

DRILL STEM TEST REPORT

Prepared For: **Comanche Resources**

9520 N Mary
Oklahoma City OK 73120

ATTN: Dennis Dye

14-32-23^h Clark KS

Rosemary 14-1

Start Date: 2001.08.06 @ 23:02:48

End Date: 2001.08.07 @ 11:53:48

Job Ticket #: 15411 DST #: 1

Trilobite Testing, Inc

PO Box 362 Hays, KS 67601

ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Comanche Resources
9520 N Mary
Oklahoma City OK 73120
ATTN: Dennis Dye

Rosemary 14-1

14-32-23 Clark KS

Job Ticket: 15411

DST#: 1

Test Start: 2001.08.06 @ 23:02:48

GENERAL INFORMATION:

Formation: **Mississippian**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 02:56:48

Time Test Ended: 11:53:48

Test Type: Conventional Bottom Hole

Tester: Allan

Unit No: 12

Interval: **6416.00 ft (KB) To 6535.00 ft (KB) (TVD)**

Total Depth: 6535.00 ft (KB) (TVD)

Hole Diameter: 7.78 inches Hole Condition: Fair

Reference Elevations: 2115.00 ft (KB)

2101.00 ft (CF)

KB to GR/CF: 14.00 ft

Serial #: 2341

Inside

Press@RunDepth: 200.24 psig @ 6418.00 ft (KB)

Start Date: 2001.08.06

End Date:

2001.08.07

Start Time: 23:02:49

End Time:

11:53:48

Capacity: 7000.00 psig

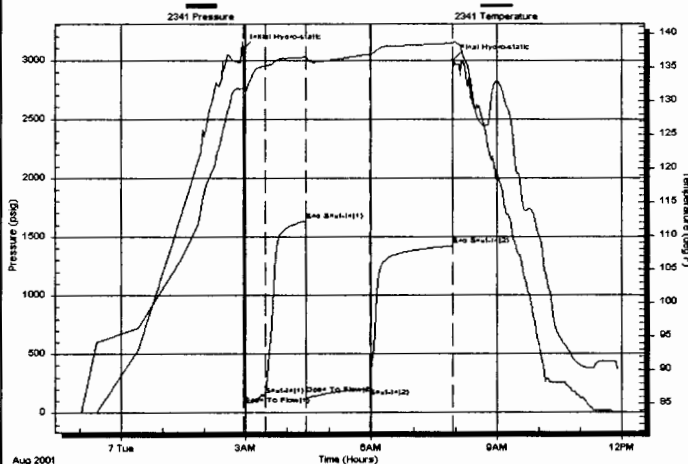
Last Calib.: 2001.01.10

Time On Btm: 2001.08.07 @ 02:56:33

Time Off Btm: 2001.08.07 @ 07:57:33

TEST COMMENT: IF- strong blow BOB in 4 min
IS- no blow back
FF- strong blow BOB ASAO gas to surface in 30 min
FS- no blow back

Pressure vs. Time



PRESSURE SUMMARY

Time (Min.)	Pressure (psig)	Temp (deg F)	Annotation
0	3094.36	131.95	Initial Hydro-static
1	62.52	131.95	Open To Flow (1)
32	139.08	135.25	Shut-In(1)
91	1634.47	136.53	End Shut-In(1)
91	150.98	136.52	Open To Flow (2)
181	200.24	136.92	Shut-In(2)
300	1420.96	138.57	End Shut-In(2)
301	3000.71	138.67	Final Hydro-static

Recovery

Length (ft)	Description	Volume (bbl)
120.00	GCM 10% G 90%M	0.59
120.00	30%G 70%M	0.59
264.00	35%G 60%O 5%M	1.30

Gas Rates

	Choke(inches)	Pressure (psig)	Gas Rate (Mcf/d)
First Gas Rate	0.13	1.00	5.76
Last Gas Rate	0.13	4.00	6.89
Max. Gas Rate	0.13	4.00	6.89



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TOOL DIAGRAM

Comanche Resources
9520 N Mary
Oklahoma City OK 73120
ATTN: Dennis Dye

Rosemary 14-1
14-32-23 Clark KS
Job Ticket: 15411 **DST#: 1**
Test Start: 2001.08.06 @ 23:02:48

Tool Information

Drill Pipe:	Length: 5776.00 ft	Diameter: 3.80 inches	Volume: 81.02 bbl	Tool Weight: 1800.00 lb
Heavy Wt. Pipe:	Length: 0.00 ft	Diameter: 0.00 inches	Volume: 0.00 bbl	Weight set on Packer: 30000.00 lb
Drill Collar:	Length: 624.00 ft	Diameter: 2.25 inches	Volume: 3.07 bbl	Weight to Pull Loose: 130000.0 lb
		Total Volume: 84.09 bbl		Tool Chased 0.00 ft
Drill Pipe Above KB:	15.00 ft			String Weight: Initial 120000.0 lb
Depth to Top Packer:	6416.00 ft			Final 12200.00 lb
Depth to Bottom Packer:	ft			
Interval between Packers:	119.00 ft			
Tool Length:	150.00 ft			
Number of Packers:	2	Diameter: 6.75 inches		

Tool Comments:

Tool Description	Length (ft)	Serial No.	Position	Depth (ft)	Accum. Lengths
C.O. Sub	1.00			6386.00	
S.I. Tool	5.00			6391.00	
Sampler	3.00			6394.00	
HMV	5.00			6399.00	
Jars	5.00			6404.00	
Safety Joint	2.00			6406.00	
Packer	5.00			6411.00	31.00 Bottom Of Top Packer
Packer	5.00			6416.00	
Stubb	1.00			6417.00	
Perforations	1.00			6418.00	
Recorder	0.00	2341	Inside	6418.00	
P.O. Sub	5.00			6423.00	
Perforations	7.00			6430.00	
C.O. Sub	1.00			6431.00	
Blank Spacing	93.00			6524.00	
C.O. Sub	1.00			6525.00	
Perforations	7.00			6532.00	
Recorder	0.00	13362	Outside	6532.00	
Bullnose	3.00			6535.00	119.00 Bottom Packers & Anchor
Total Tool Length:		150.00			



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DRILL STEM TEST REPORT

FLUID SUMMARY

Comanche Resources

Rosemary 14-1

9520 N Mary
Oklahoma City OK 73120

14-32-23 Clark KS

Job Ticket: 15411

DST#: 1

ATTN: Dennis Dye

Test Start: 2001.08.06 @ 23:02:48

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: 48.00 sec/qt

Cushion Volume:

bbl

Water Loss: 6.79 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: ppm

Filter Cake: inches

Recovery Information

Recovery Table

Length ft	Description	Volume bbl
120.00	GCM 10% G 90%M	0.590
120.00	30%G 70%M	0.590
264.00	35%G 60%O 5%M	1.298

Total Length: 504.00 ft

Total Volume: 2.478 bbl

Num Fluid Samples: 1

Num Gas Bombs: 1

Serial #: h

Laboratory Name: Caraway

Laboratory Location: Liberal KS

Recovery Comments:



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GAS RATES

Comanche Resources
9520 N Mary
Oklahoma City OK 73120
ATTN: Dennis Dye

Rosemary 14-1
14-32-23 Clark KS
Job Ticket: 15411 **DST#: 1**
Test Start: 2001.08.06 @ 23:02:48

Gas Rates Information

Temperature: 59 deg C
Relative Density: 0.65
Z Factor: 0.8

Gas Rates Table

Flow Period	Elapsed Time	Choke (mm)	Pressure (kPaa)	Gas Rate (m ³ /d)
2	10	0.13	1.00	5.76
2	20	0.13	2.50	6.33
2	30	0.13	3.00	6.51
2	40	0.13	3.50	6.70
2	50	0.13	4.00	6.89

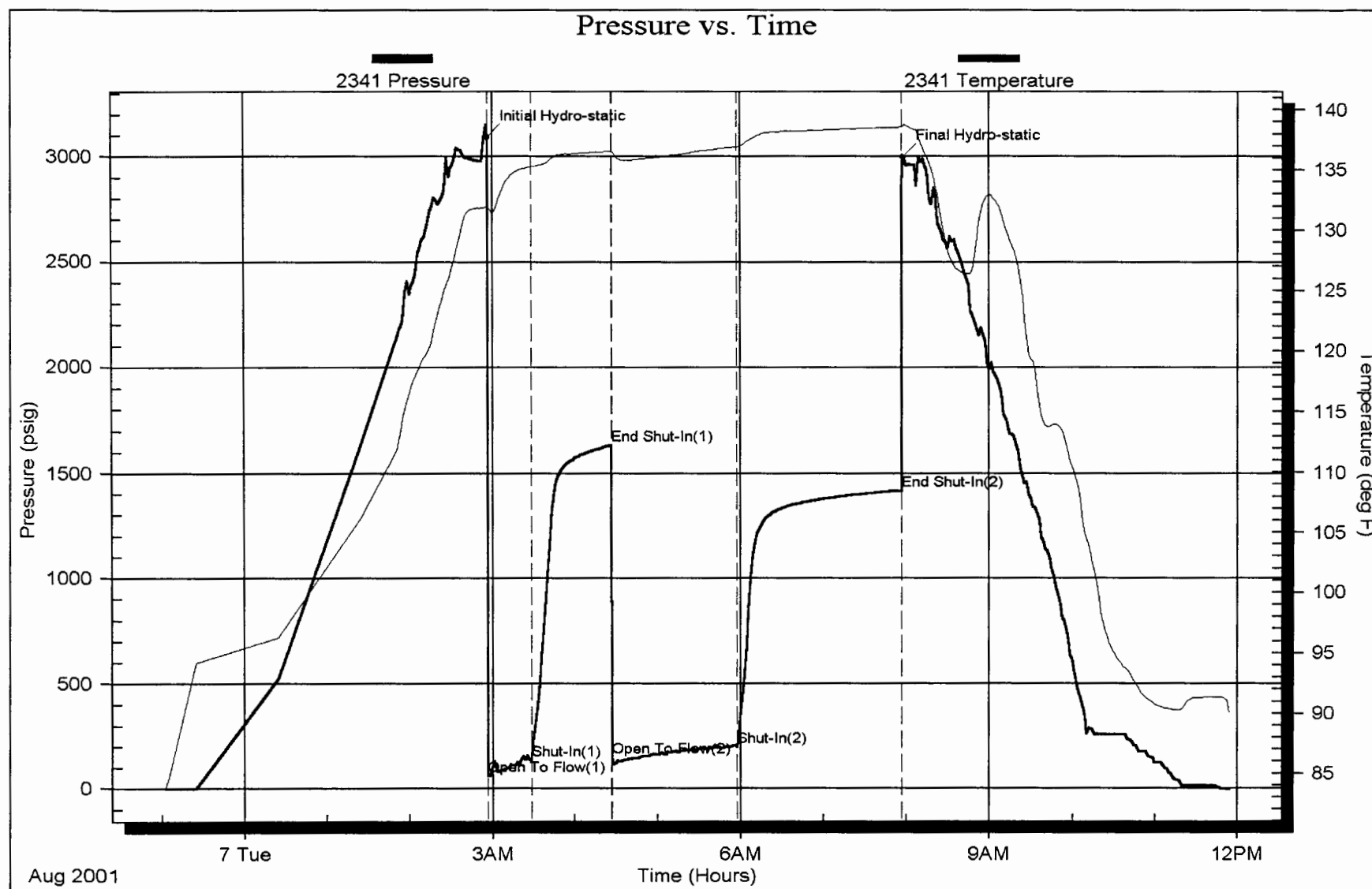
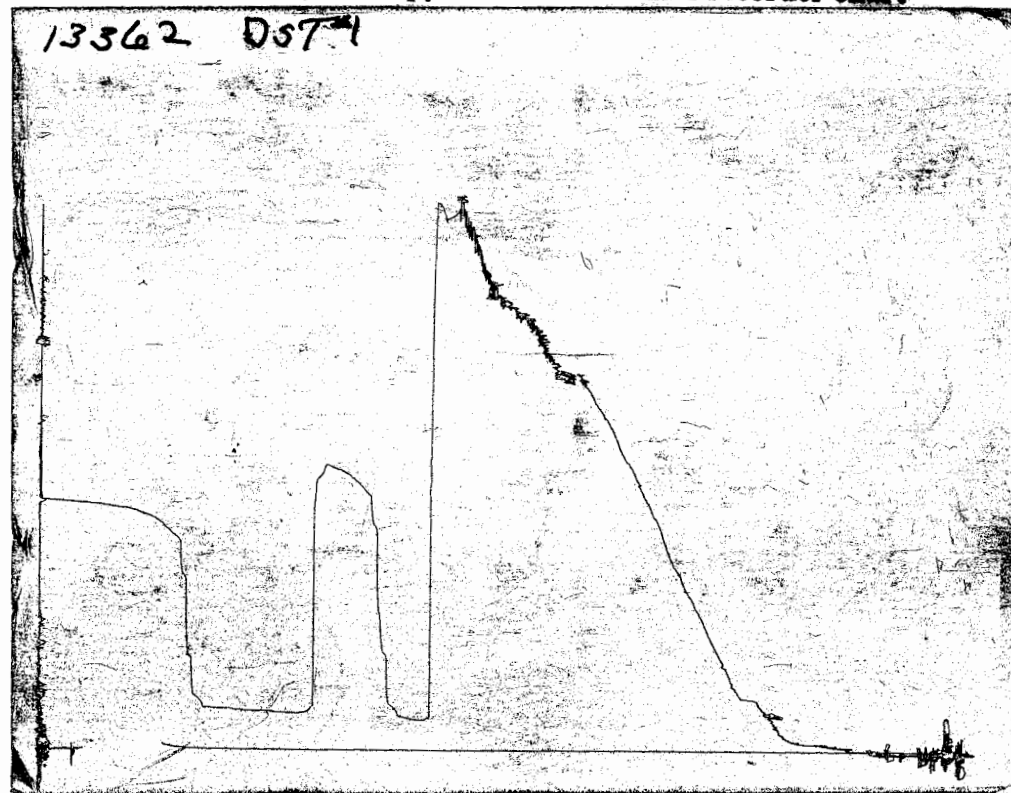


CHART PAGE

This is a photocopy of the actual AK-1 recorder chart



NATURAL GAS ANALYSIS REPORT

Sampled by:
Trilobite Testing, L. L. C.
Hays, Kansas
Scott City, Kansas
Phone: 800-728-5369
Fax: 785-625-5620

Analyzed by:
Caraway Analytical, Inc
P. O. Box 2137
Liberal, Kansas 67905
Phone: 620-624-5389
Fax: 620-626-7108

Lab Number:	20013547	Analyzed:	08/08/01
Sample From:	Rosemary 14-1 DST 1	Pressure:	
Producer:	Comanche Resources	Temperature:	
Date:		Location:	14-32-23
Time:		County:	Clark
Sampler:		State:	Kansas
Source:		Formation:	

	Mole %	GPM
Helium	He: 0.069	0.000
Hydrogen	H2: 0.114	0.000
Oxygen	O2: 0.019	0.000
Nitrogen	N2: 9.641	0.000
Carbon Dioxide	CO2: 0.019	0.000
Methane	C1: 54.127	0.000
Ethane	C2: 13.744	3.676
Propane	C3: 12.891	3.552
Iso Butane	iC4: 1.643	0.537
Normal Butane	nC4: 4.066	1.282
Iso Pentane	iC5: 0.759	0.278
Normal Pentane	nC5: 1.116	0.404
Hexanes Plus	C6+: 1.792	0.782

TOTAL: 100.000 10.511
Z Fact: 0.9944
SP.GR.: 0.9574
BTU (SAT): 1453.6 @ 14.73 psia
BTU (DRY): 1479.4 @ 14.73 psia
OCTANE RATING: 103.9

COMMENTS:

0.019