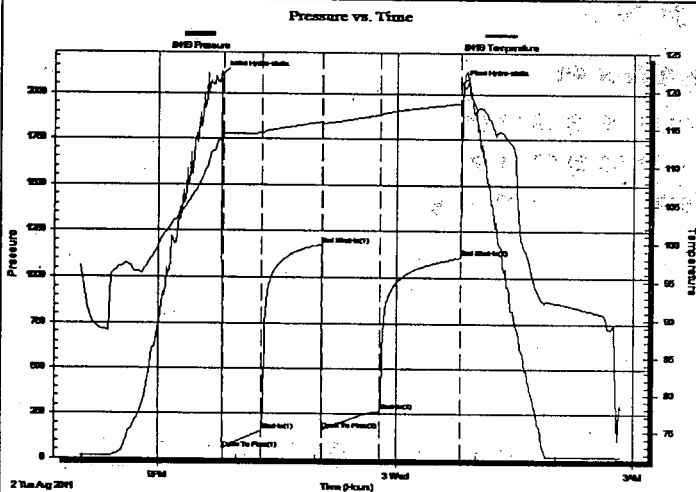
Start Time: 19:59:00

End Time: 02:51:00

Time On Btm: 2011.08.02 @ 21:49:00

Time Off Btm: 2011.08.03 @ 00:50:00

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built 2 inches from bottom of bucket in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-w eak building blow built bottom of bucket in 2 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

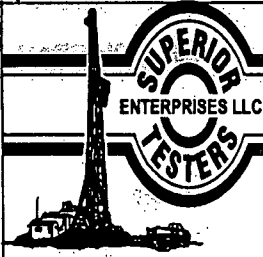
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2098.48	114.13	Initial Hydro-static
1	51.81	114.22	Open To Flow (1)
31	154.36	114.40	Shut-In(1)
75	1176.44	115.89	End Shut-In(1)
76	162.61	115.71	Open To Flow (2)
119	264.26	116.84	Shut-In(2)
180	1110.62	118.40	End Shut-In(2)
181	2054.21	118.39	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	muddy w ater 10% mud 90% w ater	1.40
95.00	slightley oil cut muddy w ater	0.47
0.00	5%oil 40%mud 55%w ater	0.00
95.00	slightley gassy oil cut muddy w ater	0.47
0.00	10%gas 10%oil 20%w ater 60%mud	0.00
0.00	chlorides 35,000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31-Gove

Job Ticket: 16517

DST#: 8

ATTN: Larry Friend

Test Start: 2011.08.02 @ 19:58:00

GENERAL INFORMATION:

Formation: Lansing "L zone"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:50:00

Time Test Ended: 02:51:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Scott City -70

Interval: 4211.00 ft (KB) To 4256.00 ft (KB) (TVD)

Reference Elevations: 2921.00 ft (KB)

Total Depth: 4256.00 ft (KB) (TVD)

2911.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8524

Outside

Press@RunDepth: 1110.97 psia @ 4253.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.02

End Date: 2011.08.03

Last Calib.: 2011.08.03

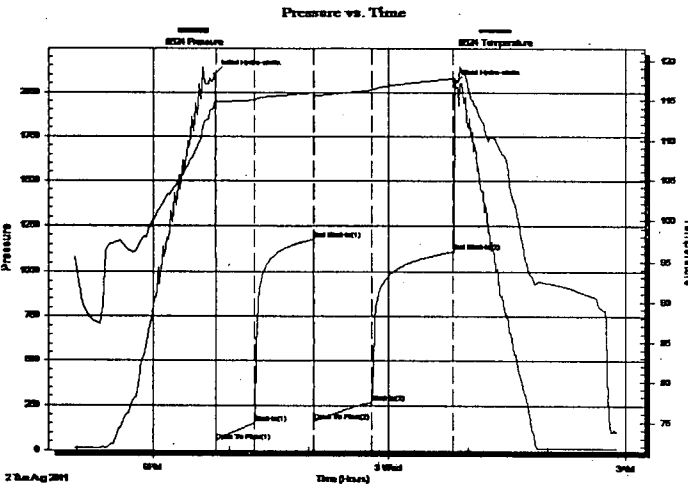
Start Time: 19:59:00

End Time: 02:53:30

Time On Btm: 2011.08.02 @ 21:48:30

Time Off Btm: 2011.08.03 @ 00:49:30

TEST COMMENT: 1st Opening 30 Minutes-Fair blow built 2 inches from bottom of bucket in 30 minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 45 Minutes-weak building blow built bottom of bucket in 2 minutes
 2nd Shut-in 60 Minutes-No blow back



PRESSURE SUMMARY

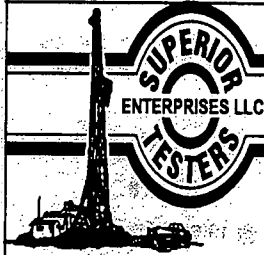
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2102.38	114.98	Initial Hydro-static
1	52.04	114.79	Open To Flow (1)
31	153.84	115.01	Shut-In(1)
75	1177.14	115.97	End Shut-In(1)
76	162.78	115.66	Open To Flow (2)
119	263.95	116.32	Shut-In(2)
180	1110.97	117.76	End Shut-In(2)
181	2050.67	117.78	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	muddy w ater 10%mud 90%w ater	1.40
95.00	slightley oil cut muddy w ater	0.47
0.00	5%oil 40%mud 55%w ater	0.00
95.00	slightley gassy oil cut muddy w ater	0.47
0.00	10%gas 10%oil 20%w ater 60%mud	0.00
0.00	chlorides 35,000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
 8100 E 22nd St-N #700 Wichita KS:67278+3188
 ATTN: Larry Friend

Joseph 30 cd #3
 30-13-31 Gove
 Job Ticket: 16517 DST#: 8
 Test Start: 2011.08.02 @ 19:58:00

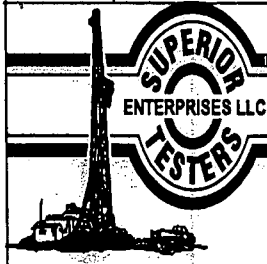
Tool Information

Drill Pipe:	Length: 3642.00 ft	Diameter: 3.80 inches	Volume: 51.09 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: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose: 80000.00 lb
		Total Volume: 53.89 bbl		Tool Chased: 1.00 ft
Drill Pipe Above KB:	23.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4211.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	45.00 ft			
Tool Length:	67.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00		Inside	4194.00	
Hydraulic Tool	5.00			4199.00	
Safety Joint	2.00			4201.00	
Packer	5.00			4206.00	22.00 Bottom Of Top Packer
Packer	5.00			4211.00	
Anchor	40.00			4251.00	
Recorder	1.00	8419	Inside	4252.00	
Recorder	1.00	8524	Outside	4253.00	
Bullnose	3.00			4256.00	45.00 Bottom Packers & Anchor
Total Tool Length:	67.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16517

DST#: 8

ATTN: Larry Friend

Test Start: 2011.08.02 @ 19:58:00

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 64.00 sec/qt

Cushion Volume:

bbl

Water Loss: 9.57 in³

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
285.00	muddy water 10% mud 90% water	1.402
95.00	slightly oil cut muddy water	0.467
0.00	5% oil 40% mud 55% water	0.000
95.00	slightly gassy oil cut muddy water	0.467
0.00	10% gas 10% oil 20% water 60% mud	0.000
0.00	chlorides 35,000	0.000
0.00	resistivity 3 @ 80 degrees	0.000

Total Length: 475.00 ft

Total Volume: 2.336 bbl

Num Fluid Samples: 0

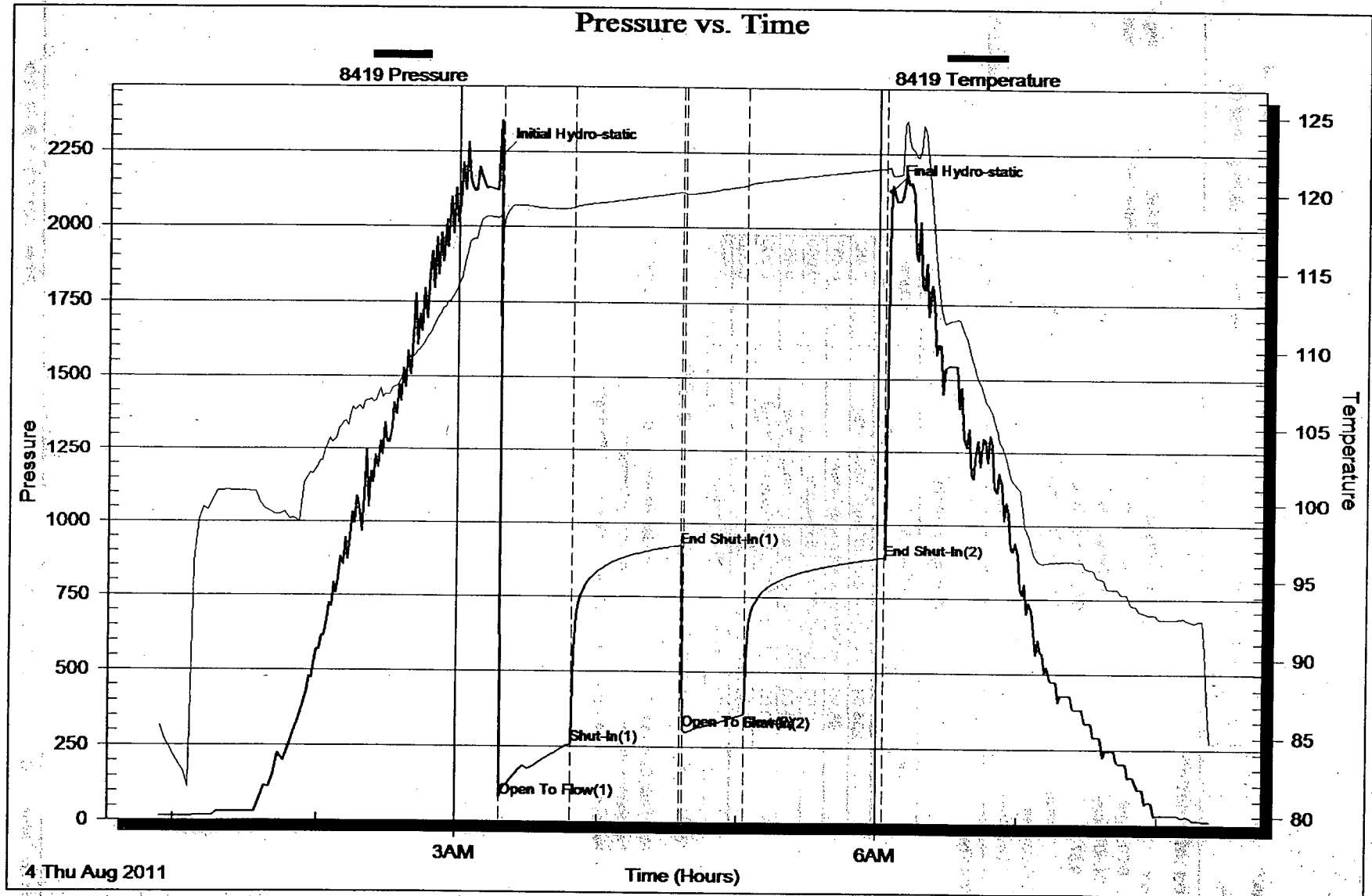
Num Gas Bombs: 0

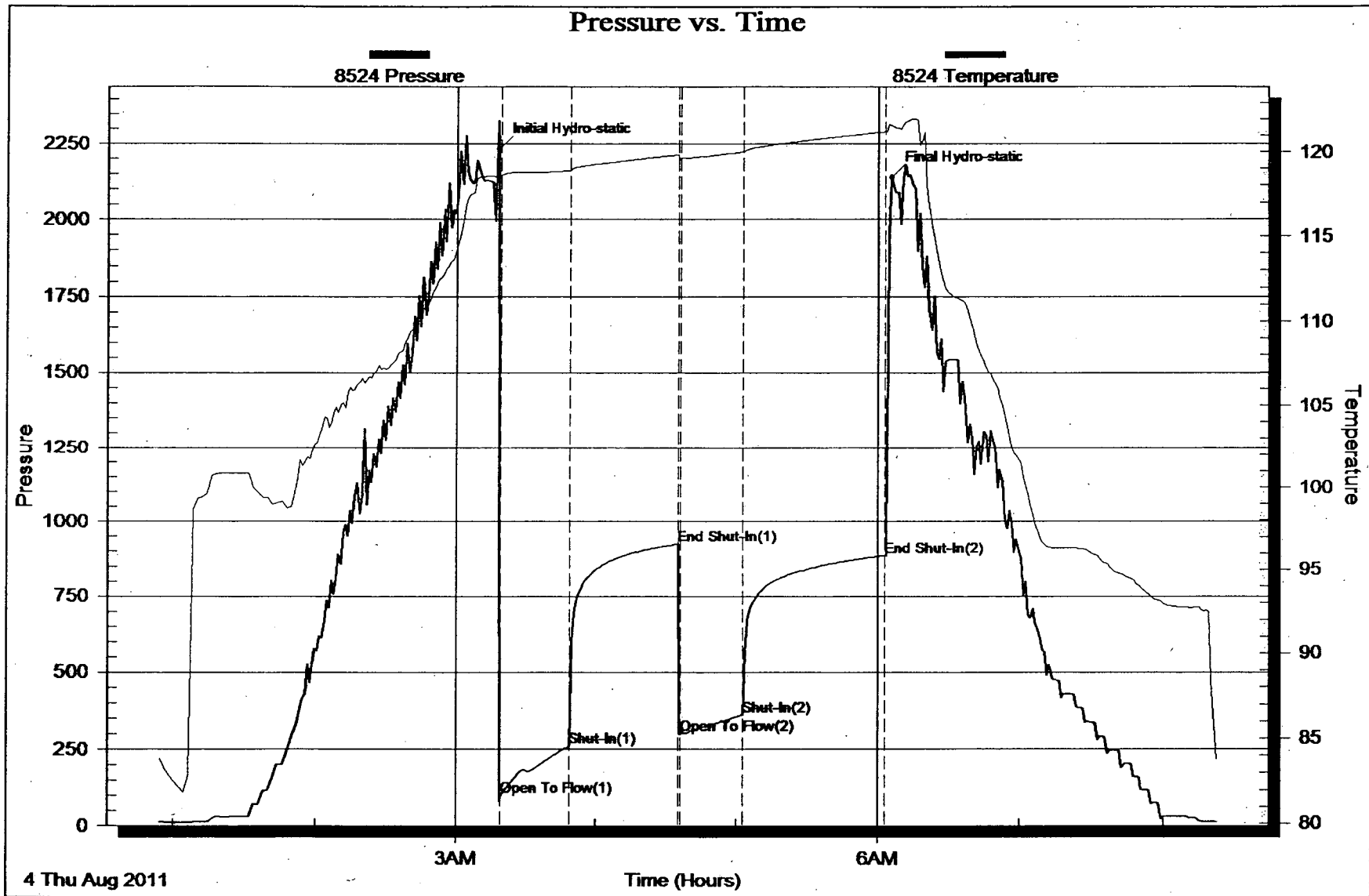
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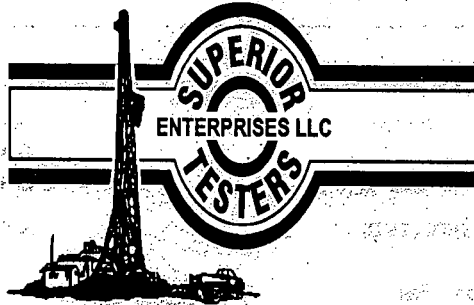
Laboratory Name:

Laboratory Location:

Recovery Comments: chlorides 35,000 resistivity 3 @ 80 degrees







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd St N #700 Wichita KS
67278+3188

ATTN: Larry Friend

30-13-31 Gove

Joseph 30 cd #3

Start Date: 2011.08.04 @ 00:53:00

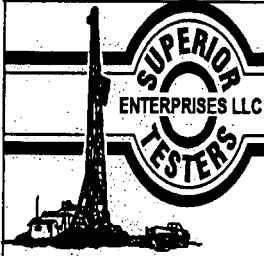
End Date: 2011.08.04 @ 08:22:00

Job Ticket #: 16518 DST #: 9

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

Printed: 2011.08.08 @ 08:22:19

Ritchie Exploration Inc Joseph 30 cd #3 30-13-31 Gove DST # 9 Myric Station 2011.08.04



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16518

DST#: 9

ATTN: Larry Friend

Test Start: 2011.08.04 @ 00:53:00

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock:

ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 03:18:30

Tester: Jared Scheck

Time Test Ended: 08:22:00

Unit No: 3320-Scott City-70

Interval: **4402.00 ft (KB) To 4431.00 ft (KB) (TVD)**

Reference Elevations: 2921.00 ft (KB)

Total Depth: 4431.00 ft (KB) (TVD)

2911.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8419 Inside

Press@RunDepth: 360.63 psia @ 4427.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.04 End Date: 2011.08.04

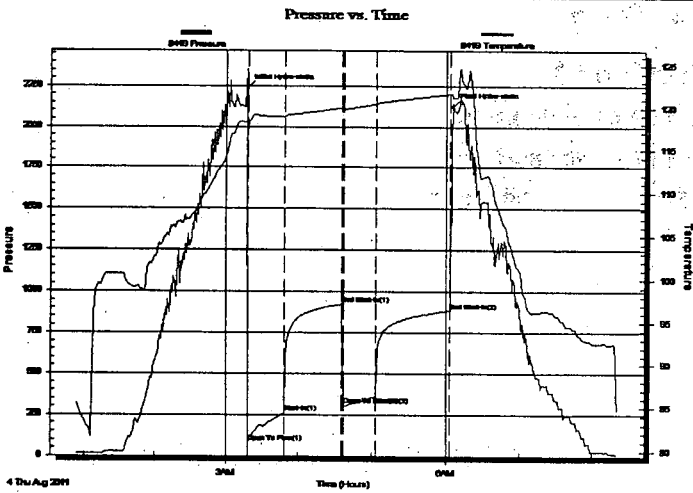
Last Calib.: 2011.08.04

Start Time: 00:54:00 End Time: 08:22:00

Time On Btm: 2011.08.04 @ 03:18:00

Time Off Btm: 2011.08.04 @ 06:05:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 2 1/2 minutes
 1st Shut-in 45 Minutes-Blow back bottom o of bucket
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 3 minutes
 2nd Shut-in 60 Minute-Blow back bottom of bucket



PRESSURE SUMMARY

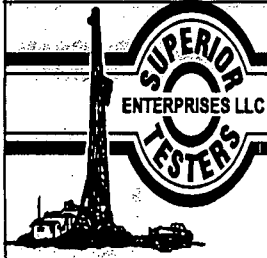
Time (Min)	Pressure (psia)	Temp (deg F)	Annotation
0	2238.63	118.48	Initial Hydro-static
1	81.03	117.49	Open To Flow (1)
31	259.90	118.95	Shut-In(1)
77	924.01	120.00	End Shut-In(1)
79	309.84	119.87	Open To Flow (2)
105	360.63	120.43	Shut-In(2)
165	885.09	121.61	End Shut-In(2)
167	2124.32	121.28	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	Slightly w atery mud cut Heavy oil	0.93
0.00	10%w ater 15%mud 75%oil	0.00
760.00	Clean gassy oil 10%gas 90%oil	7.20
0.00	3040 Feet gas in pipe	0.00
0.00	Chlorides 60,000	0.00
0.00	Resistivity .1 @ 76 Degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc.

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16518

DST#: 9

ATTN: Larry Friend

Test Start: 2011.08.04 @ 00:53:00

GENERAL INFORMATION:

Formation: **Myric Station**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:18:30

Time Test Ended: 08:22:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Scott City-70

Interval: 4402.00 ft (KB) To 4431.00 ft (KB) (TVD)

Reference Elevations: 2921.00 ft (KB)

Total Depth: 4431.00 ft (KB) (TVD)

2911.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8524

Outside

Press@RunDepth: 885.20 psia @ 4428.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.04

End Date: 2011.08.04

Last Calib.: 2011.08.04

Start Time: 00:54:00

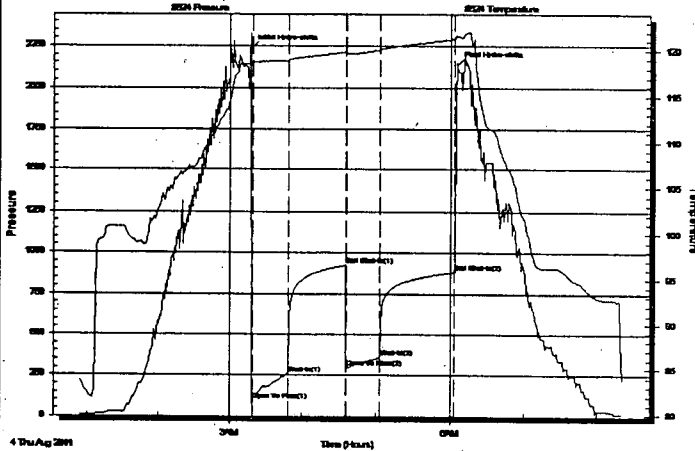
End Time: 08:21:30

Time On Btm: 2011.08.04 @ 03:18:00

Time Off Btm: 2011.08.04 @ 06:05:30

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 2 1/2 minutes
 1st Shut-in 45 Minutes-Blow back bottom of bucket
 2nd Opening 30 Minutes-Strong blow built bottom of bucket in 3 minutes
 2nd Shut-in 60 Minute-Blow back bottom of bucket

Pressure vs. Time



PRESSURE SUMMARY

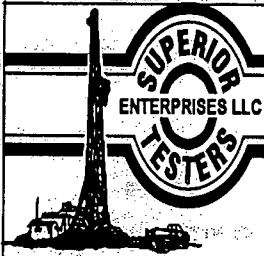
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2232.38	118.78	Initial Hydro-static
1	98.97	118.60	Open To Flow (1)
31	259.31	118.89	Shut-In(1)
77	924.13	119.84	End Shut-In(1)
78	297.65	119.65	Open To Flow (2)
105	359.19	120.01	Shut-In(2)
165	885.20	121.22	End Shut-In(2)
168	2137.80	121.56	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	Slightly watery mud cut Heavy oil	0.93
0.00	10%water 15%mud 75%oil	0.00
760.00	Clean gassy oil 10%gas 90%oil	7.20
0.00	3040 Feet gas in pipe	0.00
0.00	Chlorides 60,000	0.00
0.00	Resistivity .1 @ 76 Degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16518

DST#: 9

ATTN: Larry Friend

Test Start: 2011.08.04 @ 00:53:00

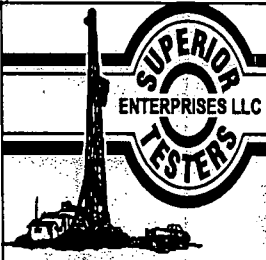
Tool Information

Drill Pipe:	Length: 3834.00 ft	Diameter: 3.80 inches	Volume: 53.78 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: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose: 80000.00 lb
			Total Volume: 56.58 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	24.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4402.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	51.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00		Inside	4385.00	
Hydraulic Tool	5.00			4390.00	
Safety Joint	2.00			4392.00	
Packer	5.00			4397.00	22.00 Bottom Of Top Packer
Packer	5.00			4402.00	
Anchor	24.00			4426.00	
Recorder	1.00	8419	Inside	4427.00	
Recorder	1.00	8524	Outside	4428.00	
Bullnose	3.00			4431.00	29.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16518 DST#: 9

ATTN: Larry Friend

Test Start: 2011.08.04 @ 00:53:00

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: 41.00 sec/qt

Cushion Volume:

bbl

Water Loss: 10.38 in³

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
190.00	Slightley watery mud cut Heavy oil	0.934
0.00	10%w ater 15%mud 75%oil	0.000
760.00	Clean gassy oil 10%gas 90%oil	7.199
0.00	3040 Feet gas in pipe	0.000
0.00	Chlorides 60,000	0.000
0.00	Resistivity .1 @ 76 Degrees	0.000

Total Length: 950.00 ft Total Volume: 8.133 bbl

Num Fluid Samples: 0

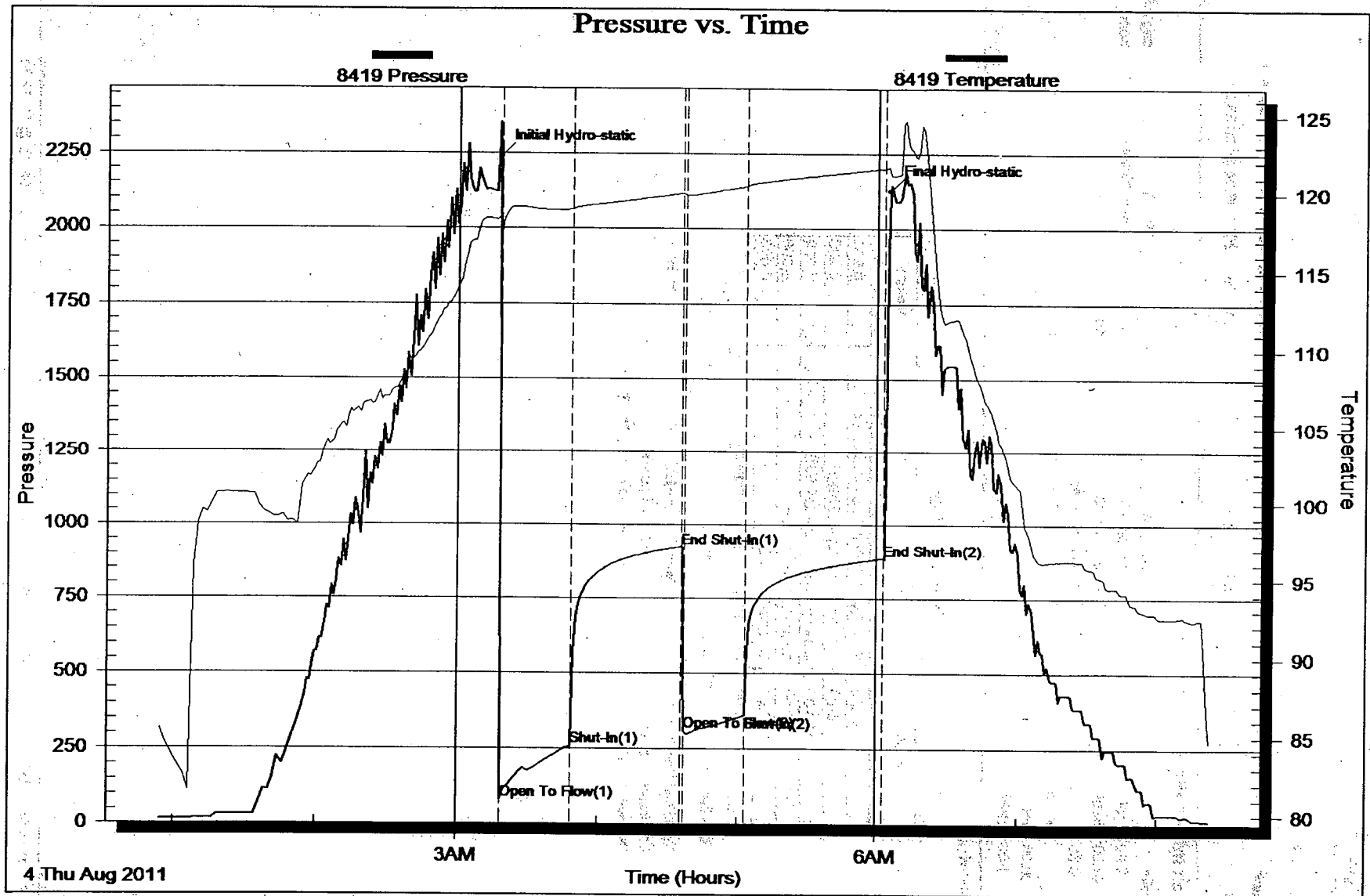
Num Gas Bombs: 0

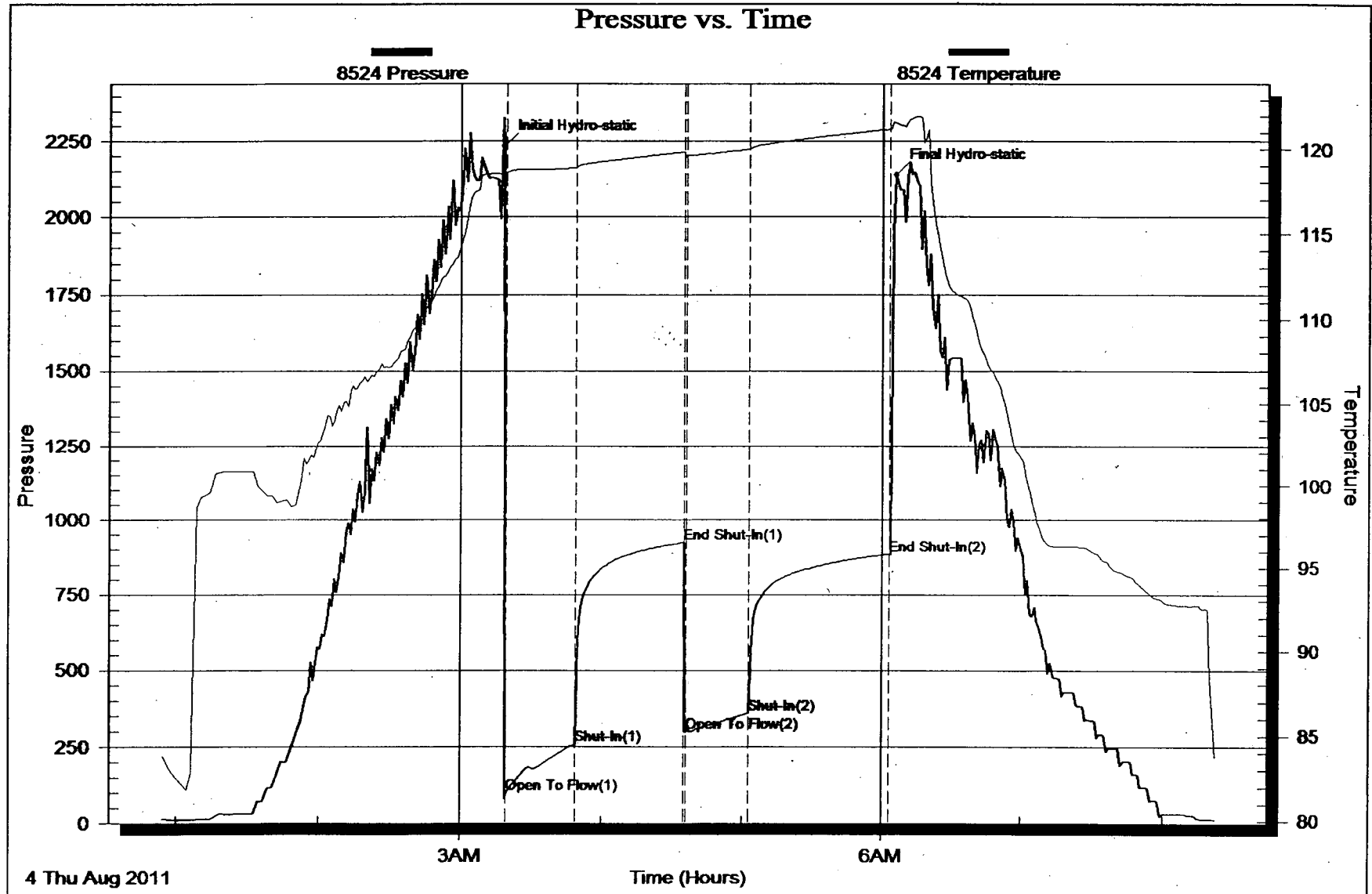
Serial #:

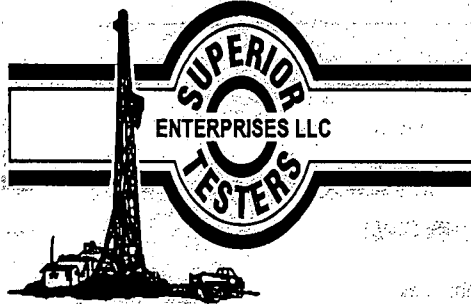
Laboratory Name:

Laboratory Location:

Recovery Comments: Chlorides 60,000 Resistivity .1 @ 76 Degrees







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**
8100 E 22nd St N #700 Wichita KS
67278+3188

ATTN: Larry Friend

30-13-31 Gove

Joseph 30 cd #3

Start Date: 2011.08.04 @ 16:23:00

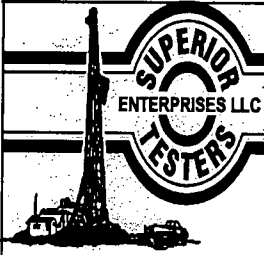
End Date: 2011.08.04 @ 23:23:30

Job Ticket #: 16519 DST #: 10

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

Printed: 2011.08.08 @ 08:32:19

Ritchie Exploration Inc
Joseph 30 cd #3
30-13-31 Gove
DST # 10
Ft Scott
2011.08.04



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16519

DST#: 10

ATTN: Larry Friend

Test Start: 2011.08.04 @ 16:23:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:35:30

Time Test Ended: 23:23:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Scott City-70

Interval: **4426.00 ft (KB) To 4464.00 ft (KB) (TVD)**

Total Depth: 4464.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2921.00 ft (KB)

2911.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419

Inside

Press@RunDepth: 253.37 psia @ 4459.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.04 End Date: 2011.08.04

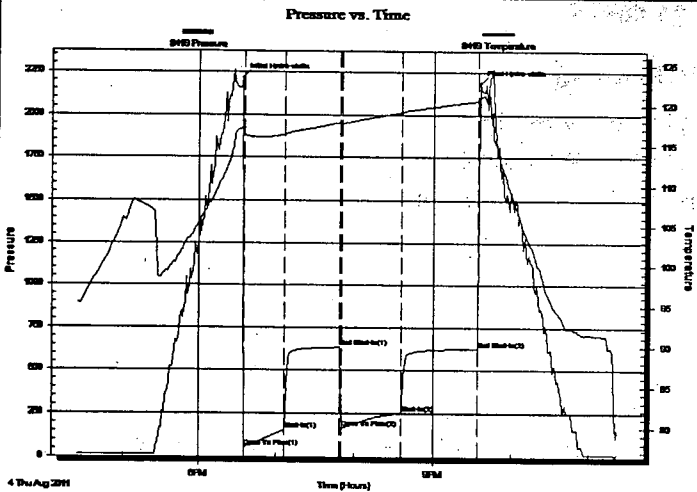
Last Calib.: 2011.08.04

Start Time: 16:24:00 End Time: 23:23:30

Time On Btm: 2011.08.04 @ 18:34:30

Time Off Btm: 2011.08.04 @ 21:36:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 10 minutes
 1st Shut-in 45 Minutes-Very weak blow
 2nd Opening 45 Minutes-Fair blow built 6 inches into bucket in 30 minutes blow started to die off
 2nd Shut in 60 Minutes-Yes blow back 2 inches in to water



PRESSURE SUMMARY

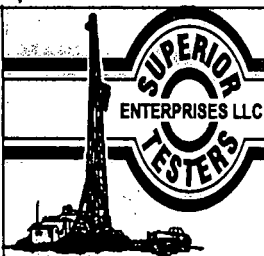
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2213.39	117.07	Initial Hydro-static
1	54.35	116.44	Open To Flow (1)
33	155.79	116.37	Shut-In(1)
75	635.20	117.86	End Shut-In(1)
76	164.42	117.77	Open To Flow (2)
122	253.37	119.13	Shut-In(2)
180	627.84	120.59	End Shut-In(2)
182	2180.06	120.93	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	Slightley oil mud cut water	0.93
0.00	20%OIL 30%MUD 50%WATER	0.00
345.00	Gassy oil 30% 70%oil	1.70
0.00	380 feet gas in pipe	0.00
0.00	chlorides 40,000	0.00
0.00	Resistivity .1 @ 76 degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16519

DST#: 10

ATTN: Larry Friend

Test Start: 2011.08.04 @ 16:23:00

GENERAL INFORMATION:

Formation: **Ft Scott**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 18:35:30

Time Test Ended: 23:23:30

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Scott City-70

Interval: 4426.00 ft (KB) To 4464.00 ft (KB) (TVD)

Total Depth: 4464.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2921.00 ft (KB)

2911.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8524

Outside

Press@RunDepth: 627.89 psia @ 4460.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.04

End Date: 2011.08.04

Last Calib.: 2011.08.04

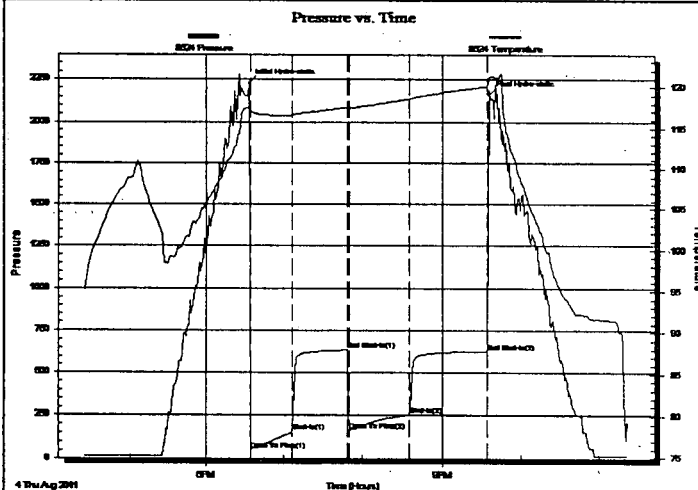
Start Time: 16:24:00

End Time: 23:23:00

Time On Btm: 2011.08.04 @ 18:33:30

Time Off Btm: 2011.08.04 @ 21:36:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 10 minutes
 1st Shut-in 45 Minutes-Very weak blow
 2nd Opening 45 Minutes-Fair blow built 6 inches into bucket in 30 minutes blow started to die off
 2nd Shut in 60 Minutes-Yes blow back 2 inches in to water



PRESSURE SUMMARY

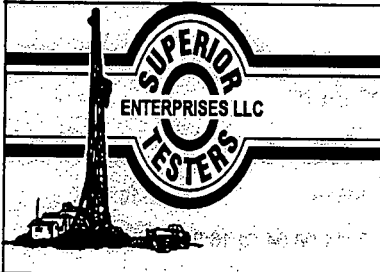
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2226.76	117.39	Initial Hydro-static
1	49.00	117.06	Open To Flow (1)
33	154.65	116.63	Shut-In(1)
76	635.16	117.60	End Shut-In(1)
77	163.66	117.51	Open To Flow (2)
122	252.88	118.59	Shut-In(2)
181	627.89	120.12	End Shut-In(2)
183	2163.29	121.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	Slightly oil mud cut water	0.93
0.00	20%OIL 30%MUD 50%WATER	0.00
345.00	Gassy oil 30% 70%oil	1.70
0.00	380 feet gas in pipe	0.00
0.00	chlorides 40,000	0.00
0.00	Resistivity .1 @ 76 degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
 8100 E 22nd St-N #700 Wichita KS 67278+3188
 ATTN: Larry Friend

Joseph 30 cd #3
 30-13-31 Gove
 Job Ticket: 16519 DST#: 10
 Test Start: 2011.08.04 @ 16:23:00

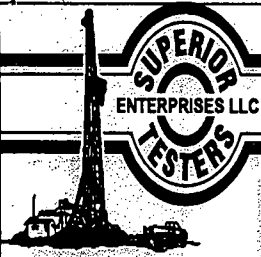
Tool Information

Drill Pipe:	Length: 3858.00 ft	Diameter: 3.80 inches	Volume: 54.12 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: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose: 84000.00 lb
			Total Volume: 56.92 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	30.00 ft			
Depth to Top Packer:	4426.00 ft	String Weight: Initial 68000.00 lb		
Depth to Bottom Packer:	ft	Final 68000.00 lb		
Interval between Packers:	37.00 ft			
Tool Length:	65.00 ft			
Number of Packers:	2	Diameter:	6.75 inches	

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
SHut-In Tool	5.00		Inside	4403.00	
Hydraulic Tool	5.00			4408.00	
Jars	6.00			4414.00	
Safety Joint	2.00			4416.00	
Packer	5.00			4421.00	28.00 Bottom Of Top Packer
Packer	5.00			4426.00	
Anchor	32.00			4458.00	
Recorder	1.00	8419	Inside	4459.00	
Recorder	1.00	8524	Outside	4460.00	
Bullnose	3.00			4463.00	37.00 Bottom Packers & Anchor
Total Tool Length:	65.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16519

DST#: 10

ATTN: Larry Friend

Test Start: 2011.08.04 @ 16:23:00

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: 7.99 in³

Gas Cushion Type:

Resistivity: 0.10 ohm.m

Gas Cushion Pressure:

psia

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
190.00	Slightley oil mud cut water	0.934
0.00	20%OIL 30%MUD 50%WATER	0.000
345.00	Gassy oil 30% 70%oil	1.697
0.00	380 feet gas in pipe	0.000
0.00	chlorides 40,000	0.000
0.00	Resistivity .1 @ 76 degrees	0.000

Total Length: 535.00 ft

Total Volume: 2.631 bbl

Num Fluid Samples: 0

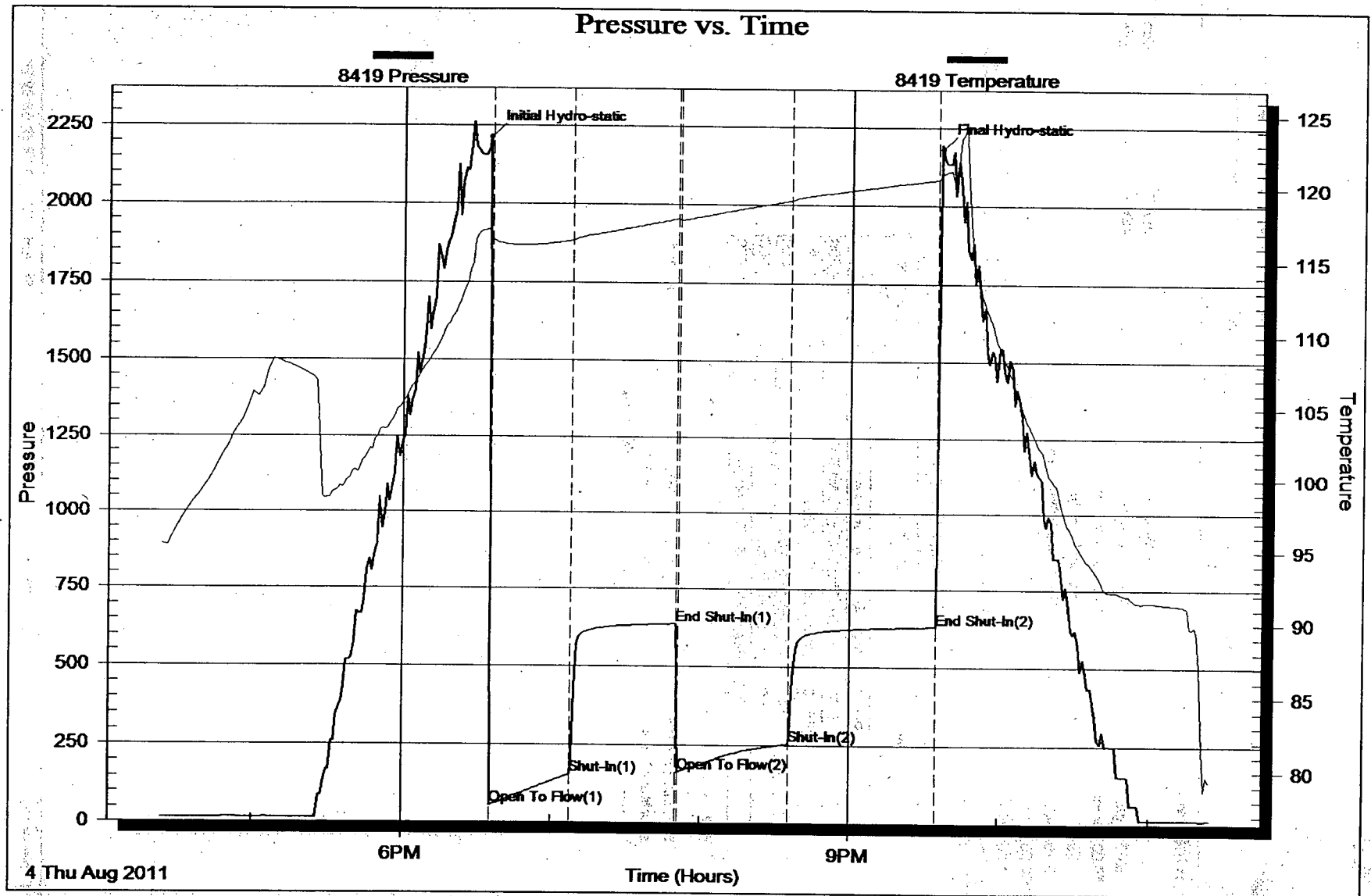
Num Gas Bombs: 0

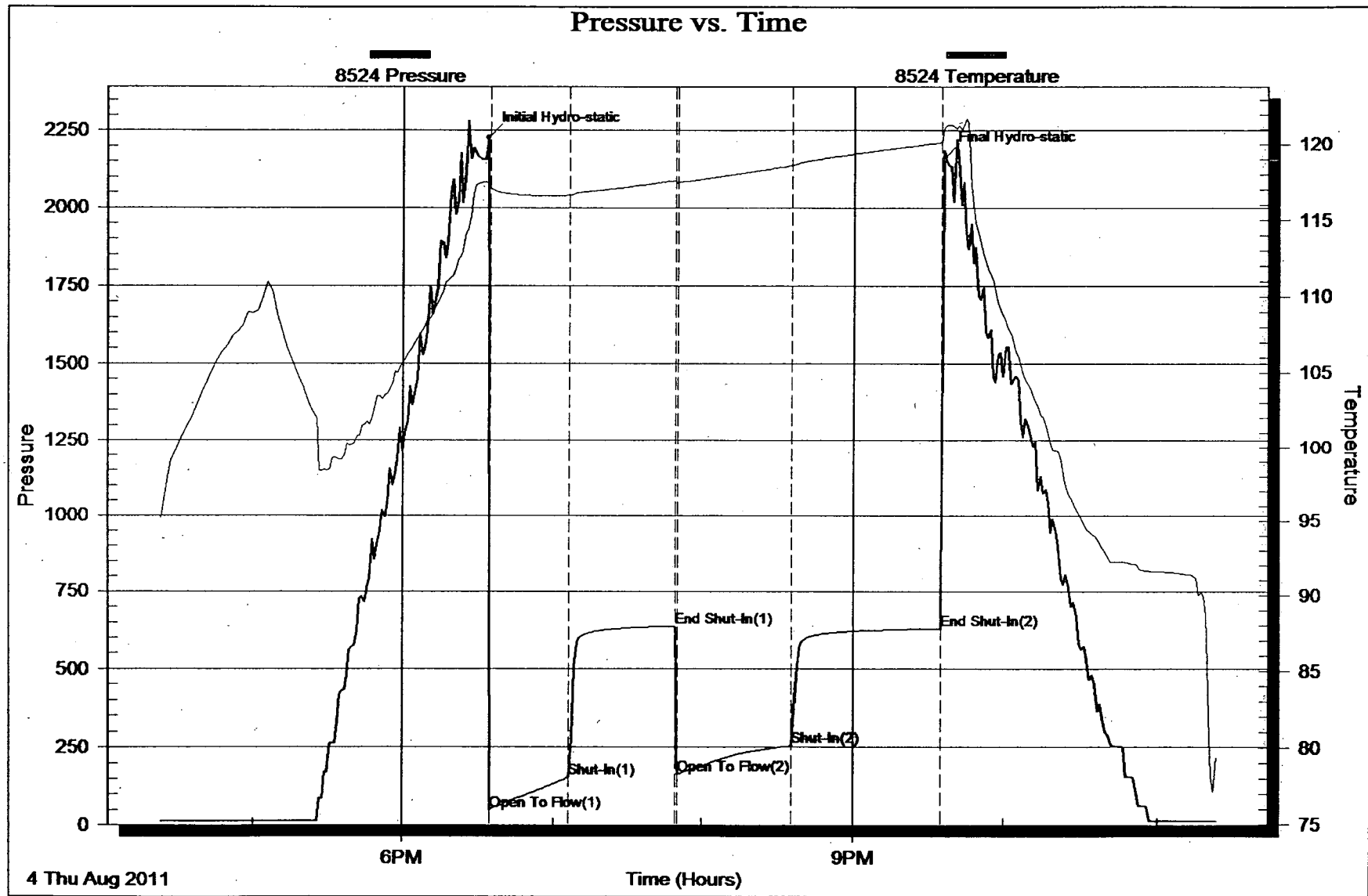
Serial #:

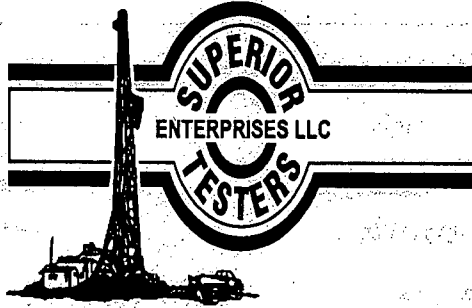
Laboratory Name:

Laboratory Location:

Recovery Comments: Chlorides 40,000 resistivity .1 @ 76 degrees







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd St N #700 Wichita KS
67278+3188

ATTN: Larry Friend

30-13-31 Gove

Joseph 30 cd #3

Start Date: 2011.08.05 @ 10:53:00

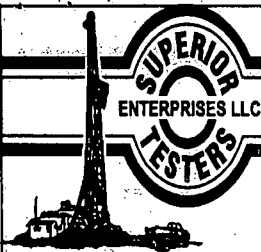
End Date: 2011.08.05 @ 17:45:00

Job Ticket #: 16520 DST #: 11

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

Printed: 2011.08.08 @ 08:32:45

Ritchie Exploration Inc Joseph 30 cd #3 30-13-31 Gove DST # 11 Johnson 2011.08.05



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16520

DST#: 11

ATTN: Larry Friend

Test Start: 2011.08.05 @ 10:53:00

GENERAL INFORMATION:

Formation: **Johnson**

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 12:57:30

Tester: Jared Scheck

Time Test Ended: 17:45:00

Unit No: 3320-Scott City-70

Interval: 4482.00 ft (KB) To 4516.00 ft (KB) (TVD)

Reference Elevations: 2921.00 ft (KB)

Total Depth: 4516.00 ft (KB) (TVD)

2911.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 8524

Outside

Press@RunDepth: 524.48 psia @ 4513.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.05

End Date: 2011.08.05

Last Calib.: 2011.08.05

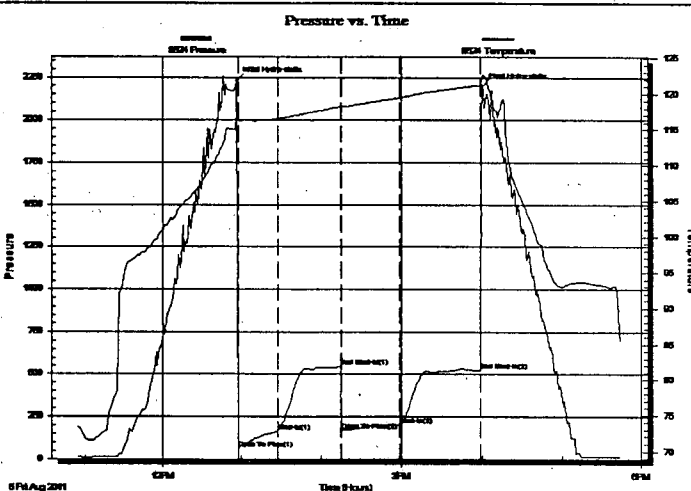
Start Time: 10:54:00

End Time: 17:45:00

Time On Btm: 2011.08.05 @ 12:56:30

Time Off Btm: 2011.08.05 @ 16:00:00

TEST COMMENT: 1st Opening 30 Minutes-Strong blow built bottom of bucket in 8 1/2 Minutes
 1st Shut-in 45 Minutes-2 inch blow back
 2nd Opening 45 Minutes-Fair blow built bottom of bucket in 20 minutes
 2nd Shut-in 60 Minutes-3 inch blow back



PRESSURE SUMMARY

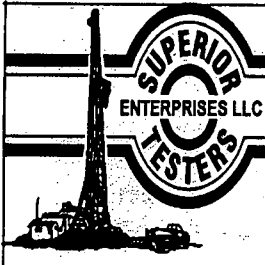
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2229.27	117.07	Initial Hydro-static
1	57.86	116.41	Open To Flow (1)
31	162.28	116.55	Shut-In(1)
79	545.94	118.24	End Shut-In(1)
79	168.70	118.18	Open To Flow (2)
122	201.45	119.51	Shut-In(2)
182	524.48	121.26	End Shut-In(2)
184	2199.43	122.65	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
190.00	Oil cut mud 20%oil 80%mud	0.93
190.00	Mudd cut heavy oil 60%oil 40%mud	0.93
60.00	Clean gassy oil 10%gas 90%oil	0.30
0.00	795 feet gas in pipe	0.00
0.00	Gravity oil 46	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

Ritchie Exploration Inc
 8100 E 22nd St N #700 Wichita KS 67278+3188
 ATTN: Larry Friend

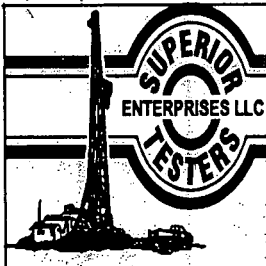
Joseph 30 cd #3
 30-13-31 Gove
 Job Ticket: 16520 DST#: 11
 Test Start: 2011.08.05 @ 10:53:00

Tool Information

Drill Pipe:	Length: 3892.00 ft	Diameter: 3.80 inches	Volume: 54.59 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: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose: 75000.00 lb
			Total Volume: 57.39 bbl	Tool Chased: 0.00 ft
Drill Pipe Above KB:	8.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4482.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	34.00 ft			
Tool Length:	62.00 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		Inside	4459.00	
Hydraulic Tool	5.00			4464.00	
Jars	6.00			4470.00	
Safety Joint	2.00			4472.00	
Packer	5.00			4477.00	28.00 Bottom Of Top Packer
Packer	5.00			4482.00	
Anchor	29.00			4511.00	
Recorder	1.00	8419	Inside	4512.00	
Recorder	1.00	8524	Outside	4513.00	
Bullnose	3.00			4516.00	34.00 Bottom Packers & Anchor
Total Tool Length:	62.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc
8100 E 22nd St N #700 Wichita KS 67278+3188
ATTN: Larry Friend

Joseph 30 cd #3
30-13-31 Gove
Job Ticket: 16520 DST#: 11
Test Start: 2011.08.05 @ 10:53:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 46 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 61.00 sec/qt	Cushion Volume: bbl	
Water Loss: 8.79 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psia	
Salinity: 4200.00 ppm		
Filter Cake: 1.00 inches		

Recovery Information

Recovery Table

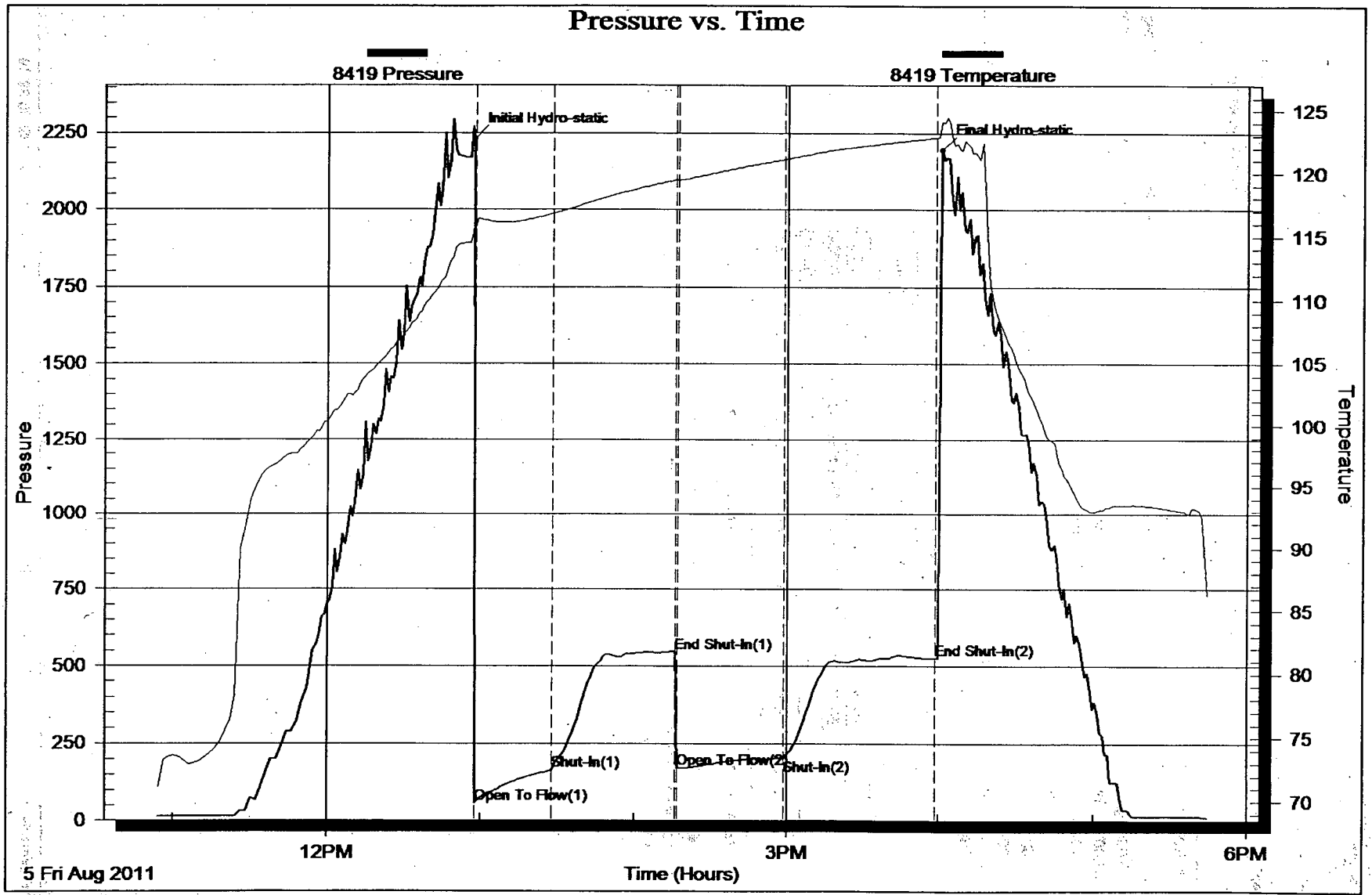
Length ft	Description	Volume bbl
190.00	Oil cut mud 20%oil 80%mud	0.934
190.00	Mudd cut heavy oil 60%oil 40%mud	0.934
60.00	Clean gassy oil 10%gas 90%oil	0.295
0.00	795 feet gas in pipe	0.000
0.00	Gravity oil 46	0.000

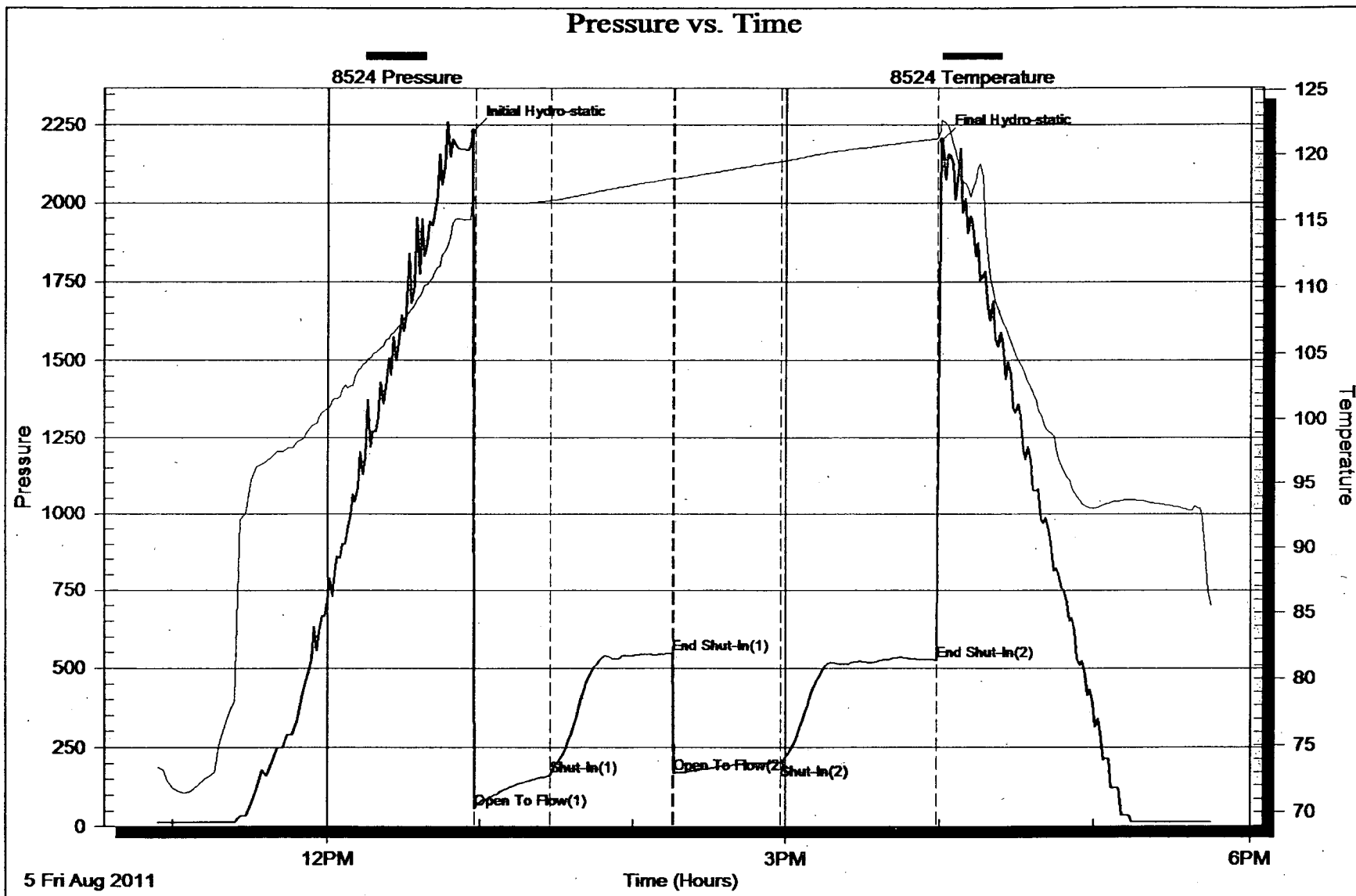
Total Length: 440.00 ft Total Volume: 2.163 bbl

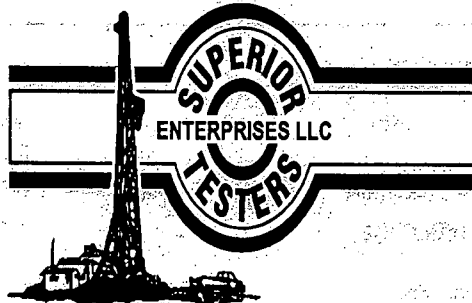
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments: Gravity oil 46







DRILL STEM TEST REPORT

Prepared For: **Ritchie Exploration Inc**

8100 E 22nd St N #700 Wichita KS
67278+3188

ATTN: Larry Friend

30-13-31 Gove

Joseph 30 cd #3

Start Date: 2011.08.06 @ 01:30:00

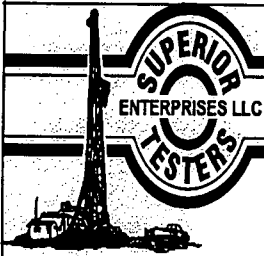
End Date: 2011.08.06 @ 07:43:00

Job Ticket #: 16521 DST #: 12

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

Printed: 2011.08.08 @ 08:33:18

Ritchie Exploration Inc
Joseph 30 cd #3
30-13-31 Gove
DST # 12
Johnson
2011.08.06



DRILL STEM TEST REPORT

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16521

DST#: 12

ATTN: Larry Friend

Test Start: 2011.08.06 @ 01:30:00

GENERAL INFORMATION:

Formation: Johnson

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 03:29:00

Time Test Ended: 07:43:00

Test Type: Conventional Bottom Hole (Initial)

Tester: Jared Scheck

Unit No: 3320-Scott City-70

Interval: 4516.00 ft (KB) To 4538.00 ft (KB) (TVD)

Total Depth: 4538.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2921.00 ft (KB)

2911.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419

Inside

Press@RunDepth: 84.02 psia @ 4530.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2011.08.06

End Date:

2011.08.06

Last Calib.: 2011.08.06

Start Time: 01:31:00

End Time:

07:43:00

Time On Btm: 2011.08.06 @ 03:27:30

Time Off Btm: 2011.08.06 @ 05:59:30

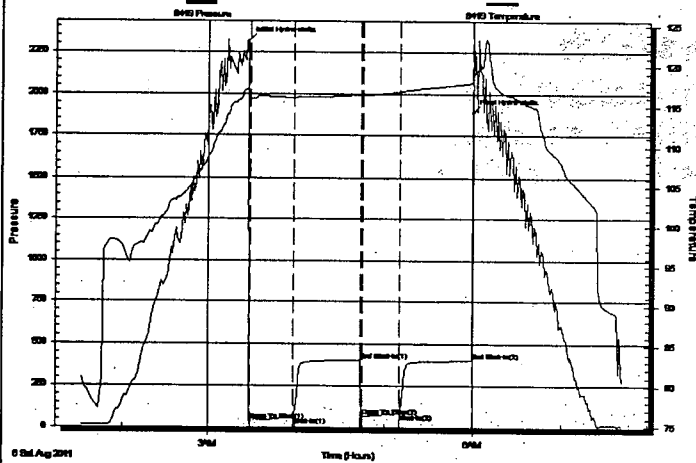
TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 2 inches into water in 30 Minutes

1st Shut-in 45 Minutes-No blow back

2nd Opening 30 Minutes-Weak surge did not build flushed tool Weak surge did not build

2nd Shut-in 45 Minutes-No blow back

Pressure vs. Time



PRESSURE SUMMARY

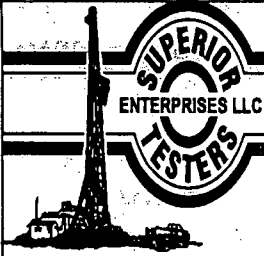
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2316.52	117.12	Initial Hydro-static
2	38.49	115.97	Open To Flow (1)
31	60.93	116.06	Shut-In(1)
77	401.97	116.45	End Shut-In(1)
78	65.35	116.38	Open To Flow (2)
103	84.02	116.80	Shut-In(2)
152	399.61	117.92	End Shut-In(2)
152	1887.96	118.35	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	Water	0.57
0.00	Chlorides 30,000	0.00
0.00	Resistivity .2 @ 76 Degrees	0.00

Gas Rates

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



DRILL STEM TEST REPORT

Ritchie Exploration Inc
 8100 E 22nd St N #700 Wichita KS 67278+3188
 ATTN: Larry Friend

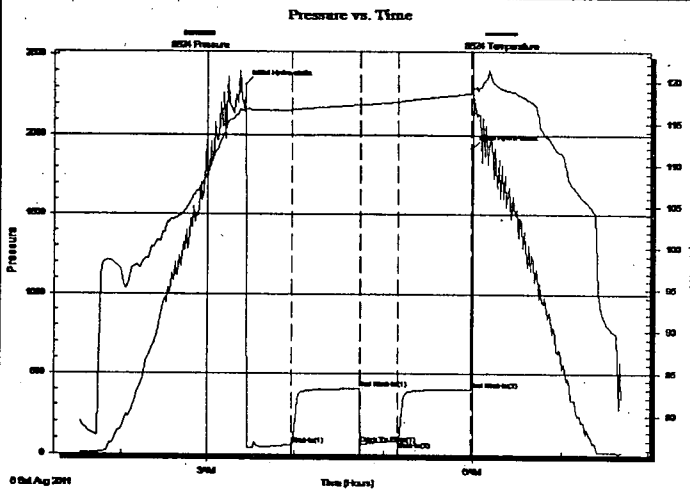
Joseph 30 cd #3
30-13-31 Gove
 Job Ticket: 16521 **DST#: 12**
 Test Start: 2011.08.06 @ 01:30:00

GENERAL INFORMATION:

Formation: **Johnson**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:29:00
 Time Test Ended: 07:43:00
 Interval: **4516.00 ft (KB) To 4538.00 ft (KB) (TVD)**
 Total Depth: **4538.00 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-70**
 Reference Elevations: **2921.00 ft (KB)**
 2911.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8524 **Outside**
 Press@RunDepth: **399.13 psia @ 4531.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2011.08.06** End Date: **2011.08.06** Last Calib.: **2011.08.06**
 Start Time: **01:31:00** End Time: **07:43:00** Time On Btm: **2011.08.06 @ 03:26:30**
 Time Off Btm: 2011.08.06 @ 05:59:00

TEST COMMENT: 1st Opening 30 Minutes-Weak blow built 2 inches into water in 30 Minutes
 1st Shut-in 45 Minutes-No blow back
 2nd Opening 30 Minutes-Weak surge did not build flushed tool Weak surge did not build
 2nd Shut-in 45 Minutes-No blow back



PRESSURE SUMMARY

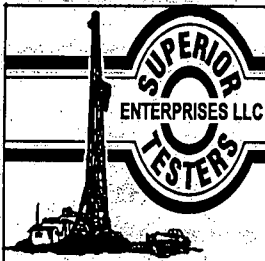
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2316.18	116.67	Initial Hydro-static
32	59.52	116.64	Shut-In(1)
77	401.40	117.25	End Shut-In(1)
78	64.39	117.22	Open To Flow(1)
103	83.39	117.63	Shut-In(2)
152	399.13	118.63	End Shut-In(2)
153	1916.78	119.13	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
115.00	Water	0.57
0.00	Chlorides 30,000	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

Ritchie Exploration Inc
 8100 E 22nd St N #700 Wichita KS 67278+3188
 ATTN: Larry Friend

Joseph 30 cd #3
 30-13-31 Gove
 Job Ticket: 16521
 Test Start: 2011.08.06 @ 01:30:00
 DST#: 12

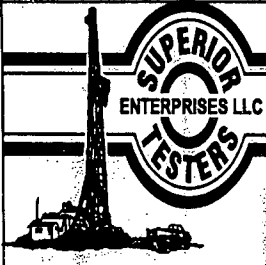
Tool Information

Drill Pipe:	Length: 3925.00 ft	Diameter: 3.80 inches	Volume: 55.06 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: 570.00 ft	Diameter: 2.25 inches	Volume: 2.80 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 57.86 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	5.00 ft			String Weight: Initial 69000.00 lb
Depth to Top Packer:	4516.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	18.00 ft			
Tool Length:	44.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Shut-In Tool	5.00		Inside	4495.00	
Hydraulic Tool	5.00			4500.00	
Jars	6.00			4506.00	
Packer	5.00			4511.00	26.00 Bottom Of Top Packer
Packer	5.00			4516.00	
Anchor	13.00			4529.00	
Recorder	1.00	8419	Inside	4530.00	
Recorder	1.00	8524	Outside	4531.00	
Bullnose	3.00			4534.00	18.00 Bottom Packers & Anchor
Total Tool Length:	44.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

Ritchie Exploration Inc

Joseph 30 cd #3

8100 E 22nd St. N #700 Wichita KS 67278+3188

30-13-31 Gove

Job Ticket: 16521 DST#: 12

ATTN: Larry Friend

Test Start: 2011.08.06 @ 01:30:00

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: 61.00 sec/qt

Cushion Volume:

bbl

Water Loss: 8.79 in³

Gas Cushion Type:

Gas Cushion Pressure:

psia

Resistivity: ohm.m

Salinity: 4200.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
115.00	Water	0.566
0.00	Chlorides 30,000	0.000
0.00	Resistivity .2 @ 76 Degrees	0.000

Total Length: 115.00 ft Total Volume: 0.566 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments: Chlorides 30,000 Resistivity .2 @ 76 degees

Serial #: 8419

Inside Ritchie Exploration Inc

30-13-31 Gove

DST Test Number: 12

