

CONFIDENTIAL

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

ORIGINAL

Form ACO-1
October 2008
Form Must Be Typed

1/25/13

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 + 3118
Contact Person: John Niemberger
Phone: (316) 691-9500
CONTRACTOR: License # 30606
Name: Murfin Drilling, Co., Inc.
Wellsite Geologist: Ted Jochems
Purchaser: NCRA

Designate Type of Completion:
 New Well Re-Entry Workover
 Oil SWD SIOW
 Gas ENHR SIGW
 CM (Coal Bed Methane) Temp. Abd.
 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. Conv. to SWD
 Plug Back: _____ Plug Back Total Depth _____
 Commingled Docket No.: _____
 Dual Completion Docket No.: _____
 Other (SWD or Enhr.?) Docket No.: _____
10/28/10 11/9/10 11/9/10
Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - 063-21873-00-00
Spot Description: 75' S & 20' W
.S/2 .S/2 .NW Sec. 19 Twp. 13 S. R. 31 East West
2385 Feet from North / South Line of Section
1300 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Gove
Lease Name: Campbell 19ABC Well #: 1
Field Name: _____
Producing Formation: Johnson
Elevation: Ground: 2910 Kelly Bushing: 2920
Total Depth: 4670 Plug Back Total Depth: 4612
Amount of Surface Pipe Set and Cemented at: 221 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: 2413 Feet
If Alternate II completion, cement circulated from: surface
feet depth to: 2413 w/ 315 sx cmt.

Drilling Fluid Management Plan MFINS 4-591
(Data must be collected from the Reserve Pit)
Chloride content: 11000 ppm Fluid volume: 1000 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: 1/25/11
Subscribed and sworn to before me this 25th day of January
20 11
Notary Public: Debra K Phillips
Date Commission Expires: 5-4-11

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

KCC Office Use ONLY
 Letter of Confidentiality Received 1/25/11-1/25/13
If Denied, Yes Date: _____
 Wireline Log Received
 Geologist Report Received
 UIC Distribution
RECEIVED
KANSAS CORPORATION COMMISSION

JAN 26 2011
CONSERVATION DIVISION
WICHITA, KS

Operator Name: Ritchie Exploration, Inc. Lease Name: Campbell 19ABC Well #: 1
 Sec. 19 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 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 <i>(Submit Copy)</i> List All E. Logs Run: Dual Induction Log Compensated Density/Neutron Log	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input checked="" type="checkbox"/> Sample Name Top Datum SEE ATTACHED <div style="text-align: right; font-weight: bold; font-size: 1.2em;"> KCC JAN 25 2011 CONFIDENTIAL </div>
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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	221	common	175	3%cc, 2%gel
Production	7-7/8	5-1/2	15.5	4662	ASC	200	10% salt, 2% gel & 3/4% CD-31

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

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4530.3' - 4533.8', 4520.3' - 4525.3' (12/3/10)		

TUBING RECORD: Size: <u>2-7/8</u> Set At: <u>4613</u> Packer At: <u> </u> Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Date of First, Resumed Production, SWD or Enhr. <u>12/10/10</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>128.44</u> Gas Mcf <u> </u> Water Bbls. <u>8</u> Gas-Oil Ratio <u> </u> Gravity <u>28.90</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 <input type="checkbox"/> Other (Specify) <u> </u>	PRODUCTION INTERVAL: RECEIVED KANSAS CORPORATION COMMISSION JAN 26 2011
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Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

CONSERVATION DIVISION
WICHITA, KS



RITCHIE

EXPLORATION, INC.
Wichita, Kansas

#1 Campbell 19ABC

2385' FNL & 1300' FWL

75' S & 20' W of S/2 S/2 NW Section 19-13S-31W

Gove County, Kansas

API# 15-063-21873-0000

Elevation: 2910' GL: 2920' KB

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JAN 25 2011
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Sample Tops		Ref.	Well
Anhydrite	2413'	+507	-26
B/Anhydrite	2438'	+482	-26
Heebner	3908'	-988	-3
Lansing	3954'	-1034	-5
Muncie Shale	4102'	-1182	-2
LKC "H"	4116'	-1196	-1
Stark Shale	4190'	-1270	-6
Hush.	4223'	-1303	-2
Marmaton	4277'	-1357	+4
Pawnee	4388'	-1468	-5
Cherokee Shale	4456'	-1536	+13
Johnson	4498'	-1578	+13
Morrow Sand	4545'	-1624	-11
Mississippian	4588'	-1668	-35
RTD	4670'	-1750	

RECEIVED
KANSAS CORPORATION COMMISSION

JAN 26 2011

CONSERVATION DIVISION
WICHITA, KS

P.O. Box 783188
Wichita, Kansas 67278-3188

(316) 691-9500
Fax (316) 691-9550
rei@ritchie-exp.com

8100 E. 22nd St. N., Bldg. 700
Wichita, Kansas 67226-2328

ALLIED CEMENTING CO., LLC. 035673

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

SERVICE POINT:
Oakley

DATE <u>10-28-10</u>	SEC. <u>19</u>	TWP. <u>13S</u>	RANGE <u>31W</u>	CALLED OUT	ON LOCATION	JOB START <u>9:00am</u>	JOB FINISH <u>9:30pm</u>
LEASE <u>Campbell</u>	WELL # <u>#119AB</u>	LOCATION <u>Oakley</u>	<u>115 3E 35</u>	COUNTY <u>GOVE</u>	STATE <u>KS</u>		
OLD OR NEW (Circle one) <u>NEW</u>		<u>1/2w 1/2s wind</u>					

CONTRACTOR Murfin Drilling Rig 14 OWNER Same

TYPE OF JOB Surface

HOLE SIZE 12 1/4 T.D. 221'

CASING SIZE 8 5/8 DEPTH 221'

TUBING SIZE DEPTH

DRILL PIPE DEPTH

TOOL DEPTH

PRES. MAX MINIMUM

MEAS. LINE SHOE JOINT

CEMENT LEFT IN CSG. 15'

PERFS.

DISPLACEMENT 13.12

CEMENT	AMOUNT ORDERED	<u>175 SKS COM</u>
	<u>3% cc 2% gel</u>	
COMMON	<u>175 SKS</u>	@ <u>15.45</u> <u>2703.75</u>
POZMIX		@
GEL	<u>3 SKS</u>	@ <u>20.80</u> <u>62.40</u>
CHLORIDE	<u>6 SKS</u>	@ <u>58.20</u> <u>349.20</u>
ASC		@
		@
		@
		@
		@
		@
		@
HANDLING	<u>184</u>	@ <u>2.40</u> <u>441.60</u>
MILEAGE	<u>109 SK/mile</u>	<u>368.00</u>
		TOTAL <u>3924.95</u>

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REMARKS:

Cement did circulate

Thank you

CHARGE TO: Ritchie Exploration

STREET _____

CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB	<u>221'</u>	
PUMP TRUCK CHARGE		<u>108.00</u>
EXTRA FOOTAGE	@	
MILEAGE	<u>20 miles</u>	@ <u>7.00</u> <u>140.00</u>
MANIFOLD	@	
	@	
	@	
		TOTAL <u>1158.00</u>

PLUG & FLOAT EQUIPMENT

	@	
	@	
	@	
	@	
	@	
		TOTAL _____

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

PRINTED NAME Corey Church

SIGNATURE Corey Church

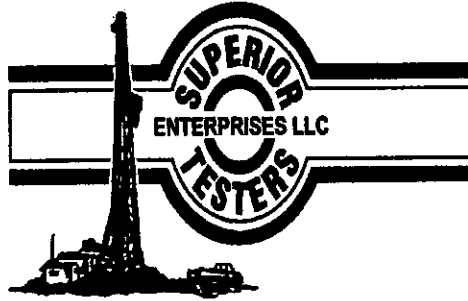
SALES TAX (If Any) _____

TOTAL CHARGES _____

DISCOUNT _____ IF PAID IN 30 DAYS

RECEIVED
FEB 15 2011
KCC WICHITA

(Handwritten mark)



DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

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

ATTN: TED JOCHEMS

19-13W-31W

CAMPBELL 19 ABC #1

Start Date: 2010.11.01 @ 01:05:00

End Date: 2010.11.01 @ 07:53:00

Job Ticket #: 16070 DST #: 1

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

Printed: 2010.11.09 @ 10:38:50

RITCHIE EXPLORATION INC
CAMPBELL 19 ABC #1
19-13W-31W
DST # 1
LKC "C ZONE"
2010.11.01



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 16070

DST#: 1

ATTN: TED JOCHEMS

Test Start: 2010.11.01 @ 01:05:00

GENERAL INFORMATION:

Formation: LKC "C ZONE"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:42:30

Time Test Ended: 07:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY -75

Interval: 3969.00 ft (KB) To 3998.00 ft (KB) (TVD)

Total Depth: 3998.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2920.00 ft (KB)

2910.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419

Inside

Press@RunDepth: 155.11 psia @ 3994.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.11.01 End Date: 2010.11.01

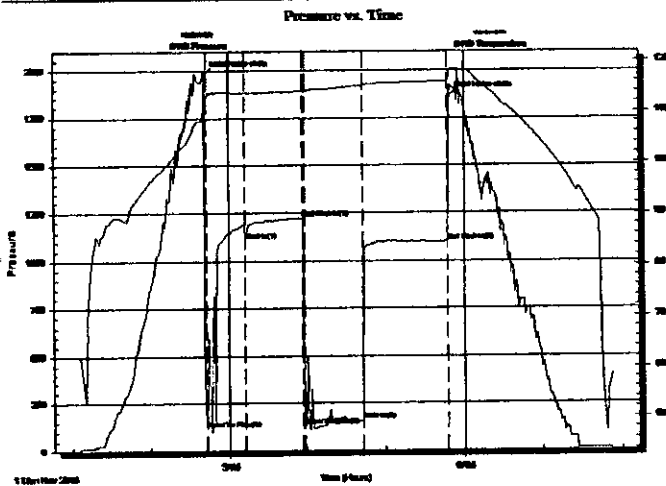
Last Calib.: 2010.11.01

Start Time: 01:06:00 End Time: 07:53:00

Time On Btm: 2010.11.01 @ 02:41:00

Time Off Btm: 2010.11.01 @ 05:49:00

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



PRESSURE SUMMARY

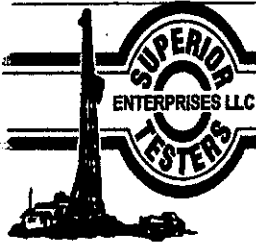
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1979.70	110.52	Initial Hydro-static
2	113.17	112.36	Open To Flow (1)
32	1110.66	113.63	Shut-in(1)
76	1222.18	113.98	End Shut-in(1)
78	126.94	113.83	Open To Flow (2)
122	155.11	114.97	Shut-in(2)
187	1100.83	115.89	End Shut-in(2)
188	1860.30	118.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	MUD	0.98

Gas Rates

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



DRILL STEM TEST REPORT

RITCHEE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 16070

DST#: 1

ATTN: TED JOCHEMS

Test Start: 2010.11.01 @ 01:05:00

GENERAL INFORMATION:

Formation: **LKC "C ZONE"**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:42:30

Time Test Ended: 07:53:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY -75

Interval: **3969.00 ft (KB) To 3998.00 ft (KB) (TVD)**

Total Depth: 3998.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2920.00 ft (KB)

2910.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 4005

Outside

Press@RunDepth: 1099.71 psia @ 3995.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.11.01

End Date:

2010.11.01

Last Calib.: 2010.11.01

Start Time: 01:05:01

End Time:

07:43:10

Time On Btm: 2010.11.01 @ 02:40:09

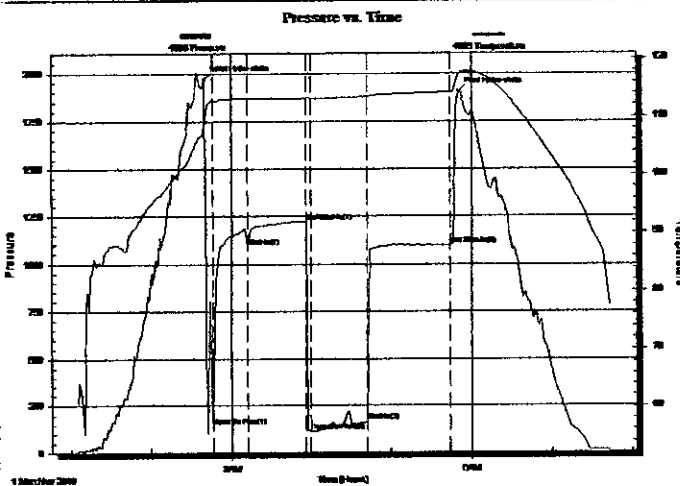
Time Off Btm: 2010.11.01 @ 05:50:10

TEST COMMENT: 30/INITIAL OPEN:WEAK BUT BUILDING BLOW BUILT 2 1/2 INCHES INTO BUCKET IN 30 MINUTES

45/INITIAL SHUT IN:NO BLOW BACK

45/FINAL OPEN:NO BLOW FLUSHED TOOL WEAK BLOW BUILT 1 1/2 INTO BUCKET IN 45 MINUTES

60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

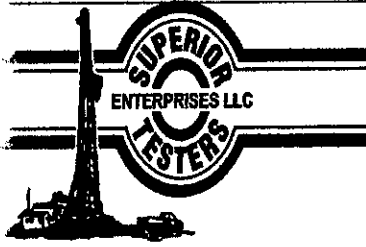
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1971.16	108.34	Initial Hydro-static
7	141.69	112.63	Open To Flow (1)
33	1093.52	113.04	Shut-In (1)
77	1222.72	113.05	End Shut-In (1)
81	111.94	113.06	Open To Flow (2)
123	167.10	113.38	Shut-In (2)
185	1099.71	114.17	End Shut-In (2)
191	1903.48	117.38	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	MUD	0.98

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 16070

DST#: 1

ATTN: TED JOCHEMS

Test Start: 2010.11.01 @ 01:05:00

Tool Information

Drill Pipe:	Length: 3382.00 ft	Diameter: 3.80 inches	Volume: 47.44 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 578.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 100000.0 lb
			<u>Total Volume: 50.28 bbl</u>	Tool Chased 10.00 ft
Drill Pipe Above KB:	14.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	3969.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	29.00 ft			
Tool Length:	52.00 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			3947.00	
Shut-in Tool	5.00			3952.00	
Hydrolic Tool	5.00			3957.00	
Safety Joint	2.00			3959.00	
Packer	5.00			3964.00	23.00 Bottom Of Top Packer
Packer	5.00			3969.00	
Perforations	24.00			3993.00	
Recorder	1.00	8419	Inside	3994.00	
Recorder	1.00	4005	Outside	3995.00	
Bullnose	3.00			3998.00	29.00 Bottom Packers & Anchor
Total Tool Length:	52.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 16070

DST#: 1

ATTN: TED JOCHEMS

Test Start: 2010.11.01 @ 01:05:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 9.00 lb/gal
Viscosity: 52.00 sec/qt
Water Loss: 7.78 in²
Resistivity: ohm.m
Salinity: 900.00 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

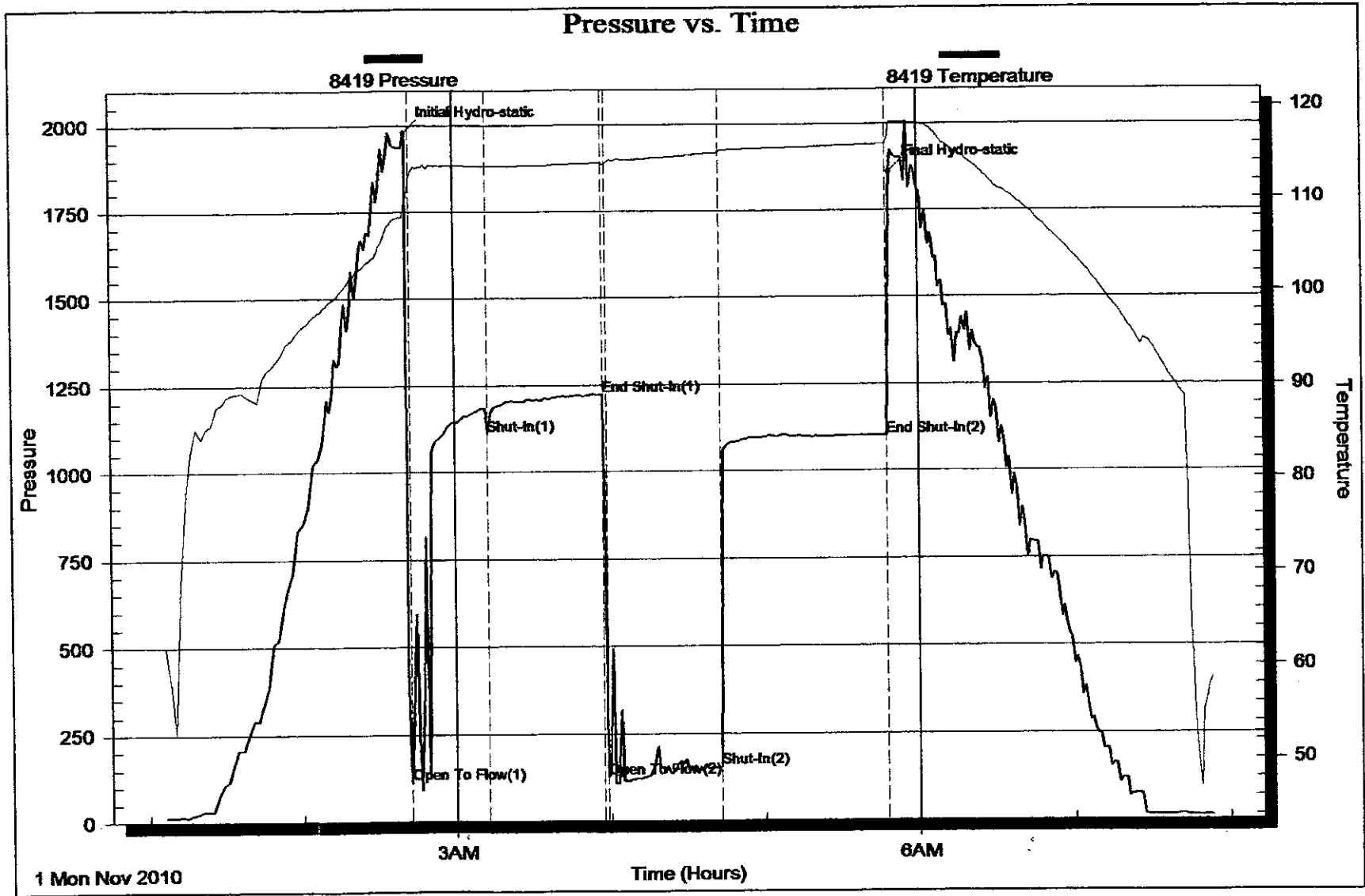
Length ft	Description	Volume bbl
200.00	MUD	0.984

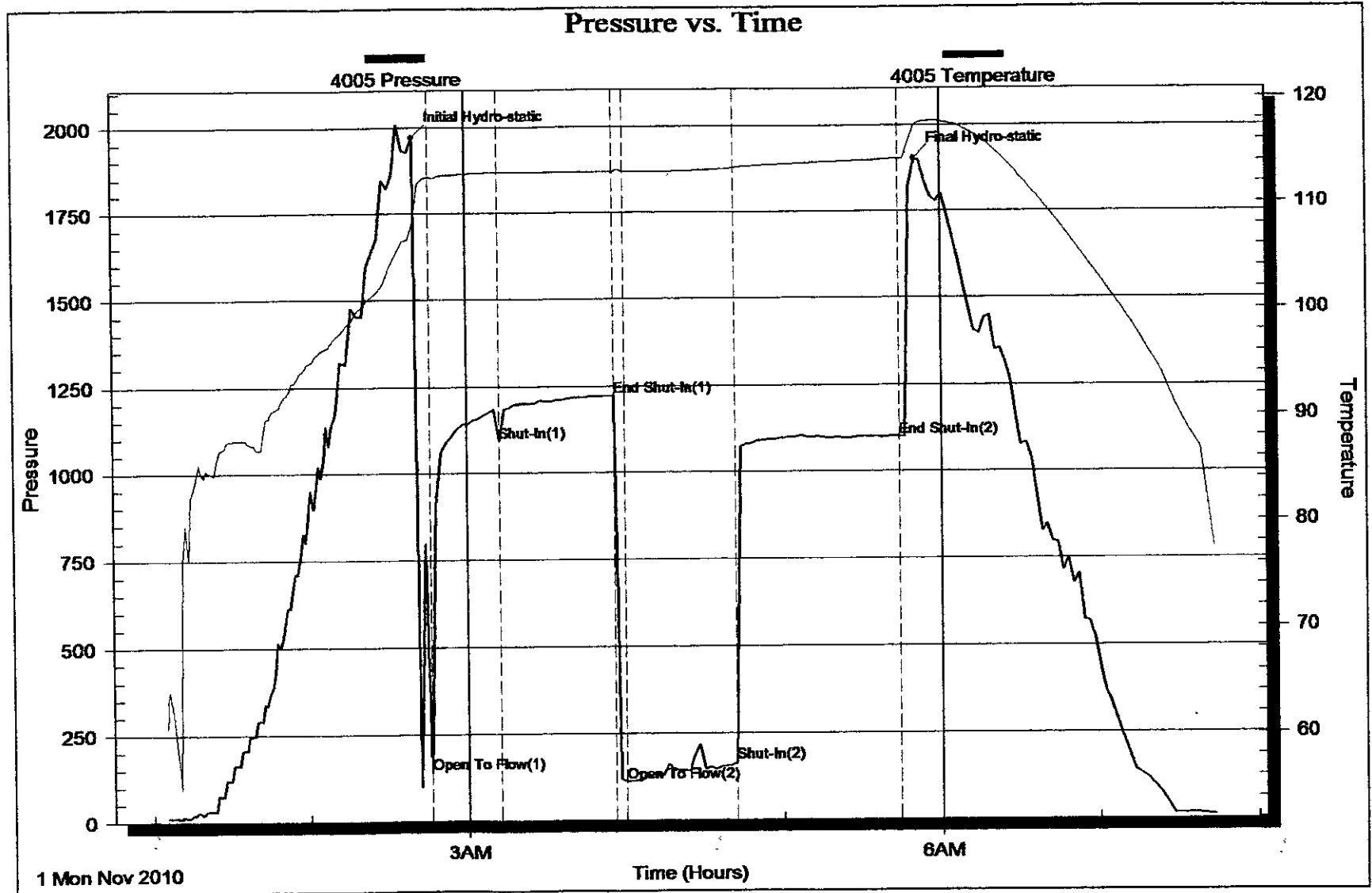
Total Length: 200.00 ft Total Volume: 0.984 bbl

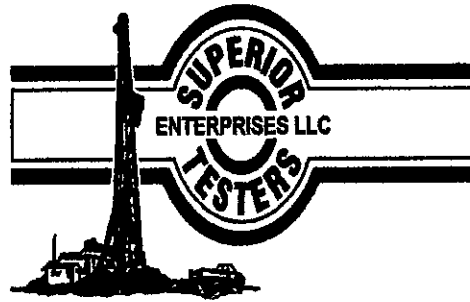
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

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

ATTN: TED JOCHEMS

19-13W-31W

CAMPBELL 19 ABC #1

Start Date: 2010.11.01 @ 17:45:00

End Date: 2010.11.01 @ 23:06:00

Job Ticket #: 16071 DST #: 2

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

Printed: 2010.11.09 @ 10:38:30

RITCHIE EXPLORATION INC
CAMPBELL 19 ABC #1
19-13W-31W
DST # 2
LKC "E ZONE"
2010.11.01



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 16071

DST#: 2

ATTN: TED JOCHEMS

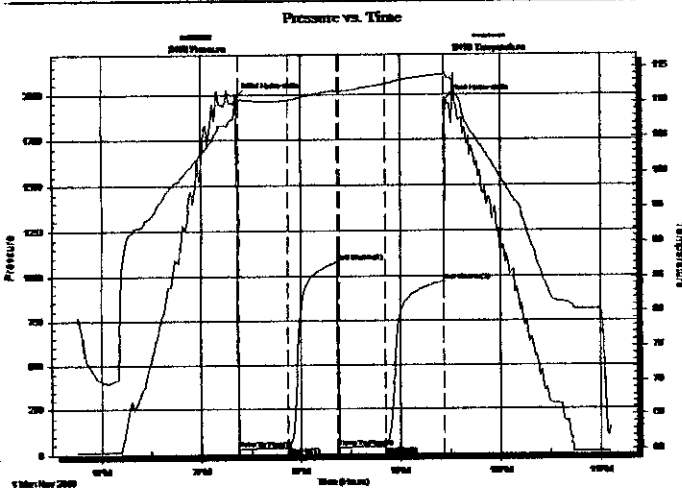
Test Start: 2010.11.01 @ 17:45:00

GENERAL INFORMATION:

Formation: LKC "E ZONE"
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 19:22:30
 Tester: JARED SCHECK
 Time Test Ended: 23:06:00
 Unit No: 3320-SCOTT CITY -75
 Interval: 4024.00 ft (KB) To 4040.00 ft (KB) (TVD)
 Reference Elevations: 2920.00 ft (KB)
 Total Depth: 4040.00 ft (KB) (TVD)
 2910.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair
 KB to GR/CF: 10.00 ft

Serial #: 8419 Inside
 Press@RunDepth: 39.25 psia @ 4036.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.11.01 End Date: 2010.11.01 Last Calib.: 2010.11.01
 Start Time: 17:46:00 End Time: 23:06:00 Time On Btm: 2010.11.01 @ 19:21:30
 Time Off Btm: 2010.11.01 @ 21:27:00

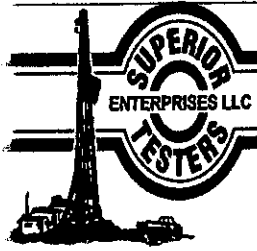
TEST COMMENT: 30/INITIAL OPEN: VERY WEAK SURFACE BLOW BUILT 1/2 INCH INTO WATER IN 30 MINUTES
 30/INITIAL SHUT IN: NO BLOW BACK
 30/FINAL OPEN: NO BLOW FLUSHED TOOL GOOD SURGE DID NOT BUILD
 30/FINAL SHUT IN: NO BLOW BACK



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1985.65	110.68	Initial Hydro-static
1	33.01	110.31	Open To Flow (1)
31	37.95	110.26	Shut-In(1)
61	1078.79	111.64	End Shut-In(1)
62	35.90	111.45	Open To Flow (2)
90	39.25	112.52	Shut-In(2)
125	969.46	113.95	End Shut-In(2)
126	1974.63	113.81	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	MUDDY OIL 5%MUD 95%OIL	0.02

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 16071

DST#: 2

ATTN: TED JOCHEMS

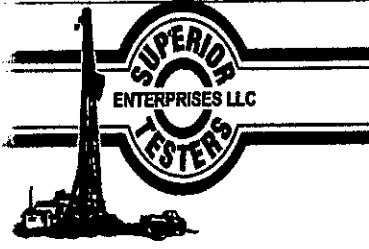
Test Start: 2010.11.01 @ 17:45:00

Tool Information

Drill Pipe:	Length: 3445.00 ft	Diameter: 3.80 inches	Volume: 48.32 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: 578.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 51.16 bbl	Tool Chased 2.00 ft
Drill Pipe Above KB:	22.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4024.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	16.00 ft			
Tool Length:	39.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4002.00	
Shut-In Tool	5.00			4007.00	
Hydraulic Tool	5.00			4012.00	
Safety Joint	2.00			4014.00	
Packer	5.00			4019.00	23.00 Bottom Of Top Packer
Packer	5.00			4024.00	
Perforations	11.00			4035.00	
Recorder	1.00	8419	Inside	4036.00	
Recorder	1.00	4005	Outside	4037.00	
Bullnose	3.00			4040.00	16.00 Bottom Packers & Anchor
Total Tool Length:	39.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC
8100 E 22ND ST N #700 WITCHITA KS
67278+3188

ATTN: TED JOCHEMS

CAMPBELL 19 ABC #1
19-13W-31W
Job Ticket: 16071 DST#: 2
Test Start: 2010.11.01 @ 17:45:00

Mud and Cushion Information

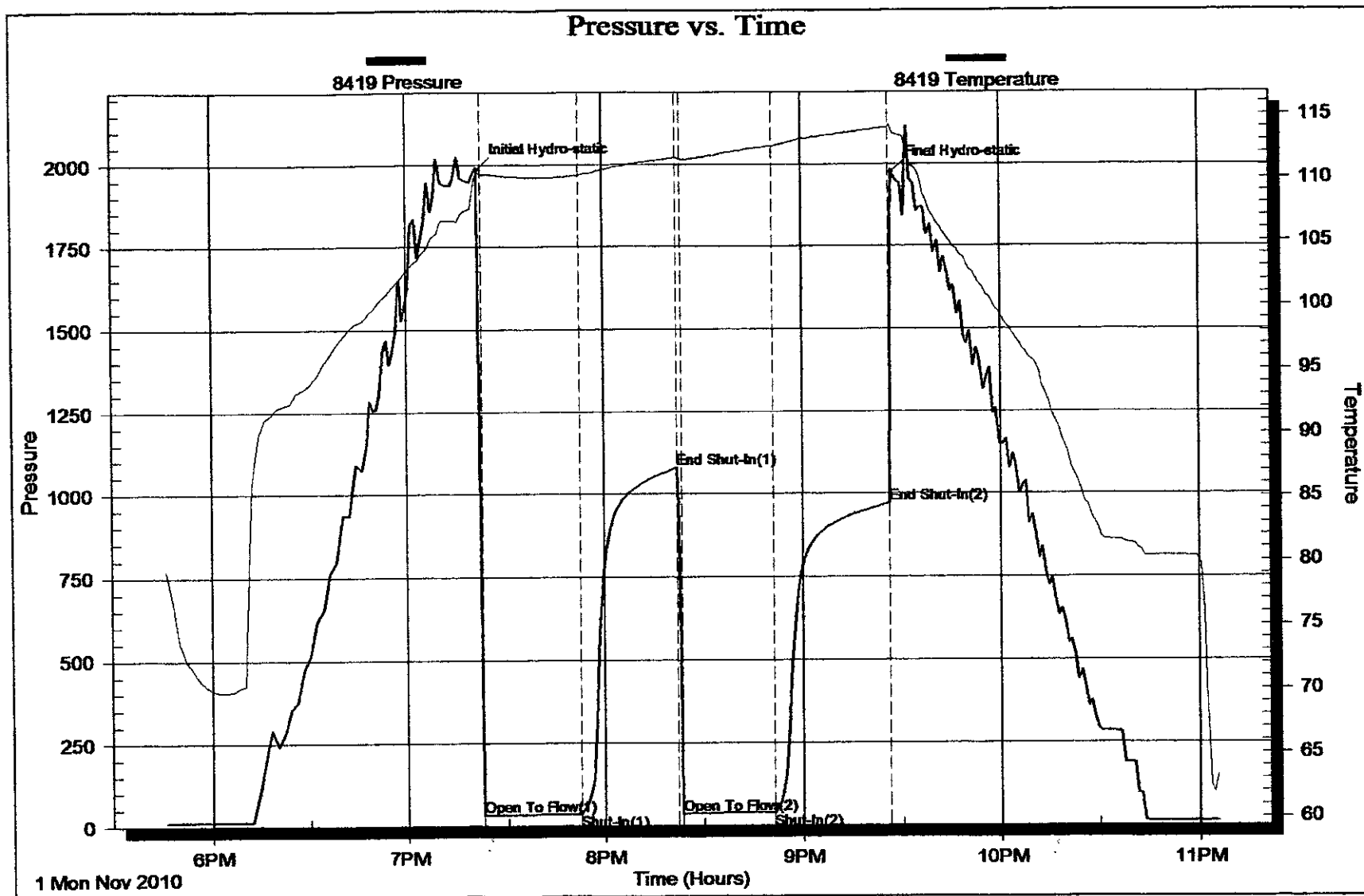
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 50.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 1500.00 ppm			
Filter Cake: 1.00 inches			

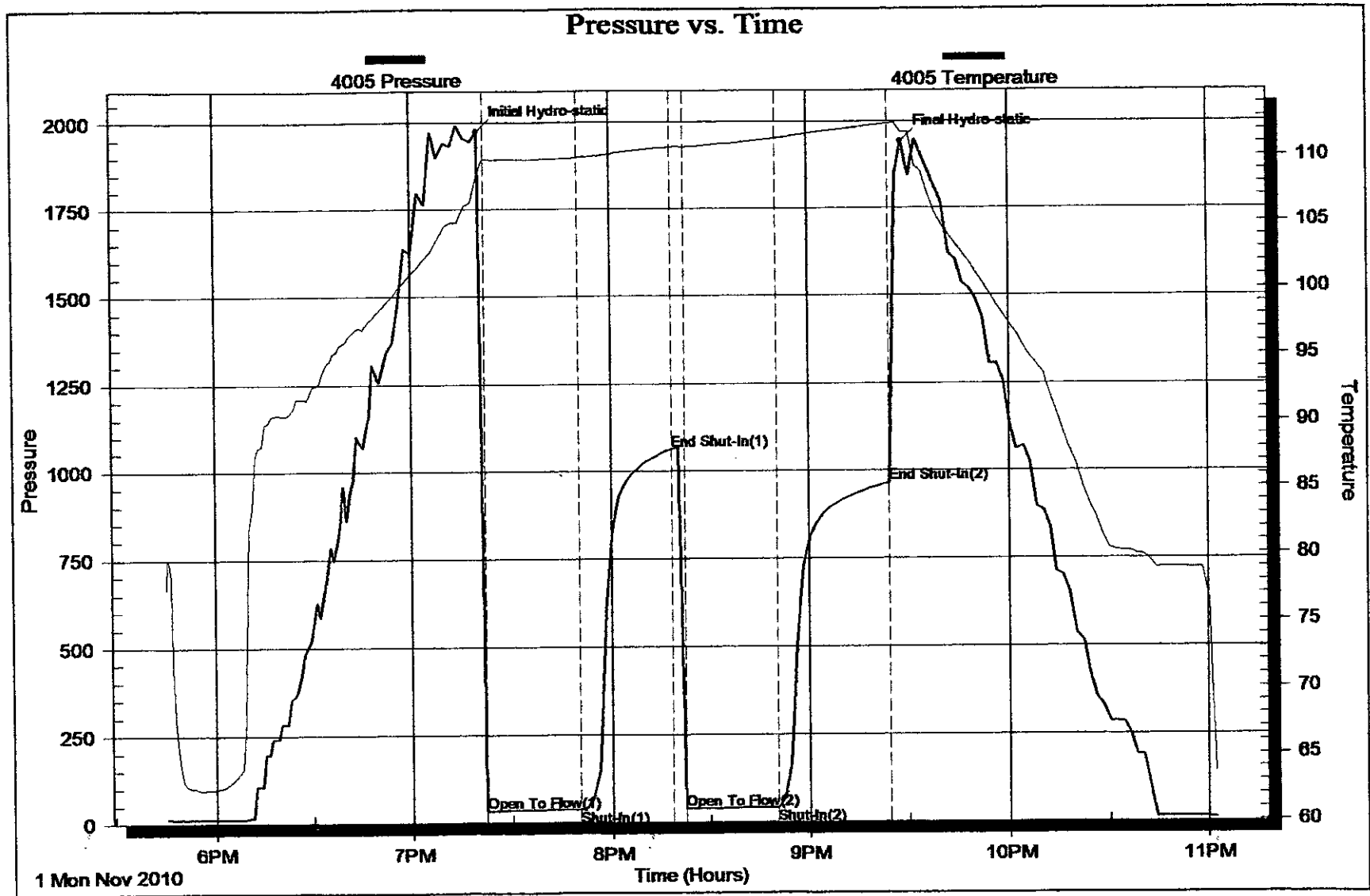
Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUDDY OIL 5%MUD 95%OIL	0.025

Total Length: 5.00 ft Total Volume: bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

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

ATTN: TED JOCHEMS

19-13W-31W

CAMPBELL 19 ABC #1

Start Date: 2010.11.02 @ 12:40:00

End Date: 2010.11.02 @ 19:25:00

Job Ticket #: 16072 DST #: 3

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

Printed: 2010.11.09 @ 10:37:50

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

19-13W-31W

DST # 3

LKC "H ZONE"

2010.11.02



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 16072

DST#: 3

ATTN: TED JOCHEMS

Test Start: 2010.11.02 @ 12:40:00

GENERAL INFORMATION:

Formation: LKC "H ZONE"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:28:00

Time Test Ended: 19:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY-75

Interval: 4099.00 ft (KB) To 4129.00 ft (KB) (TVD)

Total Depth: 4129.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2920.00 ft (KB)

2910.00 ft (CF)

KB to GRV/CF: 10.00 ft

Serial #: 8419

Inside

Press@RunDepth: 254.60 psia @ 4125.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.11.02

End Date:

2010.11.02

Last Calib.: 2010.11.02

Start Time: 12:41:00

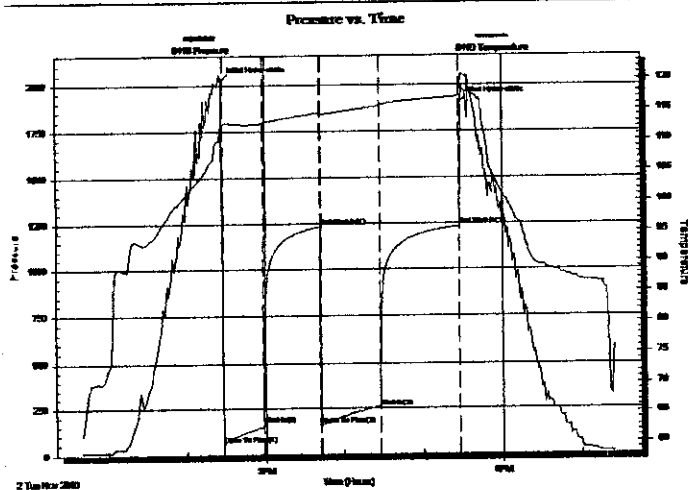
End Time:

19:25:00

Time On Btrr: 2010.11.02 @ 14:27:00

Time Off Btrr: 2010.11.02 @ 17:28:30

TEST COMMENT: 30/INITIAL OPEN:WEAK BLOW BUILT 3 INCHES INTO BUCKET IN 30 MINUTES
45/INITIAL SHUT IN:NO BLOW BACK
45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 30 MINUTES
60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2024.45	112.33	Initial Hydro-static
1	53.20	112.59	Open To Flow (1)
32	167.81	112.80	Shut-In(1)
75	1232.82	114.46	End Shut-In(1)
76	160.77	114.11	Open To Flow (2)
121	254.60	115.63	Shut-In(2)
181	1232.55	117.16	End Shut-In(2)
182	1905.69	120.31	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	MUDDY WATER CUT OIL	1.40
0.00	5%OIL 40%MUD 55%WATER	0.00
95.00	MUDDY OIL 40%MUD 60%OIL	0.47
190.00	CLEAN GASSEY OIL 100%	0.93
0.00	CHLORIDES 45,000	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

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 16072

DST#: 3

ATTN: TED JOCHEMS

Test Start: 2010.11.02 @ 12:40:00

GENERAL INFORMATION:

Formation: LKC "H ZONE"

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:28:00

Time Test Ended: 19:25:00

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY-75

Interval: 4099.00 ft (KB) To 4129.00 ft (KB) (TVD)

Total Depth: 4129.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2920.00 ft (KB)

2910.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 4005

Outside

Press@RunDepth: 1230.98 psia @ 4126.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.11.02

End Date: 2010.11.02

Last Calib.: 2010.11.02

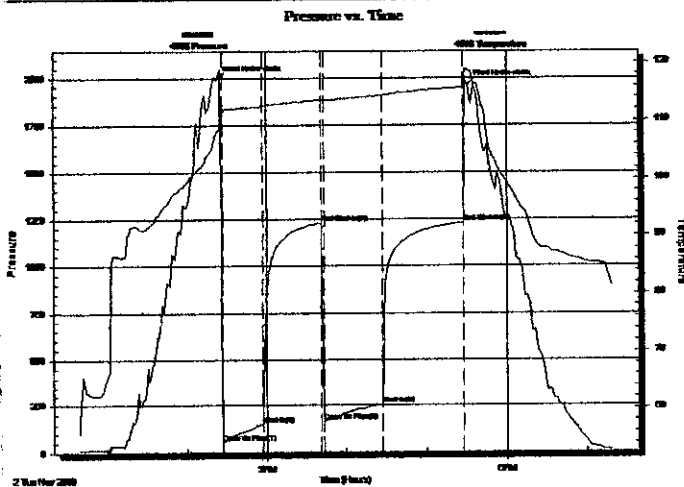
Start Time: 12:40:01

End Time: 19:18:10

Time On Btm: 2010.11.02 @ 14:23:09

Time Off Btm: 2010.11.02 @ 17:31:10

TEST COMMENT: 30/INITIAL OPEN:WEAK BLOW BUILT 3 INCHES INTO BUCKET IN 30 MINUTES
45/INITIAL SHUT IN:NO BLOW BACK
45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 30 MINUTES
60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

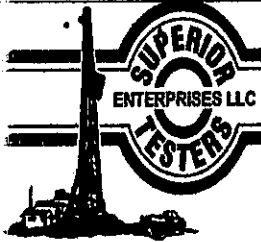
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	1990.82	108.37	Initial Hydro-static
5	52.51	111.28	Open To Flow (1)
35	152.39	112.39	Shut-In(1)
79	1229.34	113.47	End Shut-In(1)
81	165.38	113.42	Open To Flow (2)
125	256.30	114.31	Shut-In(2)
185	1230.98	115.61	End Shut-In(2)
189	1960.62	118.58	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
285.00	MUDDY WATER CUT OIL	1.40
0.00	5%OIL 40%MUD 55%WATER	0.00
95.00	MUDDY OIL 40%MUD 60%OIL	0.47
190.00	CLEAN GASSEY OIL 100%	0.93
0.00	CHLORIDES 45,000	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: TED JOCHEMS

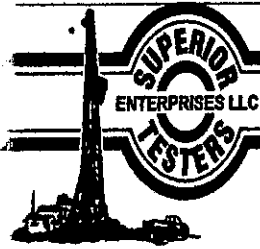
CAMPBELL 19 ABC #1
19-13W-31W
 Job Ticket: 16072 DST#: 3
 Test Start: 2010.11.02 @ 12:40:00

Tool Information

Drill Pipe:	Length: 3509.00 ft	Diameter: 3.80 inches	Volume: 49.22 bbl	Tool Weight: 1000.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 20000.00 lb
Drill Collar:	Length: 578.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 87000.00 lb
			Total Volume: 52.06 bbl	Tool Chased 3.00 ft
Drill Pipe Above KB:	11.00 ft			String Weight: Initial 78000.00 lb
Depth to Top Packer:	4099.00 ft			Final 78000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	30.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4077.00	
Shut-in Tool	5.00			4082.00	
Hydraulic Tool	5.00			4087.00	
Safety Joint	2.00			4089.00	
Packer	5.00			4094.00	23.00 Bottom Of Top Packer
Packer	5.00			4099.00	
Perforations	25.00			4124.00	
Recorder	1.00	8419	Inside	4125.00	
Recorder	1.00	4005	Outside	4126.00	
Bullnose	3.00			4129.00	30.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 16072

DST#: 3

ATTN: TED JOCHEMS

Test Start: 2010.11.02 @ 12:40:00

Mud and Cushion Information

Mud Type: Gel Chem
Mud Weight: 10.00 lb/gal
Viscosity: 58.00 sec/qt
Water Loss: 7.78 in³
Resistivity: ohm.m
Salinity: 1800.00 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

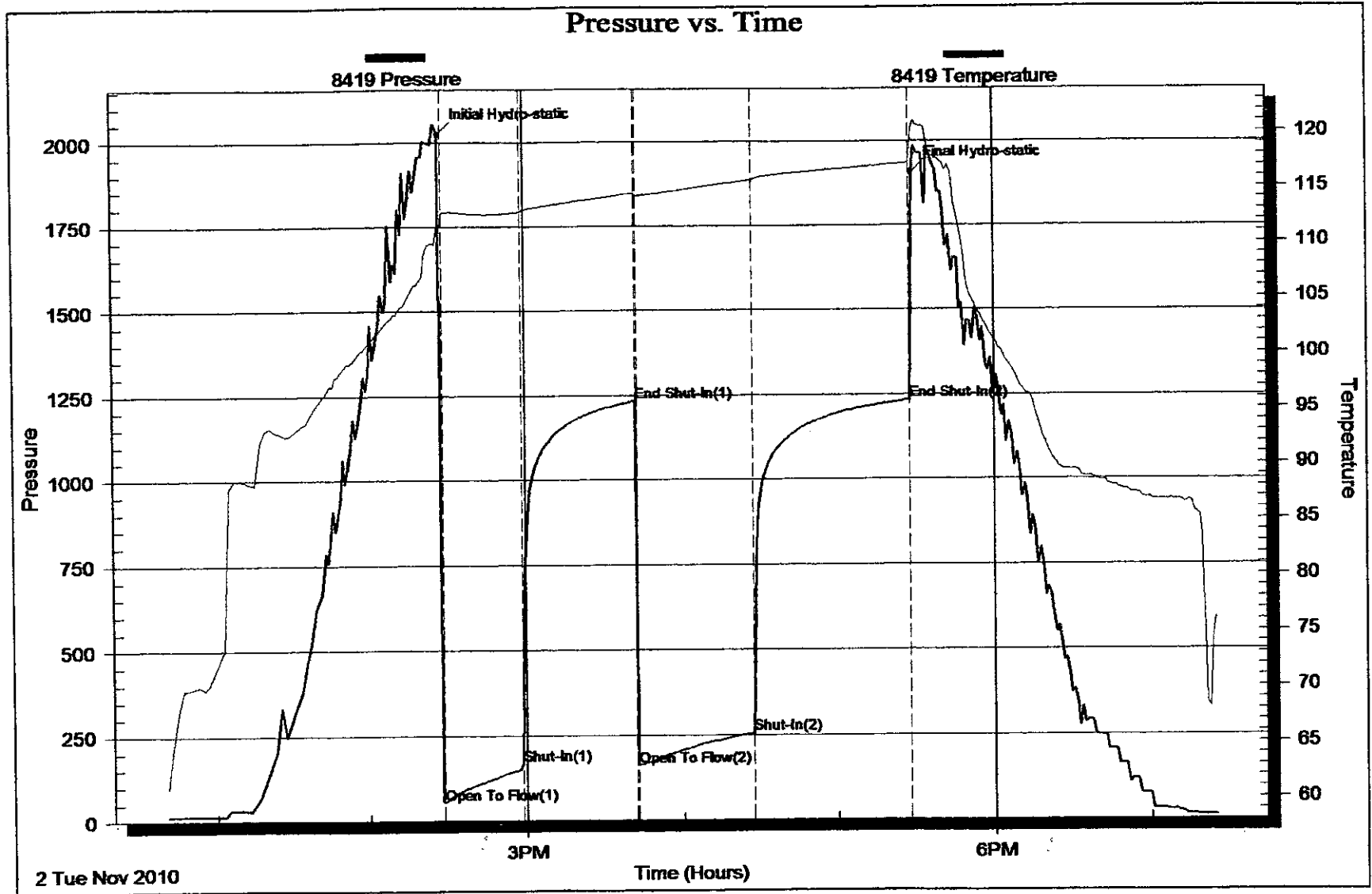
Recovery Information

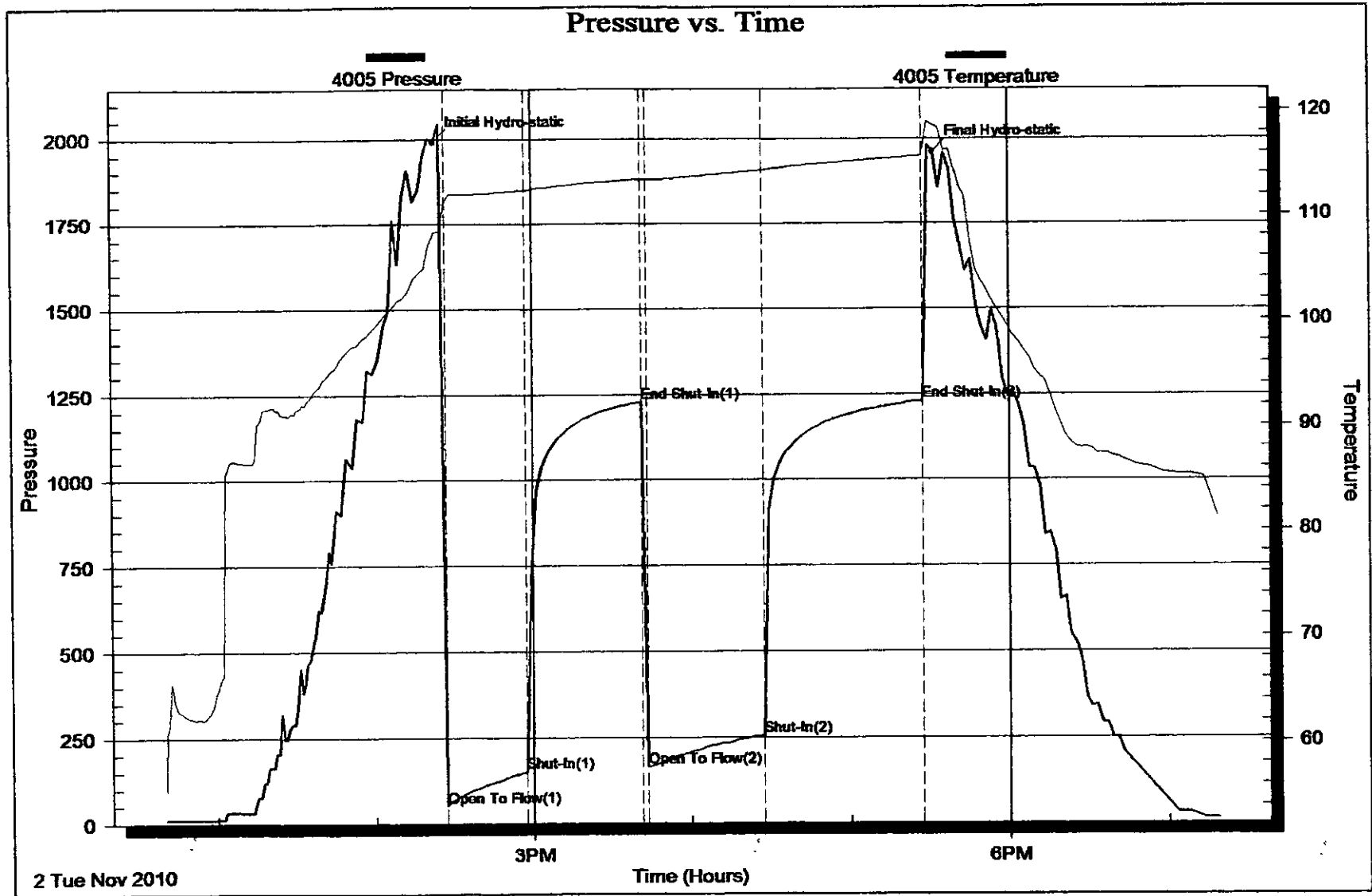
Recovery Table

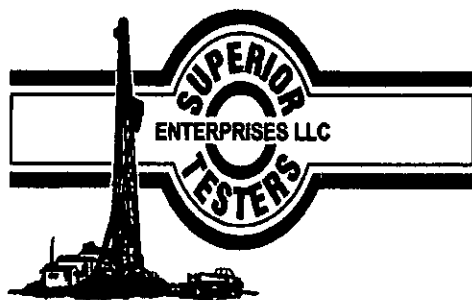
Length ft	Description	Volume bbl
285.00	MUDDY WATER CUT OIL	1.402
0.00	5%OIL 40%MUD 55%WATER	0.000
95.00	MUDDY OIL 40%MUD 60%OIL	0.467
190.00	CLEAN GASSEY OIL 100%	0.934
0.00	CHLORIDES 45,000	0.000
0.00	RESISTIVITY .1 @ 76 DEGREES	0.000

Total Length: 570.00 ft Total Volume: 2.803 bbl

Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments: CHLORIDES 45,000







DRILL STEM TEST REPORT

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

ATTN: TED JOCHEMS

19-13W-31W

CAMPBELL 19 ABC #1

Start Date: 2010.11.03 @ 05:00:00

End Date: 2010.11.03 @ 12:59:30

Job Ticket #: 16073 DST #: 4

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

Printed: 2010.11.09 @ 10:35:15

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

19-13W-31W

DST # 4

LKC " I ZONE "

2010.11.03



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 16073

DST#: 4

ATTN: TED JOCHEMS

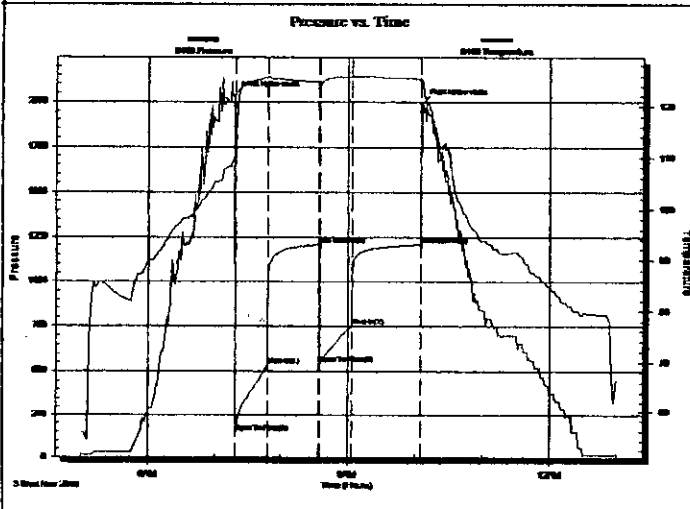
Test Start: 2010.11.03 @ 05:00:00

GENERAL INFORMATION:

Formation: **LKC " I ZONE "**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 07:18:30
 Tester: JARED SCHECK
 Time Test Ended: 12:59:30
 Unit No: 3320-SCOTT CITY -75
 Interval: **4133.00 ft (KB) To 4159.00 ft (KB) (TVD)**
 Reference Elevations: 2920.00 ft (KB)
 Total Depth: **4159.00 ft (KB) (TVD)**
 2910.00 ft (CF)
 Hole Diameter: 7.88 inches
 Hole Condition: Fair
 KB to GR/CF: 10.00 ft

Serial #: 8419 Inside
 Press@RunDepth: 750.90 psia @ 4155.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.11.03 End Date: 2010.11.03 Last Calib.: 2010.11.03
 Start Time: 05:01:00 End Time: 12:59:30 Time On Btrr: 2010.11.03 @ 07:17:30
 Time Off Btrr: 2010.11.03 @ 10:06:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
 45/INITIAL SHUT IN :BOTTOM OF BUCKET IN 3 MINUTES
 30/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
 60/FINAL SHUT IN:BOTTOM OF BUCKET



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2036.61	109.59	Initial Hydro-static
1	147.90	110.84	Open To Flow (1)
31	533.67	125.61	Shut-in(1)
76	1206.23	124.81	End Shut-in(1)
77	546.74	124.22	Open To Flow (2)
106	750.90	125.86	Shut-in(2)
168	1206.20	125.40	End Shut-in(2)
169	1995.13	124.82	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
570.00	WATER 10% MUD 90% WATER	2.80
190.00	WATER 10% MUD 90% WATER	2.59
285.00	OILY WATER 50% OIL 50% WATER	4.00
760.00	SLIGHTLY GASSY WATER CUT OIL	10.66
0.00	10% GAS 20% WATER 70% OIL	0.00
475.00	GAS IN PIPE 100% GAS	6.66

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: TED JOCHEMS

CAMPBELL 19 ABC #1
 19-13W-31W
 Job Ticket: 16073 DST#: 4
 Test Start: 2010.11.03 @ 05:00:00

GENERAL INFORMATION:

Formation: **LKC " I ZONE "**
 Deviated: No Whipstock ft (KB)
 Time Tool Opened: 07:18:30
 Time Test Ended: 12:59:30

Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-SCOTT CITY -75

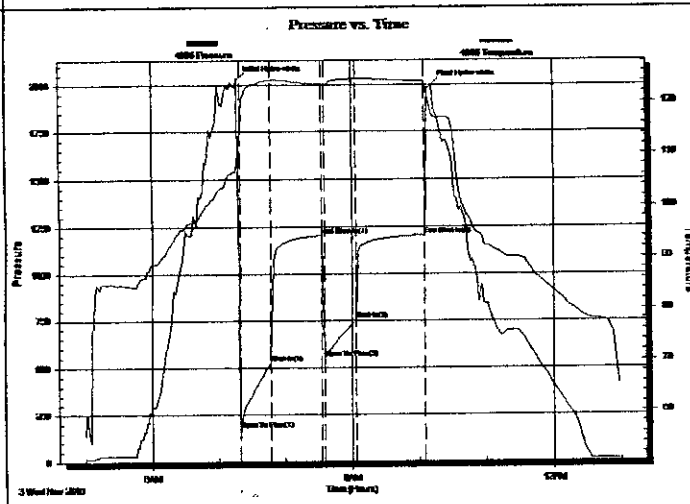
Interval: **4133.00 ft (KB) To 4159.00 ft (KB) (TVD)**
 Total Depth: 4159.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2920.00 ft (KB)
 2910.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 4005 Outside

Press@RunDepth: 1205.96 psia @ 4156.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.11.03 End Date: 2010.11.03 Last Calib.: 2010.11.03
 Start Time: 05:00:01 End Time: 12:58:10 Time On Btm: 2010.11.03 @ 07:17:10
 Time Off Btm: 2010.11.03 @ 10:11:10

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
 45/INITIAL SHUT IN :BOTTOM OF BUCKET IN 3 MINUTES
 30/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 3 MINUTES
 60/FINAL SHUT IN:BOTTOM OF BUCKET



PRESSURE SUMMARY

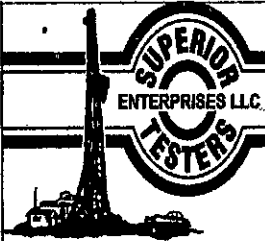
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2030.28	108.21	Initial Hydro-static
2	174.04	114.61	Open To Flow (1)
30	526.54	124.26	Shut-In(1)
76	1204.32	123.39	End Shut-In(1)
78	551.32	123.15	Open To Flow (2)
106	750.79	124.54	Shut-In(2)
168	1205.96	123.96	End Shut-In(2)
174	1996.69	117.33	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
570.00	WATER 10%MUD 90%WATER	2.80
190.00	WATER 10%MUD 90%WATER	2.59
285.00	OILY WATER 50% OIL 50%WATER	4.00
760.00	SLIGHTLEY GASSY WATER CUT OIL	10.66
0.00	10%GAS 20%WATER 70%OIL	0.00
475.00	GAS IN PIPE 100%GAS	6.66

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: TED JOCHEMS

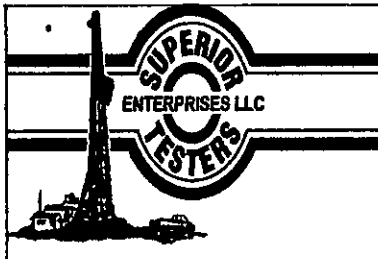
CAMPBELL 19 ABC #1
19-13W-31W
 Job Ticket: 16073 DST#: 4
 Test Start: 2010.11.03 @ 05:00:00

Tool Information

Drill Pipe:	Length: 3542.00 ft	Diameter: 3.80 inches	Volume: 49.68 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: 578.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 52.52 bbl</u>	Tool Chased 2.00 ft
Drill Pipe Above KB:	10.00 ft			String Weight: Initial 79000.00 lb
Depth to Top Packer:	4133.00 ft			Final 81000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	49.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		
Tool Comments:				

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4111.00	
Shut-In Tool	5.00			4116.00	
Hydrolic Tool	5.00			4121.00	
Safety Joint	2.00			4123.00	
Packer	5.00			4128.00	23.00 Bottom Of Top Packer
Packer	5.00			4133.00	
Perforations	21.00			4154.00	
Recorder	1.00	8419	Inside	4155.00	
Recorder	1.00	4005	Outside	4156.00	
Bullnose	3.00			4159.00	26.00 Bottom Packers & Anchor
Total Tool Length:	49.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

CAMPBELL 19 ABC #1
 19-13W-31W
 Job Ticket: 16073 DST#: 4
 Test Start: 2010.11.03 @ 05:00:00

Mud and Cushion Information

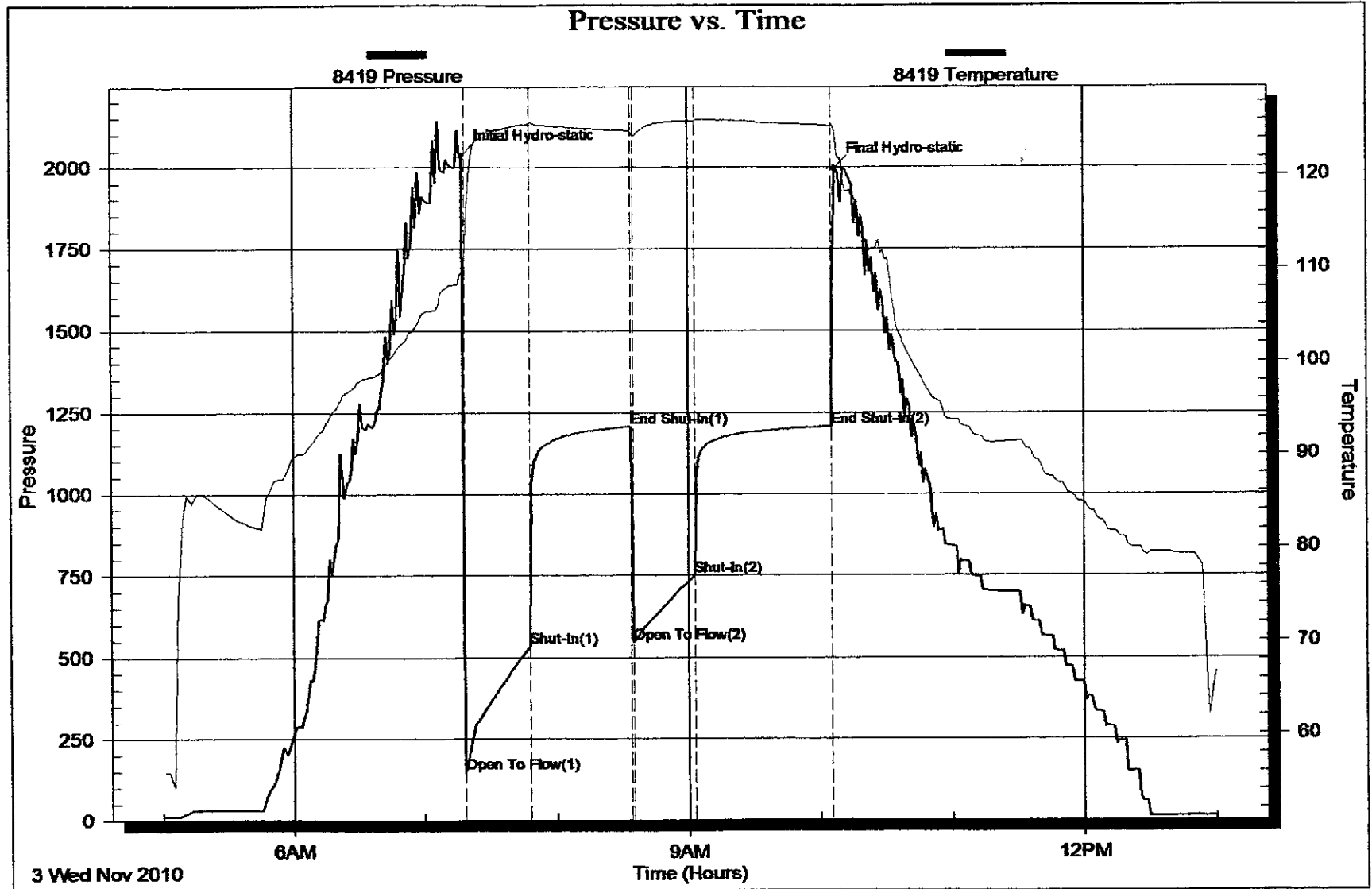
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.79 in ²	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2900.00 ppm			
Filter Cake: 1.00 inches			

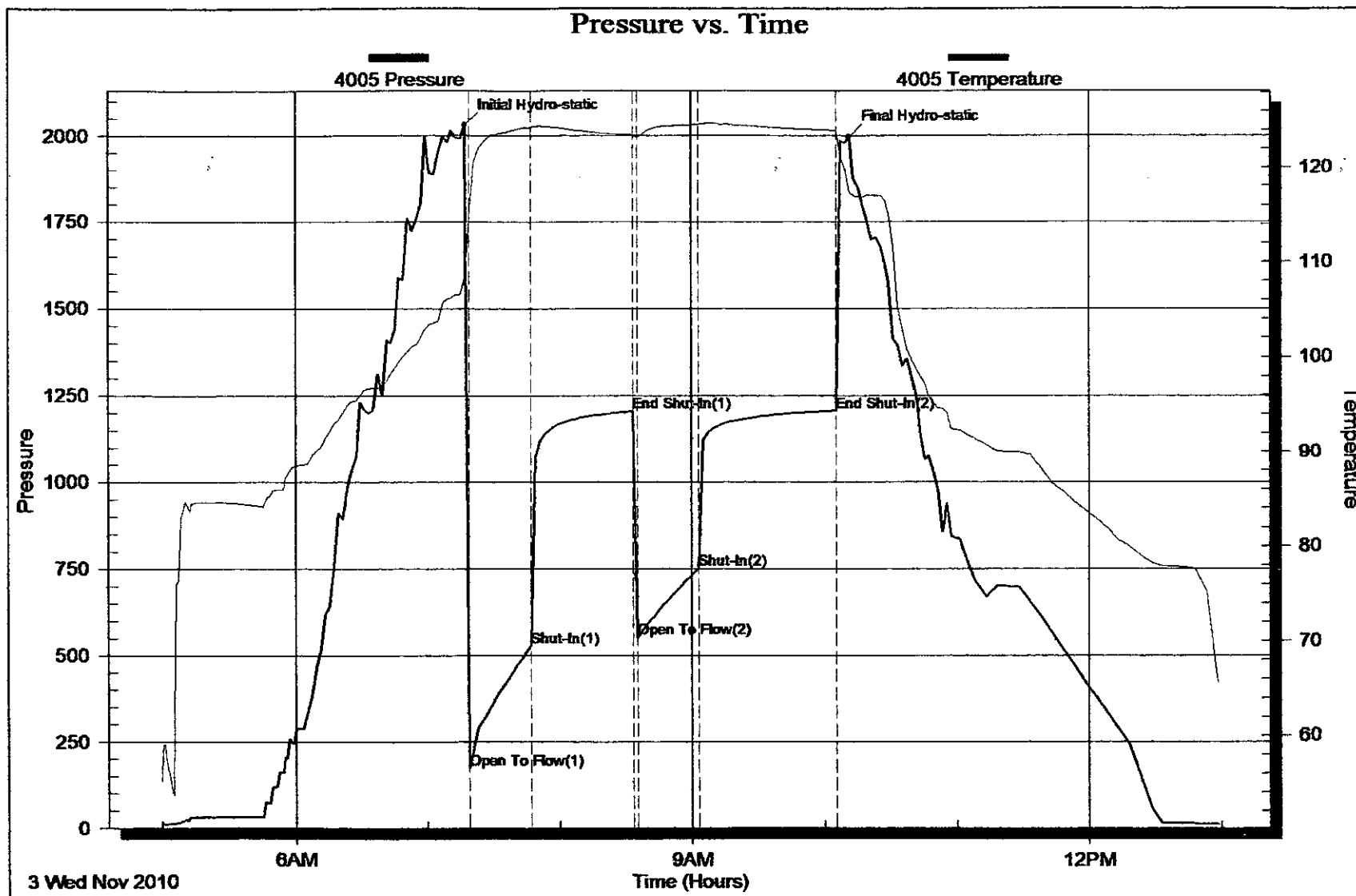
Recovery Information

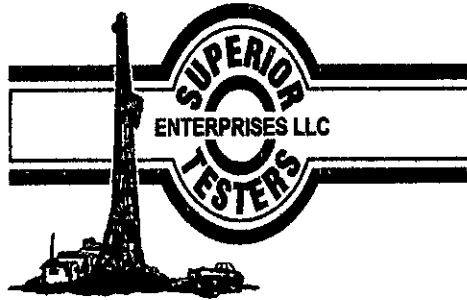
Recovery Table

Length ft	Description	Volume bbl
570.00	WATER 10%MUD 90%WATER	2.803
190.00	WATER 10%MUD 90%WATER	2.592
285.00	OILY WATER 50% OIL 50%WATER	3.998
760.00	SLIGHTLEY GASSY WATER CUT OIL	10.661
0.00	10%GAS 20%WATER 70%OIL	0.000
475.00	GAS IN PIPE 100%GAS	6.663
0.00	CHLORIDES 60,000	0.000
0.00	RESISTIVITY .06 @76 DEGREES	0.000

Total Length: 2280.00 ft Total Volume: 26.717 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

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

ATTN: TED JOCHEMS

19-13W-31W

CAMPBELL 19 ABC #1

Start Date: 2010.11.04 @ 20:45:00

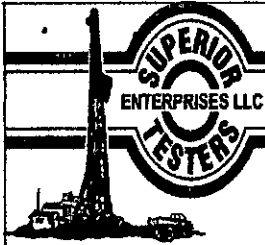
End Date: 2010.11.05 @ 03:34:30

Job Ticket #: 16074 DST #: 5

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

Printed: 2010.11.09 @ 10:26:36

RITCHIE EXPLORATION INC
CAMPBELL 19 ABC #1
19-13W-31W
DST # 5
LKC "J.ZONE"
2010.11.04



DRILL STEM TEST REPORT

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

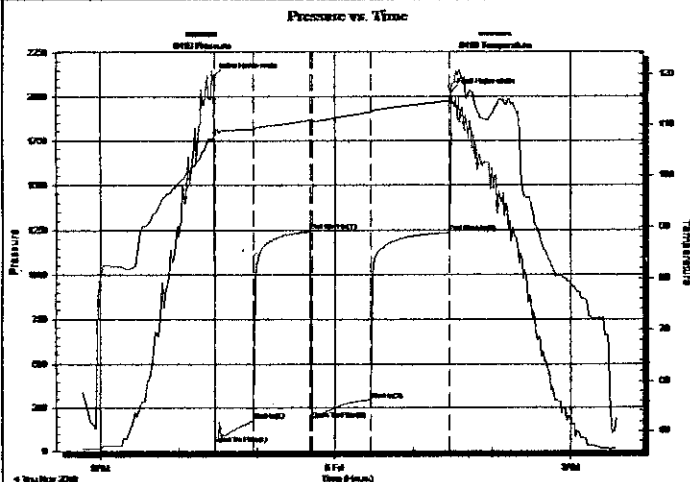
CAMPBELL 19 ABC #1
19-13W-31W
 Job Ticket: 16074 **DST#: 5**
 Test Start: 2010.11.04 @ 20:45:00

GENERAL INFORMATION:

Formation: **LKC "J ZONE"**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 22:27:30
 Time Test Ended: 03:34:30
 Interval: **4159.00 ft (KB) To 4185.00 ft (KB) (TVD)**
 Total Depth: 4185.00 ft (KB) (TVD)
 Hole Diameter: 7.88 inches Hole Condition: Poor
 Test Type: Conventional Bottom Hole (Initial)
 Tester: JARED SCHECK
 Unit No: 3320-SCOTT CITY - 75
 Reference Elevations: 2920.00 ft (KB)
 2910.00 ft (CF)
 KB to GR/CF: 10.00 ft

Serial #: 8419 Inside
 Press@RunDepth: 298.93 psia @ 4181.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.11.04 End Date: 2010.11.05 Last Calib.: 2010.11.04
 Start Time: 20:46:00 End Time: 03:34:30 Time On Btm: 2010.11.04 @ 22:27:00
 Time Off Btm: 2010.11.05 @ 01:29:00

TEST COMMENT: 30/INITIAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 25 MINUTES
 45/INITIAL SHUT IN:NO BLOW BACK
 45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 33 MINUTES
 60/FINAL SHUT IN:NOBLOW BACK



PRESSURE SUMMARY

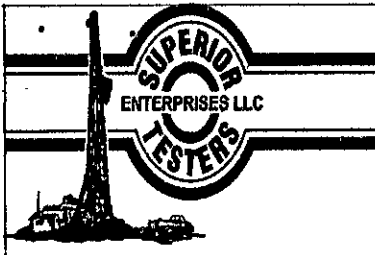
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2114.65	107.48	Initial Hydro-static
1	43.22	107.83	Open To Flow (1)
31	180.35	109.03	Shut-in(1)
75	1242.32	110.84	End Shut-in(1)
76	184.72	110.60	Open To Flow (2)
121	298.93	112.41	Shut-in(2)
181	1234.76	114.62	End Shut-in(2)
182	2023.95	117.32	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	WATER 5%MUD 95%WATER	1.87
95.00	SLIGHTLEY OILY MUD CUT WATER	0.47
0.00	5%OIL 20%MUD 7%WATER	0.00
95.00	SLIGHTLEY OILY MUD CUT WATER	0.47
0.00	5%OIL 40%MUD 55%WATER	0.00
0.00	CHLORIDES 57,000	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 WITCHITA KS
 67278+3188
 ATTN: TED JOCHEMS

CAMPBELL 19 ABC #1
19-13W-31W
 Job Ticket: 16074 DST#: 5
 Test Start: 2010.11.04 @ 20:45:00

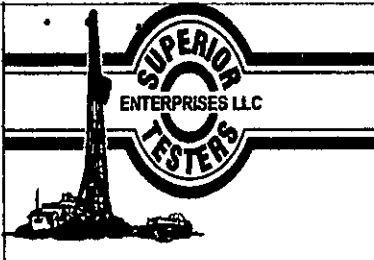
Tool Information

Drill Pipe:	Length: 3572.00 ft	Diameter: 3.80 inches	Volume: 50.11 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: 578.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 90000.00 lb
			Total Volume: 52.95 bbl	Tool Chased 1.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4159.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	26.00 ft			
Tool Length:	47.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description

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	
Hydraulic Tool	5.00			4149.00	
Packer	5.00			4154.00	21.00 Bottom Of Top Packer
Packer	5.00			4159.00	
Perforations	21.00			4180.00	
Recorder	1.00	8419	Inside	4181.00	
Recorder	1.00	4005	Outside	4182.00	
Bullnose	3.00			4185.00	26.00 Bottom Packers & Anchor
Total Tool Length:	47.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

CAMPBELL 19 ABC #1
 19-13W-31W
 Job Ticket: 16074 DST#: 5
 Test Start: 2010.11.04 @ 20:45:00

Mud and Cushion Information

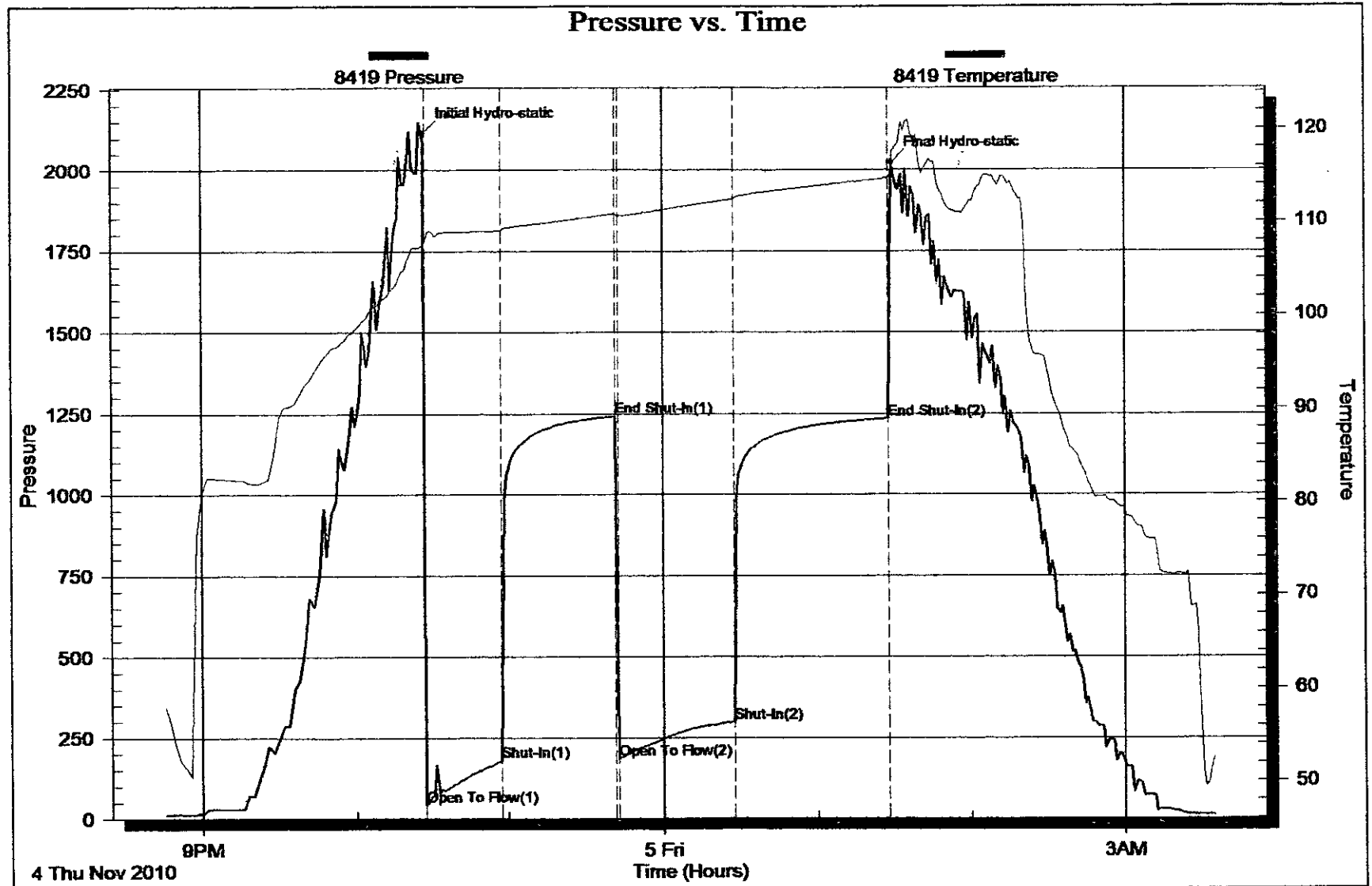
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 56.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.78 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 2900.00 ppm			
Filter Cake: 1.00 inches			

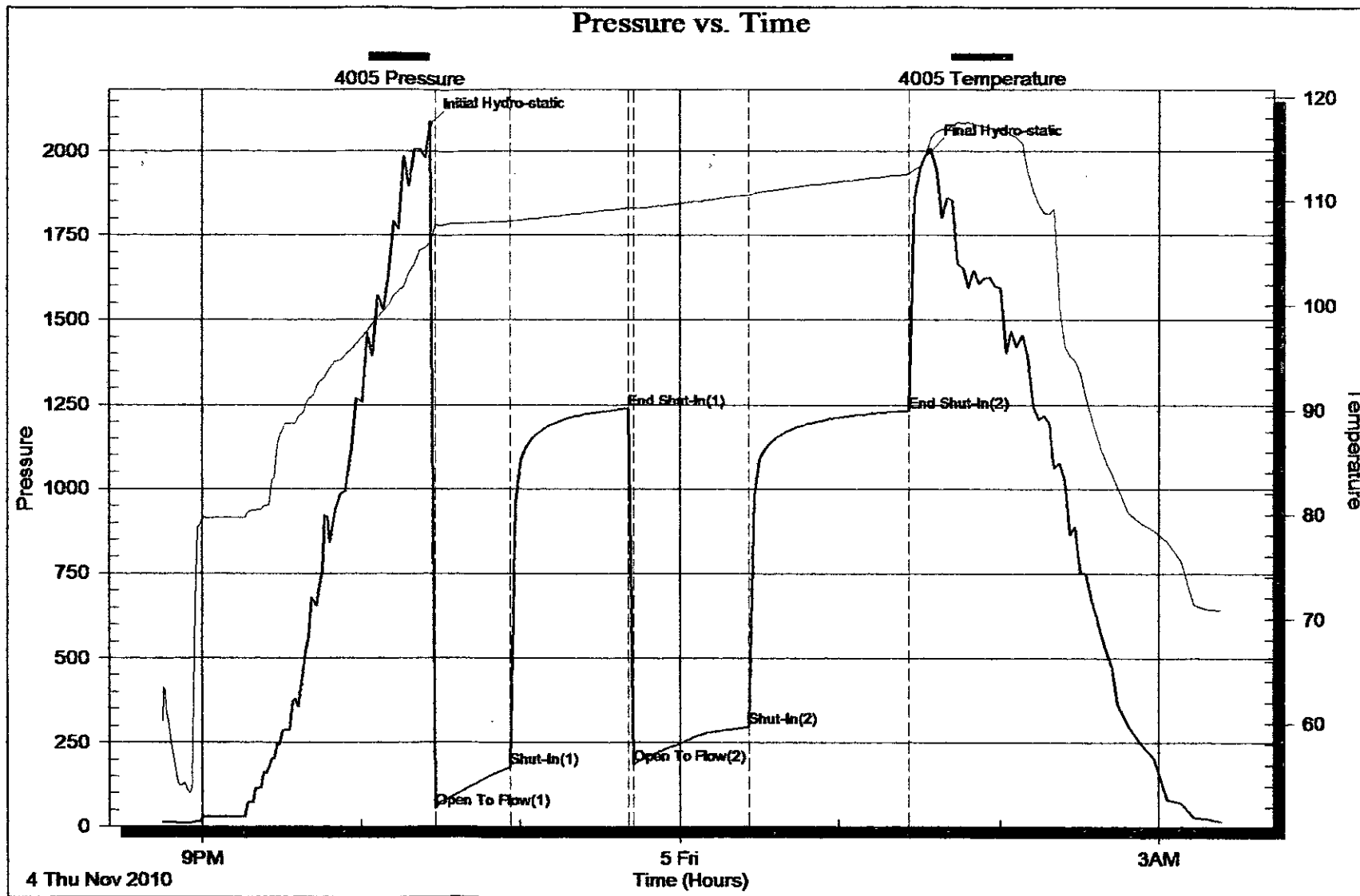
Recovery Information

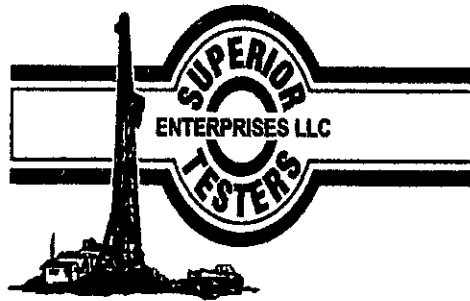
Recovery Table

Length ft	Description	Volume bbl
360.00	WATER 5%MUD 95%WATER	1.869
95.00	SLIGHTLEY OILYMUD CUT WATER	0.467
0.00	5%OIL 20%MUD 7%WATER	0.000
95.00	SLIGHTLEY OILY MUD CUT WATER	0.467
0.00	5%OIL 40%MUD 55%WATER	0.000
0.00	CHLORIDES 57,000	0.000
0.00	RESISTIVITY .08@76 DEGREES	0.000

Total Length: 570.00 ft Total Volume: 2.803 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

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

ATTN: TED JOCHEMS

19-13W-31W

CAMPBELL 19 ABC #1

Start Date: 2010.11.04 @ 12:20:00

End Date: 2010.11.04 @ 19:20:30

Job Ticket #: 16075 DST #: 6

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

Printed: 2010.11.09 @ 10:34:56

RITCHIE EXPLORATION INC

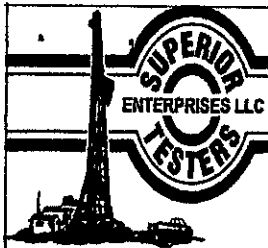
CAMPBELL 19 ABC #1

19-13W-31W

DST # 6

LKC "K ZONE"

2010.11.04



DRILL STEM TEST REPORT

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

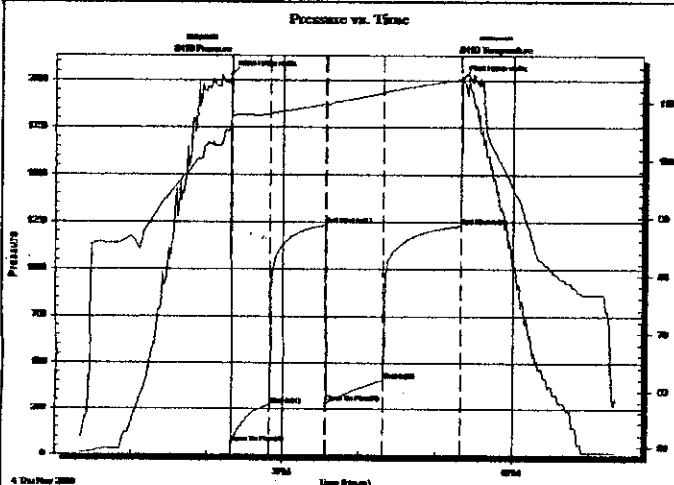
CAMPBELL 19 ABC #1
19-13W-31W
 Job Ticket: 16075 DST#: 6
 Test Start: 2010.11.04 @ 12:20:00

GENERAL INFORMATION:

Formation: **LKC "KZONE"**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 14:19:30 Tester: JARED SCHECK
 Time Test Ended: 19:20:30 Unit No: 3320-SCOTT CITY-75
 Interval: **4188.00 ft (KB) To 4220.00 ft (KB) (TVD)** Reference Elevations: 2920.00 ft (KB)
 Total Depth: 4220.00 ft (KB) (TVD) 2910.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8419 Inside
 Press@RunDepth: 411.37 psia @ 4214.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.11.04 End Date: 2010.11.04 Last Calib.: 2010.11.04
 Start Time: 12:21:00 End Time: 19:20:30 Time On Btm: 2010.11.04 @ 14:19:00
 Time Off Btm: 2010.11.04 @ 17:20:30

TEST COMMENT: 30/INITIAL OPEN:STRNG BLOW BUILT BOTTOM OF BUCKET IN 6 MINUTES
 45/INITIAL SHUT IN:BOTTOM OF BUCKET
 45/FINAL SHUTOPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 6 MINUTES
 60/FINAL SHUT IN:BOTTOM OF BUCKET



PRESSURE SUMMARY

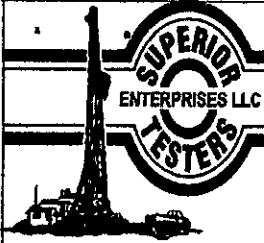
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2028.33	107.71	Initial Hydro-static
1	65.46	107.47	Open To Flow (1)
31	276.36	107.89	Shut-in(1)
75	1234.42	109.77	End Shut-in(1)
76	288.52	109.60	Open To Flow (2)
120	411.37	111.64	Shut-in(2)
181	1228.76	113.95	End Shut-in(2)
182	2010.21	113.26	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
380.00	SLIGHTLEY OILY MUD CUT WATER	1.87
0.00	3%OIL 5%MUD 92%WATER	0.00
190.00	SLIGHTLEY GASSY WATER CUT MUDDY	0.93
0.00	10%gas 105WATER 30%MUD 50%OIL	0.00
475.00	GASSY OIL 20%GAS 80%OIL	6.59
0.00	855 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: TED JOCHEVS

CAMPBELL 19 ABC #1
19-13W-31W
 Job Ticket: 16075 DST#: 6
 Test Start: 2010.11.04 @ 12:20:00

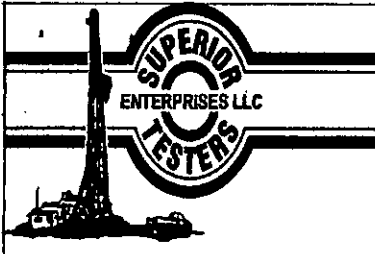
Tool Information

Drill Pipe:	Length: 3604.00 ft	Diameter: 3.80 inches	Volume: 50.55 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: 578.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose:	90000.00 lb
			Total Volume: 53.39 bbl	Tool Chased	0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial	80000.00 lb
Depth to Top Packer:	4188.00 ft			Final	80000.00 lb
Depth to Bottom Packer:	ft				
Interval between Packers:	30.00 ft				
Tool Length:	51.00 ft				
Number of Packers:	2	Diameter: 6.88 inches			

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4168.00	
Shut-In Tool	5.00			4173.00	
Hydrolic Tool	5.00			4178.00	
Packer	5.00			4183.00	21.00 Bottom Of Top Packer
Packer	5.00			4188.00	
Perforations	25.00			4213.00	
Recorder	1.00	8419	Inside	4214.00	
Recorder	1.00	4005	Outside	4215.00	
Bullnose	3.00			4218.00	30.00 Bottom Packers & Anchor
Total Tool Length:	51.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

CAMPBELL 19 ABC #1
19-13W-31W
 Job Ticket: 16075 DST#: 6
 Test Start: 2010.11.04 @ 12:20:00

Mud and Cushion Information

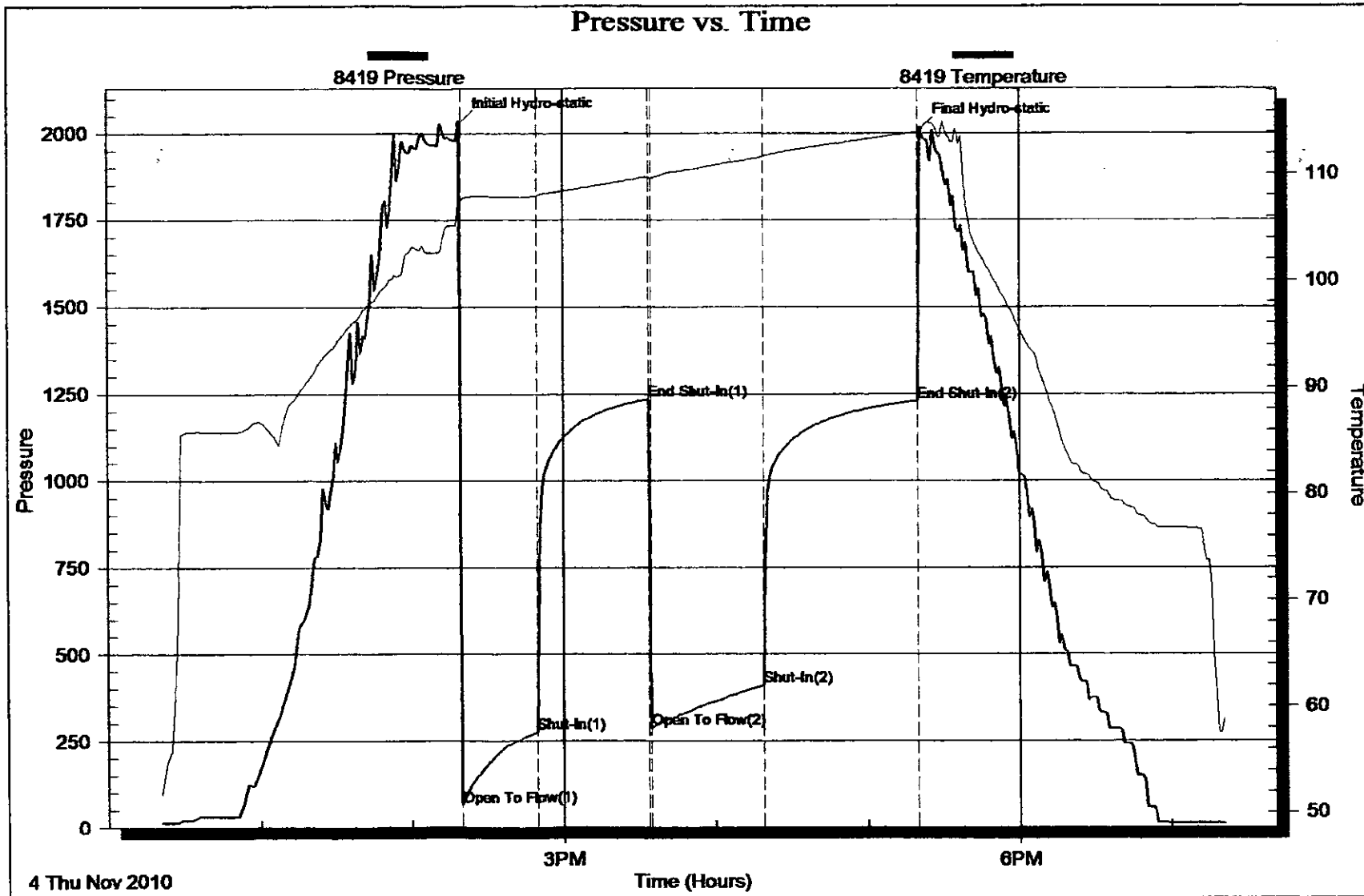
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.59 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3000.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
380.00	SLIGHTLEY OILY MUD CUT WATER	1.869
0.00	3%OIL 5%MJD 92%WATER	0.000
190.00	SLIGHTLEY GASSY WATER CUT MUDDY OIL	0.934
0.00	10%gas 105WATER 30%MJD 50%OIL	0.000
475.00	GASSY OIL 20%GAS 80%OIL	6.590
0.00	855 GAS IN PIPE	0.000
0.00	CHLORIDES	0.000
0.00	RESISTIVITY	0.000

Total Length: 1045.00 ft Total Volume: 9.393 bbl
 Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
 Laboratory Name: Laboratory Location:
 Recovery Comments:

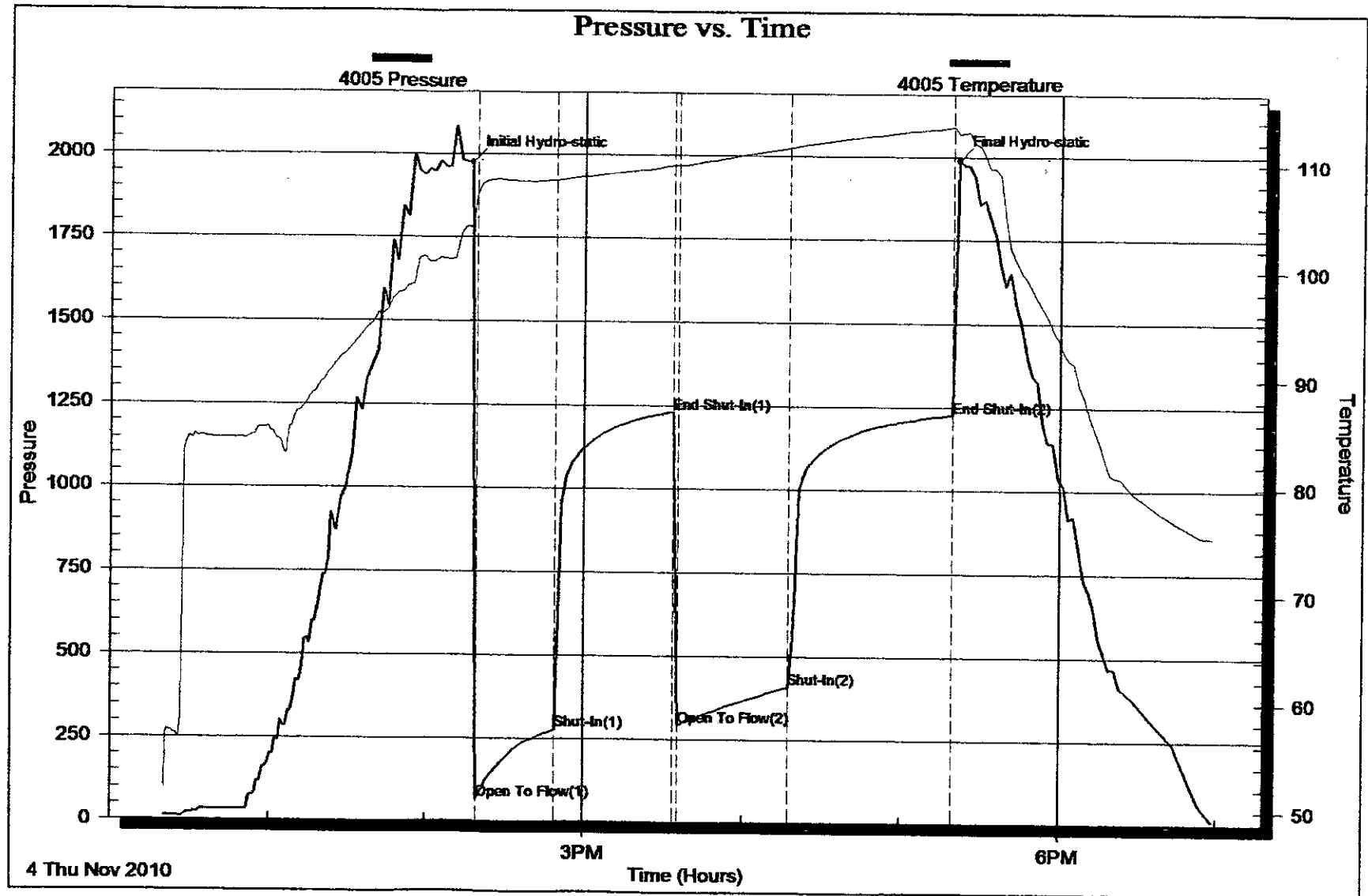


Serial #: 4005

Outside RITCHIE EXPLORATION INC

19-13W-31W

DST Test Number: 6





DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

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

ATTN: TED JOCHEMS

19-13W-31W

CAMPBELL 19 ABC #1

Start Date: 2010.11.06 @ 02:20:00

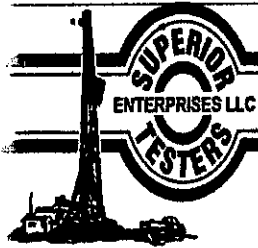
End Date: 2010.11.06 @ 10:24:30

Job Ticket #: 15676 DST #: 7

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

Printed: 2010.11.09 @ 10:34:15

RITCHIE EXPLORATION INC CAMPBELL 19 ABC #1 19-13W-31W DST # 7 PAWNEE-AMTRICK-FT SCO 2010.11.06



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 15676

DST#: 7

ATTN: TED JOCHEMS

Test Start: 2010.11.06 @ 02:20:00

GENERAL INFORMATION:

Formation: **PAWNEE-MYRICK-FT SCO**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:37:30

Time Test Ended: 10:24:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY -75

Interval: **4370.00 ft (KB) To 4440.00 ft (KB) (TVD)**

Total Depth: 4440.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Poor

Reference Elevations: 2920.00 ft (KB)

2910.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419

Inside

Press@RunDepth: 346.25 psia @ 4436.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.11.06 End Date: 2010.11.06

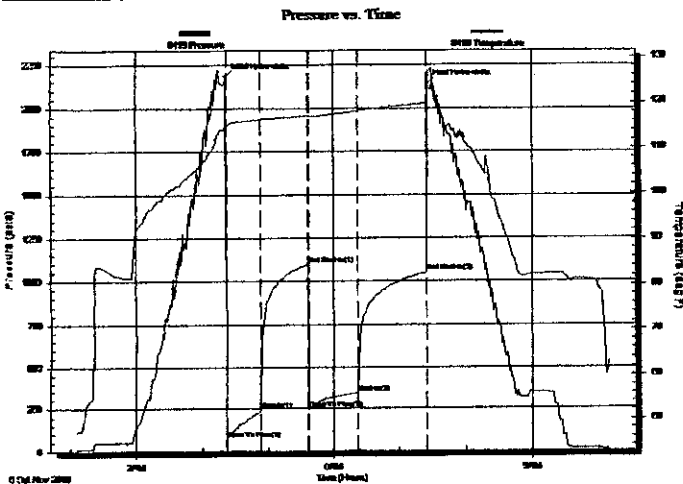
Last Calib.: 2010.11.06

Start Time: 02:06:00 End Time: 10:09:30

Time On Btrn: 2010.11.06 @ 04:21:30

Time Off Btrn: 2010.11.06 @ 07:25:30

TEST COMMENT: 30/INITIAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 22 MINUTES
45/INITIAL SHUT IN:NO BLOW BACK
45/FINAL OPEN:FAIR BLOW BUILT BOTTOM OF BUCKET IN 35 MINUTES
60/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

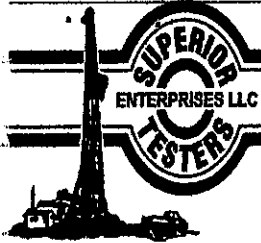
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2180.98	115.17	Initial Hydro-static
1	71.81	114.92	Open To Flow (1)
32	239.20	116.27	Shut-In(1)
76	1096.12	117.12	End Shut-In(1)
76	245.12	116.86	Open To Flow (2)
121	346.25	118.05	Shut-In(2)
183	1049.28	119.68	End Shut-In(2)
184	2134.60	123.53	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
200.00	MUDDY WATER 40%WATER 60% MUD	0.98
465.00	WATER 40%MUD 60%WATER	3.08
0.00	RESISTIVITY .1@76 DEGREES	0.00
0.00	CHLORIDES 40,000	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 15676

DST#: 7

ATTN: TED JOCHEMS

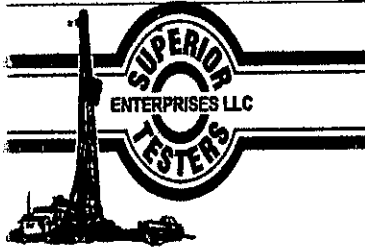
Test Start: 2010.11.06 @ 02:20:00

Tool Information

Drill Pipe:	Length: 3796.00 ft	Diameter: 3.80 inches	Volume: 53.25 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: 578.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 100000.0 lb
			Total Volume: 56.09 bbl	Tool Chased 3.00 ft
Drill Pipe Above KB:	25.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4370.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	70.00 ft			
Tool Length:	91.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4350.00	
Shut-In Tool	5.00			4355.00	
Hydrolic Tool	5.00			4360.00	
Recorder	5.00			4365.00	
Packer	5.00			4370.00	21.00 Bottom Of Top Packer
Change Over Sub	0.75			4370.75	
Drill Pipe	31.50			4402.25	
Change Over Sub	0.75			4403.00	
Perforations	32.00			4435.00	
Recorder	1.00	8419	Inside	4436.00	
Recorder	1.00	4005	Outside	4437.00	
Bullnose	3.00			4440.00	70.00 Anchor Tool
Total Tool Length:	91.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

CAMPBELL 19 ABC #1
19-13W-31W
Job Ticket: 15676 DST#: 7
Test Start: 2010.11.06 @ 02:20:00

Mud and Cushion Information

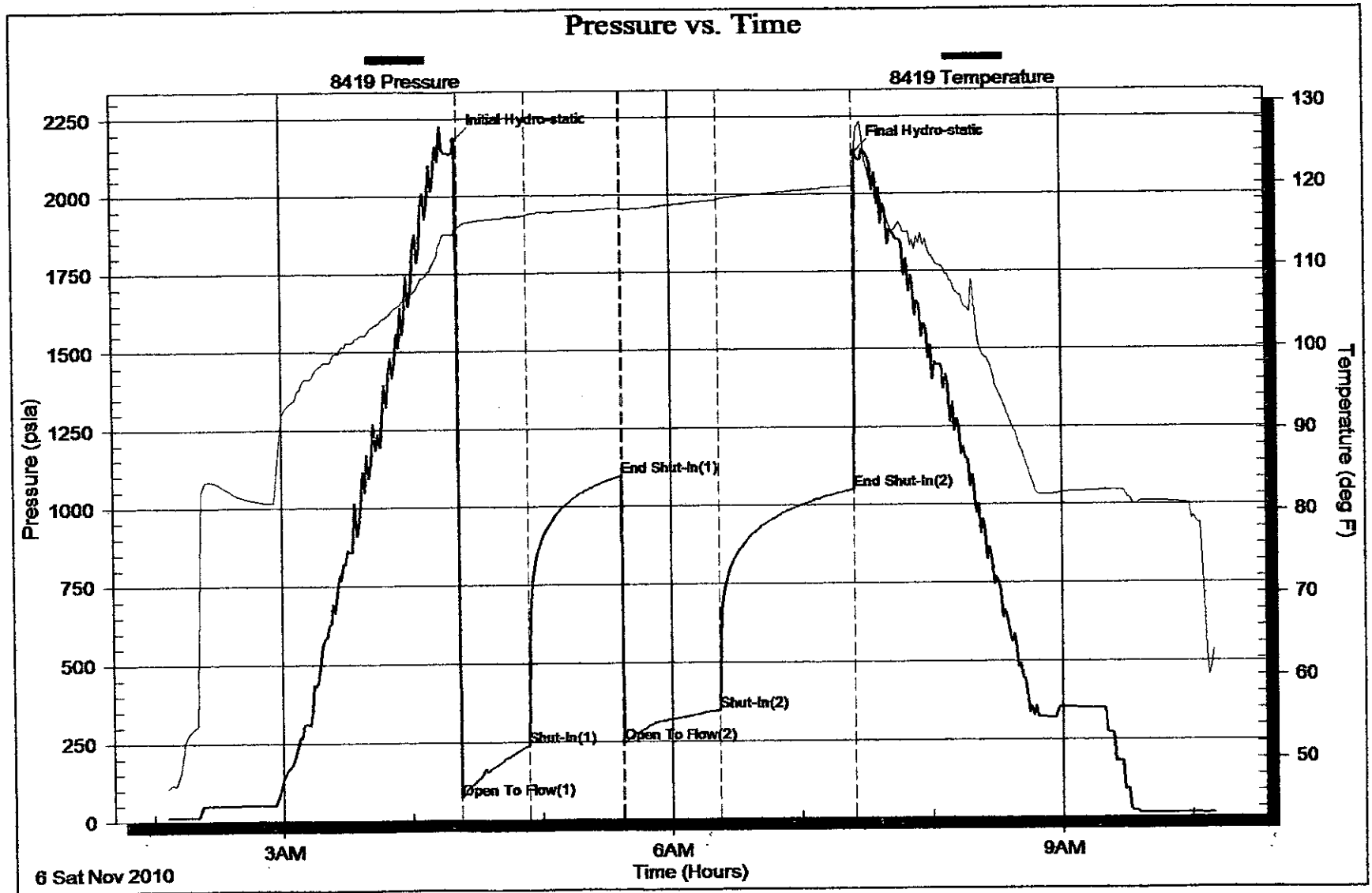
Mud Type: Gel Chem	Cushion Type:	Oil API:	deg API
Mud Weight: 9.00 lb/gal	Cushion Length: ft	Water Salinity:	ppm
Viscosity: 55.00 sec/qt	Cushion Volume: bbl		
Water Loss: 7.99 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 3100.00 ppm			
Filter Cake: 1.00 inches			

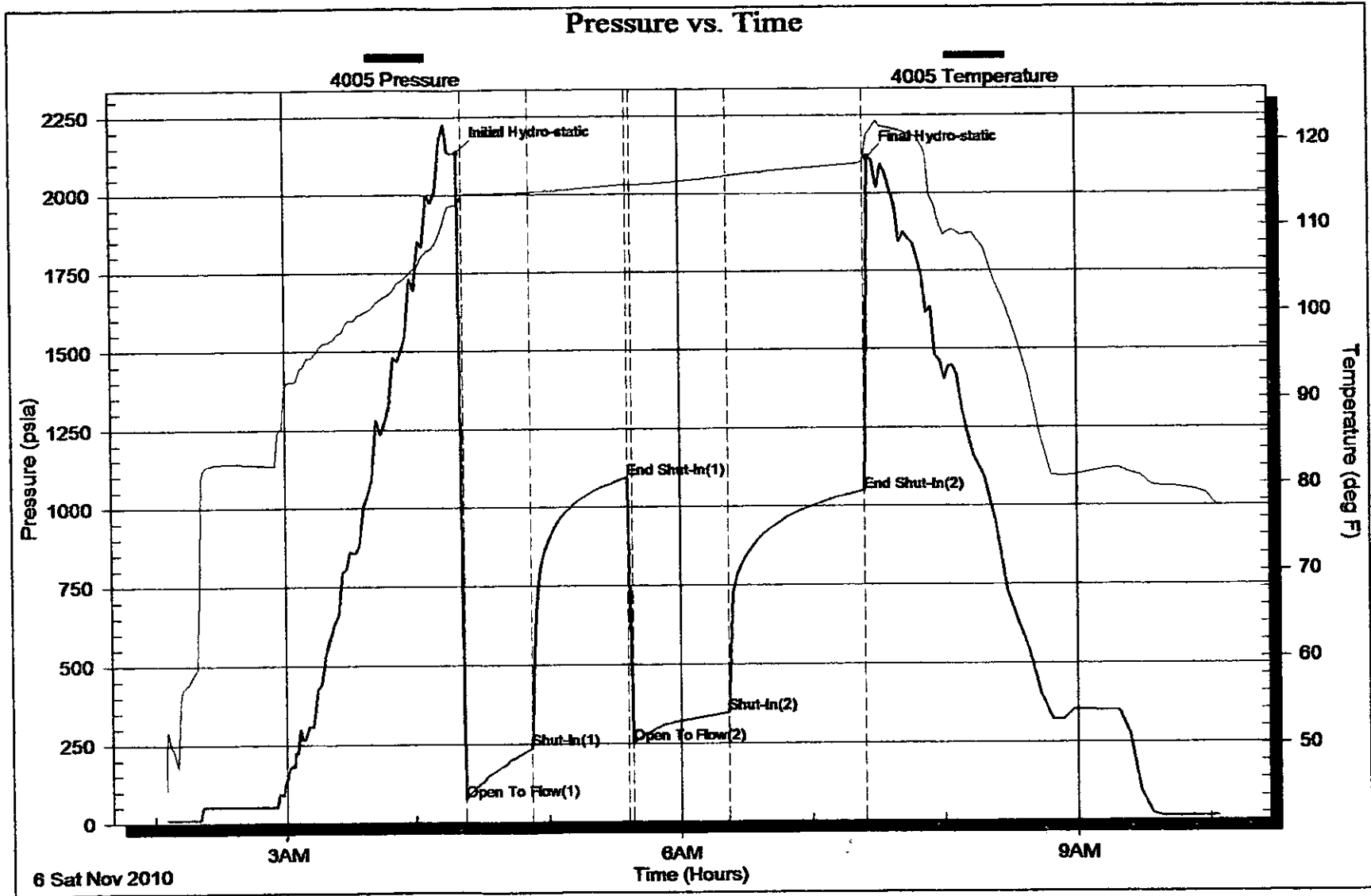
Recovery Information

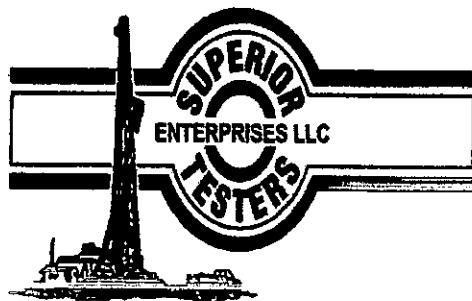
Recovery Table

Length ft	Description	Volume bbl
200.00	MUDDY WATER 40%WATER 60% MUD	0.984
465.00	WATER 40%MUD 60%WATER	3.079
0.00	RESISTIVITY .1@76 DEGREES	0.000
0.00	CHLORIDES 40,000	0.000

Total Length: 665.00 ft Total Volume: 4.063 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 WITCHITA KS
67278-3166

ATTN: TED JOCHEMS

19-13W-31W

CAMPBELL 19 ABC #1

Start Date: 2010.11.06 @ 20:06:00

End Date: 2010.11.07 @ 01:28:30

Job Ticket #: 15677 DST #: 8

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

Printed: 2010.11.09 @ 10:18:11

RITCHIE EXPLORATION INC

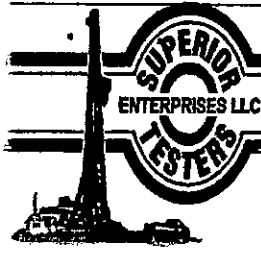
CAMPBELL 19 ABC #1

19-13W-31W

DST # 8

JOHNSON ZONE

2010.11.06



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

9100 E 22ND ST N #700 WITCHITA KS
67278+3188

19-13W-31W

Job Ticket: 15677

DST#: 8

ATTN: TED JOCHEMS

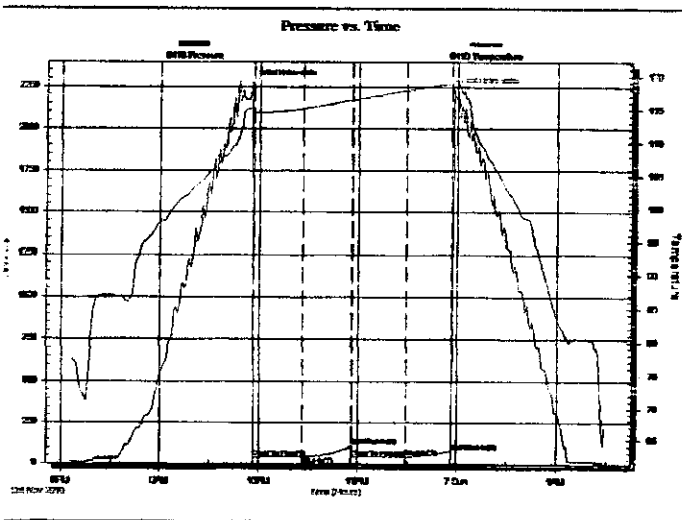
Test Start: 2010.11.06 @ 20:06:00

GENERAL INFORMATION:

Formation: **JOHNSON ZONE**
 Deviated: No Whipstock: ft (KB)
 Test Type: Conventional Bottom Hole (Initial)
 Time Tool Opened: 21:56:30 Tester: JARED SCHECK
 Time Test Ended: 01:28:30 Unit No: 3320-SCOTT CITY -75
 Interval: 4476.00 ft (KB) To 4508.00 ft (KB) (TVD) Reference Elevations: 2920.00 ft (KB)
 Total Depth: 4508.00 ft (KB) (TVD) 2910.00 ft (CF)
 Hole Diameter: 7.88 inches Hole Condition: Fair KB to GR/CF: 10.00 ft

Serial #: 8419 Inside
 Press@RunDepth: 42.92 psia @ 4504.00 ft (KB) Capacity: 5000.00 psia
 Start Date: 2010.11.05 End Date: 2010.11.07 Last Calib: 2010.11.07
 Start Time: 20:07:00 End Time: 01:28:30 Time On Btm: 2010.11.06 @ 21:55:30
 Time Off Btm: 2010.11.06 @ 23:57:30

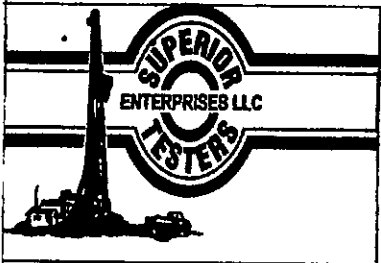
TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1/4 INCH INTO WATR IN 30 MINUTES
 30/INITIAL SHUT IN:NO BLOW BACK
 30/FINAL OPEN:VERY WEAK SURGE DID NOT BUILD
 30/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY			
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2264.59	115.28	Initial Hydro-static
1	40.09	114.57	Open To Flow (1)
31	41.09	115.14	Shut-In(1)
61	112.53	116.49	End Shut-In(1)
61	40.77	116.47	Open To Flow (2)
94	42.92	117.92	Shut-In(2)
121	80.63	118.97	End Shut-In(2)
122	2226.79	119.30	Final Hydro-static

Recovery		
Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

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



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 15677

DST#: 8

ATTN: TED JOCHEMS

Test Start: 2010.11.06 @ 20:06:00

GENERAL INFORMATION:

Formation: **JOHNSON ZONE**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 21:56:30

Time Test Ended: 01:28:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY -75

Interval: 4476.00 ft (KB) To 4508.00 ft (KB) (TVD)

Total Depth: 4508.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2920.00 ft (KB)

2910.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 4005

Outside

Press@RunDepth: 78.85 psia @ 4505.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.11.06

End Date:

2010.11.07

Last Calib.: 2010.11.07

Start Time: 20:06:01

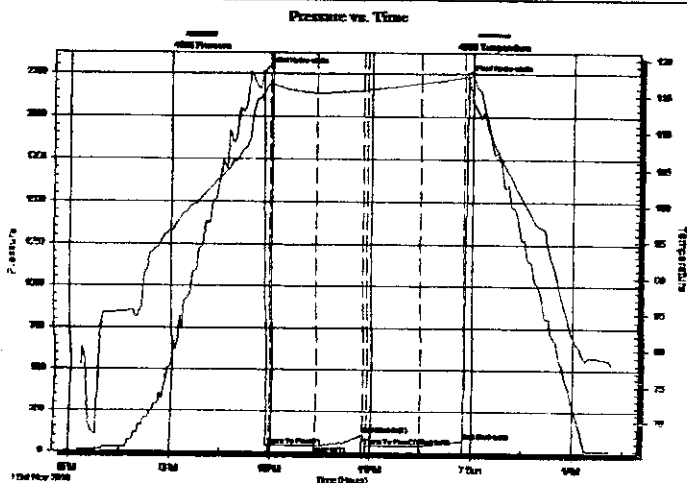
End Time:

01:23:10

Time On Btm: 2010.11.06 @ 21:55:10

Time Off Btm: 2010.11.06 @ 23:57:10

TEST COMMENT: 30/INITIAL OPEN VERY WEAK SURFACE BLOW BUILT 1/4 INCH INTO WATER IN 30 MINUTES
30/INITIAL SHUT IN NO BLOW BACK
30/FINAL OPEN VERY WEAK SURGE DID NOT BUILD
30/FINAL SHUT IN NO BLOW BACK



PRESSURE SUMMARY

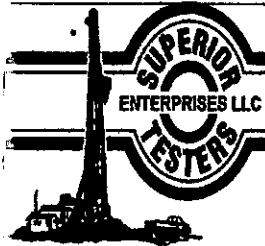
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2260.62	115.26	Initial Hydro-static
4	41.74	116.49	Open To Flow (1)
32	41.89	115.45	Shut-In (1)
60	110.02	115.78	End Shut-In (1)
62	43.53	115.82	Open To Flow (2)
94	43.93	116.70	Shut-In (2)
120	78.85	117.51	End Shut-In (2)
122	2223.39	118.00	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 15677

DST#: 8

ATTN: TED JOCHEMS

Test Start: 2010.11.06 @ 20:06:00

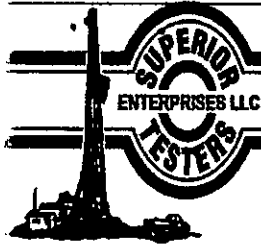
Tool Information

Drill Pipe:	Length: 3889.00 ft	Diameter: 3.80 inches	Volume: 54.55 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: 578.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 90000.00 lb
			<u>Total Volume: 57.39 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	12.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4476.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	32.00 ft			
Tool Length:	53.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4456.00	
Shut-In Tool	5.00			4461.00	
Hydrolic Tool	5.00			4466.00	
Packer	5.00			4471.00	21.00 Bottom Of Top Packer
Packer	5.00			4476.00	
Perforations	27.00			4503.00	
Recorder	1.00	8419	Inside	4504.00	
Recorder	1.00	4005	Outside	4505.00	
Bullnose	3.00			4508.00	32.00 Bottom Packers & Anchor
Total Tool Length:	53.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 15677

DST#: 8

ATTN: TED JOCHEMS

Test Start: 2010.11.06 @ 20:06:00

Mud and Cushion Information

Mud Type: Gel Chem

Mud Weight: 9.00 lb/gal

Viscosity: 63.00 sec/qt

Water Loss: 7.19 in³

Resistivity: ohm.m

Salinity: 3300.00 ppm

Filter Cake: 1.00 inches

Cushion Type:

Cushion Length: ft

Cushion Volume: bbl

Gas Cushion Type:

Gas Cushion Pressure: psia

Oil API:

Water Salinity: deg API

ppm

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

Num Fluid Samples: 0

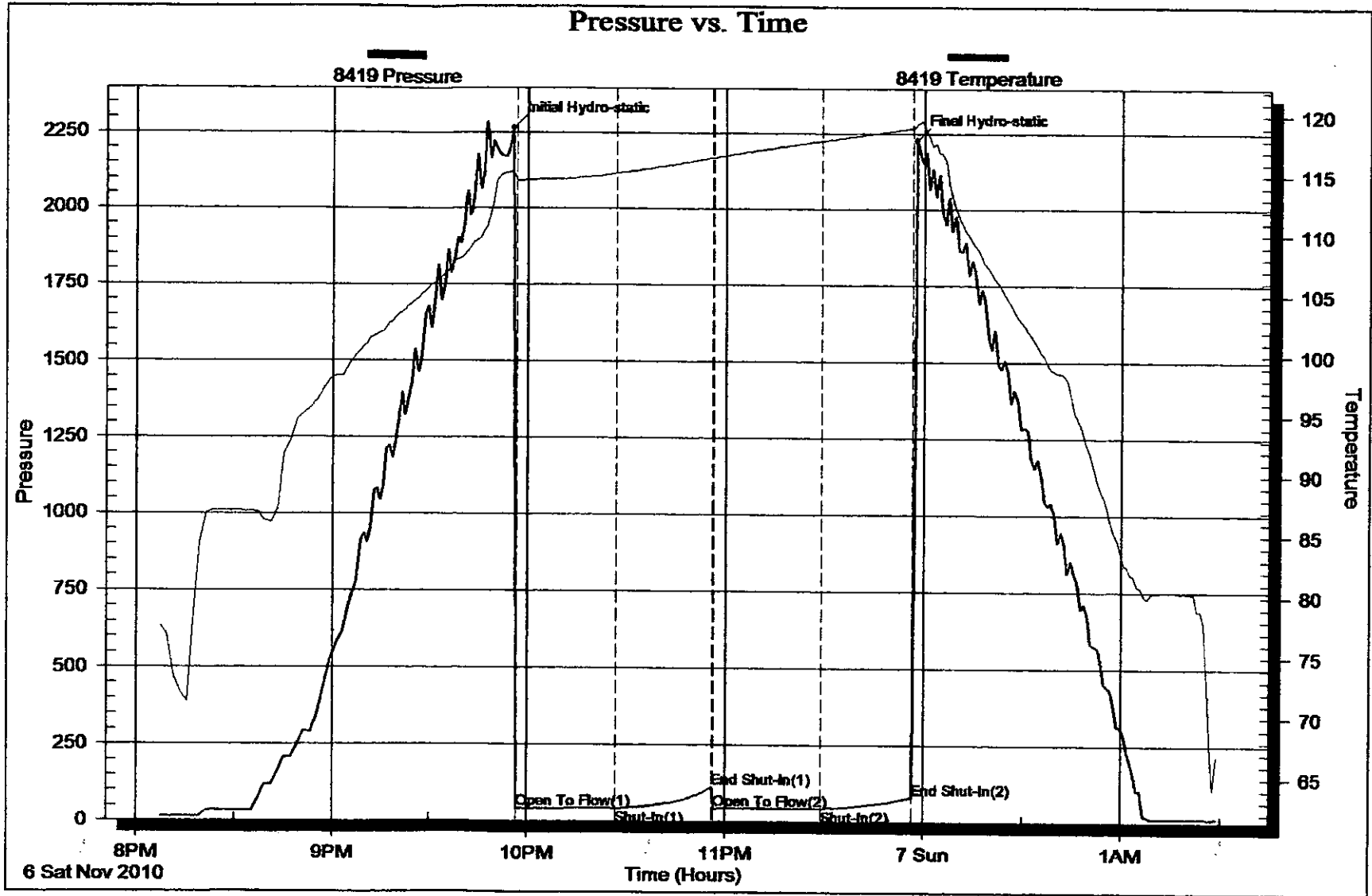
Num Gas Bombs: 0

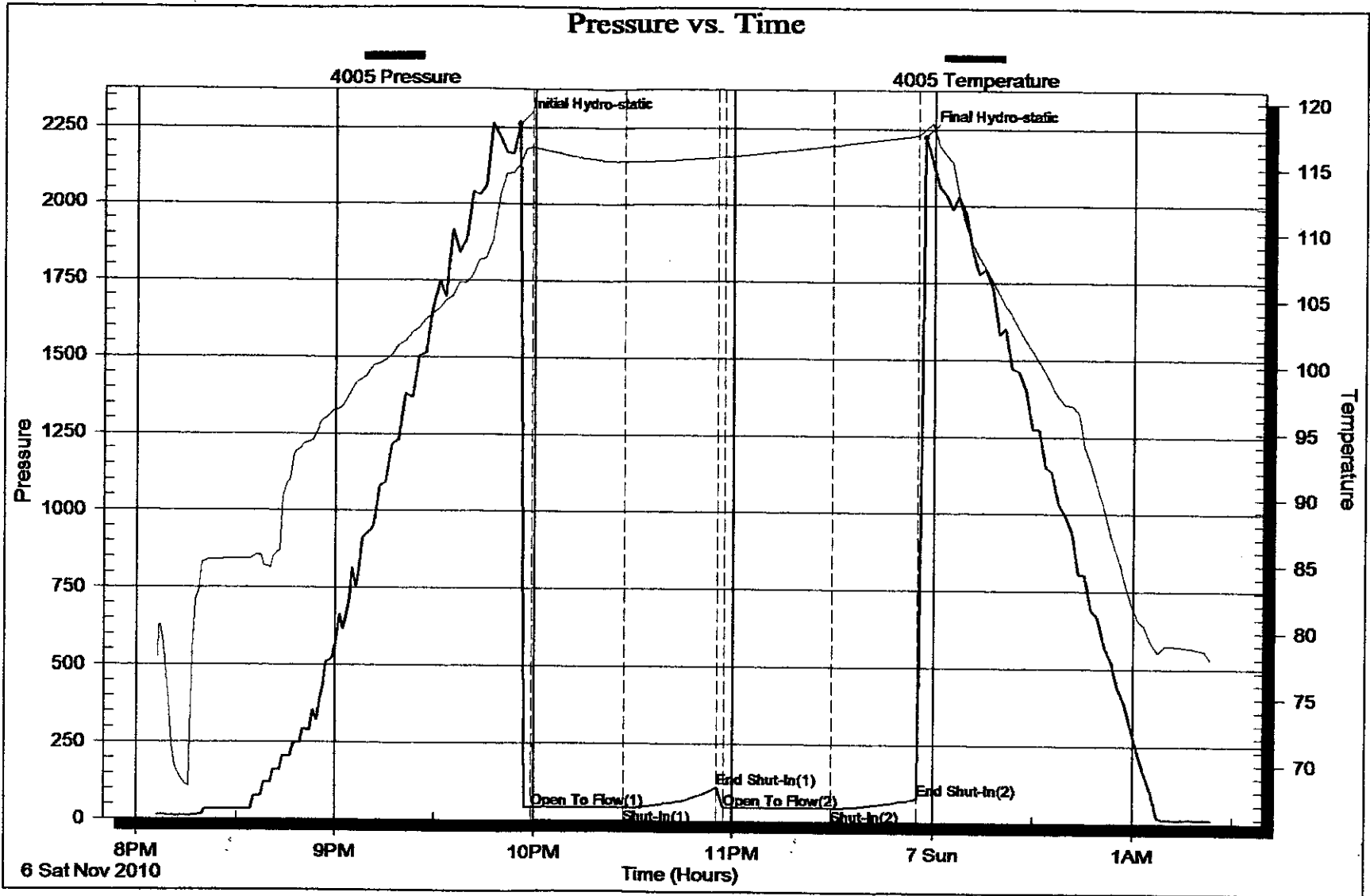
Serial #:

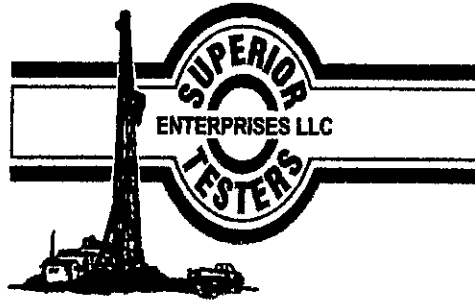
Laboratory Name:

Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

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

ATTN: TED JOCHEMS

19-13W-31W

CAMPBELL 19 ABC #1

Start Date: 2010.11.07 @ 18:35:00

End Date: 2010.11.08 @ 02:43:30

Job Ticket #: 15678 DST #: 9

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

Printed: 2010.11.09 @ 10:17:32

RITCHIE EXPLORATION INC

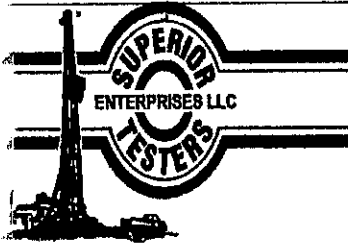
CAMPBELL 19 ABC #1

19-13W-31W

DST # 9

JOHNSON-MORROW-MISSI

2010.11.07



DRILL STEM TEST REPORT

RITCHE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 15678

DST#: 9

ATTN: TED JOCHEMS

Test Start: 2010.11.07 @ 18:35:00

GENERAL INFORMATION:

Formation: **JOHNSON-MORROW-MISSI**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 20:40:30

Time Test Ended: 02:43:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY -75

Interval: 4510.00 ft (KB) To 4615.00 ft (KB) (TVD)

Total Depth: 4615.00 ft (KB) (TVD)

Well Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2920.00 ft (KB)

2910.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419

Inside

Pressure@RunDepth: 997.35 psia @ 4611.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.11.07

End Date: 2010.11.08

Last Calib.: 2010.11.08

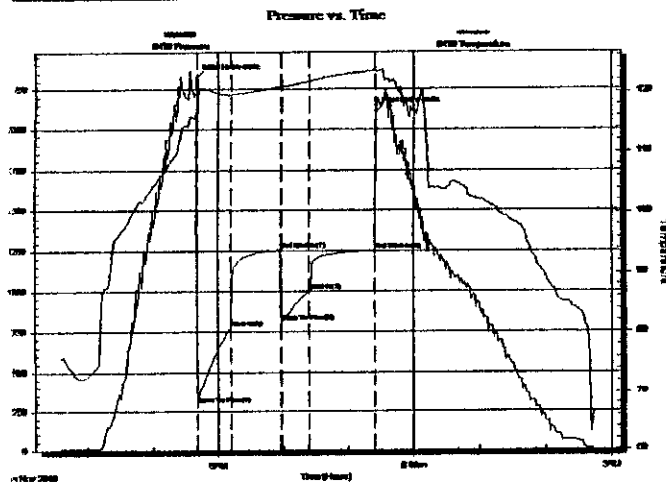
Start Time: 18:36:00

End Time: 02:43:30

Time On Btm: 2010.11.07 @ 20:40:00

Time Off Btm: 2010.11.07 @ 23:25:30

TEST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE
45/INITIAL SHUT IN:BOTTOM OF BUCKET
30/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE
60/FINAL SHUT IN:BOTTOM OF BUCKET



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2318.94	118.34	Initial Hydro-static
1	290.65	118.48	Open To Flow (1)
32	772.62	119.56	Shut-in(1)
78	1255.62	120.92	End Shut-in(1)
79	806.17	120.83	Open To Flow (2)
104	997.35	121.78	Shut-in(2)
164	1252.21	123.60	End Shut-in(2)
166	2107.81	123.37	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2600.00	CLEAN GASSY OIL 15%GAS 85%OIL	31.21
0.00	855 GAS IN PIPE	0.00

Gas Rates

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



DRILL STEM TEST REPORT

RITCHEE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 15678

DST#: 9

ATTN: TED JOCHEMS

Test Start: 2010.11.07 @ 18:35:00

GENERAL INFORMATION:

Formation: JOHNSON-MORROW-MISSI

Deviated: No Whipstock: ft (KB)

Test Type: Conventional Bottom Hole (Initial)

Time Tool Opened: 20:40:30

Tester: JARED SCHECK

Time Test Ended: 02:43:30

Unit No: 3320-SCOTT CITY -75

Interval: 4510.00 ft (KB) To 4615.00 ft (KB) (TVD)

Reference Elevations: 2920.00 ft (KB)

Total Depth: 4615.00 ft (KB) (TVD)

2910.00 ft (CF)

Hole Diameter: 7.88 inches Hole Condition: Fair

KB to GR/CF: 10.00 ft

Serial #: 4005

Outside

Pressure@RunDepth: 1251.03 psia @ 4612.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.11.07 End Date: 2010.11.08

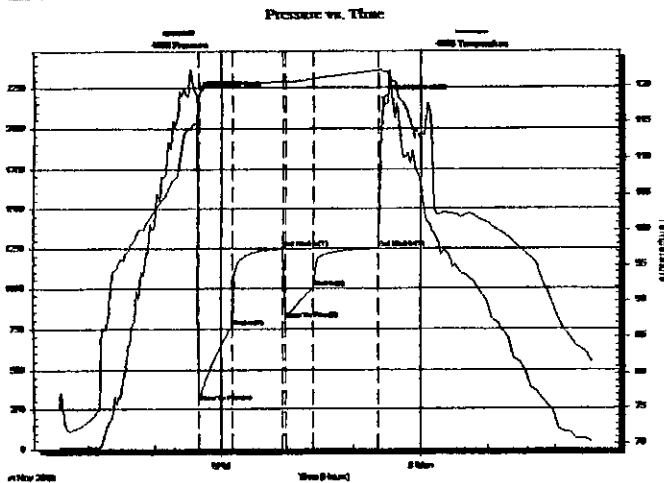
Last Calib.: 2010.11.08

Start Time: 18:35:01 End Time: 02:33:10

Time On Btm: 2010.11.07 @ 20:38:10

Time Off Btm: 2010.11.07 @ 23:26:10

EST COMMENT: 30/INITIAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE
45/INITIAL SHUT IN:BOTTOM OF BUCKET
30/FINAL OPEN:STRONG BLOW BUILT BOTTOM OF BUCKET IN 1 MINUTE
60/FINAL SHUT IN:BOTTOM OF BUCKET



PRESSURE SUMMARY

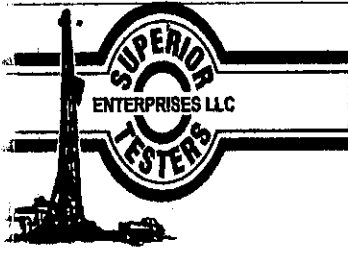
Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2204.09	114.82	Initial Hydro-static
2	290.01	118.41	Open To Flow (1)
32	761.90	120.58	Shut-In(1)
78	1251.25	120.69	End Shut-In(1)
80	805.77	120.67	Open To Flow (2)
106	998.33	121.01	Shut-In(2)
164	1251.03	122.18	End Shut-In(2)
168	2181.85	121.97	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
2600.00	CLEAN GASSY OIL 15%GAS 85%OIL	31.21
0.00	855 GAS IN PIPE	0.00

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 15678

DST#: 9

ATTN: TED JOCHEMS

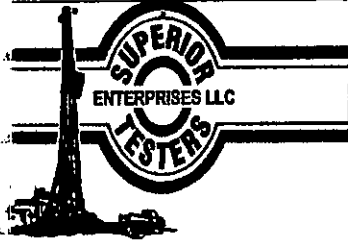
Test Start: 2010.11.07 @ 18:35:00

Tool Information

Oil Pipe:	Length: 3921.00 ft	Diameter: 3.80 inches	Volume: 55.00 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
Oil Collar:	Length: 578.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 100000.0 lb
		Total Volume:	57.84 bbl	Tool Chased 0.00 ft
Oil Pipe Above KB:	10.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4510.00 ft			Final 85000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	105.00 ft			
Tool Length:	126.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Range Over Sub	1.00			4490.00	
Nut-In Tool	5.00			4495.00	
Hydraulic Tool	5.00			4500.00	
Recorder	5.00			4505.00	
Packer	5.00			4510.00	21.00 Bottom Of Top Packer
Range Over Sub	0.75			4510.75	
Mill Pipe	63.50			4574.25	
Range Over Sub	0.75			4575.00	
Perforations	35.00			4610.00	
Recorder	1.00	8419	Inside	4611.00	
Recorder	1.00	4005	Outside	4612.00	
Millnose	3.00			4615.00	105.00 Anchor Tool
Total Tool Length:	126.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

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

CAMPBELL 19 ABC #1
19-13W-31W
Job Ticket: 15678 DST#: 9
Test Start: 2010.11.07 @ 18:35:00

Fluid and Cushion Information

Fluid Type:	Gel Chem	Cushion Type:		Oil API:		deg API
Fluid Weight:	9.00 lb/gal	Cushion Length:	ft	Water Salinity:		ppm
Viscosity:	55.00 sec/qt	Cushion Volume:	bbbl			
Water Loss:	7.99 in ³	Gas Cushion Type:				
Resistivity:	ohm.m	Gas Cushion Pressure:	psia			
Salinity:	3500.00 ppm					
Filter Cake:	1.00 inches					

Recovery Information

Recovery Table

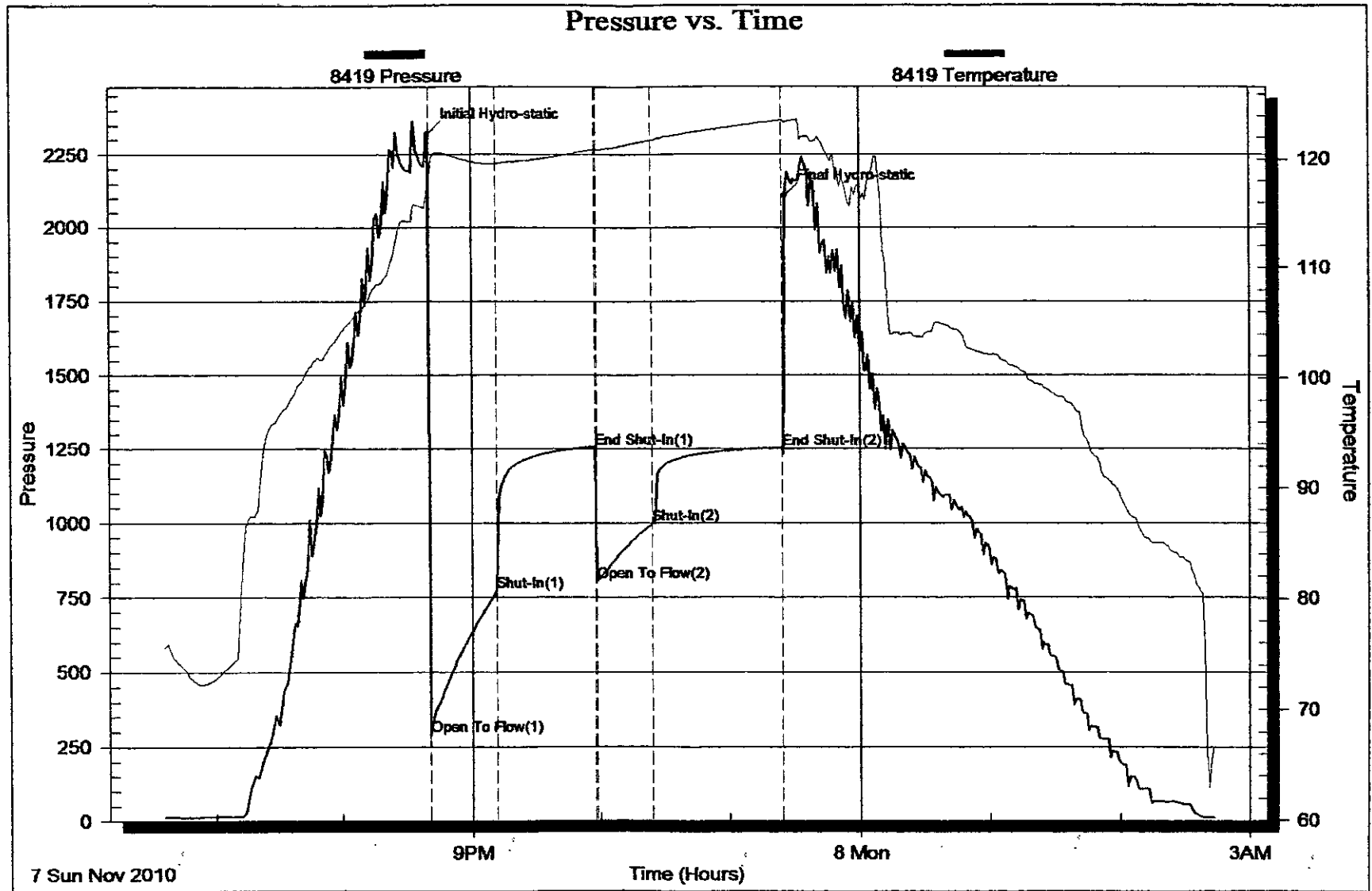
Length ft	Description	Volume bbbl
2600.00	CLEAN GASSY OIL 15%GAS 85%OIL	31.206
0.00	855 GAS IN PIPE	0.000

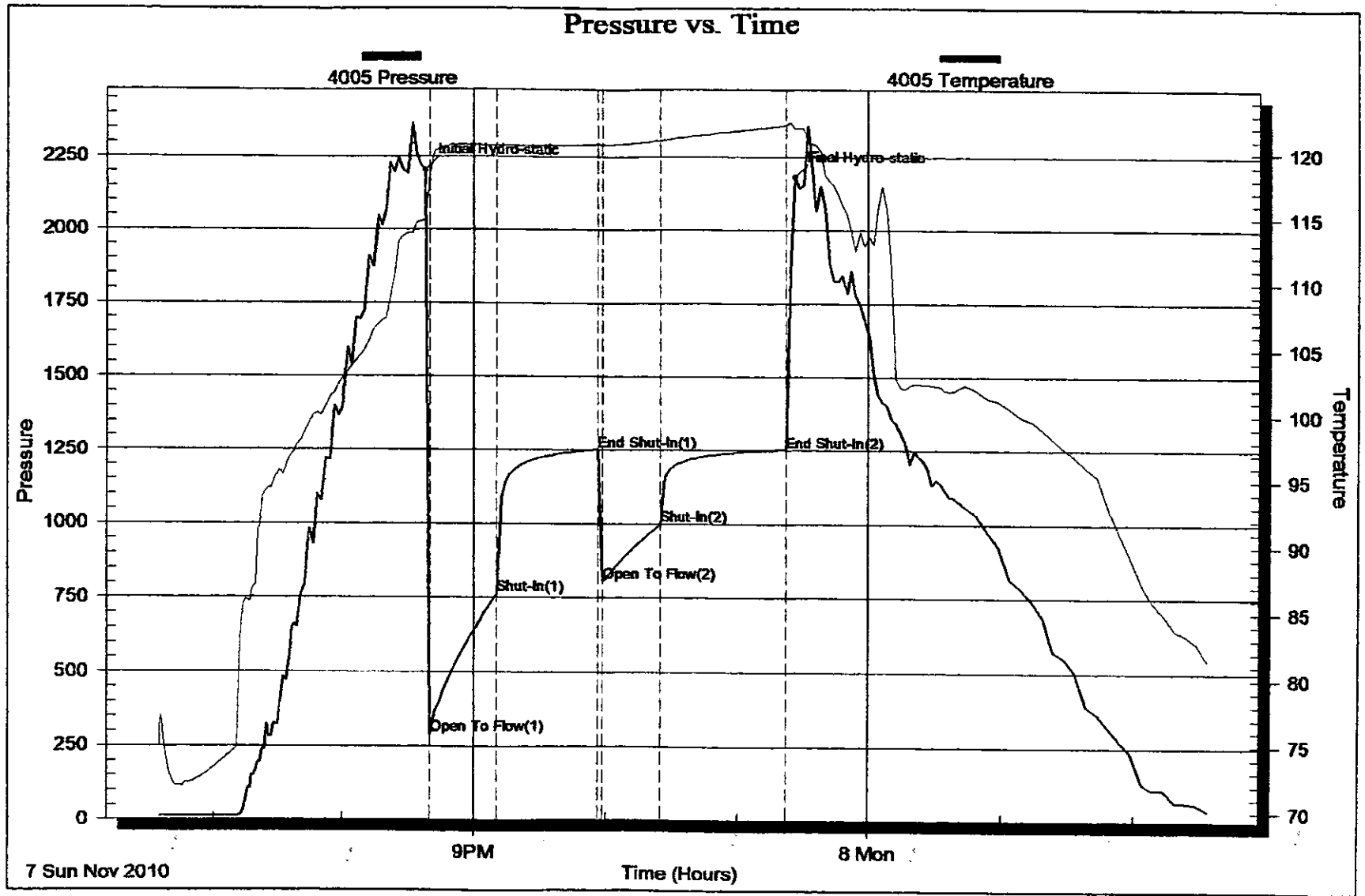
Total Length: 2600.00 ft Total Volume: 31.206 bbl

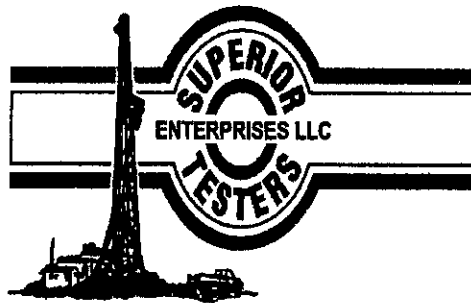
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:

Laboratory Name: Laboratory Location:

Recovery Comments:







DRILL STEM TEST REPORT

Prepared For: **RITCHIE EXPLORATION INC**

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

ATTN: TED JOCHEMS

19-13W-31W

CAMPBELL 19 ABC #1

Start Date: 2010.11.08 @ 14:15:00

End Date: 2010.11.08 @ 20:05:30

Job Ticket #: 15679 DST #: 10

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

Printed: 2010.11.09 @ 10:16:58

RITCHIE EXPLORATION INC
CAMPBELL 19 ABC #1
19-13W-31W
DST # 10
MISSISSIPPI
2010.11.08



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 15679

DST#: 10

ATTN: TED JOCHEVS

Test Start: 2010.11.08 @ 14:15:00

GENERAL INFORMATION:

Formation: **MISSISSIPPI**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:05:30

Time Test Ended: 20:05:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY -75

Interval: **4645.00 ft (KB) To 4670.00 ft (KB) (TVD)**

Total Depth: 4670.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2920.00 ft (KB)

2910.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 8419

Inside

Pressure@RunDepth: 55.48 psia @ 4666.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.11.08 End Date: 2010.11.08

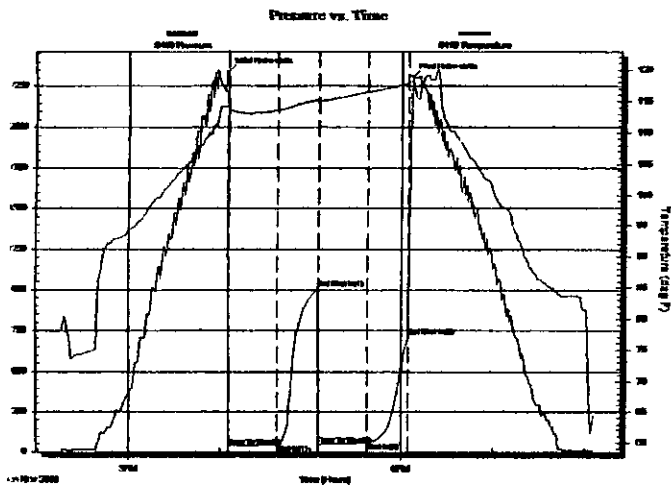
Last Calib.: 2010.11.08

Start Time: 14:16:00 End Time: 20:05:30

Time On Btm: 2010.11.08 @ 16:05:00

Time Off Btm: 2010.11.08 @ 18:06:30

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1/2 INCH INTO WATER IN 30 MINUTES
30/INITIAL SHUT IN:NO BLOW BACK
30/FINAL OPEN:VERY WEAK SURGE DID NOT BUILT
30/FINAL SHUT IN:NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2338.98	114.27	Initial Hydro-static
1	35.90	113.64	Open To Flow (1)
33	44.83	113.68	Shut-in(1)
60	1007.67	115.21	End Shut-in(1)
61	46.94	114.96	Open To Flow (2)
93	55.48	116.47	Shut-in(2)
120	711.65	117.85	End Shut-in(2)
122	2307.06	118.21	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

Gas Rates

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



DRILL STEM TEST REPORT

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 15679

DST#: 10

ATTN: TED JOCHEMS

Test Start: 2010.11.08 @ 14:15:00

GENERAL INFORMATION:

Formation: **MISSISSIPPI**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 16:05:30

Time Test Ended: 20:05:30

Test Type: Conventional Bottom Hole (Initial)

Tester: JARED SCHECK

Unit No: 3320-SCOTT CITY -75

Interval: 4645.00 ft (KB) To 4670.00 ft (KB) (TVD)

Total Depth: 4670.00 ft (KB) (TVD)

Hole Diameter: 7.88 inches Hole Condition: Fair

Reference Elevations: 2920.00 ft (KB)

2910.00 ft (CF)

KB to GR/CF: 10.00 ft

Serial #: 4005

Outside

Pressure@RunDepth: 707.44 psia @ 4667.00 ft (KB)

Capacity: 5000.00 psia

Start Date: 2010.11.08

End Date:

2010.11.08

Last Calib.:

2010.11.08

Start Time: 14:15:01

End Time:

20:04:10

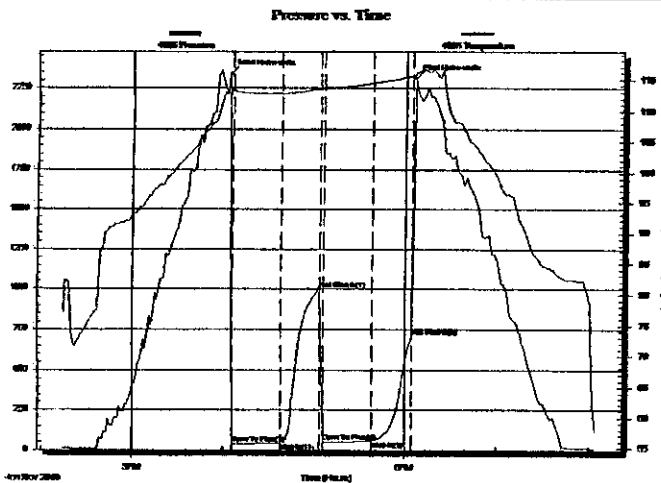
Time On Btm:

2010.11.08 @ 16:04:09

Time Off Btm:

2010.11.08 @ 18:06:10

TEST COMMENT: 30/INITIAL OPEN:VERY WEAK SURFACE BLOW BUILT 1/2 INCH INTO WATER IN 30 MINUTES
30/INITIAL SHUT IN:NO BLOW BACK
30/FINAL OPEN:VERY WEAK SURGE DID NOT BUILT
30/FINAL SHUT IN :NO BLOW BACK



PRESSURE SUMMARY

Time (Min.)	Pressure (psia)	Temp (deg F)	Annotation
0	2335.95	113.09	Initial Hydro-static
3	38.51	113.20	Open To Flow (1)
35	47.30	112.73	Shut-In(1)
61	999.75	113.46	End Shut-In(1)
63	49.10	113.43	Open To Flow (2)
95	57.06	114.42	Shut-In(2)
121	707.44	115.51	End Shut-In(2)
123	2312.20	115.91	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
5.00	MUD	0.02

Gas Rates

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



DRILL STEM TEST REPORT

TOOL DIAGRAM

RITCHE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 15679

DST#: 10

ATTN: TED JOCHEMS

Test Start: 2010.11.08 @ 14:15:00

Tool Information

Drill Pipe:	Length: 4079.00 ft	Diameter: 3.80 inches	Volume: 57.22 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: 578.00 ft	Diameter: 2.25 inches	Volume: 2.84 bbl	Weight to Pull Loose: 95000.00 lb
			<u>Total Volume: 60.06 bbl</u>	Tool Chased 0.00 ft
Drill Pipe Above KB:	33.00 ft			String Weight: Initial 80000.00 lb
Depth to Top Packer:	4645.00 ft			Final 80000.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	25.00 ft			
Tool Length:	46.00 ft			
Number of Packers:	2	Diameter: 6.88 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
Change Over Sub	1.00			4625.00	
Put-In Tool	5.00			4630.00	
Hydraulic Tool	5.00			4635.00	
Packer	5.00			4640.00	21.00 Bottom Of Top Packer
Packer	5.00			4645.00	
Perforations	20.00			4665.00	
Recorder	1.00	8419	Inside	4666.00	
Recorder	1.00	4005	Outside	4667.00	
Sniffnose	3.00			4670.00	25.00 Bottom Packers & Anchor
Total Tool Length:	46.00				



DRILL STEM TEST REPORT

FLUID SUMMARY

RITCHIE EXPLORATION INC

CAMPBELL 19 ABC #1

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

19-13W-31W

Job Ticket: 15679

DST#: 10

ATTN: TED JOCHEMS

Test Start: 2010.11.08 @ 14:15:00

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: 9.58 in ³	Gas Cushion Type:		
Resistivity: ohm.m	Gas Cushion Pressure: psia		
Salinity: 4400.00 ppm			
Filter Cake: 1.00 inches			

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
5.00	MUD	0.025

Total Length: 5.00 ft Total Volume: 0.025 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

