

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
September 1999
Form Must Be Typed

6/22/10

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

Operator: License # 4767
Name: Ritchie Exploration, Inc.
Address: P.O. Box 783188
City/State/Zip: Wichita, KS 67278-3188
Purchaser: NCRA
Operator Contact Person: John Niemberger
Phone: (316) 691-9500
Contractor: Name: Murfin Drilling Co., Inc.
License: 30606
Wellsite Geologist: Mike Engelbrecht

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

If Workover/Re-entry: Old Well Info as follows:
Operator: _____

Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to Enhr./SWD
 Plug Back _____ Plug Back Total Depth _____
 Commingled _____ Docket No. _____
 Dual Completion _____ Docket No. _____
 Other (SWD or Enhr.?) _____ Docket No. _____

3/15/10	3/26/10	3/26/10
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 063-21829-00-00
County: Gove
N2 S2 N2 Sec. 5 Twp. 14 S. R. 31 East West
1525 feet from S (N) (circle one) Line of Section
2660 feet from E (W) (circle one) Line of Section
Footages Calculated from Nearest Outside Section Corner:
(circle one) NE SE NW SW
Lease Name: Steckel Unit Well #: 1

Field Name: _____
Producing Formation: Johnson
Elevation: Ground: 2957 Kelly Bushing: 2967
Total Depth: 4680 Plug Back Total Depth: 4646
Amount of Surface Pipe Set and Cemented at 214 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set 2418 Feet
If Alternate II completion, cement circulated from 2418
feet depth to surface w/ 325 sx cmt.

Drilling Fluid Management Plan AT II UG 0380
(Data must be collected from the Reserve Pit)
Chloride content 6500 ppm Fluid volume 715 bbls
Dewatering method used evaporation
Location of fluid disposal if hauled offsite: _____
Operator Name: _____
Lease Name: _____ License No.: _____
Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West
County: _____ Docket No.: _____

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

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

Signature: _____
Title: Production Manager Date: 6/22/10
Subscribed and sworn to before me this 22nd day of June
20 10.
Notary Public: Debra K Phillips
Date Commission Expires: 5-4-11

KCC Office Use ONLY
 Letter of Confidentiality Received 6/22/10
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received

UIC Distribution
RECEIVED
JUN 23 2010

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

KCC WICHITA

Operator Name: Ritchie Exploration, Inc. Lease Name: Steckel Unit Well #: 1
 Sec. 5 Twp. 14 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 copy of all Electric Wireline Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets)
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No
 Electric Log Run Yes No
 (Submit Copy)

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

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

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12-1/4	8-5/8	23	214	Common	175	3%cc, 2% gel
Production	7-7/8	5-1/2	15.5	4674	ASC	175	10% ext, 2% gel @ .50 per sack to seal

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	4565.5' - 4570' (Johnson 4/6/10)	500 gallons 15% NE	
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			KCC WICHITA

TUBING RECORD		Size	Set At	Packer At	Liner Run		
2-7/8			4634'			<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
Date of First, Resumerd Production, SWD or Enhr. 4/19/10			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.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity		
	113.40		0		28.4		

Disposition of Gas Vented Sold Used on Lease (If vented, Submit ACO-18.)

METHOD OF COMPLETION Open Hole Perf. Dually Comp. Commingled

Production Interval Other (Specify) _____



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#1 Steckel Unit

1525' FNL & 2660' FWL

125' N & 20' E of C N/2 S/2 N/2 Section 5-14S-31W

Gove County, Kansas

API# 15-063-21829-0000

Elevation: 2957' GL: 2967' KB

Sample Tops			Ref. Well
Anhydrite	2447'	+520	-8
B/Anhydrite	2471'	+496	-8
Heebner	3960'	-993	-5
Toronto	3986'	-1016	-5
Lansing "A"	4003'	-1036	-5
Lansing "C"	4036'	-1069	-6
Lansing "E"	4084'	-1117	-3
Lansing "F"	4091'	-1124	-1
Lansing "H"	4173'	-1206	-5
Lansing "J"	4222'	-1255	-3
Lansing "K"	4258'	-1291	-7
Lansing "L"	4294'	-1327	-5
BKC	4315'	-1348	-8
Marmaton	4351'	-1384	-8
Altamont	4364'	-1397	-4
Pawnee	4442'	-1475	-7
Myric Station	4480'	-1513	-5
Fort Scott	4497'	-1530	-5
Cherokee Shale	4526'	-1559	-8
Johnson	4567'	-1600	-7
Morrow Sand	4603'	-1636	-3
Mississippian	4614'	-1647	+18
RTD	4680'	-1713	

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ALLIED CEMENTING CO., LLC. 039142

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

SERVICE POINT:
Dakley, KS

KCC
JUN 22 2010
CONFIDENTIAL

DATE <i>3/15/10</i>	SEC. <i>5</i>	TWP. <i>14</i>	RANGE <i>31</i>	CALLED OUT	ON LOCATION <i>OK</i>	JOB START <i>12:30am</i>	JOB FINISH <i>1:00am</i>
STEELHOL UNIT LEASE	WELL # <i>1</i>	LOCATION <i>Dakley 11 S 3E 5S</i>			COUNTY <i>Gove</i>	STATE <i>KS</i>	
OLD OR NEW (Circle one)				<i>1/2 E 5th</i>			

CONTRACTOR *Martin 14*

TYPE OF JOB *Surface*

HOLE SIZE *12 1/4* T.D. *217'*

CASING SIZE *8 5/8* DEPTH

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. *15'*

PERFS.

DISPLACEMENT *12-86*

OWNER *Same*

CEMENT AMOUNT ORDERED *175 SK Com 390cc*

270 gal

EQUIPMENT

PUMP TRUCK CEMENTER *Alan*

422 HELPER *Wayne*

BULK TRUCK DRIVER *Neil*

377

BULK TRUCK DRIVER

COMMON	<i>175</i>	@	<i>15.45</i>	<i>2703.25</i>
POZMIX		@		
GEL	<i>3</i>	@	<i>20.00</i>	<i>60.00</i>
CHLORIDE	<i>6</i>	@	<i>58.00</i>	<i>348.00</i>
ASC		@		
HANDLING	<i>189 SK</i>	@	<i>2.30</i>	<i>441.60</i>
MILEAGE	<i>20.54/mile</i>			<i>365.22</i>
TOTAL				<i>3924.25</i>

REMARKS:

Cement did Circulate

SERVICE

DEPTH OF JOB			
PUMP TRUCK CHARGE			<i>1018.00</i>
EXTRA FOOTAGE	@		
MILEAGE	<i>20.54</i>	@	<i>732.12</i>
MANIFOLD	@		
TOTAL <i>1150.12</i>			

Thank You Alan, Wayne

CHARGE TO: *Ritchie Exploration*

STREET

CITY STATE ZIP

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 *Greg Urruh*

SIGNATURE *Greg Urruh*

SALES TAX (If Any)

TOTAL CHARGES

DISCOUNT IF PAID IN 30 DAYS

GR

ALLIED CEMENTING CO., LLC. 044515

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

SERVICE POINT:

Oakley KS
3-27-10

DATE <u>3-26-10</u>	SEC <u>5</u>	TWP. <u>14</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>5:00pm</u>	JOB START <u>2:00am</u>	JOB FINISH <u>2:30am</u>
LEASE <u>Street</u>	WELL # <u>1</u>	LOCATION <u>Oakley 115-3655</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>126 Sun</u>			

CONTRACTOR Murphy #14

TYPE OF JOB Production

HOLE SIZE 7 7/8 T.D. 4680'

CASING SIZE 5 1/2 15.5 DEPTH 4674'

TUBING SIZE _____ DEPTH _____

DRILL PIPE _____ DEPTH _____

TOOL Port Collar DEPTH 2419'

PRES. MAX _____ MINIMUM _____

MEAS. LINE _____ SHOE JOINT 19'

CEMENT LEFT IN CSG. 19'

PERFS. _____

DISPLACEMENT 110.7

EQUIPMENT

PUMP TRUCK CEMENTER Fuzzy

431 HELPER Kelly

BULK TRUCK

377 DRIVER Darin

BULK TRUCK

_____ DRIVER _____

REMARKS:

Pump 5 BBL Goughnut 500gal WFA II

max 205kts in MH - 305kts in BH

max 175 kts cement washout pump + lines

Drop plug + displace to insert

700' lift 1600' land float

held good circulation all the way

plug down @ 2:30am

Thanks Fuzzy & crew

CHARGE TO: Ritchie Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

To Allied Cementing Co., LLC.

You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PRINTED NAME Carlos Javier Jimenez

SIGNATURE Carlos Javier Jimenez

OWNER _____

CEMENT

AMOUNT ORDERED 225 kts ASC 29' seal

10' 20 gal salt + 6.1/5k 3/4 20' CD-31

500 gal WFA II

COMMON _____ @ _____

POZMIX _____ @ _____

GEL 4 @ 20.00 83.00

CHLORIDE _____ @ _____

ASC 225 @ 18.00 4185.00

CD-31 159' @ 9.25 1486.65

G. Iso. 7c 1125' @ 1.89 1001.25

Salt 22 kts @ 23.99 526.98

WFA II 500 gal @ 1.27 635.00

HANDLING 277 @ 2.44 664.88

MILEAGE 104.75 mile @ _____ 564.00

TOTAL 9136.00

SERVICE

DEPTH OF JOB 4674'

PUMP TRUCK CHARGE 2011.00

EXTRA FOOTAGE _____ @ _____

MILEAGE 20 @ 7.00 140.00

MANIFOLD _____ @ _____

TOTAL 2151.00

PLUG & FLOAT EQUIPMENT

1. ATU Insert 112.00

1. G. Shop @ 101.00

1. Basket (W) @ 186.00

2. Turbolizers @ 512 336.00

1. Port Collar @ 1750.00

3. Baskets @ 161 483.00

1. rubber plug 87.00

TOTAL 3055

SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

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KCC

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ALLIED CEMENTING CO., LLC. 039157

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

WELL / ICE POINT: Oakley 24

DATE <u>3/30/10</u>	SEC. <u>5</u>	TWP. <u>14</u>	RANGE <u>31</u>	CALLED OUT	ON LOCATION <u>1200 noon</u>	JOB START <u>12:00p</u>	JOB FINISH <u>1:00p</u>
LEASE <u>Steele</u> WELL # <u>#1</u>		LOCATION <u>Oakley 115 3E 5S</u>			COUNTY <u>Gove</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>1/2 E 51N 30</u>					

CONTRACTOR Express
 TYPE OF JOB Part collar
 HOLE SIZE _____ T.D. _____
 CASING SIZE 5 1/2 DEPTH _____
 TUBING SIZE 2 7/8 DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL Part collar DEPTH 2418'
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSG. _____
 PERFS. _____
 DISPLACEMENT _____

OWNER Same
 CEMENT
 AMOUNT ORDERED 450 60/40 6000 gal
14 F10 seal 500lb hulls
used 325 SKS
 COMMON 195 @ 15.45 3012.25
 POZMIX 130 @ 8.00 1040.00
 GEL 17 @ 20.00 353.00
 CHLORIDE _____ @ _____
 ASC _____ @ _____
Flo seal 81lb @ 2.50 202.50
Hulls 500lb - 10SKS @ 31.25 318.50
 HANDLING 489 SKS @ 2.40 1168.80
 MILEAGE 104.51k/mile @ _____ 974.00
 TOTAL 7070.15

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EQUIPMENT
 PUMP TRUCK CEMENTER Alan
 # 422 HELPER Wing
 BULK TRUCK
 # 396 DRIVER Terry
 BULK TRUCK
 # _____ DRIVER _____

REMARKS:
Test tool to 1200 Hold open tool Est.
Blow, mix 325 SKS 60/40 6000 gal
w/ 500 lb Hulls, Ciron like cement
to surface. Displace 13 HBL.
Close tool test to 1200 Hold, run 357lb
Reverse flow

SERVICE
 DEPTH OF JOB _____
 PUMP TRUCK CHARGE _____ 1018.00
 EXTRA FOOTAGE @ _____
 MILEAGE 20 @ 7.00 140.00
 MANIFOLD @ _____
 TOTAL 1158.00

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

To Allied Cementing Co., LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

PLUG & FLOAT EQUIPMENT
 _____ @ _____
 _____ @ _____
 _____ @ _____
 _____ @ _____
 TOTAL _____
 SALES TAX (If Any) _____
 TOTAL CHARGES _____
 DISCOUNT _____ IF PAID IN 30 DAYS

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KCC WICHITA

PRINTED NAME CARLOS JAVIER JIMENEZ
 SIGNATURE Carlos Javier Jimenez

T2



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278

ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

STECKEL UNIT#1

Start Date: 2010.03.19 @ 20:00:00

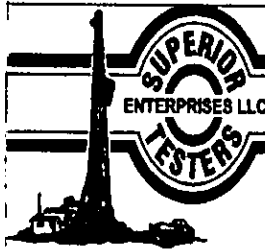
End Date: 2010.03.20 @ 03:24:30

Job Ticket #: 16288 DST #: 1

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

Printed: 2010.03.26 @ 10:06:53

RITCHIE EXPLORATION INC STECKEL UNIT#1 5-14S-31W-GOVE DST # 1 LANSING 2010.03.19



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278
ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

Job Ticket: 16288

DST#: 1

Test Start: 2010.03.19 @ 20:00:00

GENERAL INFORMATION:

Formation: **LANSING**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:29:10

Time Test Ended: 03:24:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345

Interval: 3994.00 ft (KB) To 4026.00 ft (KB) (TVD)

Total Depth: 4026.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2967.00 ft (KB)

2958.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8400

Inside

Press@RunDepth: 544.25 psia @ 4022.00 ft (KB)

Start Date: 2010.03.19

End Date:

2010.03.20

Start Time: 20:01:00

End Time:

03:24:30

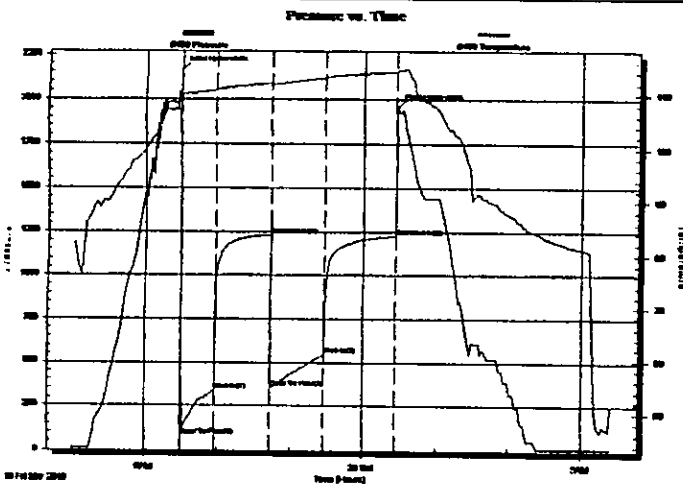
Capacity: 5000.00 psia

Last Calib.: 2010.03.19

Time On Btm: 2010.03.19 @ 21:28:50

Time Off Btm: 2010.03.20 @ 00:28:00

TEST COMMENT: 30-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 7 MINS
45-INITIAL SHUT IN NO BLOW BACK
45-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 7 MINS
60-FINAL SHUT IN VERY WEAK SURFACE BLOW



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2165.11	110.35	Initial Hydro-static
1	78.43	109.41	Open To Flow (1)
29	338.00	110.87	Shut-in(1)
75	1233.75	112.22	End Shut-in(1)
75	354.76	111.97	Open To Flow (2)
120	544.25	113.15	Shut-in(2)
178	1226.06	114.35	End Shut-in(2)
180	1954.30	114.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	OIL CUT WATER 30% O70%W	3.34
380.00	OILY WATER 15% O85%W	5.56
285.00	WATER TRACE OF OIL 3% O97%W	4.17

Gas Rates

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

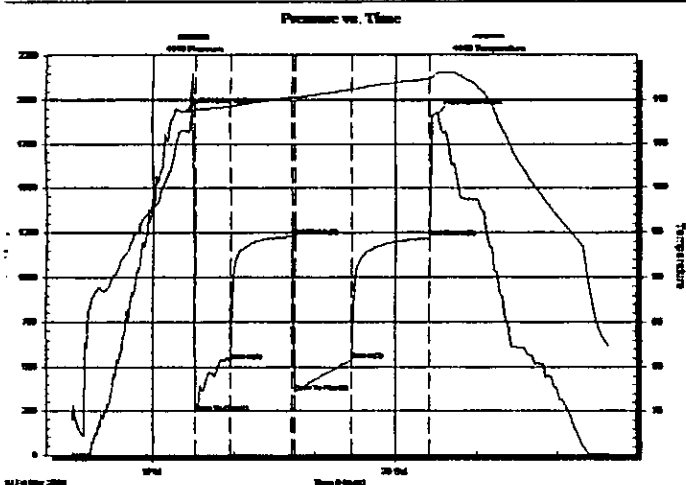
5-14S-31W-GOVE
 Job Ticket: 16288 DST#: 1
 Test Start: 2010.03.19 @ 20:00:00

GENERAL INFORMATION:

Formation: **LANSING**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 21:29:10
 Time Test Ended: 03:24:30
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 3345
 Interval: 3994.00 ft (KB) To 4026.00 ft (KB) (TVD)
 Total Depth: 4026.00 ft (KB) (TVD)
 Reference Elevations: 2967.00 ft (KB)
 2958.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 9.00 ft

Serial #: 4143 Outside
 Press@RunDepth: 1220.75 psia @ 4023.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.03.19 End Date: 2010.03.20 Last Calib.: 2010.03.19
 Start Time: 20:00:01 End Time: 02:38:10 Time On Btm: 2010.03.19 @ 21:25:10
 Time Off Btm: 2010.03.20 @ 00:31:10

TEST COMMENT: 30-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 7 MINS
 45-INITIAL SHUT IN NO BLOW BACK
 45-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 7 MINS
 60-FINAL SHUT IN VERY WEAK SURFACE BLOW



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1938.13	106.33	Initial Hydro-static
6	239.19	108.84	Open To Flow (1)
32	530.02	109.15	Shut-in(1)
78	1229.32	110.18	End Shut-in(1)
80	354.22	110.18	Open To Flow (2)
122	537.81	111.05	Shut-in(2)
180	1220.75	112.25	End Shut-in(2)
186	1924.11	112.87	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
600.00	OIL CUT WATER 30%O70%W	3.34
380.00	OILY WATER 15%O85%W	5.56
285.00	WATER TRACE OF OIL 3%O97%W	4.17

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

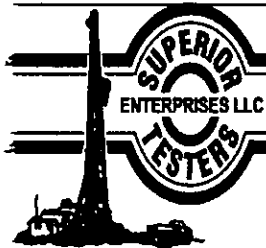
5-14S-31W-GOVE
 Job Ticket: 16288 DST#: 1
 Test Start: 2010.03.19 @ 20:00:00

Tool Information

Drill Pipe:	Length: 3416.00 ft	Diameter: 3.88 inches	Volume: 49.96 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 560.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 52.71 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	3994.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			3974.00	
Shut-In Tool	5.00			3979.00	
Hydroic Tool	5.00			3984.00	
Packer	5.00			3989.00	21.00 Bottom Of Top Packer
Packer	5.00			3994.00	
Perforations	27.00			4021.00	
Recorder	1.00	8400	Inside	4022.00	
Recorder	1.00	4143	Outside	4023.00	
Bullnose	3.00			4026.00	32.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278
ATTN: MIKE ENGELBRECHT

STECKEL UNIT#1
5-14S-31W-GOVE
Job Ticket: 16288 DST#: 1
Test Start: 2010.03.19 @ 20:00:00

Mud and Cushion Information

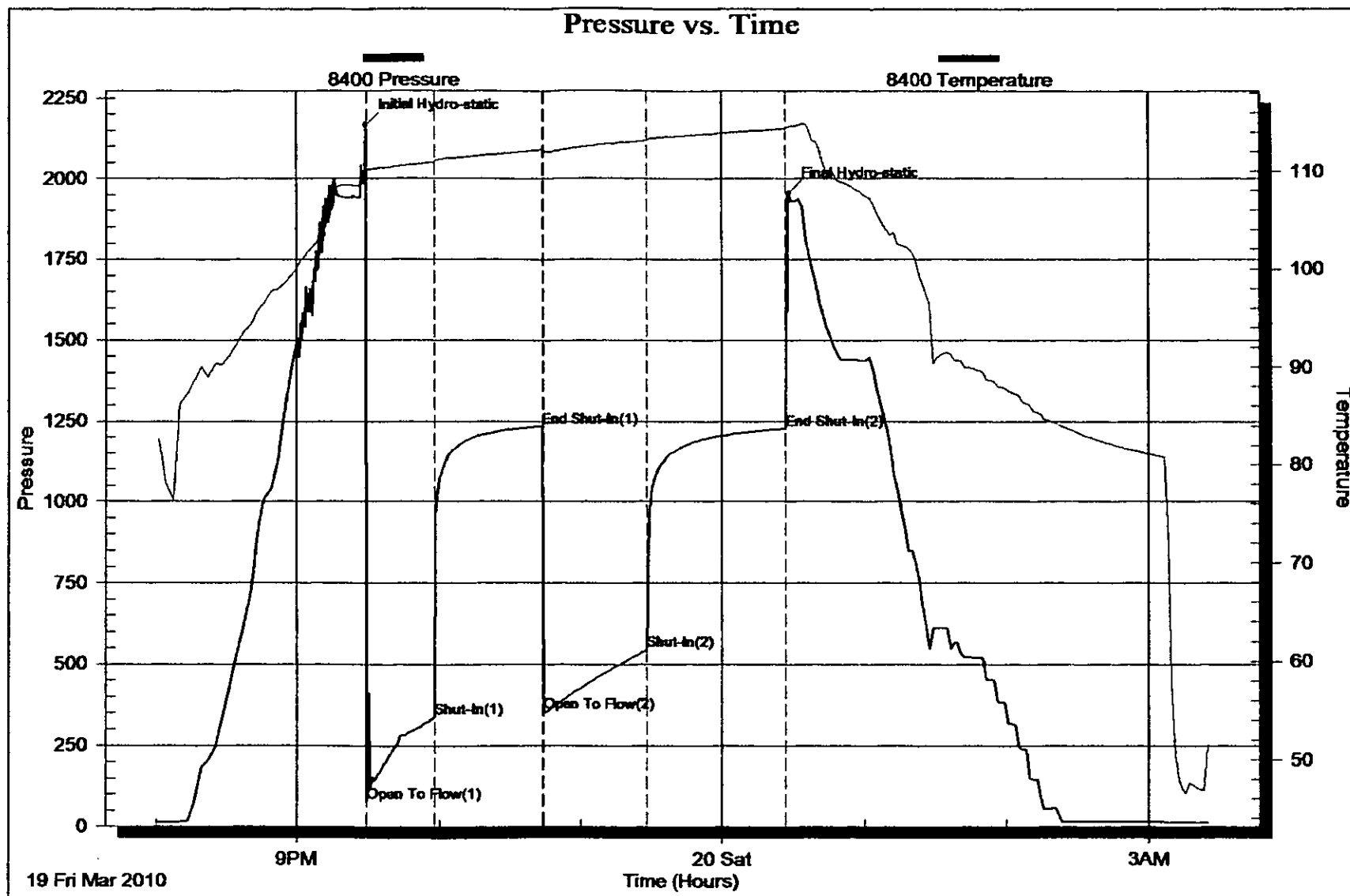
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 59.00 sec/qt	Cushion Volume: bbl		
Water Loss: 5.97 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4200.00 ppm			
Filter Cake: inches			

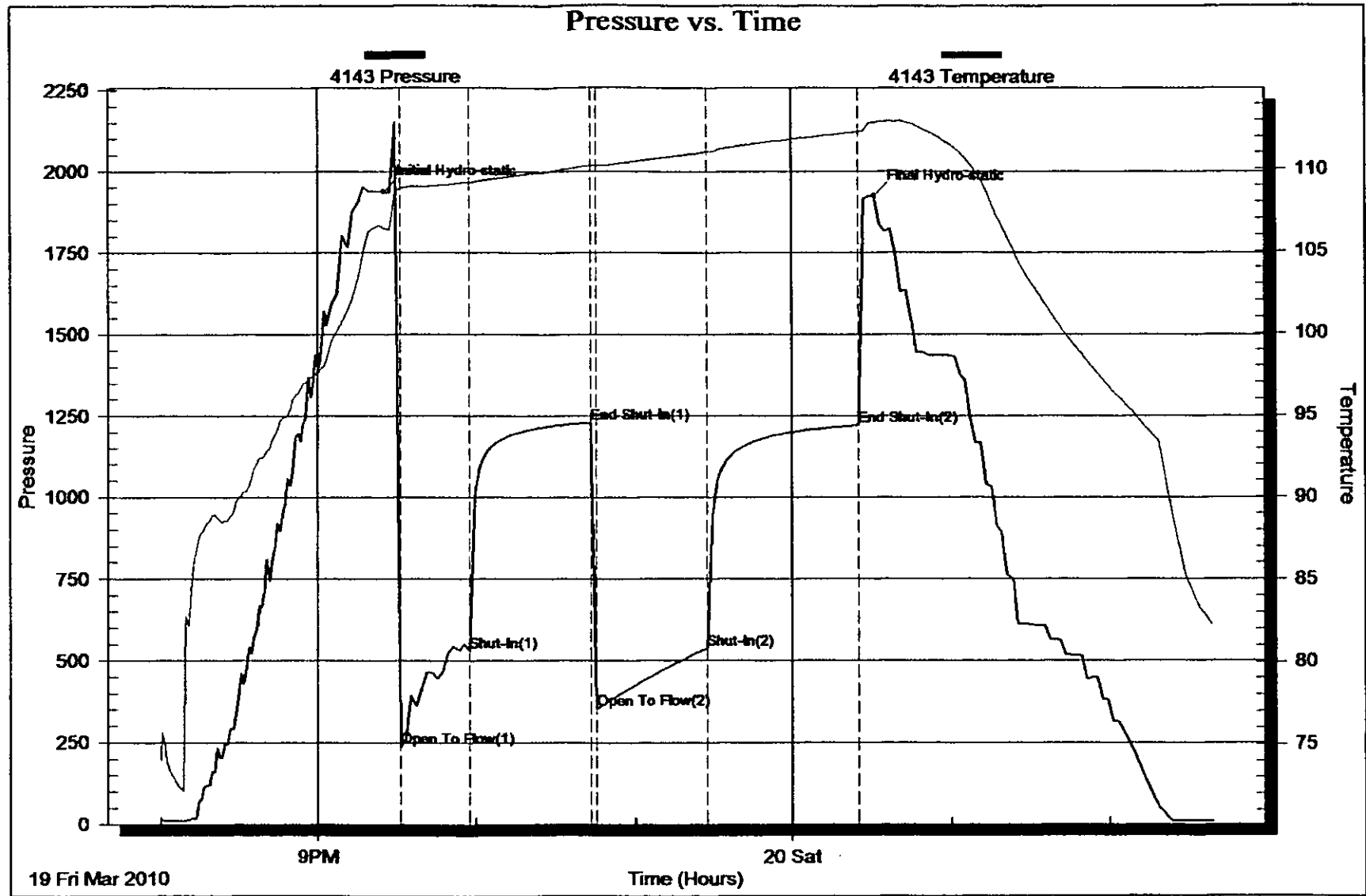
Recovery Information

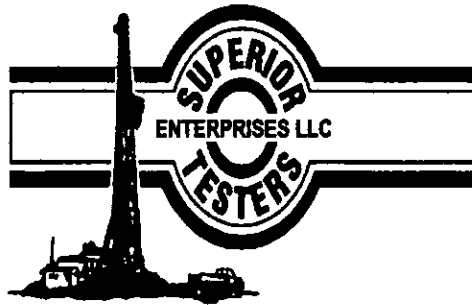
Recovery Table

Length ft	Description	Volume bbl
600.00	OIL CUT WATER 30%O70%W	3.339
380.00	OILY WATER 15%O85%W	5.557
285.00	WATER TRACE OF OIL 3%O97%W	4.168

Total Length: 1265.00 ft Total Volume: 13.064 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
PO BOX 783188
WICHITA KS 67278

ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

STECKEL UNIT#1

Start Date: 2010.03.19 @ 14:00:00

End Date: 2010.03.19 @ 21:09:30

Job Ticket #: 16289 DST #: 2

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

Printed: 2010.03.26 @ 10:06:39

RITCHIE EXPLORATION INC STECKEL UNIT#1 5-14S-31W-GOVE DST # 2 LANSING 2010.03.19



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

STECKEL UNIT#1

5-14S-31W-GOVE

Job Ticket: 16289

DST#: 2

Test Start: 2010.03.19 @ 14:00:00

GENERAL INFORMATION:

Formation: LANSING

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:46:30

Time Test Ended: 21:09:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345

Interval: 4024.00 ft (KB) To 4052.00 ft (KB) (TVD)

Total Depth: 4052.00 ft (KB) (TVD)

Tool Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2967.00 ft (KB)

2958.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 8400

Inside

Pressure@RunDepth: 50.74 psia @ 4048.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.03.19 End Date: 2010.03.19

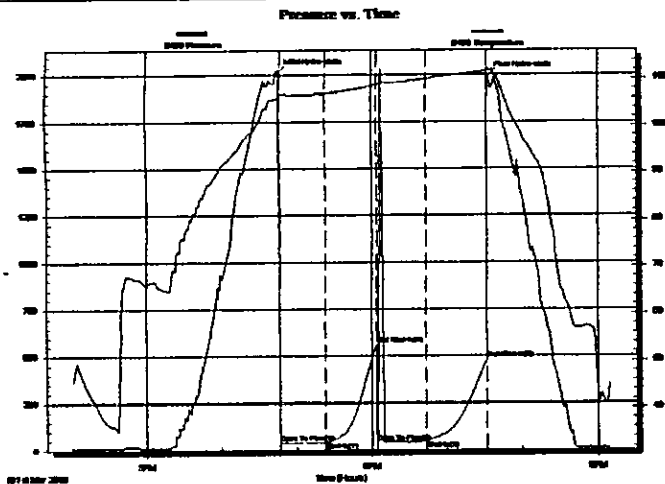
Last Calib.: 2010.03.19

Start Time: 14:01:00 End Time: 21:09:30

Time On Btm: 2010.03.19 @ 16:45:00

Time Off Btm: 2010.03.19 @ 19:33:00

TEST COMMENT: 30-INITIAL OPENING SURFACE BLOW DIED AFTER 17 MINS
 45-INITIAL SHUT IN NO BLOW BACK
 30-FINAL OPENING NO BLOW FLUSHED TOOL NO BLOW
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

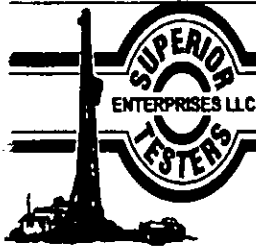
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2019.36	106.07	Initial Hydro-static
2	37.09	106.76	Open To Flow (1)
39	41.69	106.93	Shut-In(1)
79	564.92	108.64	End Shut-In(1)
79	39.82	108.53	Open To Flow (2)
118	50.74	109.99	Shut-In(2)
167	483.51	111.64	End Shut-In(2)
168	1995.90	111.98	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD100#M	0.05

Gas Rates

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

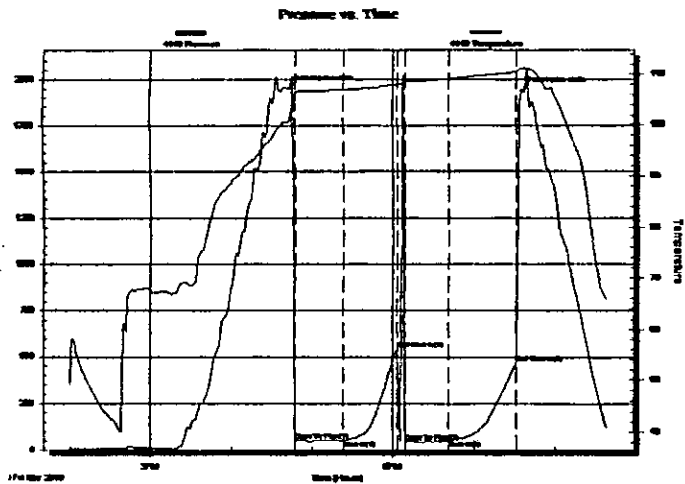
Job Ticket: 16289 DST#: 2
 Test Start: 2010.03.19 @ 14:00:00

GENERAL INFORMATION:

Formation: **LANSING**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:46:30
 Time Test Ended: 21:09:30
 Interval: **4024.00 ft (KB) To 4052.00 ft (KB) (TVD)**
 Total Depth: **4052.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: **DAVID NICHOLS**
 Unit No: **3345**
 Reference Elevations: **2967.00 ft (KB)**
2958.00 ft (CF)
 KB to GR/CF: **9.00 ft**

Serial #: **4143** Outside
 Press@RunDepth: **468.06 psia @ 4049.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2010.03.19** End Date: **2010.03.19** Last Calib.: **2010.03.19**
 Start Time: **14:00:01** End Time: **20:38:10** Time On Btm: **2010.03.19 @ 16:43:10**
 Time Off Btm: **2010.03.19 @ 19:35:10**

TEST COMMENT: 30-INITIAL OPENING SURFACE BLOW DIED AFTER 17 MINS
 45-INITIAL SHUT IN NO BLOW BACK
 30-FINAL OPENING NO BLOW FLUSHED TOOL NO BLOW
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

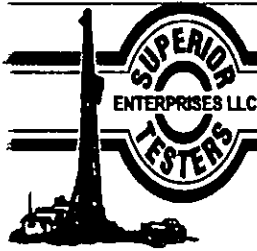
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1949.98	100.67	Initial Hydro-static
4	53.37	106.33	Open To Flow (1)
40	54.33	106.95	Shut-In(1)
81	545.76	107.93	End Shut-In(1)
86	47.03	108.72	Open To Flow (2)
118	52.81	109.07	Shut-In(2)
168	468.06	110.38	End Shut-In(2)
172	1934.94	111.11	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD100#M	0.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

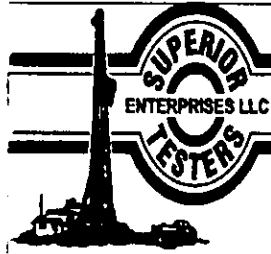
STECKEL UNIT#1
 5-14S-31W-GOVE
 Job Ticket: 16289 DST#: 2
 Test Start: 2010.03.19 @ 14:00:00

Tool Information

Drill Pipe:	Length: 3446.00 ft	Diameter: 3.88 inches	Volume: 50.40 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 560.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 53.15 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4024.00 ft			Final 68000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	28.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4004.00	
Shut-In Tool	5.00			4009.00	
Hydroic Tool	5.00			4014.00	
Packer	5.00			4019.00	21.00 Bottom Of Top Packer
Packer	5.00			4024.00	
Perforations	23.00			4047.00	
Recorder	1.00	8400	Inside	4048.00	
Recorder	1.00	4143	Outside	4049.00	
Bullnose	3.00			4052.00	28.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700

5-14S-31W-GOVE

PO BOX 783188

Job Ticket: 16289

DST#: 2

WICHITA KS 67278

Test Start: 2010.03.19 @ 14:00:00

ATTN: MIKE ENGELBRECHT

Mud and Cushion Information

Mud Type: Gel Chem

Cushion Type:

Oil API:

deg API

Mud Weight: 9.00 lb/gal

Cushion Length:

ft

Water Salinity:

ppm

Viscosity: 56.00 sec/qt

Cushion Volume:

bbl

Water Loss: 7.17 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psia

Salinity: 4400.00 ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD100#M	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl

Num Fluid Samples: 0

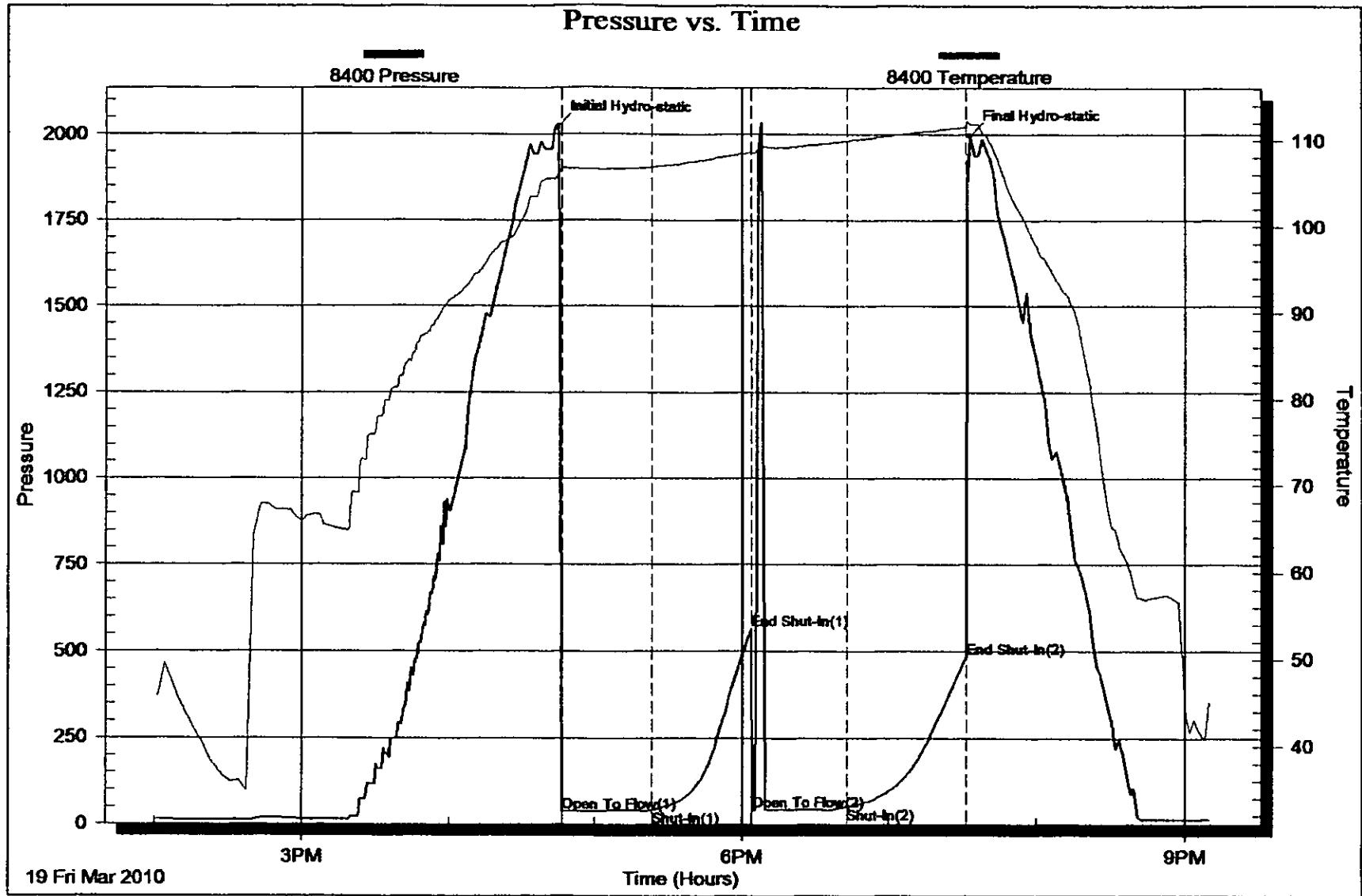
Num Gas Borrb: 0

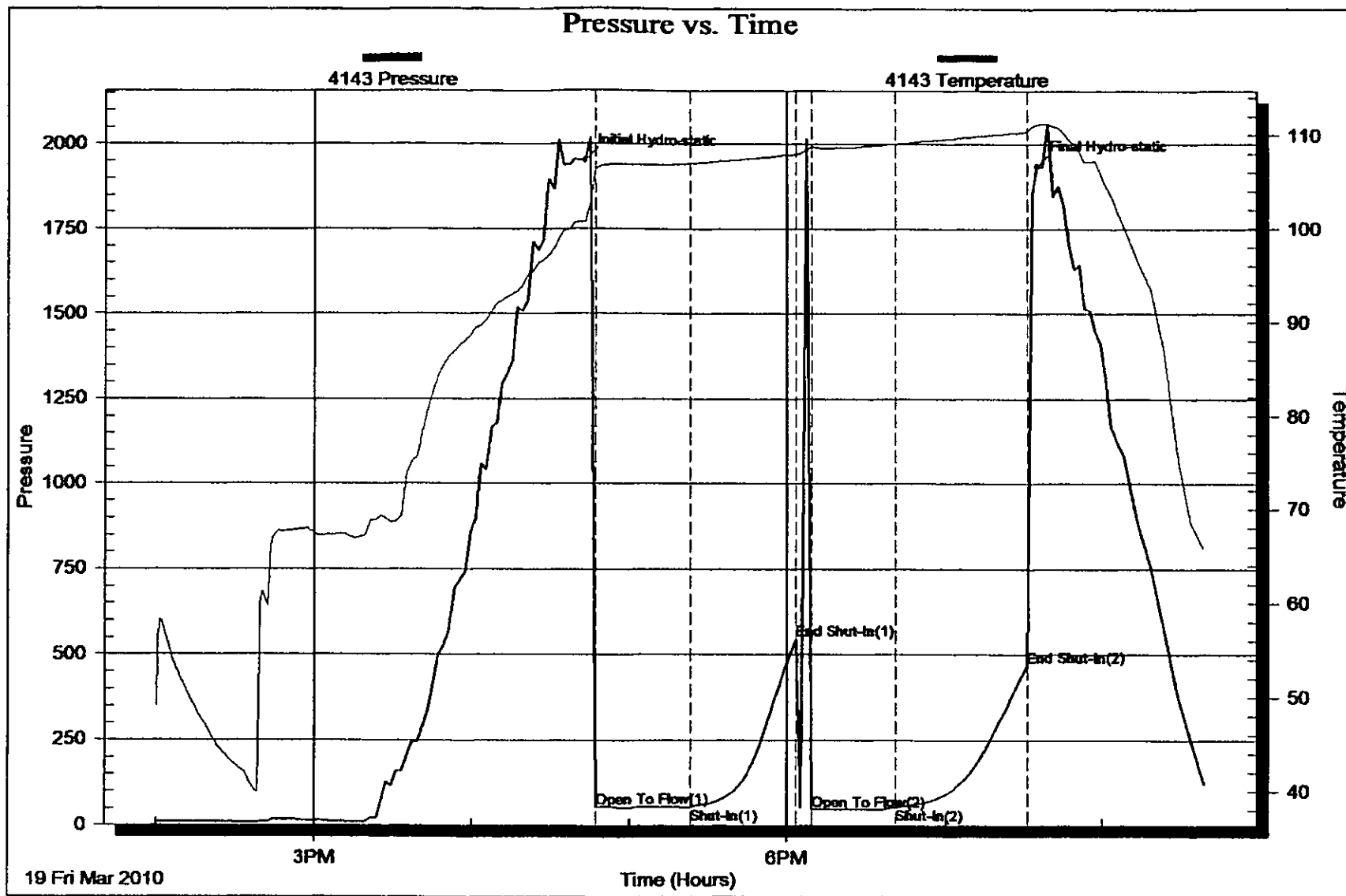
Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278

ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

STECKEL UNIT#1

Start Date: 2010.03.20 @ 06:00:00

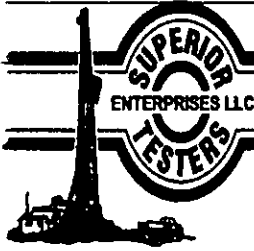
End Date: 2010.03.20 @ 12:46:30

Job Ticket #: 16290 DST #: 3

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

Printed: 2010.03.26 @ 10:04:46

RITCHIE EXPLORATION INC STECKEL UNIT#1 5-14S-31W-GOVE DST # 3 LANSING 2010.03.20



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

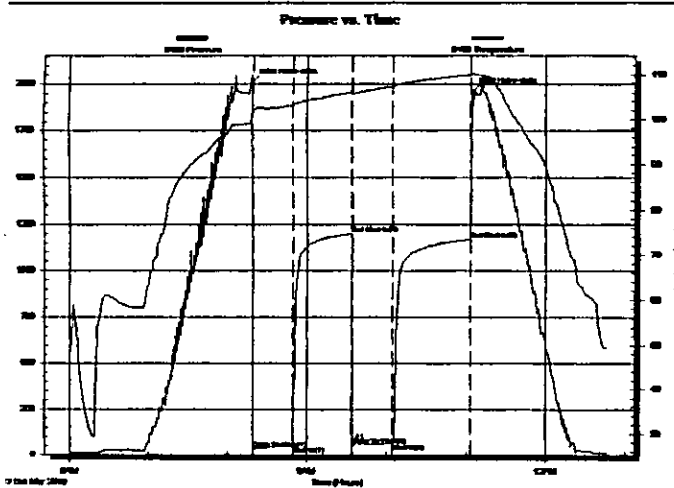
Job Ticket: 16290 DST#: 3
 Test Start: 2010.03.20 @ 06:00:00

GENERAL INFORMATION:

Formation: **LANSING**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 08:19:30
 Time Test Ended: 12:46:30
 Interval: **4074.00 ft (KB) To 4096.00 ft (KB) (TVD)**
 Total Depth: **4096.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: **DAVID NICHOLS**
 Unit No: **3345**
 Reference Elevations: **2967.00 ft (KB)**
2958.00 ft (CF)
 KB to GR/CF: **9.00 ft**

Serial #: **8400** Inside
 Press@RunDepth: **66.85 psia @ 4092.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2010.03.20** End Date: **2010.03.20** Last Calib.: **2010.03.20**
 Start Time: **06:01:00** End Time: **12:46:30** Time On Btm: **2010.03.20 @ 08:18:30**
 Time Off Btm: **2010.03.20 @ 11:04:30**

TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 1/2 INCH THEN DIED OFF TO A SURFACE BLOW
 45-INITIAL SHUT IN NO BLOW BACK
 30-FINAL OPENING WEAK SURFACE BLOW
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

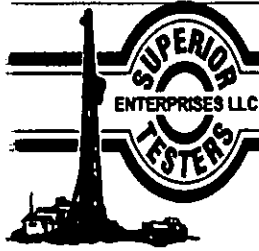
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2010.97	101.46	Initial Hydro-static
1	34.88	101.53	Open To Flow (1)
31	50.77	103.17	Shut-In(1)
75	1198.78	106.08	End Shut-In(1)
76	53.35	105.81	Open To Flow (2)
106	66.85	107.34	Shut-In(2)
166	1168.97	109.95	End Shut-In(2)
166	1961.40	110.16	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	MUD 100%M	0.12

Gas Rates

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

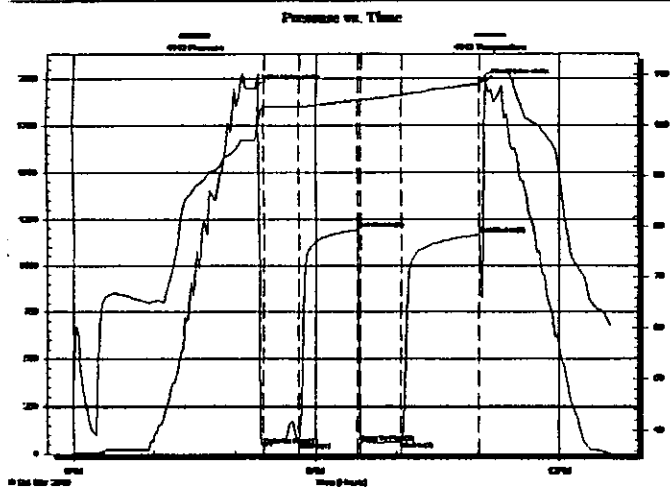
STECKEL UNIT#1
 5-14S-31W-GOVE
 Job Ticket: 16290 DST#: 3
 Test Start: 2010.03.20 @ 06:00:00

GENERAL INFORMATION:

Formation: **LANSING**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 08:19:30 Tester: DAVID NICHOLS
 Time Test Ended: 12:46:30 Unit No: 3345
 Interval: 4074.00 ft (KB) To 4096.00 ft (KB) (TVD) Reference Elevations: 2967.00 ft (KB)
 Total Depth: 4096.00 ft (KB) (TVD) 2958.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 4143 Outside
 Press@RunDepth: 1163.50 psia @ 4093.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.03.20 End Date: 2010.03.20 Last Calib.: 2010.03.20
 Start Time: 06:00:01 End Time: 12:38:10 Time On Btm: 2010.03.20 @ 08:15:10
 Time Off Btm: 2010.03.20 @ 11:05:09

TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 1/2 INCH THEN DIED OFF TO A SURFACE BLOW
 45-INITIAL SHUT IN NO BLOW BACK
 30-FINAL OPENING WEAK SURFACE BLOW
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

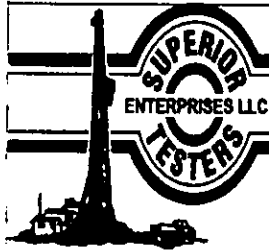
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1946.54	97.23	Initial Hydro-static
6	44.73	103.64	Open To Flow (1)
32	64.15	103.81	Shut-in(1)
76	1193.29	104.99	End Shut-in(1)
78	58.14	105.05	Open To Flow (2)
108	67.64	106.07	Shut-in(2)
166	1163.50	108.21	End Shut-in(2)
170	1978.41	109.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
25.00	MUD 100%M	0.12

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700

5-14S-31W-GOVE

PO BOX 783188

Job Ticket: 16290

DST#: 3

WICHITA KS 67278

Test Start: 2010.03.20 @ 06:00:00

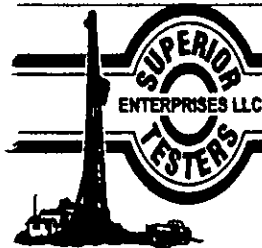
ATTN: MIKE ENGELBRECHT

Tool Information

Drill Pipe:	Length: 3496.00 ft	Diameter: 3.88 inches	Volume: 51.13 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 560.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 53.88 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4074.00 ft			Final 67000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	22.00 ft			
Tool Length:	43.00 ft			
Number of Packers:	2	Diameter: 675.00 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4054.00	
Shut-in Tool	5.00			4059.00	
Hydroic Tool	5.00			4064.00	
Packer	5.00			4069.00	21.00 Bottom Of Top Packer
Packer	5.00			4074.00	
Perforations	17.00			4091.00	
Recorder	1.00	8400	Inside	4092.00	
Recorder	1.00	4143	Outside	4093.00	
Bullnose	3.00			4096.00	22.00 Bottom Packers & Anchor
Total Tool Length:	43.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278
ATTN: MIKE ENGELBRECHT

STECKEL UNIT#1
5-14S-31W-GOVE
Job Ticket: 16290 DST#: 3
Test Start: 2010.03.20 @ 06:00:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.77 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4000.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

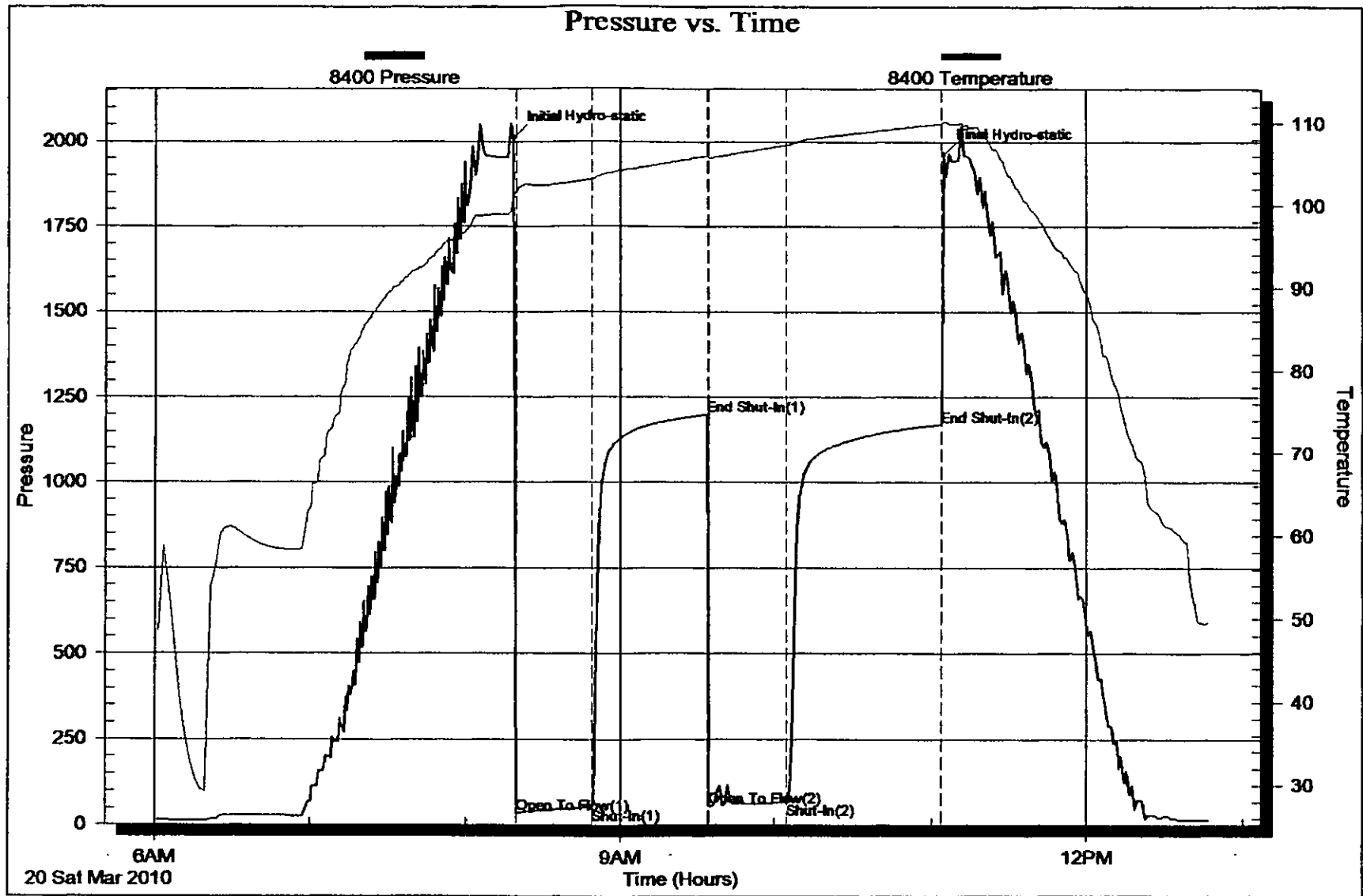
Length ft	Description	Volume bbl
25.00	MUD 100%M	0.123

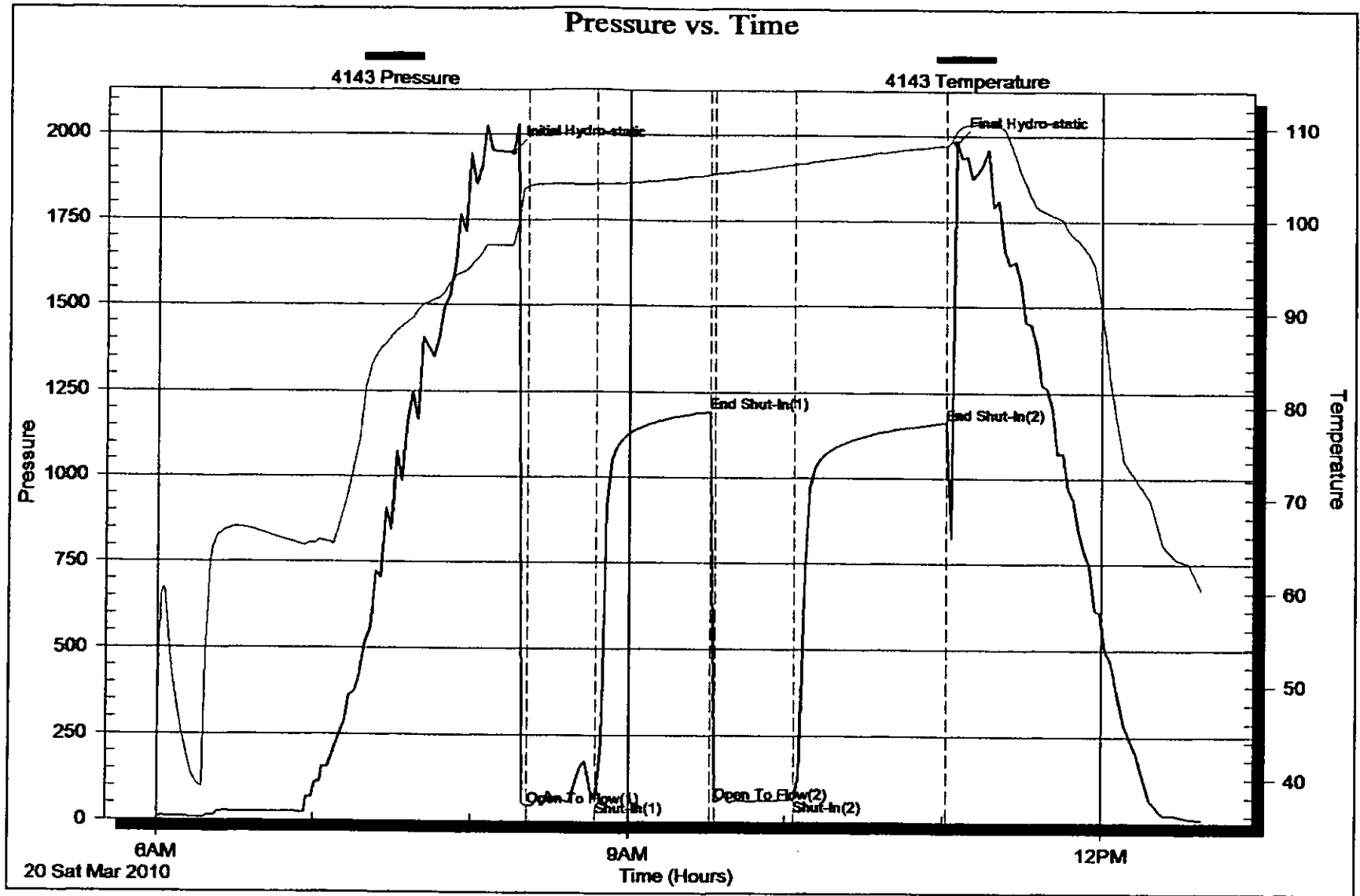
Total Length: 25.00 ft Total Volume: 0.123 bbl

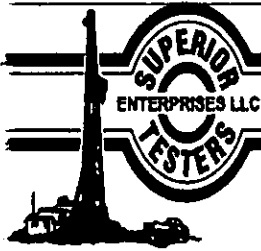
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

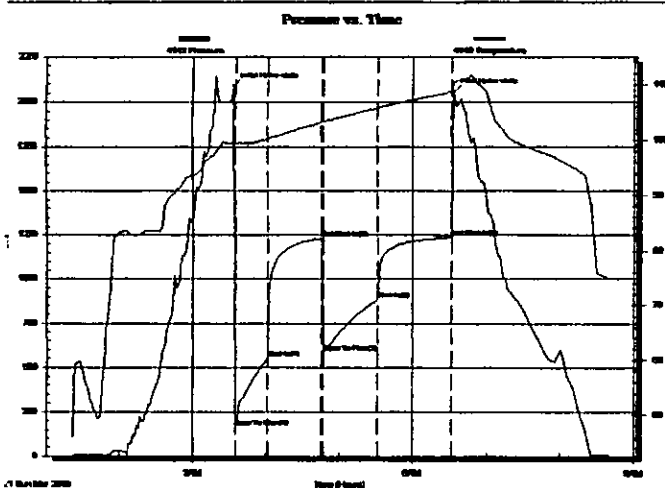
5-14S-31W-GOVE
 Job Ticket: 16291 DST#: 4
 Test Start: 2010.03.21 @ 01:22:00

GENERAL INFORMATION:

Formation: **LANSING**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 03:35:00
 Time Test Ended: 09:13:30
 Interval: **4159.00 ft (KB) To 4186.00 ft (KB) (TVD)**
 Total Depth: **4186.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: **DAVID NICHOLS**
 Unit No: **3345**
 Reference Elevations: **2967.00 ft (KB)**
2958.00 ft (CF)
 KB to GR/CF: **9.00 ft**

Serial #: **4143** Outside
 Press@RunDepth: **1234.44 psia @ 4183.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2010.03.21** End Date: **2010.03.21** Last Calib.: **2010.03.21**
 Start Time: **01:22:01** End Time: **08:40:10** Time On Btrrc: **2010.03.21 @ 03:33:09**
 Time Off Btrrc: **2010.03.21 @ 06:33:10**

TEST COMMENT: 30-INITIAL OPENING GOOD BLOW BOTTOM OF THE BUCKET IN 3 MINS
 45-INITIAL SHUT IN NO BLOW BACK
 45-FINAL OPENING GOOD BLOW BOTTOM OF THE BUCKET IN 3 MINS
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

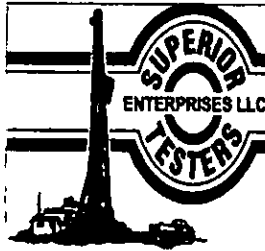
Time (Mn.)	Pressure (psia)	Temp (deg F)	Annotation
0	2088.13	99.49	Initial Hydro-static
3	165.45	99.46	Open To Flow (1)
29	550.23	100.24	Shut-in(1)
73	1229.87	103.26	End Shut-in(1)
75	585.45	103.39	Open To Flow (2)
119	884.93	105.81	Shut-in(2)
179	1234.44	108.59	End Shut-in(2)
181	2052.77	110.25	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
275.00	MUD CUT GASSY WATER 5%G25%M75	1.35
1630.00	WATER 100%W	21.07
95.00	MUD CUT GASSY WATER 5%G20%M75	1.39

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHEE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

Job Ticket: 16291

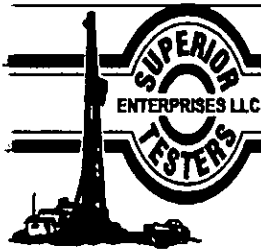
DST#: 4

Test Start: 2010.03.21 @ 01:22:00

Tool Information

Drill Pipe:	Length: 3581.00 ft	Diameter: 3.88 inches	Volume: 52.37 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 560.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 85000.00 lb
			Total Volume: 55.12 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 67000.00 lb
Depth to Top Packer:	4159.00 ft			Final 72000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments:				

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4139.00	
Shut-in Tool	5.00			4144.00	
Hydroic Tool	5.00			4149.00	
Packer	5.00			4154.00	21.00 Bottom Of Top Packer
Packer	5.00			4159.00	
Perforations	22.00			4181.00	
Recorder	1.00	8400	Inside	4182.00	
Recorder	1.00	4143	Outside	4183.00	
Bullnose	3.00			4186.00	27.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700

5-14S-31W-GOVE

PO BOX 783188

Job Ticket: 16291

DST#: 4

WICHITA KS 67278

ATTN: MIKE ENGELBRECHT

Test Start: 2010.03.21 @ 01:22:00

Mud and Cushion Information

Mud Type: Gel Chem
 Mud Weight: 9.00 lb/gal
 Viscosity: 55.00 sec/qt
 Water Loss: 6.78 in³
 Resistivity: ohm.m
 Salinity: 4000.00 ppm
 Filter Cake: 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

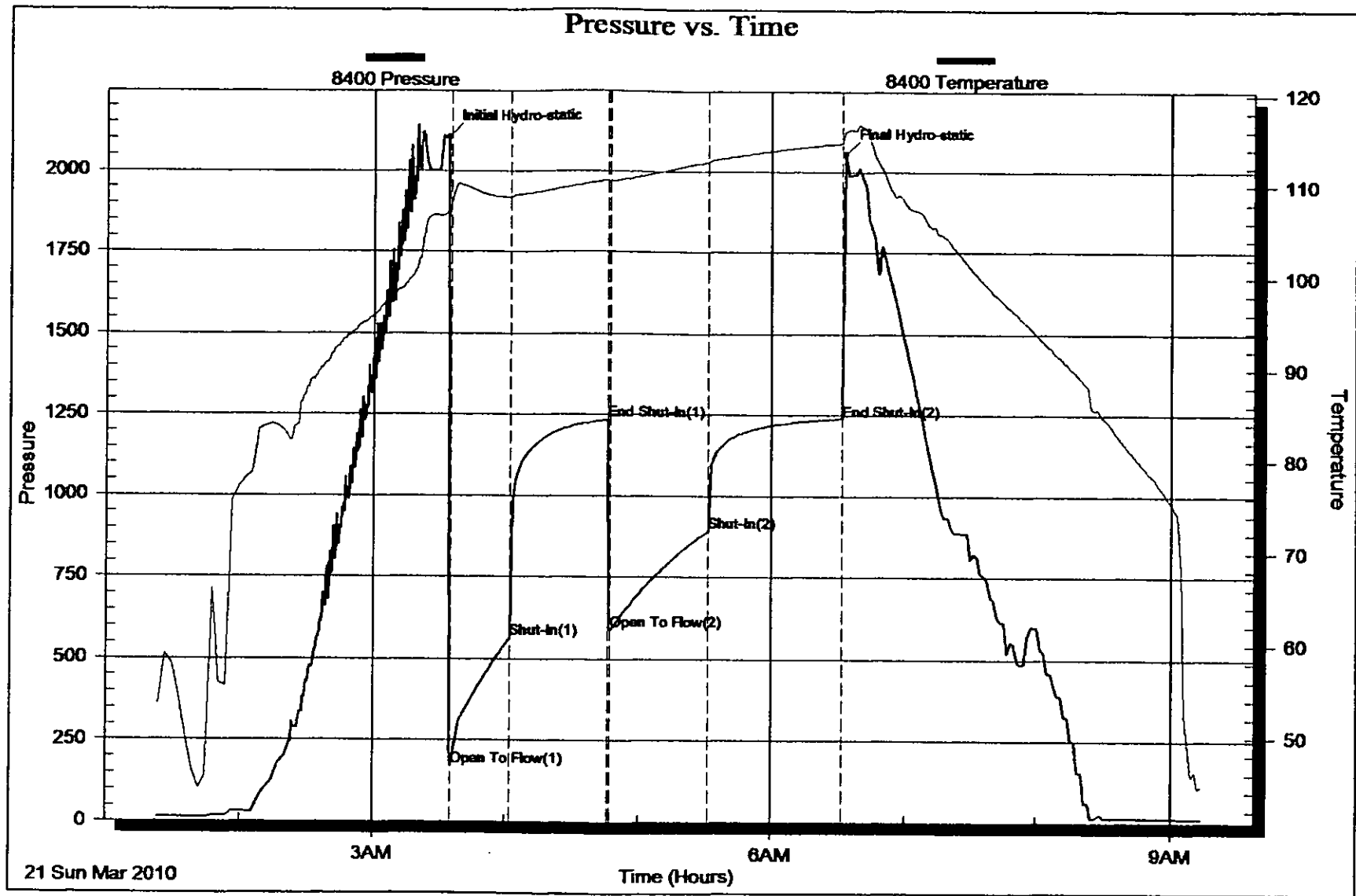
Length ft	Description	Volume bbl
275.00	MUD CUT GASSY WATER 5%G25%M75%W	1.352
1630.00	WATER 100%W	21.071
95.00	MUD CUT GASSY WATER 5%G20%M75%W	1.389

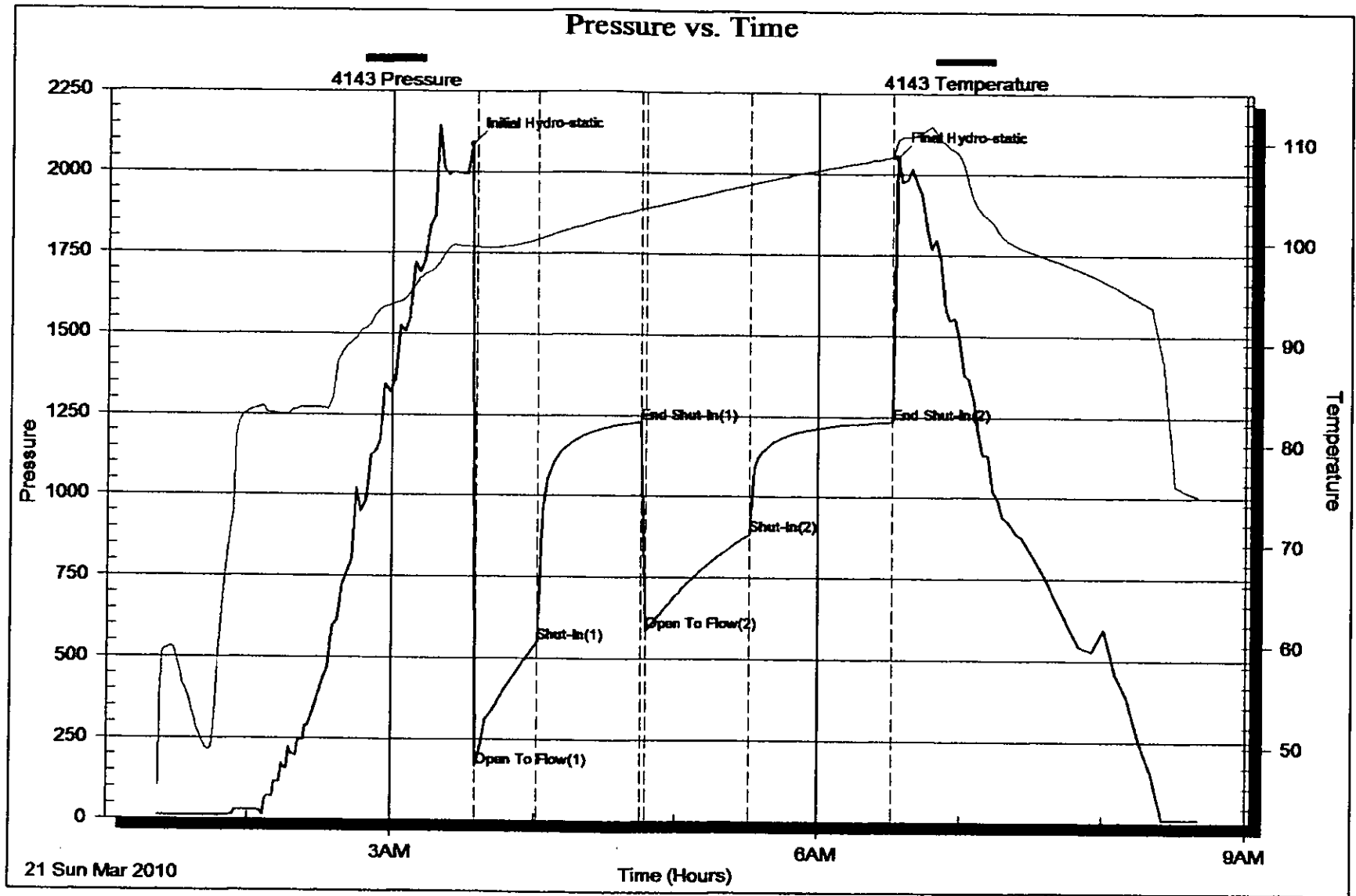
Total Length: 2000.00 ft Total Volume: 23.812 bbl

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
PO BOX 783188
WICHITA KS 67278

ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

• **STECKEL UNIT#1**

Start Date: 2010.03.22 @ 17:00:00

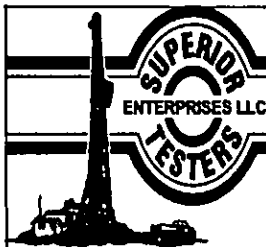
End Date: 2010.03.22 @ 23:46:30

Job Ticket #: 16292 DST #: 5

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

Printed: 2010.03.26 @ 10:04:18

RITCHIE EXPLORATION INC STECKEL UNIT#1 5-14S-31W-GOVE DST # 5 LANSING 2010.03.22



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700

5-14S-31W-GOVE

PO BOX 783188

Job Ticket: 16292

DST#: 5

WICHITA KS 67278

Test Start: 2010.03.22 @ 17:00:00

ATTN: MIKE ENGELBRECHT

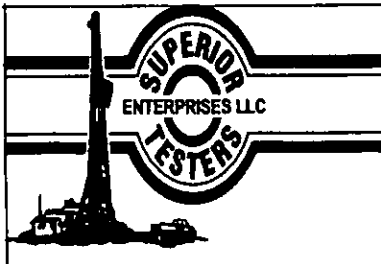
Tool Information

Drill Pipe:	Length: 3641.00 ft	Diameter: 3.88 inches	Volume: 53.25 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 560.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 56.00 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4219.00 ft			Final 69000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	31.00 ft			
Tool Length:	52.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4199.00	
Shut-In Tool	5.00			4204.00	
Hydroic Tool	5.00			4209.00	
Packer	5.00			4214.00	21.00 Bottom Of Top Packer
Packer	5.00			4219.00	
Perforations	26.00			4245.00	
Recorder	1.00	8400	Inside	4246.00	
Recorder	1.00	4143	Outside	4247.00	
Bullnose	3.00			4250.00	31.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278
ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

Job Ticket: 16292

DST#: 5

Test Start: 2010.03.22 @ 17:00:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 35 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl	
Water Loss: 9.57 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psia	
Salinity: 3500.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	CLEAN OIL 100%O	0.197
190.00	OIL CUT MUD 10%O90%M	0.934
285.00	MUD CUT WATER TRACE OIL 20%M80%W	1.402

Total Length: 515.00 ft Total Volume: 2.533 bbl

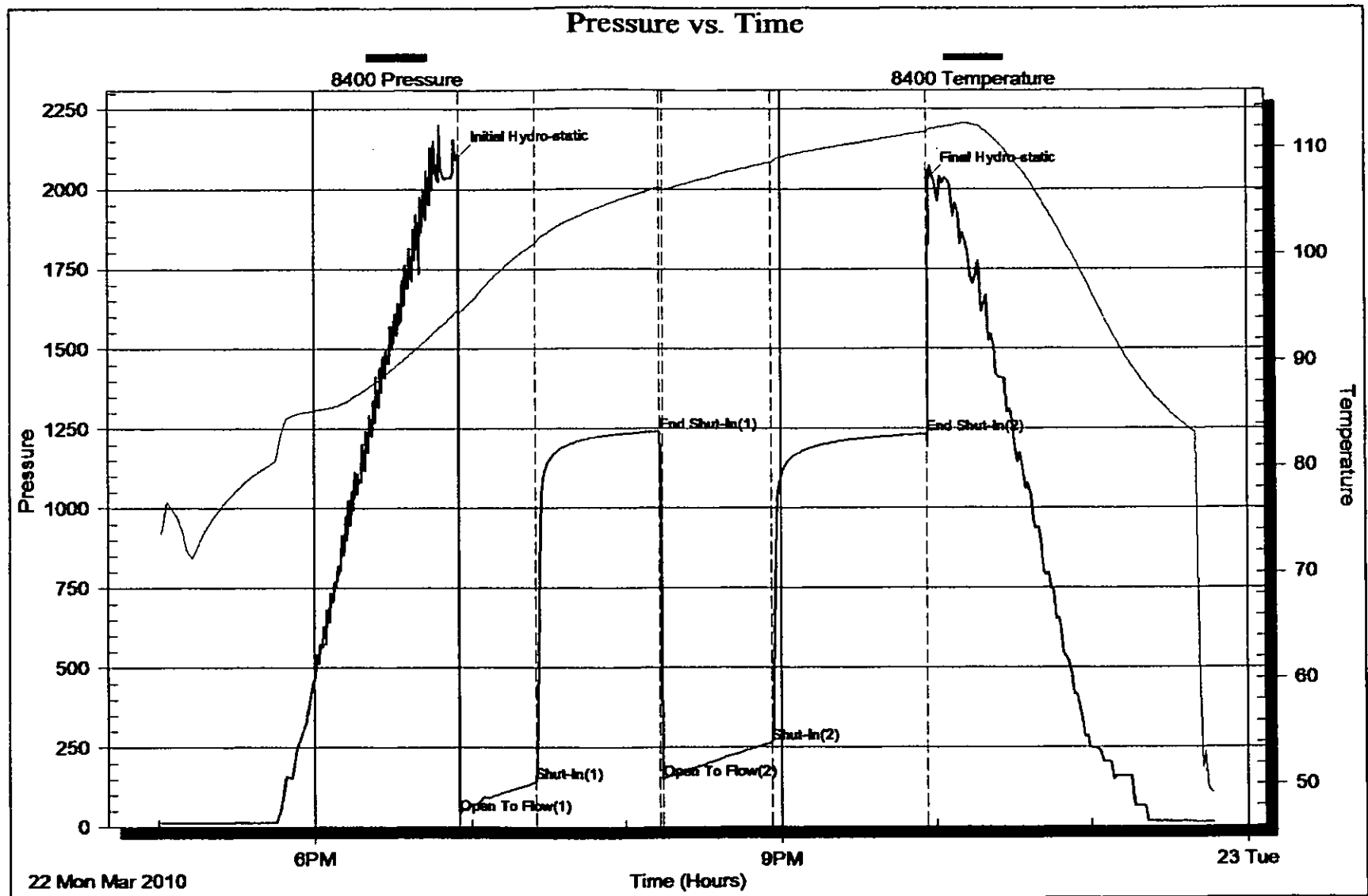
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

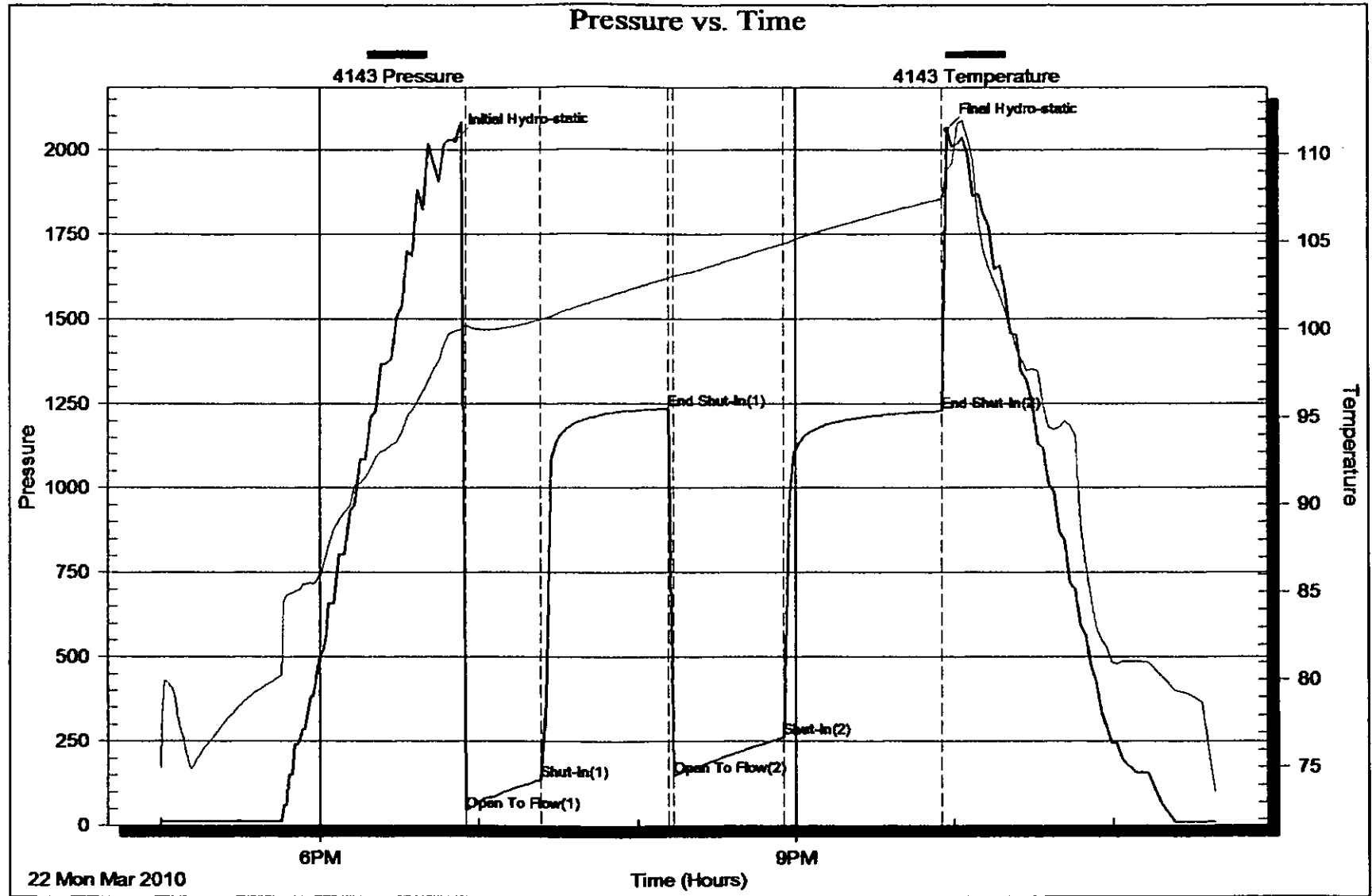
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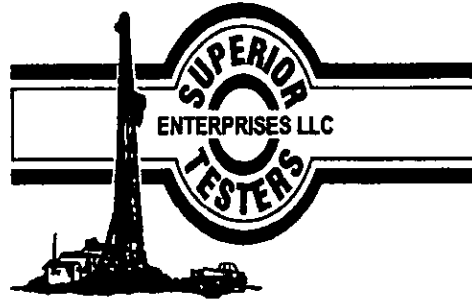
Inside RITCHE EXPLORATION INC

5-14S-31W-GOVE

DST Test Number: 5







DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278

ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

STECKEL UNIT#1

Start Date: 2010.03.22 @ 11:00:00

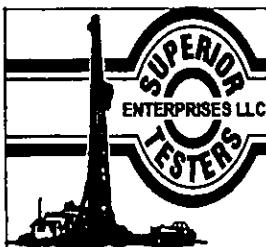
End Date: 2010.03.22 @ 17:31:00

Job Ticket #: 16293 DST #: 6

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

Printed: 2010.03.26 @ 10:02:21

RITCHIE EXPLORATION INC STECKEL UNIT#1 5-14S-31W-GOVE DST # 6 LANSING 2010.03.22



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

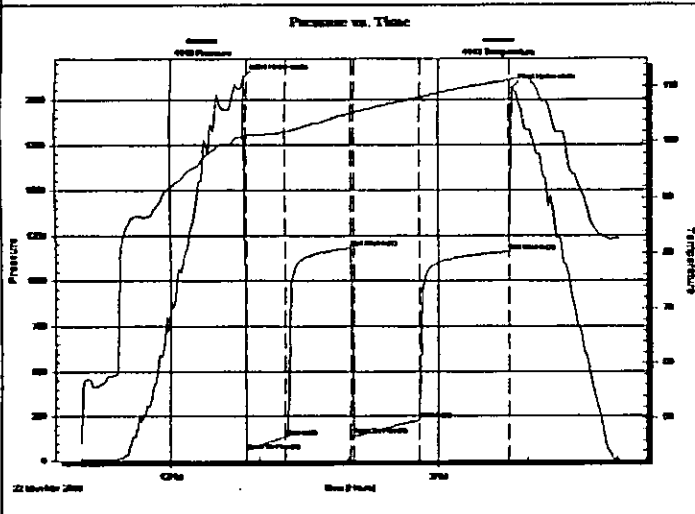
5-14S-31W-GOVE
 Job Ticket: 16293 DST#: 6
 Test Start: 2010.03.22 @ 11:00:00

GENERAL INFORMATION:

Formation: **LANSING**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 12:50:30 Tester: DAVID NICHOLS
 Time Test Ended: 17:31:00 Unit No: 3345 74 M SCOTT CITY
 Interval: 4248.00 ft (KB) To 4315.00 ft (KB) (TVD) Reference Elevations: 2967.00 ft (KB)
 Total Depth: 4315.00 ft (KB) (TVD) 2958.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 4143 Outside
 Press@RunDepth: 1160.61 psia @ 4312.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.03.22 End Date: 2010.03.22 Last Calib.: 2010.03.22
 Start Time: 11:00:01 End Time: 17:01:10 Time On Btm: 2010.03.22 @ 12:49:10
 Time Off Btm: 2010.03.22 @ 15:49:10

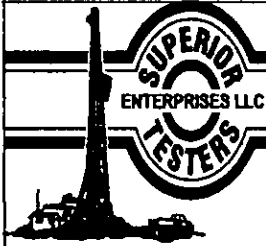
TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 6 INCHES INTO WATER
 45-INITIAL SHUT IN NO BLOW BACK
 45-FINAL OPENING SURFACE BLOW
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2122.54	101.00	Initial Hydro-static
2	56.95	101.14	Open To Flow (1)
28	134.21	101.91	Shut-In(1)
72	1180.93	105.25	End Shut-In(1)
74	146.21	105.21	Open To Flow (2)
118	228.37	108.10	Shut-In(2)
178	1160.61	111.14	End Shut-In(2)
180	2062.64	111.31	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
110.00	MUD 100%M	0.54
95.00	WATER CUT MUD 60%M40%W	0.47
190.00	MUD CUT WATER TRACE OF OIL 30%M70.93%	

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700

5-14S-31W-GOVE

PO BOX 783188

Job Ticket: 16293

DST#: 6

WICHITA KS 67278

Test Start: 2010.03.22 @ 11:00:00

ATTN: MIKE ENGELBRECHT

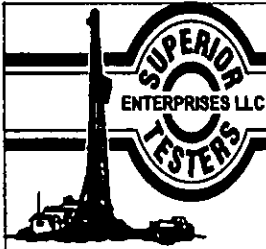
Tool Information

Drill Pipe:	Length: 3670.00 ft	Diameter: 3.88 inches	Volume: 53.67 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 560.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 86000.00 lb
			<u>Total Volume: 56.42 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 71000.00 lb
Depth to Top Packer:	4248.00 ft			Final 71000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	67.00 ft			
Tool Length:	88.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4228.00	
Shut-In Tool	5.00			4233.00	
Hydroic Tool	5.00			4238.00	
Packer	5.00			4243.00	21.00 Bottom Of Top Packer
Packer	5.00			4248.00	
Change Over Sub	0.75			4248.75	
Drill Pipe	31.50			4280.25	
Change Over Sub	0.75			4281.00	
Perforations	29.00			4310.00	
Recorder	1.00	8400	Inside	4311.00	
Recorder	1.00	4143	Outside	4312.00	
Bullnose	3.00			4315.00	67.00 Bottom Packers & Anchor

Total Tool Length: 88.00



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278
ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

Job Ticket: 16293

DST#: 8

Test Start: 2010.03.22 @ 11:00:00

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:	bbbl		
Water Loss:	9.57 in ³	Gas Cushion Type:			
Resistivity:	ohm.m	Gas Cushion Pressure:	psia		
Salinity:	3500.00 ppm				
Filter Cake:	inches				

Recovery Information

Recovery Table

Length ft	Description	Volume bbbl
110.00	MUD 100%M	0.541
95.00	WATER CUT MUD 60%M40%W	0.467
190.00	MUD CUT WATER TRACE OF OIL 30%M70%V	0.934

Total Length: 395.00 ft Total Volume: 1.942 bbl

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

Laboratory Name: Laboratory Location:

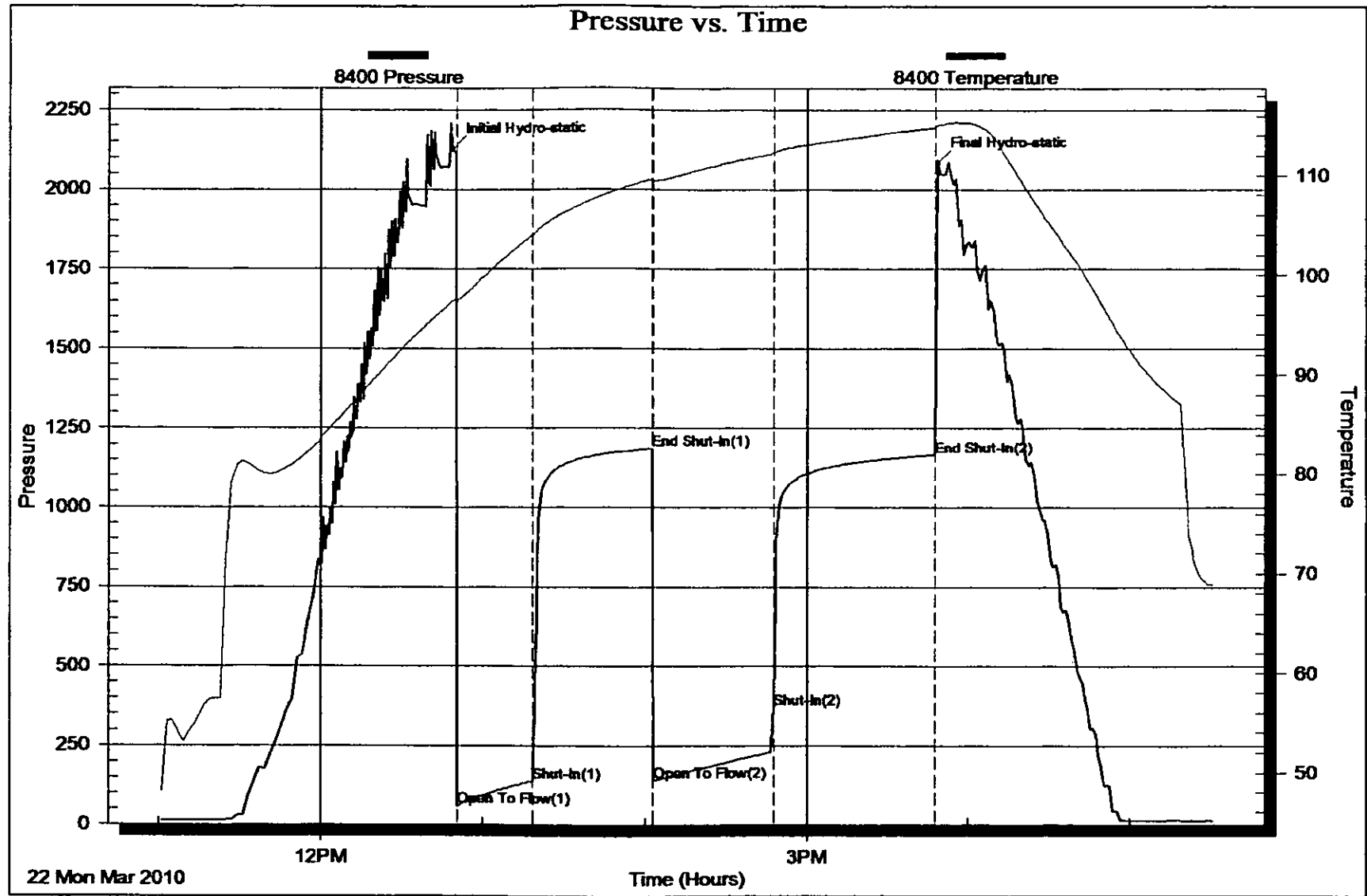
Recovery Comments: CHLORIDES OF WATER 43,000 RW.1@80

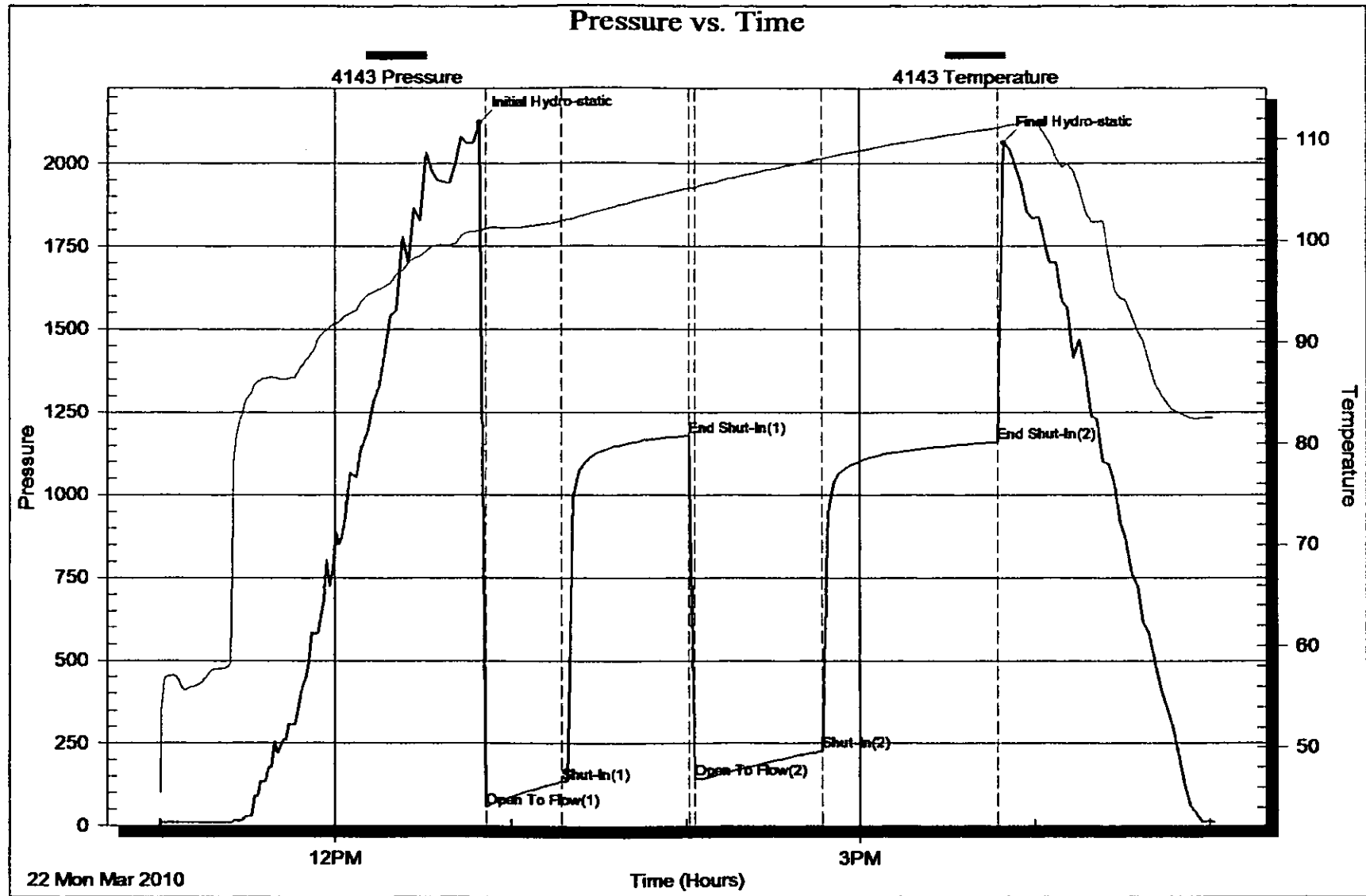
Serial #: 8400

Inside RITCHE EXPLORATION INC

5-14S-31W-GOVE

DST Test Number: 6







DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278

ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

STECKEL UNIT#1

Start Date: 2010.03.24 @ 18:00:00

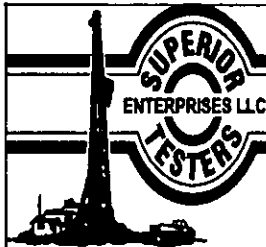
End Date: 2010.03.25 @ 00:16:30

Job Ticket #: 16294 DST #: 7

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

Printed: 2010.03.26 @ 10:02:04

RITCHIE EXPLORATION INC STECKEL UNIT#1 5-14S-31W-GOVE DST # 7 CK LMS 2010.03.24



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700

5-14S-31W-GOVE

PO BOX 783188

Job Ticket: 16294

DST#: 7

WICHITA KS 67278

ATTN: MIKE ENGELBRECHT

Test Start: 2010.03.24 @ 18:00:00

GENERAL INFORMATION:

Formation: CK LMS

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:01:00

Time Test Ended: 00:16:30

Test Type: Conventional Bottom Hole (Initial)

Tester: DAVID NICHOLS

Unit No: 3345 74 M SCOTT CITY

Interval: 4525.00 ft (KB) To 4550.00 ft (KB) (TVD)

Reference Elevations: 2967.00 ft (KB)

Total Depth: 4550.00 ft (KB) (TVD)

2958.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 8400

Inside

Press@RunDepth: 159.54 psia @ 4546.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.03.24

End Date:

2010.03.25

Last Calib.: 2010.03.24

Start Time: 18:01:00

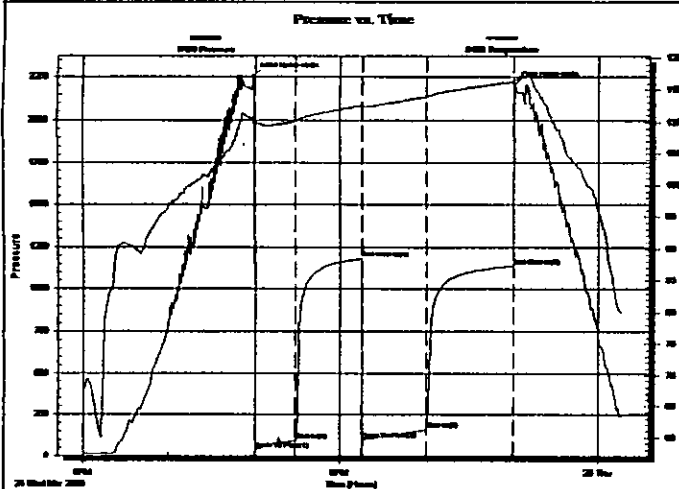
End Time:

00:16:30

Time On Btm: 2010.03.24 @ 19:59:30

Time Off Btm: 2010.03.24 @ 23:01:30

TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 4 1/2 INCHES INTO WATER
 45-INITIAL SHUT IN NO BLOW BACK
 45-FINAL OPENING WEAK BLOW BUILT TO 2 INCHES INTO WATER
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

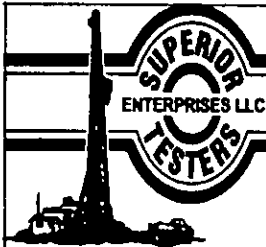
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2258.19	110.74	Initial Hydro-static
2	37.21	109.66	Open To Flow (1)
30	93.51	110.13	Shut-In(1)
76	1179.81	112.55	End Shut-In(1)
77	98.07	112.29	Open To Flow (2)
121	159.54	113.91	Shut-In(2)
181	1137.88	116.26	End Shut-In(2)
182	2208.92	116.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
95.00	WATER CUT MUD TRACE OF OIL 70%N	30.47
190.00	MUD CUT WATER TRACE OF OIL 40%N	60.93

Gas Rates

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

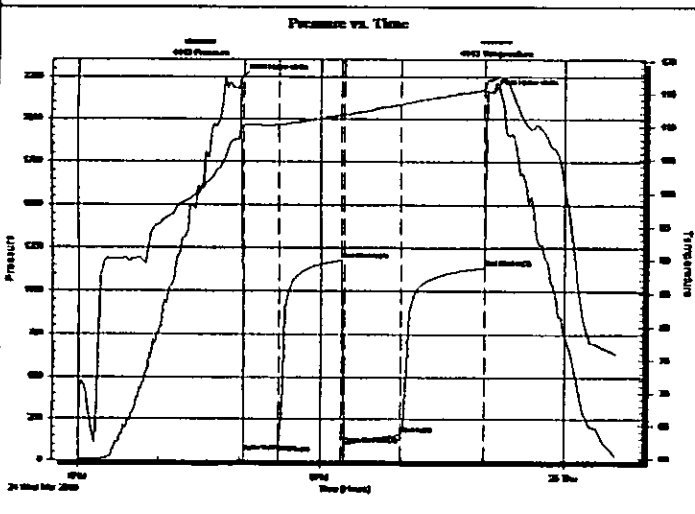
STECKEL UNIT#1
 5-14S-31W-GOVE
 Job Ticket: 16294 DST#: 7
 Test Start: 2010.03.24 @ 18:00:00

GENERAL INFORMATION:

Formation: CK LMS
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 20:01:00
 Time Test Ended: 00:16:30
 Interval: 4525.00 ft (KB) To 4550.00 ft (KB) (TVD)
 Total Depth: 4550.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: DAVID NICHOLS
 Unit No: 3345 74 M SCOTT CITY
 Reference Elevations: 2967.00 ft (KB)
 2958.00 ft (CF)
 KB to GR/CF: 9.00 ft

Serial #: 4143 Outside
 Press@RunDepth: 1135.14 psia @ 4547.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.03.24 End Date: 2010.03.25 Last Calib.: 2010.03.24
 Start Time: 18:00:01 End Time: 00:38:10 Time On Btm: 2010.03.24 @ 20:01:09
 Time Off Btm: 2010.03.24 @ 23:07:10

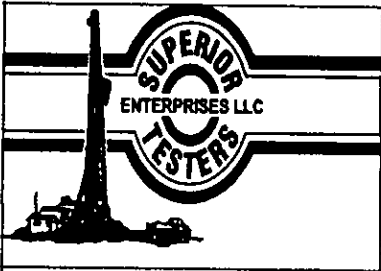
TEST COMMENT: 30-INITIAL OPENING WEAK BLOW BUILT TO 4 1/2 INCHES INTO WATER
 45-INITIAL SHUT IN NO BLOW BACK
 45-FINAL OPENING WEAK BLOW BUILT TO 2 INCHES INTO WATER
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2245.09	109.66	Initial Hydro-static
3	48.88	110.21	Open To Flow (1)
29	93.63	110.26	Shut-in(1)
75	1176.19	111.78	End Shut-in(1)
77	99.36	111.85	Open To Flow (2)
119	157.94	113.36	Shut-in(2)
181	1135.14	115.60	End Shut-in(2)
187	2157.10	117.13	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
95.00	WATER CUT MUD TRACE OF OIL 70%	30.47
190.00	MUD CUT WATER TRACE OF OIL 40%	60.93

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE
 Job Ticket: 16294 DST#: 7
 Test Start: 2010.03.24 @ 18:00:00

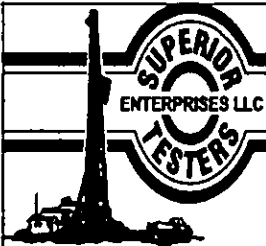
Tool Information

Drill Pipe:	Length: 3947.00 ft	Diameter: 3.88 inches	Volume: 57.72 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 560.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 85000.00 lb
			<u>Total Volume: 60.47 bbl</u>	Tool Chased: 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 65000.00 lb
Depth to Top Packer:	4525.00 ft			Final 65000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4505.00	
Shut-In Tool	5.00			4510.00	
Hydroic Tool	5.00			4515.00	
Packer	5.00			4520.00	21.00 Bottom Of Top Packer
Packer	5.00			4525.00	
Perforations	20.00			4545.00	
Recorder	1.00	8400	Inside	4546.00	
Recorder	1.00	4143	Outside	4547.00	
Bullnose	3.00			4550.00	25.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278
ATTN: MIKE ENGELBRECHT

STECKEL UNIT#1
5-14S-31W-GOVE
Job Ticket: 16294 DST#: 7
Test Start: 2010.03.24 @ 18:00:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
95.00	WATER CUT MUD TRACE OF OIL 70%M30%V	0.467
190.00	MUD CUT WATER TRACE OF OIL 40%M60%V	0.934

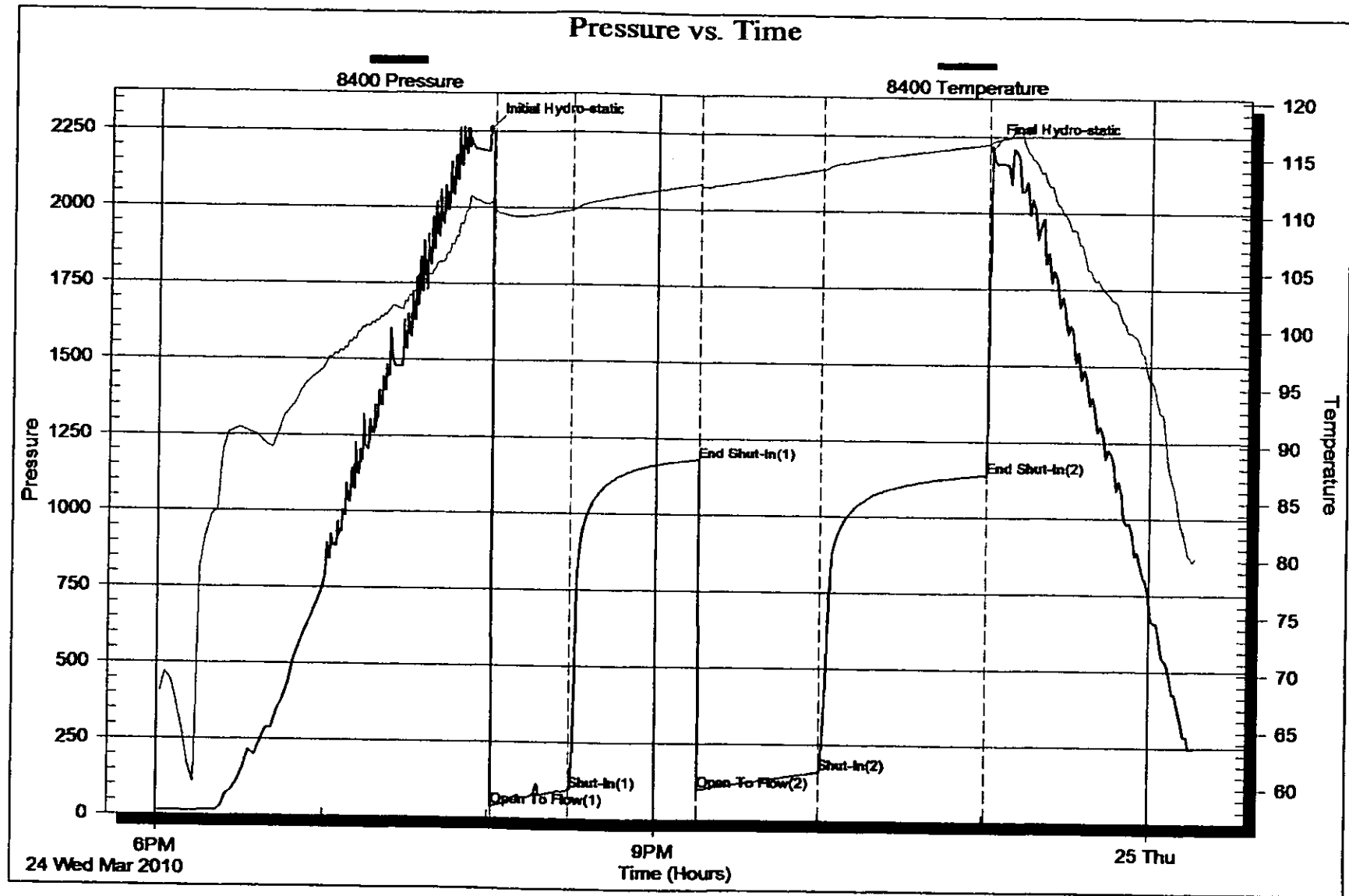
Total Length: 285.00 ft Total Volume: 1.401 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: CHLORIDES 41,000 RW.1@70

Serial #: 8400

Inside RITCHIE EXPLORATION INC

5-14S-31W-GOVE

DST Test Number: 7

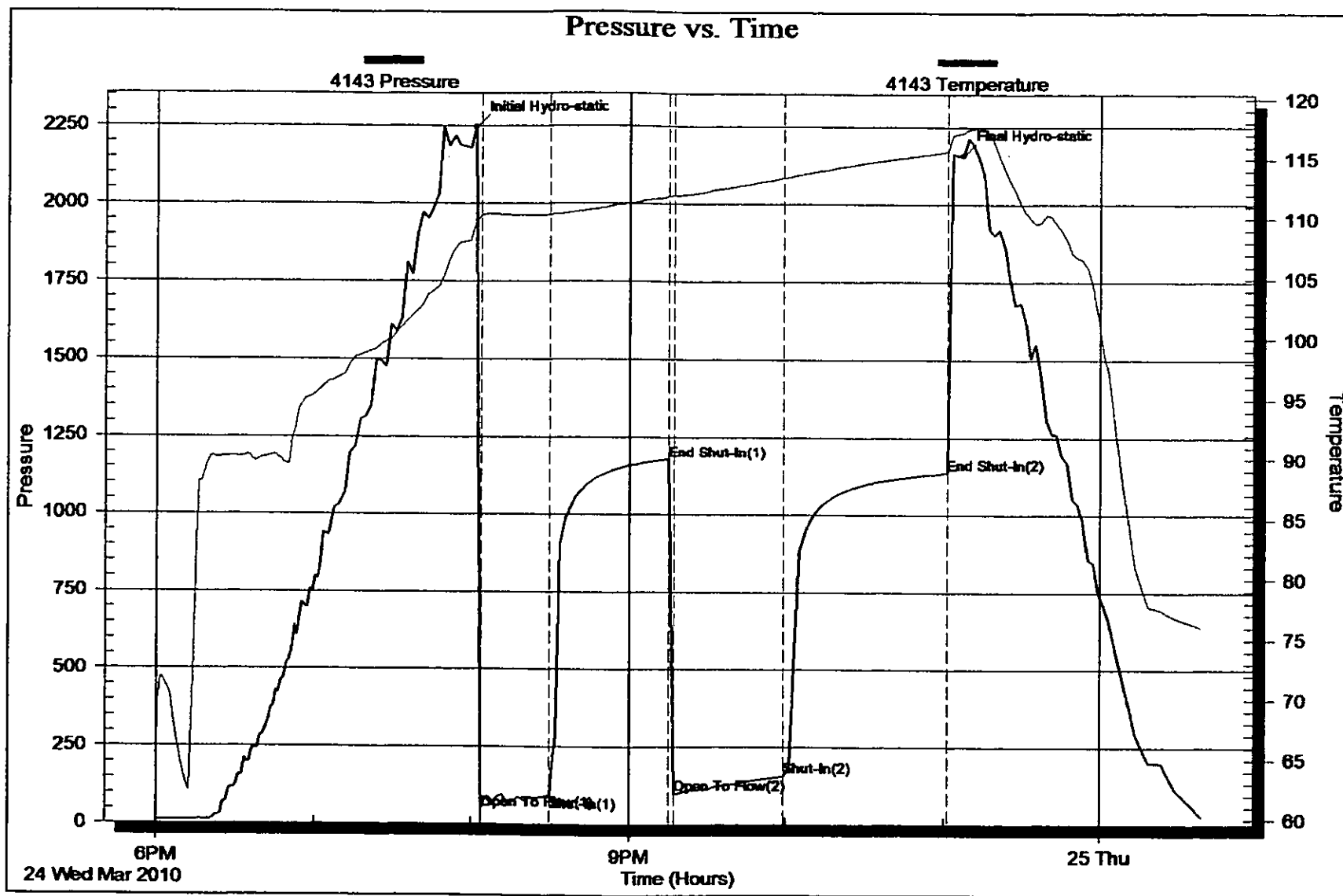


Serial #: 4143

Outside RITCHEX EXPLORATION INC

5-14S-31W-GOVE

DST Test Number: 7





DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278

ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

STECKEL UNIT#1

Start Date: 2010.03.24 @ 09:00:00

End Date: 2010.03.24 @ 19:30:30

Job Ticket #: 16295 DST #: 8

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

Printed: 2010.03.26 @ 10:01:52

RITCHIE EXPLORATION INC

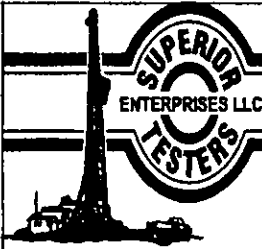
STECKEL UNIT#1

5-14S-31W-GOVE

DST # 8

JOHNSON

2010.03.24



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

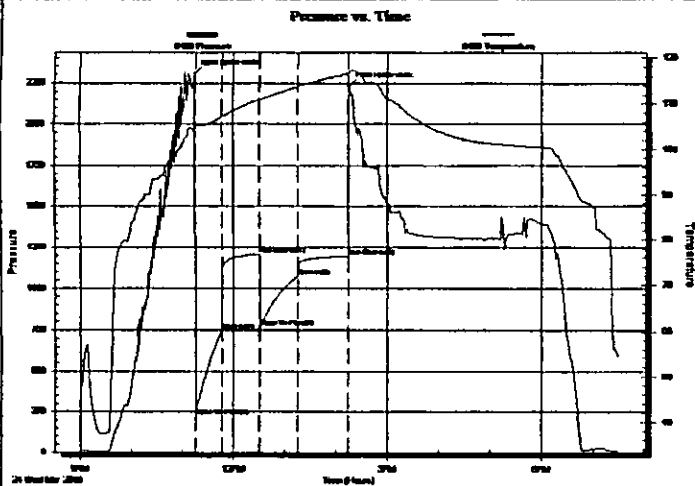
STECKEL UNIT#1
 5-14S-31W-GOVE
 Job Ticket: 16295 DST#: 8
 Test Start: 2010.03.24 @ 09:00:00

GENERAL INFORMATION:

Formation: **JOHNSON**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 11:15:00 Tester: DAVID NICHOLS
 Time Test Ended: 19:30:30 Unit No: 3345 74 M SCOTT CITY
 Interval: 4559.00 ft (KB) To 4579.00 ft (KB) (TVD) Reference Elevations: 2967.00 ft (KB)
 Total Depth: 4579.00 ft (KB) (TVD) 2958.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 8400 Inside
 Press@RunDepth: 1072.89 psia @ 4575.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.03.24 End Date: 2010.03.24 Last Calib.: 2010.03.24
 Start Time: 09:01:00 End Time: 19:30:30 Time On Btm: 2010.03.24 @ 11:14:30
 Time Off Btm: 2010.03.24 @ 14:16:00

TEST COMMENT: 30-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 1 MIN
 45-INITIAL SHUT IN STRONG BLOW BACK BOTTOM IN 13 MINS
 45-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 2 MINS
 60-FINAL SHUT IN STRONG BLOW BACK BOTTOM BUCKET IN 12 MINS



PRESSURE SUMMARY

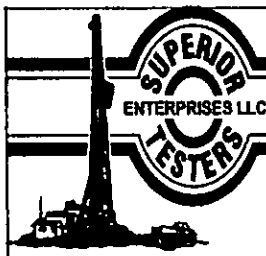
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2308.80	104.33	Initial Hydro-static
1	223.66	104.33	Open To Flow (1)
32	748.10	106.96	Shut-in(1)
76	1207.07	110.89	End Shut-in(1)
77	765.42	110.86	Open To Flow (2)
121	1072.89	113.74	Shut-in(2)
180	1194.84	116.52	End Shut-in(2)
182	2228.75	116.95	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
3040.00	GASSY OIL 20%G80%O	39.02
95.00	GASSY OIL CUT MUD 15%G40%O45%M1.39	

Gas Rates

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

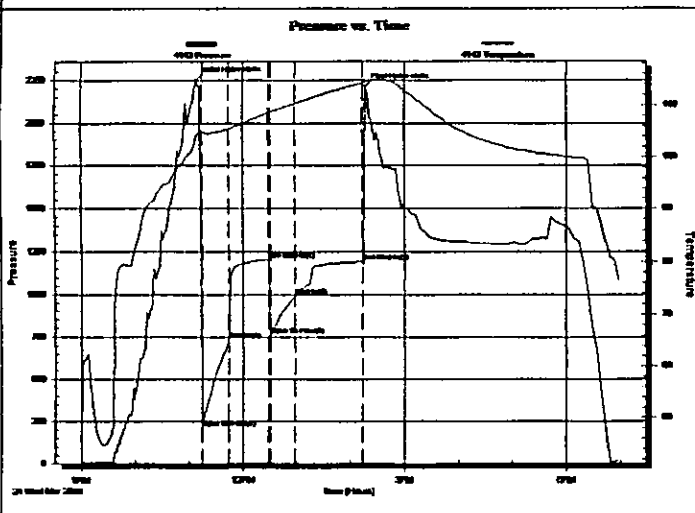
STECKEL UNIT#1
5-14S-31W-GOVE
 Job Ticket: 16295 **DST#: 8**
 Test Start: 2010.03.24 @ 09:00:00

GENERAL INFORMATION:

Formation: **JOHNSON**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 11:15:00
 Time Test Ended: 19:30:30
 Interval: **4559.00 ft (KB) To 4579.00 ft (KB) (TVD)**
 Total Depth: **4579.00 ft (KB) (TVD)**
 Hole Diameter: **7.88 inches** Hole Condition: Fair
 Test Type: Conventional Bottom Hole (Initial)
 Tester: **DAVID NICHOLS**
 Unit No: **3345 74 M SCOTT CITY**
 Reference Elevations: **2967.00 ft (KB)**
 2958.00 ft (CF)
 KB to GR/CF: **9.00 ft**

Serial #: 4143 **Outside**
 Press@RunDepth: **1191.73 psia @ 4576.00 ft (KB)** Capacity: **5000.00 psia**
 Start Date: **2010.03.24** End Date: **2010.03.24** Last Calib.: **2010.03.24**
 Start Time: **09:00:01** End Time: **18:58:10** Time On Btm: **2010.03.24 @ 11:09:10**
 Time Off Btm: 2010.03.24 @ 14:17:10

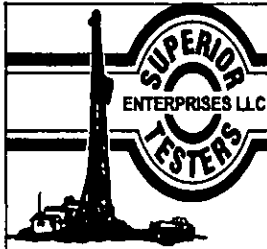
TEST COMMENT: 30-INITIAL OPENING GOOD BLOW BOTTOM BUCKET IN 1 MIN
 45-INITIAL SHUT IN STRONG BLOW BACK BOTTOM IN 13 MINS
 45-FINAL OPENING GOOD BLOW BOTTOM BUCKET IN 2 MINS
 60-FINAL SHUT IN STRONG BLOW BACK BOTTOM BUCKET IN 12 MINS



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2254.21	104.02	Initial Hydro-static
6	211.08	104.40	Open To Flow (1)
36	733.34	105.34	Shut-In(1)
80	1203.22	108.41	End Shut-In(1)
82	760.57	108.52	Open To Flow (2)
110	994.30	110.30	Shut-In(2)
184	1191.73	114.09	End Shut-In(2)
188	2214.55	114.39	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
3040.00	GASSY OIL 20%G80%O	39.02
95.00	GASSY OIL CUT MUD 15%G40%O45%M1.39	

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

STECKEL UNIT#1
 5-14S-31W-GOVE
 Job Ticket: 16295 DST#: 8
 Test Start: 2010.03.24 @ 09:00:00

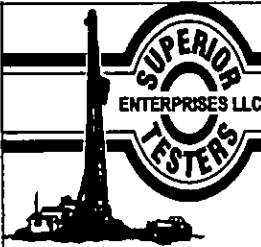
Tool Information

Drill Pipe:	Length: 3976.00 ft	Diameter: 3.88 inches	Volume: 58.15 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 560.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Full Loose: 90000.00 lb
			Total Volume: 60.90 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 68000.00 lb
Depth to Top Packer:	4559.00 ft			Final 77000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	20.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4534.00	
Shut-in Tool	5.00			4539.00	
Hydroic Tool	5.00			4544.00	
Packer	5.00			4549.00	26.00 Bottom Of Top Packer
Packer	5.00			4554.00	20.00 Tool Interval
Packer	5.00			4559.00	
Perforations	15.00			4574.00	
Recorder	1.00	8400	Inside	4575.00	
Recorder	1.00	4143	Outside	4576.00	
Bullnose	3.00			4579.00	1000045.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC

STECKEL UNIT#1

8100 E 22ND ST N #700

5-14S-31W-GOVE

PO BOX 783188

Job Ticket: 16295

DST#: 8

WICHITA KS 67278

Test Start: 2010.03.24 @ 09:00:00

ATTN: MIKE ENGELBRECHT

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API: 30 deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity: ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl	
Water Loss: 6.39 in ³	Gas Cushion Type:	
Resistivity: ohm.m	Gas Cushion Pressure: psia	
Salinity: 3800.00 ppm		
Filter Cake: inches		

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
3040.00	GASSY OIL 20%G80%O	39.022
95.00	GASSY OIL CUT MUD 15%G40%O45%M	1.389

Total Length: 3135.00 ft Total Volume: 40.411 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

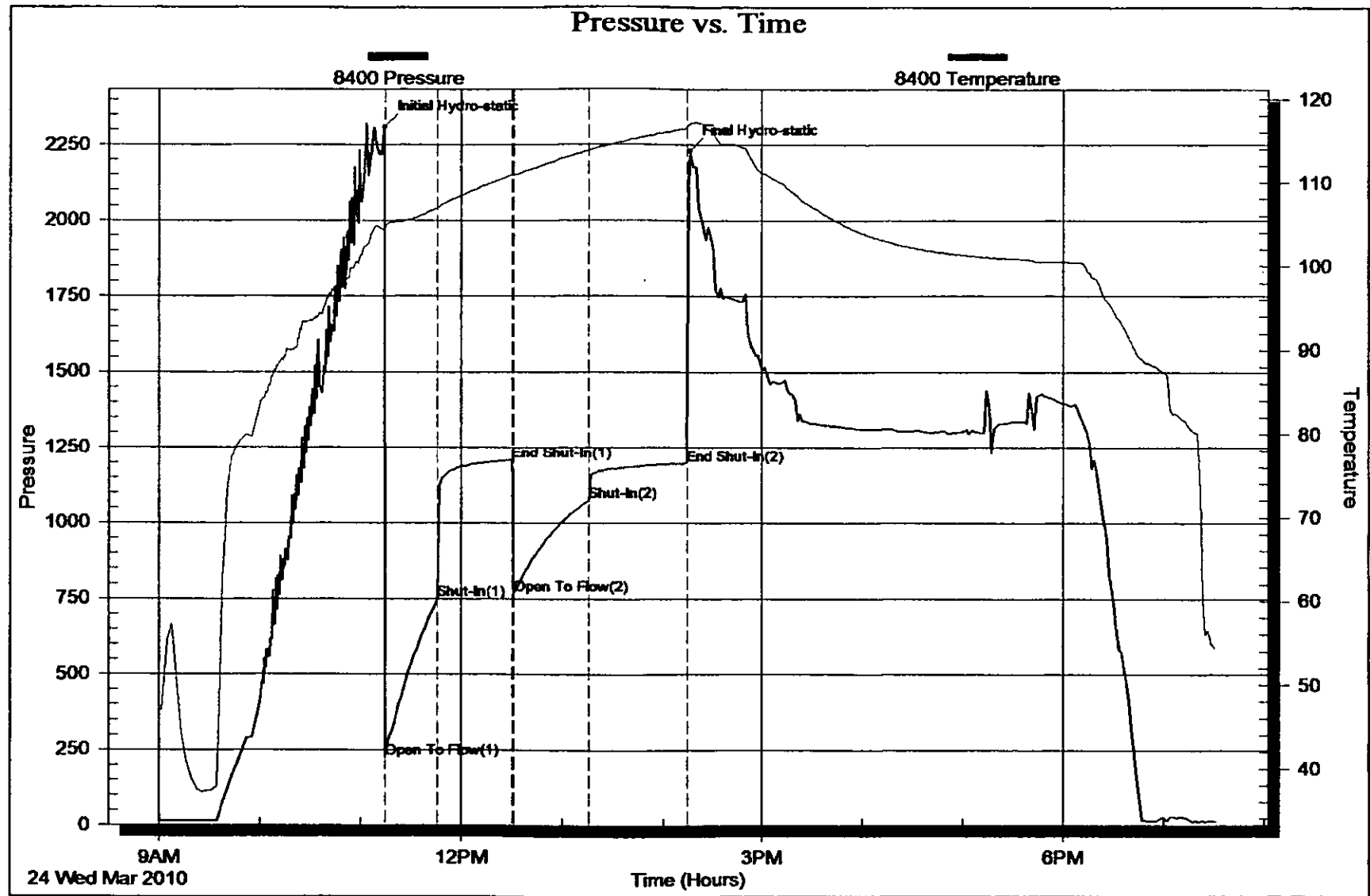
Recovery Comments: GRAVITY OIL 30

Serial #: 8400

Inside RITCHIE EXPLORATION INC

5-14S-31W-GOVE

DST Test Number: 8

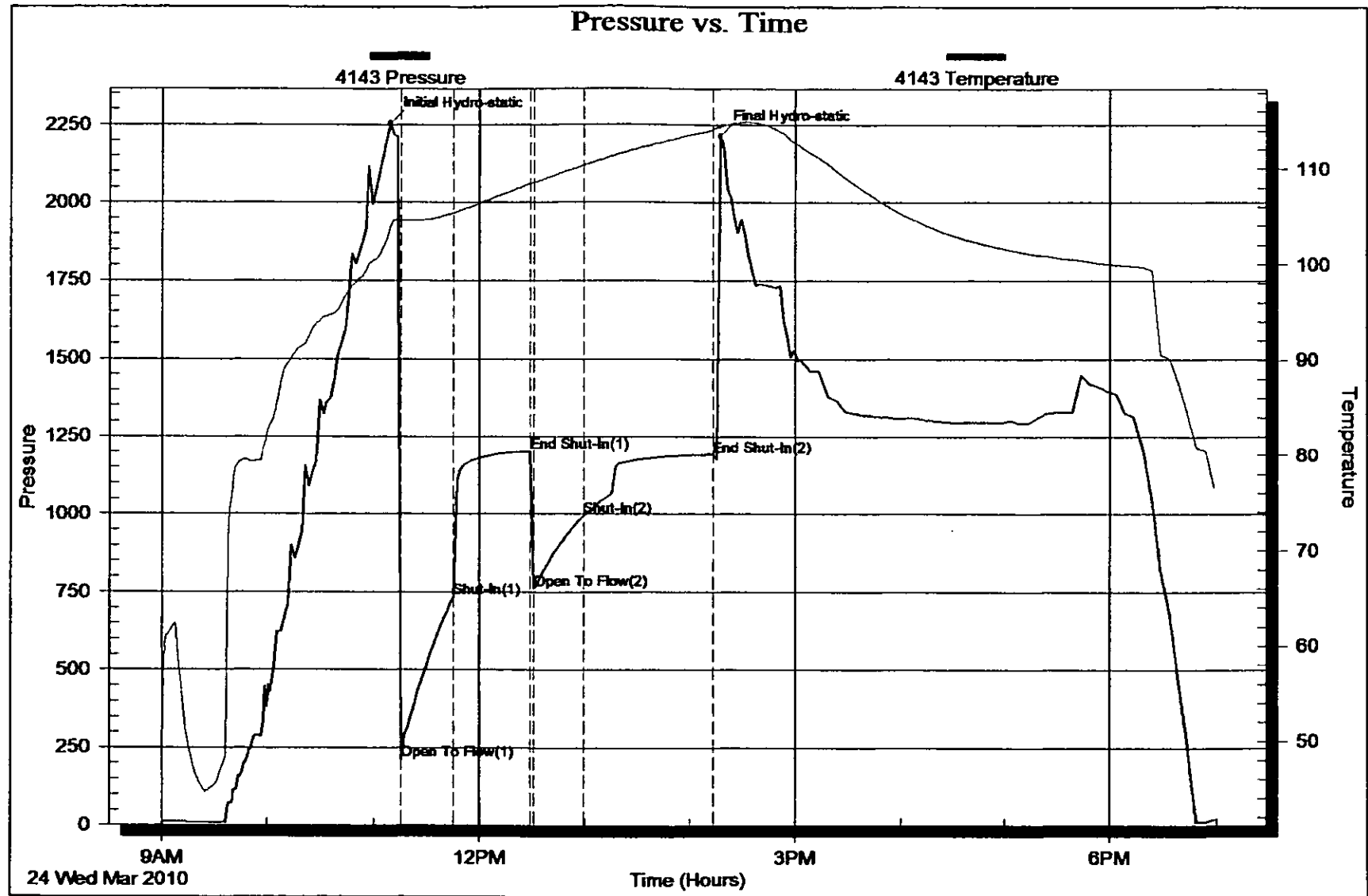


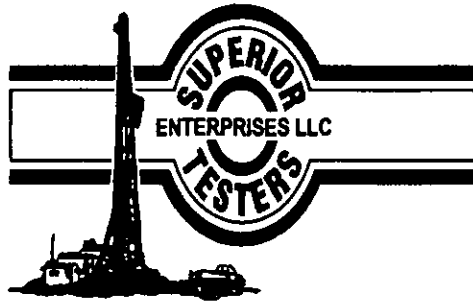
Serial #: 4143

Outside RITCHE EXPLORATION INC

5-14S-31W-GOVE

DST Test Number: 8





DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278

ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

STECKEL UNIT#1

Start Date: 2010.03.25 @ 02:00:00

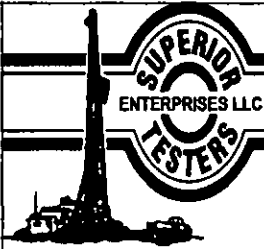
End Date: 2010.03.25 @ 08:50:30

Job Ticket #: 16296 DST #: 9

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

Printed: 2010.03.26 @ 09:59:04

RITCHIE EXPLORATION INC
STECKEL UNIT#1
5-14S-31W-GOVE
DST # 9
LOWER JOHNSON
2010.03.25



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

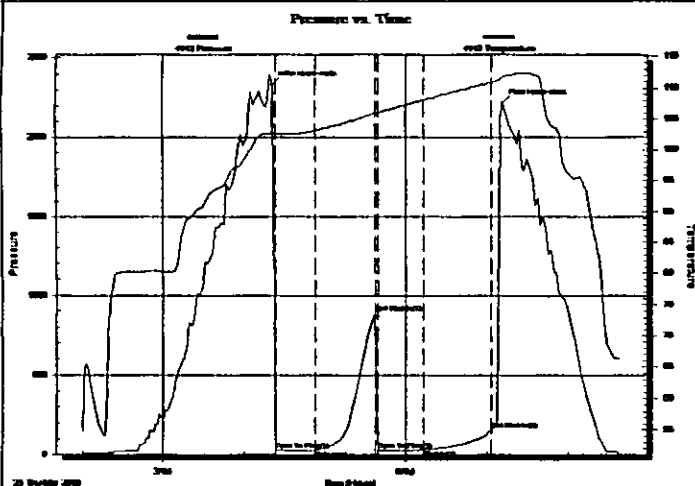
STECKEL UNIT#1
5-14S-31W-GOVE
 Job Ticket: 16296 **DST#: 9**
 Test Start: 2010.03.25 @ 02:00:00

GENERAL INFORMATION:

Formation: **LOWER JOHNSON**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 04:21:30 Tester: DAVID NICHOLS
 Time Test Ended: 08:50:30 Unit No: 3345 74 M SCOTT CITY
 Interval: 4580.00 ft (KB) To 4591.00 ft (KB) (TVD) Reference Elevations: 2967.00 ft (KB)
 Total Depth: 4591.00 ft (KB) (TVD) 2958.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 9.00 ft

Serial #: 4143 Outside
 Press@RunDepth: 161.40 psia @ 4588.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.03.25 End Date: 2010.03.25 Last Calib.: 2010.03.25
 Start Time: 02:00:01 End Time: 08:38:10 Time On Btm: 2010.03.25 @ 04:21:10
 Time Off Btm: 2010.03.25 @ 07:11:10

TEST COMMENT: 30-INITIAL OPENING VERY WEAK BLOW BUILT TO 1/2 INCH INTO WATER
 45-INITIAL SHUT IN NO BLOW BACK
 30-FINAL OPENING SURFACE BLOW DIED AFTER 5 MINS
 60-FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

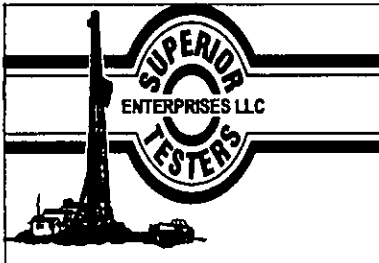
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2333.61	102.74	Initial Hydro-static
2	28.29	102.68	Open To Flow (1)
32	31.31	103.18	Shut-in(1)
76	892.67	105.92	End Shut-in(1)
78	30.70	106.06	Open To Flow (2)
112	32.91	108.10	Shut-in(2)
162	161.40	110.90	End Shut-in(2)
170	2219.99	111.75	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
10.00	MUD GOOD SHOW OF OIL 95%M5%O	0.05

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

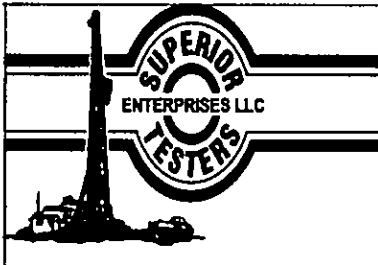
STECKEL UNIT#1
 5-14S-31W-GOVE
 Job Ticket: 16296 DST#: 9
 Test Start: 2010.03.25 @ 02:00:00

Tool Information

Drill Pipe:	Length: 4002.00 ft	Diameter: 3.88 inches	Volume: 58.53 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 560.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 61.28 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4580.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	11.00 ft			
Tool Length:	32.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4560.00	
Shut-In Tool	5.00			4565.00	
Hydroic Tool	5.00			4570.00	
Packer	5.00			4575.00	21.00 Bottom Of Top Packer
Packer	5.00			4580.00	
Perforations	6.00			4586.00	
Recorder	1.00	8400	Inside	4587.00	
Recorder	1.00	4143	Outside	4588.00	
Bulhose	3.00			4591.00	11.00 Bottom Packers & Anchor
Total Tool Length:	32.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

STECKEL UNIT#1
 5-14S-31W-GOVE
 Job Ticket: 16296 DST#: 9
 Test Start: 2010.03.25 @ 02:00:00

Mud and Cushion Information

Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 6.39 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3800.00 ppm			
Filter Cake: inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
10.00	MUD GOOD SHOW OF OIL 95%M5%O	0.049

Total Length: 10.00 ft Total Volume: 0.049 bbl
 Num Fluid Samples: 0 Num Gas Borrb: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

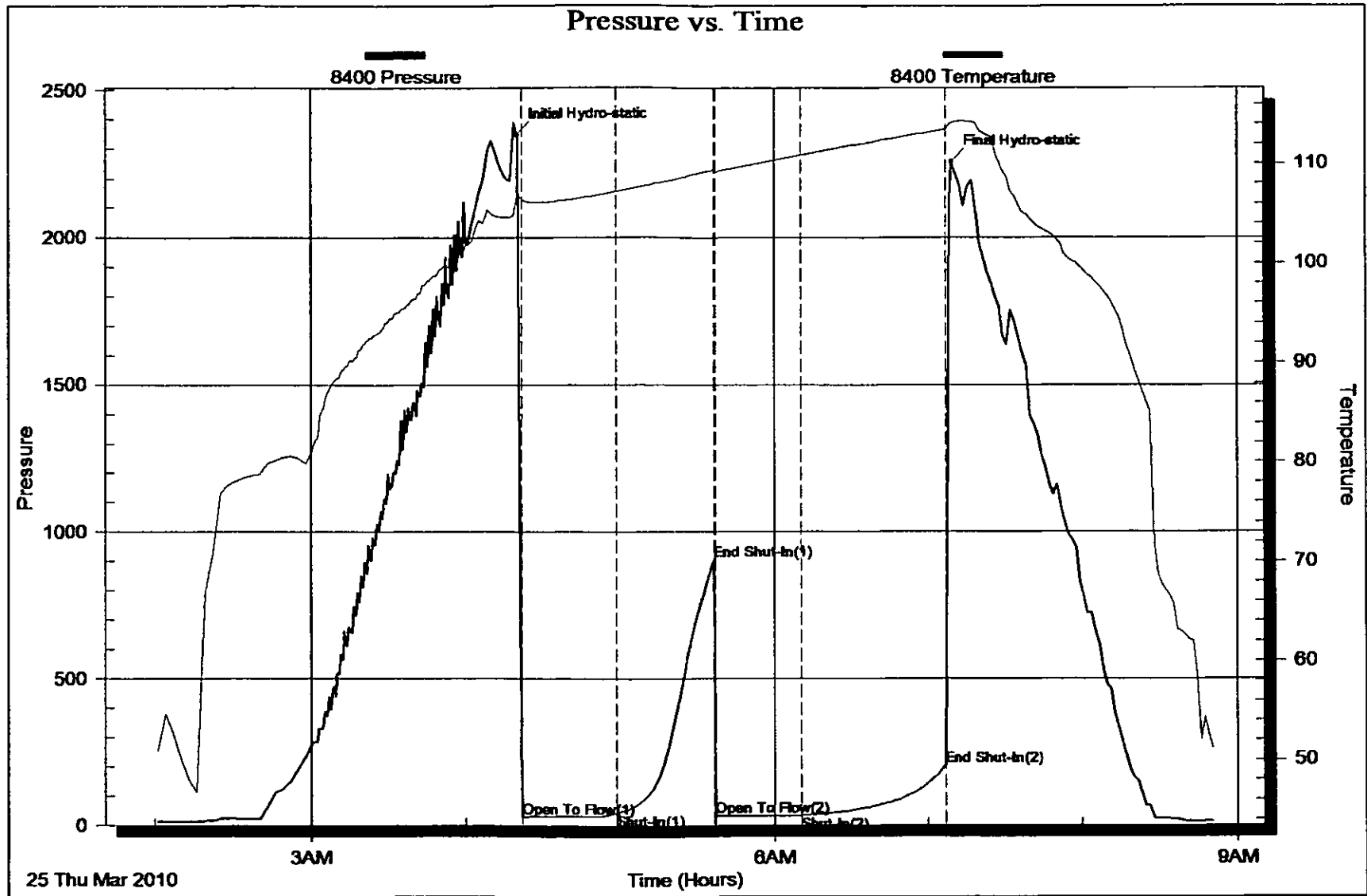
Serial #: 8400

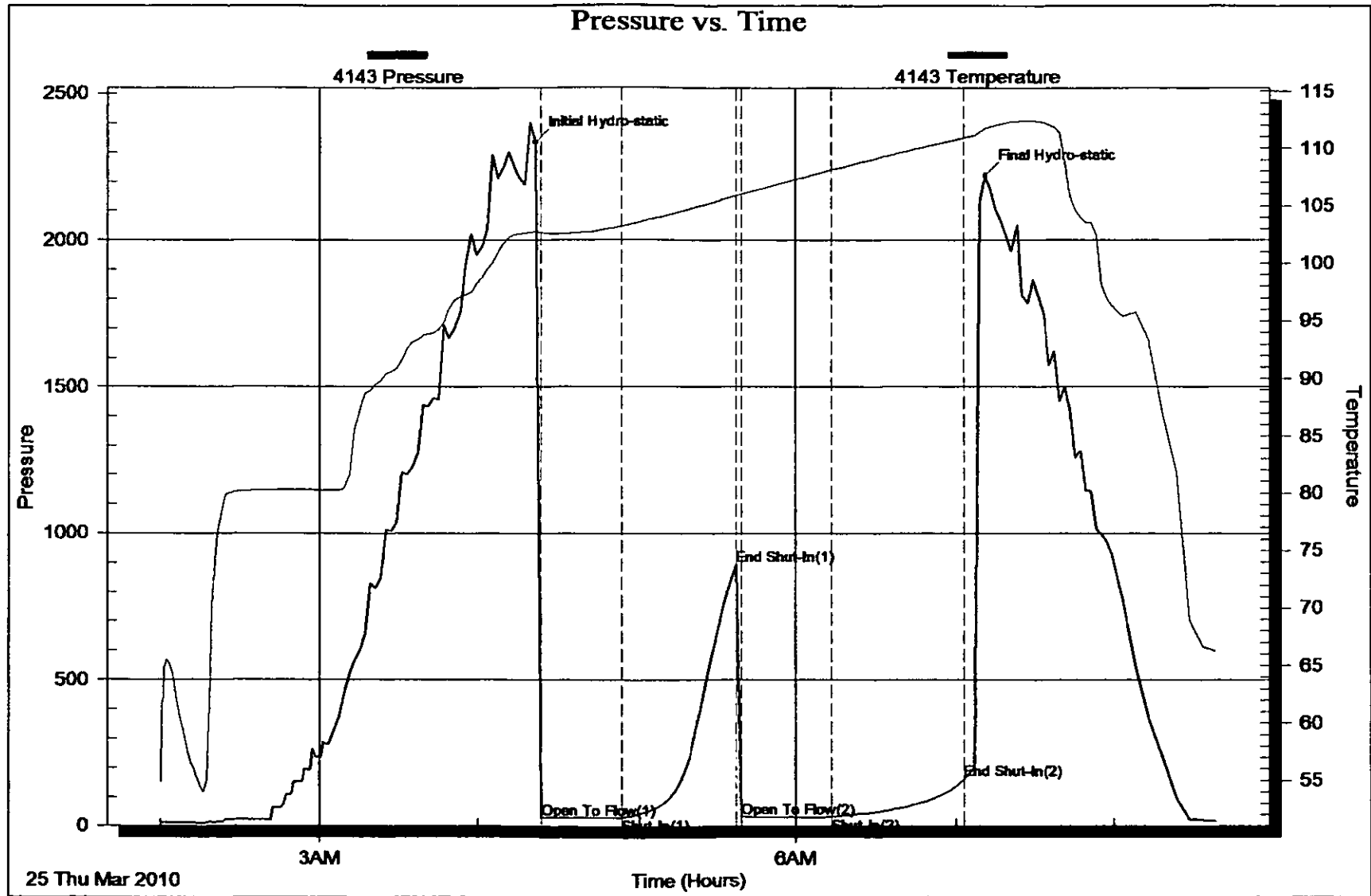
Inside

RITCHIE EXPLORATION INC

5-14S-31W-GOVE

DST Test Number: 9







DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278

ATTN: MIKE ENGELBRECHT

5-14S-31W-GOVE

STECKEL UNIT#1

Start Date: 2010.03.26 @ 17:00:00

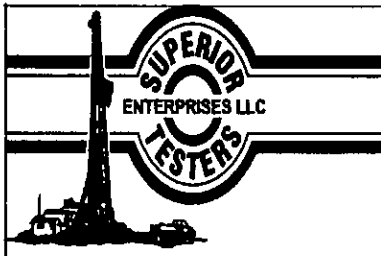
End Date: 2010.03.27 @ 00:09:00

Job Ticket #: 16297 DST #: 10

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

Printed: 2010.03.26 @ 10:01:39

RITCHIE EXPLORATION INC STECKEL UNIT#1 5-14S-31W-GOVE DST # 10 MORROW 2010.03.26



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC
 8100 E 22ND ST N #700
 PO BOX 783188
 WICHITA KS 67278
 ATTN: MIKE ENGELBRECHT

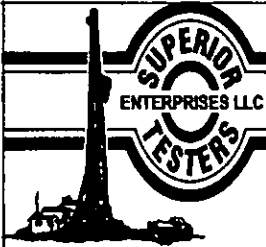
STECKEL UNIT#1
 5-14S-31W-GOVE
 Job Ticket: 16297 DST#: 10
 Test Start: 2010.03.26 @ 17:00:00

Tool Information

Drill Pipe:	Length: 4011.00 ft	Diameter: 3.80 inches	Volume: 56.26 bbl	Tool Weight: 2000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 560.00 ft	Diameter: 2.25 inches	Volume: 2.75 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 59.01 bbl	Tool Chased 0.00 ft
Drill Pipe Above KB:	3.00 ft			String Weight: Initial 70000.00 lb
Depth to Top Packer:	4589.00 ft			Final 70000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	27.00 ft			
Tool Length:	48.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		
Tool Comments: RUINED ONE PACKER				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4569.00	
Shut-In Tool	5.00			4574.00	
Hydroic Tool	5.00			4579.00	
Packer	5.00			4584.00	21.00 Bottom Of Top Packer
Packer	5.00			4589.00	
Perforations	22.00			4611.00	
Recorder	1.00	8400	Inside	4612.00	
Recorder	1.00	4143	Outside	4613.00	
Bullnose	3.00			4616.00	27.00 Bottom Packers & Anchor
Total Tool Length:	48.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
8100 E 22ND ST N #700
PO BOX 783188
WICHITA KS 67278
ATTN: MIKE ENGELBRECHT

STECKEL UNIT#1
5-14S-31W-GOVE
Job Ticket: 16297 DST#: 10
Test Start: 2010.03.26 @ 17:00:00

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

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
40.00	OIL CUT MUD 40%O60%M	0.197
95.00	MUD CUT GASSY OIL 20%G40%O30%M	0.467
95.00	OIL MUD CUT GAS 40%G35%O25%M	0.467
95.00	HEAVY OIL CUT MUD50%M50%O	0.467

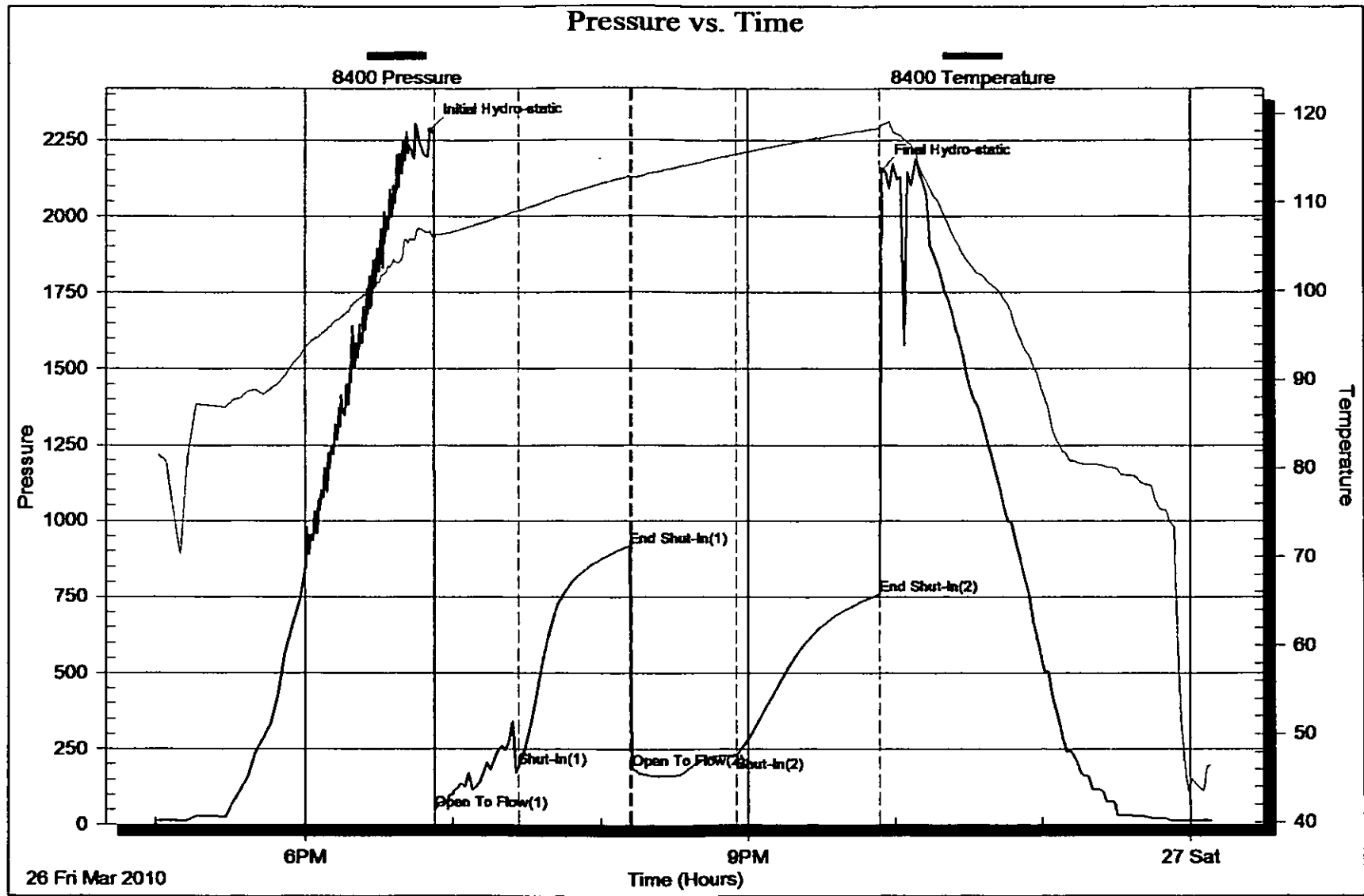
Total Length: 325.00 ft Total Volume: 1.598 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

Serial #: 8400

Inside RITCHE EXPLORATION INC

5-14S-31W-GOVE

DST Test Number: 10



Serial #: 4143

Outside RITCHE EXPLORATION INC

5-14S-31W-GOVE

DST Test Number: 10

