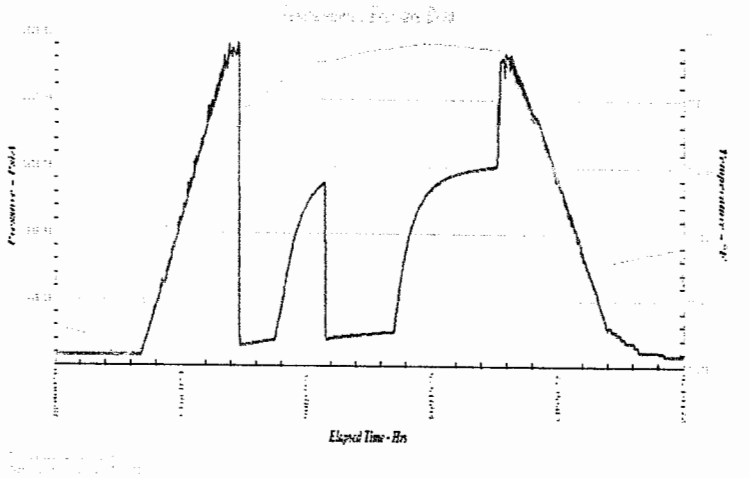
SUPERIOR TESTERS ENTERPRISES, L.L.C.

1(800)792-6902

DRILL STEM TEST REPORT

GREAT BEND,KANSAS 67530



1	Initial Hydrostatic Pressure.....	2438
2	Initial Flow Pressure.....	82
3	Final Initial Flow Pressure.....	129
4	Initial Shut-In Pressure.....	1363
5	Initial Final Flow Pressure.....	136
6	Final Flow Pressure.....	193
7	Final Shut-In Pressure.....	1496
8	Final Hydrostatic Pressure.....	2317
	Maximum Temperature.....	128

ENERAL INFORMATION

COMPANY NAME ..... RITHCHIE EXPLORATION INC

TEST DATE 7/14/08
SECTION-TOWN-RANGE 17-27-23
STATE ..... KANSAS
COUNTY ..... FORD
ELEVATION GROUND LEVEL 2411
COMPANY REPRESENTATIVE ..... MIKE

LEASE AND WELL NUMBER ..... BONNIE CARSON #2
FORMATION TESTED ..... MORROW
DRILL STEM TEST NUMBER 2
REPORT NUMBER ..... CONFIDENTIAL
ELEVATION KELLY BUSHINGS 2423
TESTING ENGINEER ..... DAVID NICHOLS

OOL SETTING INFORMATION

TEST INTERVAL (From) 4875
TEST INTERVAL (to) 4954
ANCHOR LENGTH 79
TOTAL DEPTH (ft) 4954

TOP PACKER DEPTH 4954
BOTTOM PACKER DEPTH 4959
NUMBER OF PACKERS 2
PACKER SIZE 6 3/4
HOLE SIZE 7 7/8

LOW TIMES

INITIAL OPEN
TOOL OPEN (from) 9:10
TOOL OPEN (to) 9:40
DURATION (min.) 30

INITIAL SHUT-IN
TOOL CLOSED (from) 9:40
TOOL CLOSED (to) 10:25
DURATION (min.) 45

FINAL OPEN
TOOL OPEN (from) 10:25
TOOL OPEN (to) 11:25
DURATION (min.) 60

FINAL SHUT-IN
TOOL CLOSED (from) 11:25
TOOL CLOSED (to) 12:55
DURATION (min.) 90

RECEIVED
KANSAS CORPORATION COMMISSION
OCT 31 2008
CONSERVATION DIVISION
WICHITA, KS

IITIAL FLOW STRONG BLOW BOTTOM BUCKET IN LESS 1 MIN BLOW DIED OFF TO A FAIR BLOW AFTER 10 MINS
FAIR BLOW BACK

INAL FLOW STRONG BLOW BUILT TO BOTTOM BUCKET IN LESS 1 MIN
STRONG BLOW BACK

Company: RITCHIE EXPLORATION INC Lease & Well No. BONNIE CARSON #2 Test #: 2 Date: 7-14-23 SEC. 17 TWP. 27 RGE. 23

15-057-20609

SUPERIOR TESTERS ENTERPRISES L.L.C.

DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (800)792-6902

GENERAL INFORMATION

COMPANY NAME ..... RITCHIE EXPLORATION INC

TEST DATE	7/14/08	LEASE AND WELL NUMBER	BONNIE CARSON #2
SECTION-TOWN-RANGE	17-27-08	FORMATION TESTED	MORROW
STATE	KANSAS	DRILL STEM TEST NUMBER	2
COUNTY	FORD	REPORT NUMBER	15466
ELEVATION GROUND LEVEL	2411	ELEVATION KELLY BUSHINGS	2423
COMPANY REPRESENTATIVE	MIKE	TESTING ENGINEER	DAVID NICHOLS

EXTRA EQUIPMENT

		EXTRA PACKER (3RD)	NO
JARS	NO	EXTRA PACKER (4TH)	NO
SAFETY JOINT	NO	STRADDLE	NO
ELECTRONIC RECORDER	NO	HOOK WALL	NO
CIRCULATING SUB	NO	SAMPLER	NO
	162 MILES ROUND TRIP FROM	GREAT BEND	
TOP RECORDER DEPTH	4950	BOTTOM RECORDER DEPTH	4951
RECORDER NUMBER	91986	RECORDER NUMBER	4337

WELL INFORMATION

DRILLING CONTRACTOR	DUKE#1		
DRILL PIPE LENGTH	4853	DRILL COLLAR LENGTH	0
DRILL PIPE I.D.	3.8	DRILL COLLAR I.D.	2.25
TOOL JOINT SIZE	4 1/2 X.H.	TOOL JOINT SIZE	4 1/2 X.H.

COMMENTS

SUPERIOR TESTERS ENTERPRISES L.L.C.

GREAT BEND,KANSAS

GAS FLOW RATE

(800) 792-6902

STATE	KANSAS	***Test Date***	1/0/1900
COUNTY	FORD	***Sec Town Range***	17-27-08
FIELD		***Report Number***	15466

Initial Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H20 Orfice Tester	PSI on Orfice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)

Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H20 Orfice Tester	PSI on Orfice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED	10:35	10	10			1/4	5.320
AT 10;25	10:45	20	28			1/4	8.890
GAS TO SURFACE	10:55	30	35			1/4	9.790
IN 5 MIN	11;05	40	44			1/4	11.100
	11:15	50	50			1/4	11.900
	11:25	60	56			1/4	12.600

SUPERIOR TESTERS ENTERPRISES L.L.C.

RECOVERY BREAK DOWN

GREAT BEND,KANSAS (800) 792-6902

Drill Pipe I.D.	Feet	Recovery Description For Drill Pipe	Gas	Oil	Mud	Water	Total bbls.
4 1/2 3.82	90	OIL CUT MUD		5%	95%		1.2780
	60	GASSY OIL AND WATER CUT MUD	3%	22%	55%	20%	0.8520
	60	GASSY OIL AND WATER CUT MUD	5%	25%	40%	30%	0.8520
	60	SLIGHTY MUD CUT OIL CUT WATER	20%	25%	15%	40%	0.8520
	60	SLIGHTY OIL AND GAS CUT MUDDY WATER	7%	3%	10%	80%	0.8520
							0.0000
							0.0000
							0.0000
							0.0000
							0.0000
							0.0000
							0.0000
							0.0000
							0.0000

Drill Collars I.D.		Recovery Description For Drill Collars	0.2982	0.7029	2.2365	1.4484	
2.25							0.0000
							0.0000
							0.0000
							0.0000
							0.0000
							0.0000
							0.0000
							0.0000

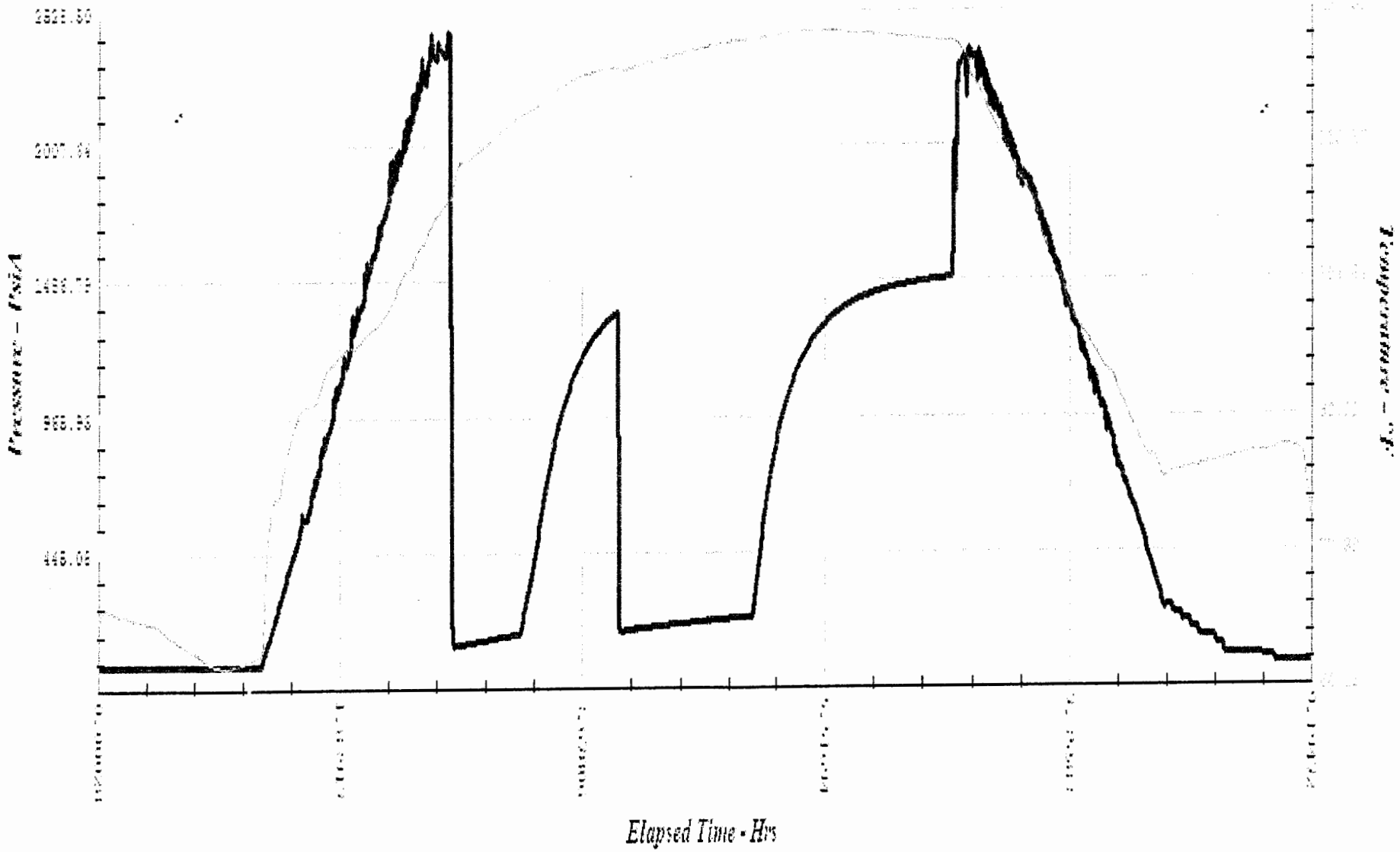
Total Recovery	330 Feet						
		Total bbls. Recovered From Drill Pipe	0.2982	0.7029	2.2365	1.4484	Total
		Total bbls. Recovered From Drill Collars	0.0000	0.0000	0.0000	0.0000	bbls
		Total bbls Recovered	0.2982	0.7029	2.2365	1.4484	4.6860
			Gas	Oil	Mud	Water	

MUD WEIGHT #/GAL 9.2
VISCOSITY 46
WATER LOSS 8.8

GRAVITY CORRECTED
Resistivity **ohms @** **Degrees**
Recovery Chlorides 49,000 **ppm**
Pit Chlorides 6,200 **ppm**

4 1/2 inch Drill Pipe 3.83 I.D. Drill Collars 2.25 I.D
Start Here

Temperature / Pressure Data



Tool serial number: 81716

Test start: 07/14/2008 15:44:04

RITCHIE EXPLORATION INC	17-27-23	BONNIE CARSON#2	7-14-08	DST#2	MORROW

SUPERIOR TESTERS ENTERPRISES, L.L.C.

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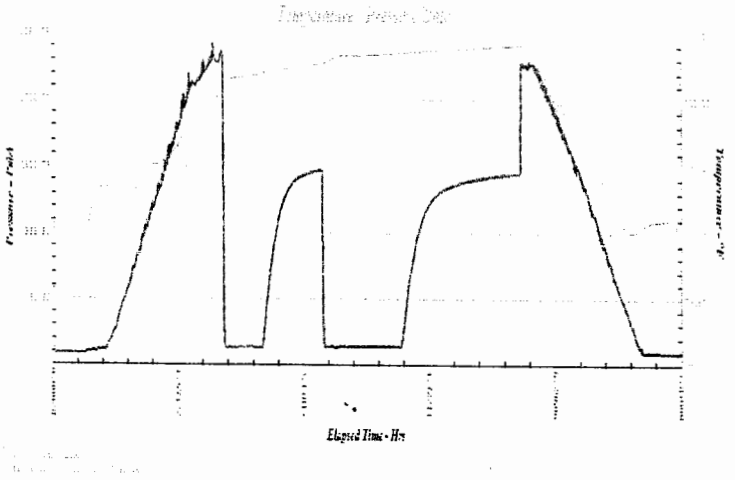
DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530



1	Initial Hydrostatic Pressure.....	2428
2	Initial Flow Pressure.....	57
3	Final Initial Flow Pressure.....	63
4	Initial Shut-In Pressure.....	1500
5	Initial Final Flow Pressure.....	68
6	Final Flow Pressure.....	67
7	Final Shut-In Pressure.....	1480
8	Final Hydrostatic Pressure.....	2367
	Maximum Temperature.....	120

GENERAL INFORMATION

COMPANY NAME ..... RITCHIE EXPLORATION INC

TEST DATE 7/13/08
SECTION-TOWN-RANGE 17-27-23
STATE ..... KANSAS
COUNTY ..... FORD
ELEVATION GROUND LEVEL 2411
COMPANY REPRESENTATIVE ..... MIKE

LEASE AND WELL NUMBER ..... BONNIE CARSON #2
FORMATION TESTED ..... MORROW
DRILL STEM TEST NUMBER 1
REPORT NUMBER ..... ####
ELEVATION KELLY BUSHINGS 2423
TESTING ENGINEER ..... DAVID NICHOLS

TOOL SETTING INFORMATION

TEST INTERVAL (From) 4877
TEST INTERVAL (to) 4927
ANCHOR LENGTH 50
TOTAL DEPTH (ft) 4927

TOP PACKER DEPTH 4872
BOTTOM PACKER DEPTH 4877
NUMBER OF PACKERS 2
PACKER SIZE 6 3/4
HOLE SIZE 7 7/8

CONFIDENTIAL

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from) 2:55
TOOL OPEN (to) 3:25
DURATION (min.) 30

FINAL OPEN

TOOL OPEN (from) 4:10
TOOL OPEN (to) 5:10
DURATION (min.) 60

INITIAL SHUT-IN

TOOL CLOSED (from) 3:25
TOOL CLOSED (to) 4:10
DURATION (min.) 45

FINAL SHUT-IN

TOOL CLOSED (from) 5:10
TOOL CLOSED (to) 6:40
DURATION (min.) 90

RECEIVED
KANSAS CORPORATION COMMISSION
OCT 31 2008
CONSERVATION DIVISION
WICHITA, KS

INITIAL FLOW — STRONG BLOW BOTTOM BUCKET IN 1 MIN
FAIR BLOW BACK

FINAL FLOW — STRONG BLOW BOTTOM BUCKET IN LESS 1 MIN
STRONG BLOW BACK

Company: RITCHIE EXPLORATION INC Lease & Well No. BONNIE CARSON #2 Test #: 1 Date: 7-13-08 SEC. 17 TWP. 27 RGE. 23

15-057-20609

SUPERIOR TESTERS ENTERPRISES L.L.C.

DRILL STEM TEST REPORT

GREAT BEND ,KANSAS 67530 (800)792-6902

GENERAL INFORMATION

COMPANY NAME	RITCHIE EXPLORATION INC		
TEST DATE	7/13/08	LEASE AND WELL NUMBER	BONNIE CARSON #2
SECTION-TOWN-RANGE	17-27-23	FORMATION TESTED	MORROW
STATE	KANSAS	DRILL STEM TEST NUMBER	1
COUNTY	FORD	REPORT NUMBER	15465
ELEVATION GROUND LEVEL	2411	ELEVATION KELLY BUSHINGS	2423
COMPANY REPRESENTATIVE	MIKE	TESTING ENGINEER	DAVID NICHOLS

EXTRA EQUIPMENT

		EXTRA PACKER (3RD)	NO
JARS	Y	EXTRA PACKER (4TH)	NO
SAFETY JOINT	Y	STRADDLE	NO
ELECTRONIC RECORDER	NO	HOOK WALL	NO
CIRCULATING SUB	NO	SAMPLER	NO
	162 MILES ROUND TRIP FROM	GREAT BEND	
TOP RECORDER DEPTH	4923	BOTTOM RECORDER DEPTH	4924
RECORDER NUMBER	91986	RECORDER NUMBER	4337

WELL INFORMATION

DRILLING CONTRACTOR	DUKE #1		
DRILL PIPE LENGTH	4851	DRILL COLLAR LENGTH	0
DRILL PIPE I.D.	3.8	DRILL COLLAR I.D.	2.25
TOOL JOINT SIZE	4 1/2 X.H.	TOOL JOINT SIZE	4 1/2 X.H.

COMMENTS

SUPERIOR TESTERS ENTERPRISES L.L.C.

GREAT BEND,KANSAS

GAS FLOW RATE

(800) 792-6902

STATE	KANSAS	***Test Date***	1/0/1900
COUNTY	FORD	***Sec Town Range***	17-27-23
FIELD		***Report Number***	15465

Initial Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H20 Orfice Tester	PSI on Orfice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED AT 2:55 PM GAS TO SURFACE IN 25 MINS	3:25	30	7			3/4	37.400

Final Flow

Comments	Time (hh:mm:ss)	Period dt (min)	Inches H20 Orfice Tester	PSI on Orfice Tester	PSI on Pitot Tube	Choke Size (in)	Gas Rate (MCF/Day)
TOOL OPENED AT 4:10 PM	4:20	10	42			1/2	40.700
	4:30	20	54			1/2	46.100
	4:40	30	56			1/2	46.900
	4:50	40	58			1/2	47.800
	5:00	50	58			1/2	47.800
	5:10	60	58			1/2	47.800

SUPERIOR TESTERS ENTERPRISES L.L.C.

RECOVERY BREAK DOWN

GREAT BEND,KANSAS (800) 792-6902

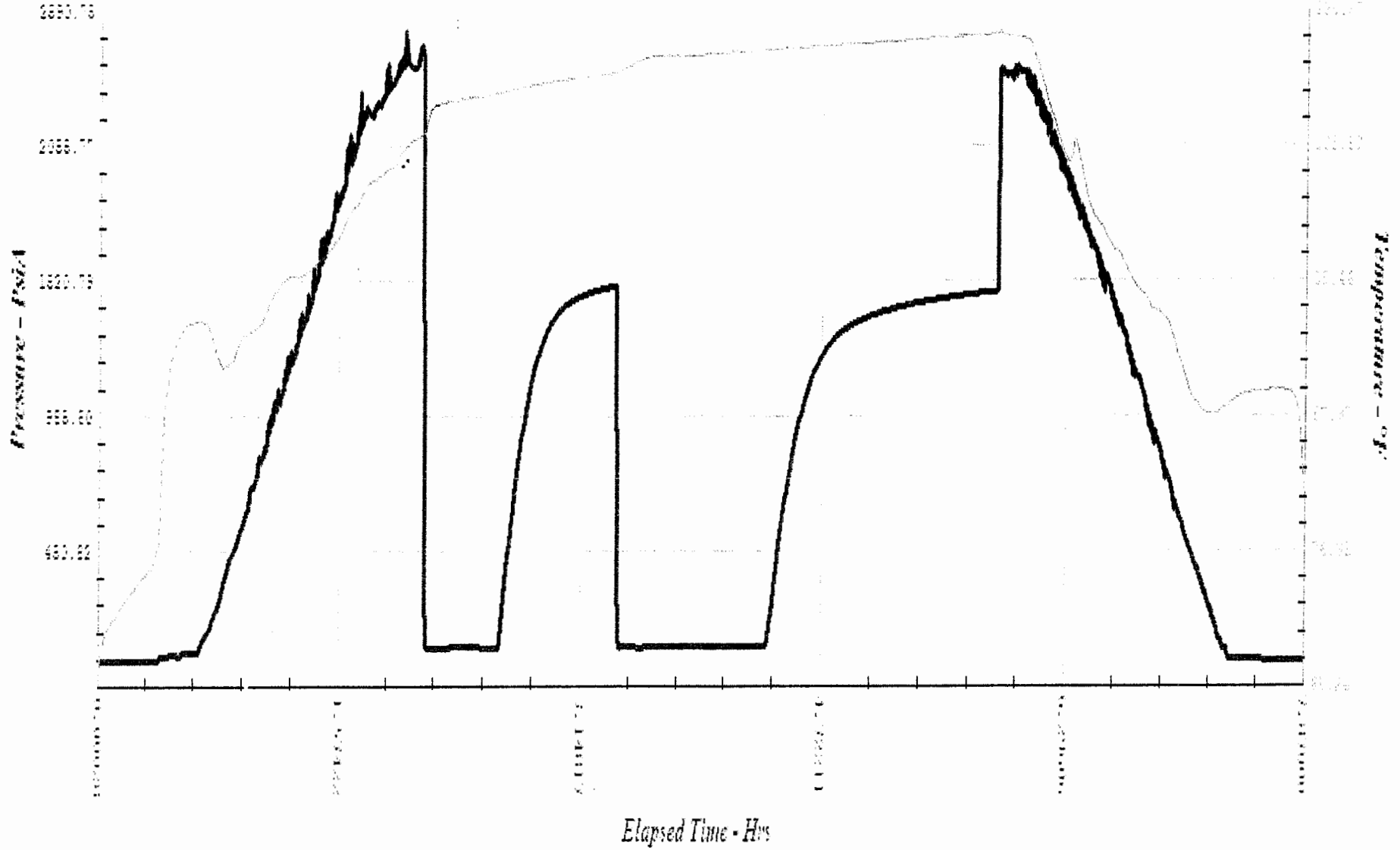
Drill Pipe I.D.	Feet		Recovery Description For Drill Pipe	Gas	Oil	Mud	Water	Total bbls.
4 1/2 3.82	80	MUD				100%		1.1360
								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
Drill Collars I.D.			Recovery Description For Drill Collars	0.0000	0.0000	1.1360	0.0000	
2.25								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
								0.0000
Total Recovery	80	Feet	Total bbls. Recovered From Drill Pipe	0.0000	0.0000	1.1360	0.0000	Total
			Total bbls. Recovered From Drill Collars	0.0000	0.0000	0.0000	0.0000	bbls
			Total bbls Recovered	0.0000	0.0000	1.1360	0.0000	1.1360
				Gas	Oil	Mud	Water	

MUD WEIGHT #/GAL 9.2
VISCOSITY 56
WATER LOSS 7.6

GRAVITY CORRECTED
Resistivity **ohms @** **Degrees**
Recovery Chlorides **ppm**
Pit Chlorides 5,800 **ppm**

4 1/2 inch Drill Pipe 3.83 I.D. Drill Collars 2.25 I.D
Start Here

Temperature / Pressure Data



RITCHIE EXPLORATION INC | 17-27-23 | BONNIE CARSON #2 | 7-13-08 | DST#1 | MORROW