



DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc**

520 S Holland
207
Wichita KS 67209

ATTN: Kent Roberts

9-29s-18w Kiowa KS

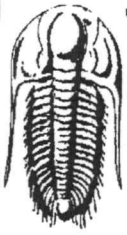
McKinley #1

Start Date: 2001.08.09 @ 22:29:57

End Date: 2001.08.10 @ 03:55:56

Job Ticket #: 14870 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

Roberts Resources Inc
520 S Holland
207
Wichita KS 67209
ATTN: Kent Roberts

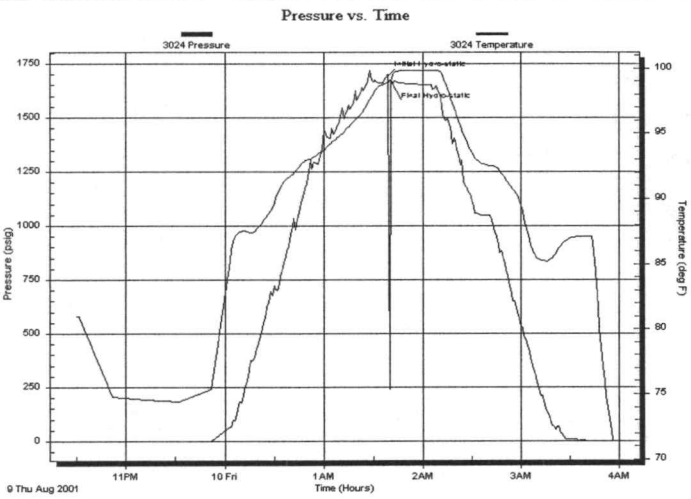
McKinley #1
9-29s-18w Kiowa KS
Job Ticket: 14870 DST#: 1
Test Start: 2001.08.09 @ 22:29:57

GENERAL INFORMATION:

Formation: **Emporia**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 01:30:00
Time Test Ended: 03:55:56
Interval: **3592.00 ft (KB) To 3630.00 ft (KB) (TVD)**
Total Depth: 3630.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition:
Test Type: Conventional Bottom Hole
Tester: Ray Schwager
Unit No: 16
Reference Elevations: 2286.00 ft (KB)
2277.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 3024 Inside
Press@RunDepth: psig @ 3593.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.08.09 End Date: 2001.08.10 Last Calib.: 2001.08.10
Start Time: 22:29:57 End Time: 03:55:56 Time On Btm: 2001.08.10 @ 01:38:56
Time Off Btm: 2001.08.10 @ 01:40:26

TEST COMMENT: had approx 30ft of fill on bottom of hole pulled tool out ,misrun



| PRESSURE SUMMARY | | | |
|------------------|-----------------|--------------|----------------------|
| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
| 0 | 1692.99 | 98.89 | Initial Hydro-static |
| 2 | 1672.72 | 99.10 | Final Hydro-static |

| Recovery | | |
|-------------|-------------|--------------|
| Length (ft) | Description | Volume (bbl) |
| 70.00 | mud | 0.98 |
| | | |
| | | |
| | | |
| | | |

| Gas Rates | | | |
|-----------|---------------|-----------------|------------------|
| | Choke(inches) | Pressure (psig) | Gas Rate (Mcf/d) |
| | | | |
| | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc

McKinley #1

520 S Holland
207
Wichita KS 67209
ATTN: Kent Roberts

9-29s-18w Kiowa KS

Job Ticket: 14870 **DST#: 1**
Test Start: 2001.08.09 @ 22:29:57

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 3604.00 ft | Diameter: 3.80 inches | Volume: 50.55 bbl | Tool Weight: 2200.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight set on Packer: 25000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 0.00 inches | Volume: 0.00 bbl | Weight to Pull Loose: 65000.00 lb |
| | | | <u>Total Volume: 50.55 bbl</u> | Tool Chased 30.00 ft |
| Drill Pipe Above KB: | 28.00 ft | | | String Weight: Initial 38000.00 lb |
| Depth to Top Packer: | 3592.00 ft | | | Final 38000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 38.02 ft | | | |
| Tool Length: | 54.02 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 | | | 3577.00 | |
| S.I. Tool | 5.00 | | | 3582.00 | |
| HMV | 5.00 | | | 3587.00 | |
| Packer | 5.00 | | | 3592.00 | 16.00 Bottom Of Top Packer |
| Packer | 0.00 | | | 3592.00 | |
| Stubb | 1.00 | | | 3593.00 | |
| Recorder | 0.01 | 3024 | Inside | 3593.01 | |
| Perforations | 34.00 | | | 3627.01 | |
| Recorder | 0.01 | 11085 | Outside | 3627.02 | |
| Bullnose | 3.00 | | | 3630.02 | 38.02 Bottom Packers & Anchor |
| Total Tool Length: | 54.02 | | | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc

McKinley #1

520 S Holland

9-29s-18w Kiowa KS

207

Job Ticket: 14870

DST#: 1

Wichita KS 67209

ATTN: Kent Roberts

Test Start: 2001.08.09 @ 22:29:57

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: 46.00 sec/qt

Cushion Volume:

bbbl

Water Loss: 11.98 in³

Gas Cushion Type:

Resistivity: ohm.m

Gas Cushion Pressure:

psig

Salinity: 4000.00 ppm

Filter Cake: 1.00 inches

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 70.00 | mud | 0.982 |

Total Length: 70.00 ft Total Volume: 0.982 bbl

Num Fluid Samples: 0

Num Gas Bombs: 0

Serial #:

Laboratory Name:

Laboratory Location:

Recovery Comments:



DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc**

520 S Holland
Suite 207
Wichita KS 67209

ATTN: Kent Roberts

9-29s-18w Kiowa KS

McKinley #1

Start Date: 2001.08.13 @ 14:16:50

End Date: 2001.08.13 @ 22:59:20

Job Ticket #: 14979 DST #: 2

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Roberts Resources Inc

McKinley #1

520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

9-29s-18w Kiowa KS
Job Ticket: 14979 **DST#: 2**
Test Start: 2001.08.13 @ 14:16:50

GENERAL INFORMATION:

Formation: **Altamont**
 Deviated: No Whipstock: ft (KB)
 Time Tool Opened: 16:19:50
 Time Test Ended: 22:59:20
 Test Type: Conventional Bottom Hole
 Tester: Darren L. Amerine
 Unit No: 19
 Interval: **4806.00 ft (KB) To 4822.00 ft (KB) (TVD)**
 Reference Elevations: 2286.00 ft (KB)
 Total Depth: 4822.00 ft (KB) (TVD)
 2277.00 ft (CF)
 Hole Diameter: 7.85 inches Hole Condition: Fair
 KB to GR/CF: 9.00 ft

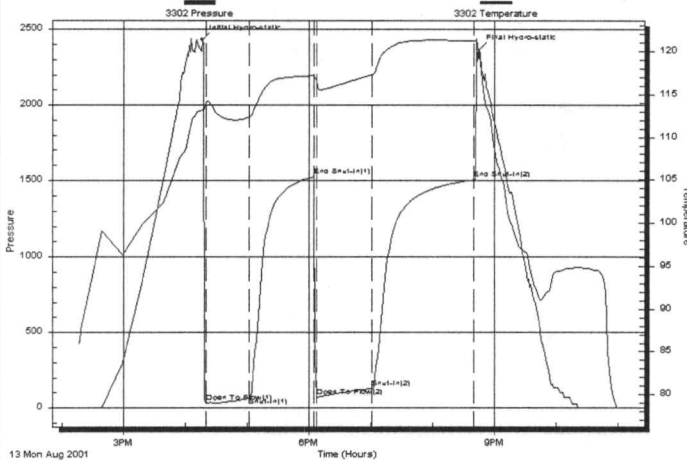
Serial #: 3302

Inside

Press@RunDepth: 129.78 psig @ 4807.00 ft (KB) Capacity: 7000.00 psig
 Start Date: 2001.08.13 End Date: 2001.08.13 Last Calib.: 2001.08.13
 Start Time: 14:16:52 End Time: 22:59:20 Time On Btm: 2001.08.13 @ 16:16:20
 Time Off Btm: 2001.08.13 @ 20:44:50

TEST COMMENT: IF: Strong blow b.o.b in 30 sec GTS in 25 mins. gauge gas.
 IS: Bled down for 10 mins. built back to 4-1/2" in H2O bucket.
 FF: Strong blow b.o.b in 10 sec. gauge gas.
 FS: Bled down for 20 mins. built b

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2431.01 | 113.22 | Initial Hydro-static |
| 4 | 34.23 | 114.03 | Open To Flow (1) |
| 46 | 63.49 | 112.40 | Shut-In(1) |
| 109 | 1525.60 | 117.19 | End Shut-In(1) |
| 111 | 67.96 | 116.60 | Open To Flow (2) |
| 165 | 129.78 | 117.31 | Shut-In(2) |
| 263 | 1505.01 | 121.23 | End Shut-In(2) |
| 269 | 2367.04 | 119.55 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|--------------------------|--------------|
| 80.00 | 52 - Mud and Gas cut Oil | 1.12 |
| 240.00 | 50 - Oil | 3.37 |
| 4498.00 | 01 - Gas | 63.10 |
| | | |
| | | |

Gas Rates

| Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|-----------------|------------------|
| | | |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc
520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

McKinley #1
9-29s-18w Kiowa KS
Job Ticket: 14979 **DST#: 2**
Test Start: 2001.08.13 @ 14:16:50

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4818.00 ft | Diameter: 3.80 inches | Volume: 67.58 bbl | Tool Weight: 2100.00 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: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 48000.00 lb |
| | | | <u>Total Volume: 67.58 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 33.00 ft | | | String Weight: Initial 42000.00 lb |
| Depth to Top Packer: | 4806.00 ft | | | Final 43000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 16.00 ft | | | |
| Tool Length: | 37.00 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 | | | 4786.00 | |
| S.I. Tool | 5.00 | | | 4791.00 | |
| HMV | 5.00 | | | 4796.00 | |
| Packer | 5.00 | | | 4801.00 | 21.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4806.00 | |
| Stubb | 1.00 | | | 4807.00 | |
| Recorder | 0.00 | 3302 | Inside | 4807.00 | |
| Anchor | 12.00 | | | 4819.00 | |
| Recorder | 0.00 | 13769 | Outside | 4819.00 | |
| Bullnose | 3.00 | | | 4822.00 | 16.00 Bottom Packers & Anchor |
| Total Tool Length: | 37.00 | | | | |



**TRILOBITE
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DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc
520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

McKinley #1
9-29s-18w Kiowa KS
Job Ticket: 14979 **DST#: 2**
Test Start: 2001.08.13 @ 14:16:50

Mud and Cushion Information

| | | | |
|----------------------------------|----------------------------|-----------------|---------|
| Mud Type: Gel Chem | Cushion Type: | Oil API: | deg API |
| Mud Weight: 10.00 lb/gal | Cushion Length: ft | Water Salinity: | ppm |
| Viscosity: 57.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 9.59 in ³ | Gas Cushion Type: | | |
| Resistivity: 1.00 ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: 5000.00 ppm | | | |
| Filter Cake: 0.32 inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|--------------------------|---------------|
| 80.00 | 52 - Mud and Gas cut Oil | 1.122 |
| 240.00 | 50 - Oil | 3.367 |
| 4498.00 | 01 - Gas | 63.095 |

Total Length: 4818.00 ft Total Volume: 67.584 bbl

Num Fluid Samples: 1 Num Gas Bombs: 0 Serial #:

Laboratory Name: Caraway Laboratory Location: Liberal KS

Recovery Comments:

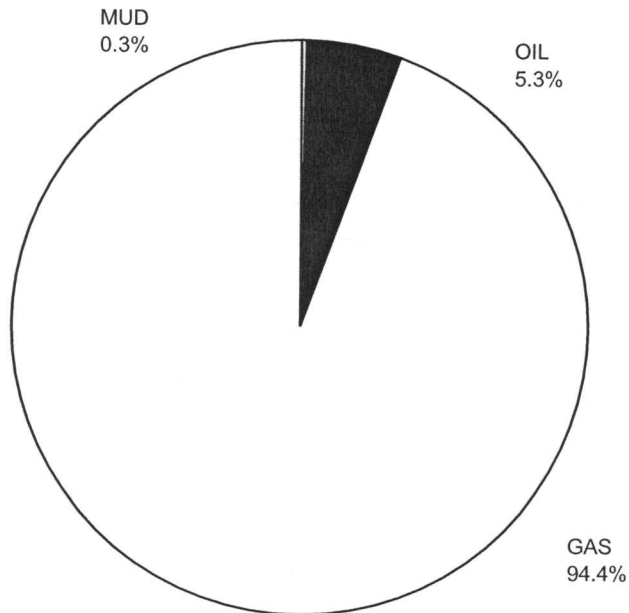
CALCULATED RECOVERY ANALYSIS

DST 2

TICKET 14979

| SAMPLE # | TOTAL FEET | GAS | | OIL | | WATER | | MUD | |
|-----------|------------|-----|------|-----|------|-------|------|-----|------|
| | | % | FEET | % | FEET | % | FEET | % | FEET |
| DRILL 1 | 4498 | 100 | 4498 | 0 | 0 | 0 | 0 | 0 | 0 |
| PIPE 2 | 240 | 0 | 0 | 100 | 240 | 0 | 0 | 0 | 0 |
| 3 | 80 | 60 | 48 | 20 | 16 | 0 | 0 | 20 | 16 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| WEIGHT 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| PIPE 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DRILL 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| COLLARS 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 4818 | 0 | 4546 | 0 | 256 | 0 | 0 | 0 | 16 |

BBL OIL= 3.64032 * HRS OPEN 1.75 = BBL/DAY 49.924389
 BBL WATER= 0 * = 0
 BBL MUD= 0.22752
 BBL GAS = 64.64412



NATURAL GAS ANALYSIS REPORT

Sampled by:
 Trilobite Testing, L. L. C.
 Hays, Kansas
 Scott City, Kansas
 Phone: 800-728-5369
 Fax: 913-625-5620

Analyzed by:
 Caraway Analytical, Inc
 P. O. Box 2137
 Liberal, Kansas 67905
 Phone: 316-624-5389
 Fax: 316-626-7108

| | |
|-----------------------------|---------------------------|
| Lab Number: 20013689 | Analyzed: 08/16/01 |
|-----------------------------|---------------------------|

| | |
|-------------------------------|--------------|
| Sample From: McKinley 1 DST 2 | Pressure: |
| Producer: Roberts Resources | Temperature: |

| | |
|--------------------------------|--|
| Date: Location: 9-29-18 | |
|--------------------------------|--|

| | | |
|----------|---------------------|--|
| Time: | County: Kiowa | |
| Sampler: | State: Kansas | |
| Source: | Formation: Altamont | |

| | Mole % | GPM |
|----------------|------------|-------|
| Helium | He: 0.027 | 0.000 |
| Hydrogen | H2: 0.011 | 0.000 |
| Oxygen | O2: 0.000 | 0.000 |
| Nitrogen | N2: 3.178 | 0.000 |
| Carbon Dioxide | CO2: 0.090 | 0.000 |
| Methane | C1: 67.259 | 0.000 |
| Ethane | C2: 8.786 | 2.350 |
| Propane | C3: 10.187 | 2.807 |
| Iso Butane | iC4: 1.559 | 0.510 |
| Normal Butane | nC4: 4.252 | 1.341 |
| Iso Pentane | iC5: 0.953 | 0.349 |
| Normal Pentane | nC5: 1.376 | 0.498 |
| Hexanes Plus | C6+: 2.322 | 1.013 |

TOTAL: 100.000 8.868

Z Fact: 0.9945

SP.GR.: 0.9057

BTU (SAT): 1478.5 @ 14.73 psia

BTU (DRY): 1504.6 @ 14.73 psia

OCTANE RATING: 113.7

COMMENTS:

0.000

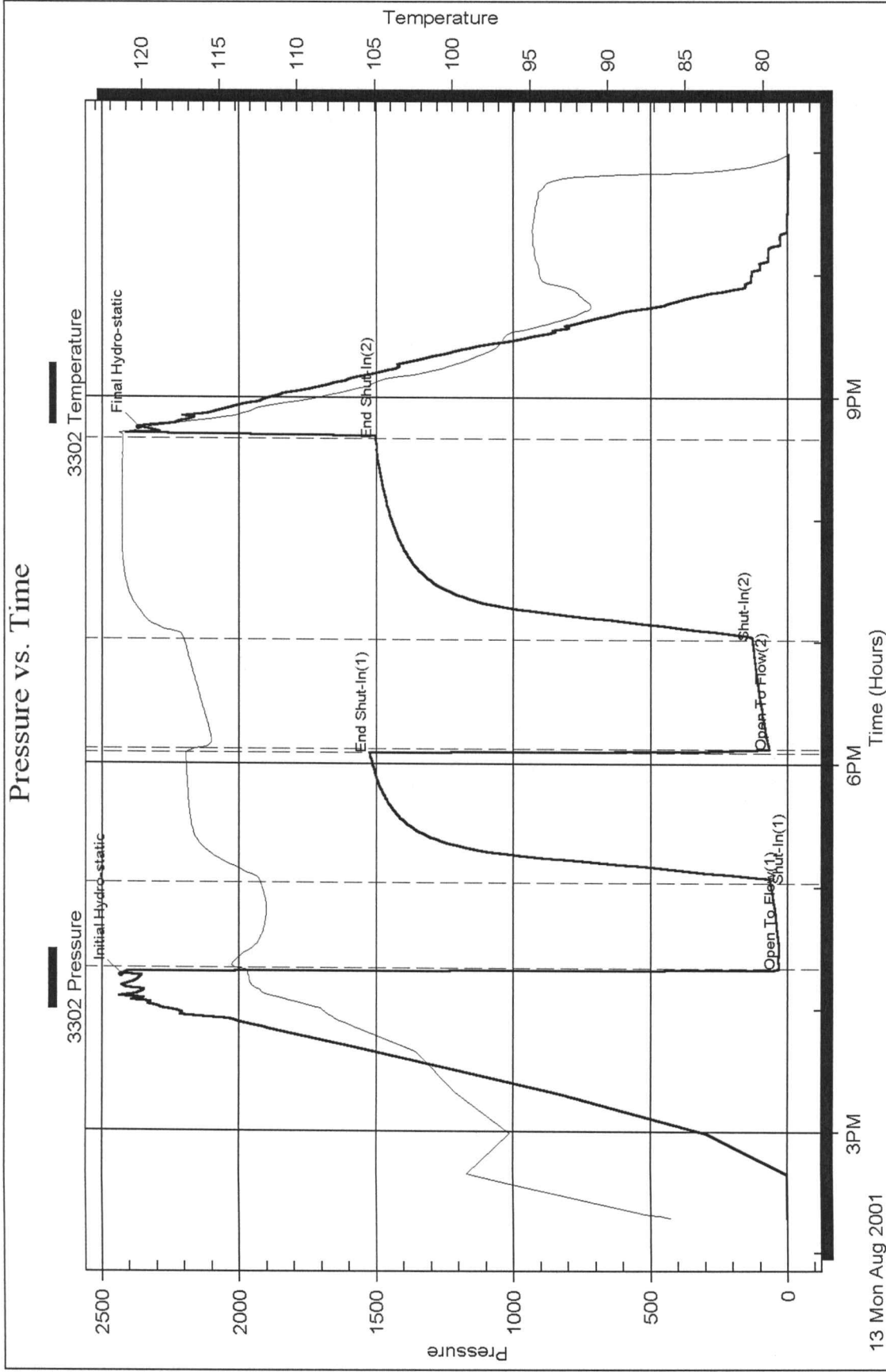
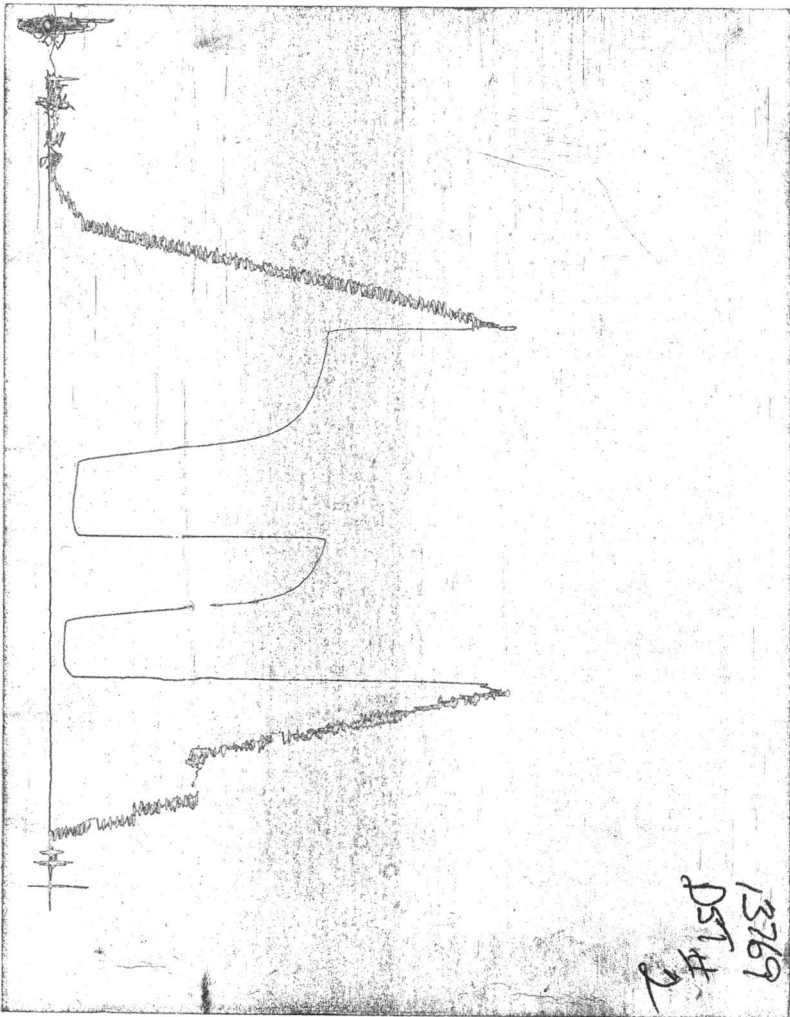


CHART PAGE

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





DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc**

520 S Holland
Suite 207
Wichita KS 67209

ATTN: Kent Roberts

9-29s-18w Kiowa KS

McKinley #1

Start Date: 2001.08.14 @ 12:44:15

End Date: 2001.08.14 @ 20:24:15

Job Ticket #: 1478 DST #: 3

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Roberts Resources Inc

McKinley #1

520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

9-29s-18w Kiowa KS

Job Ticket: 1478 **DST#: 3**
Test Start: 2001.08.14 @ 12:44:15

GENERAL INFORMATION:

Formation: **Pawnee**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 14:23:45

Time Test Ended: 20:24:15

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **4835.00 ft (KB) To 4884.00 ft (KB) (TVD)**

Total Depth: 4884.00 ft (KB) (TVD)

Hole Diameter: 7.85 inches Hole Condition: Fair

Reference Elevations: 2286.00 ft (KB)

2277.00 ft (CF)

KB to GR/CF: 9.00 ft

Serial #: 3017

Inside

Press@RunDepth: 81.30 psig @ 4838.01 ft (KB)

Start Date: 2001.08.14 End Date: 2001.08.14

Start Time: 12:44:16 End Time: 20:24:15

Capacity: 7000.00 psig

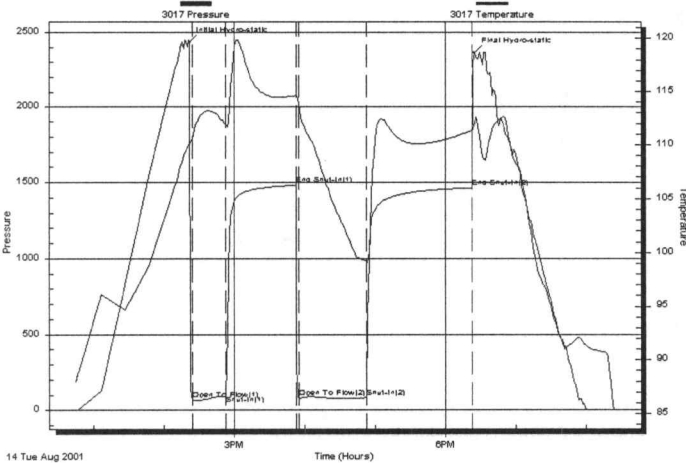
Last Calib.: 2001.08.14

Time On Btm: 2001.08.14 @ 14:21:45

Time Off Btm: 2001.08.14 @ 18:24:45

TEST COMMENT: IF-Strong B.O.B. 30 Sec. Gas to Surface in 7 min.
FF- Strong B.O.B.10 Sec.

Pressure vs. Time



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2432.97 | 110.11 | Initial Hydro-static |
| 2 | 66.46 | 110.52 | Open To Flow (1) |
| 31 | 92.79 | 111.84 | Shut-In(1) |
| 91 | 1482.48 | 114.64 | End Shut-In(1) |
| 93 | 78.13 | 113.80 | Open To Flow (2) |
| 151 | 81.30 | 99.18 | Shut-In(2) |
| 241 | 1466.26 | 111.33 | End Shut-In(2) |
| 243 | 2364.08 | 112.05 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|----------------------|--------------|
| 100.00 | Mud w Few oil specks | 1.40 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| | Choke(inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|---------------|-----------------|------------------|
| First Gas Rate | 0.38 | 16.00 | 111.36 |
| Last Gas Rate | 0.50 | 14.00 | 191.58 |
| Max. Gas Rate | 0.38 | 28.00 | 155.32 |



**TRILOBITE
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DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc
520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

McKinley #1
9-29s-18w Kiowa KS
Job Ticket: 1478 **DST#: 3**
Test Start: 2001.08.14 @ 12:44:15

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4818.00 ft | Diameter: 3.80 inches | Volume: 67.58 bbl | Tool Weight: 3000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.70 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 45000.00 lb |
| | | | <u>Total Volume: 67.58 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 3.00 ft | | | String Weight: Initial 42000.00 lb |
| Depth to Top Packer: | 4835.00 ft | | | Final 42000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 49.02 ft | | | |
| Tool Length: | 69.02 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------------|
| C.O. Sub | 1.00 | | | 4816.00 | |
| S.I. Tool | 5.00 | | | 4821.00 | |
| HMV | 5.00 | | | 4826.00 | |
| Packer | 4.00 | | | 4830.00 | 20.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4835.00 | |
| Stubb | 1.00 | | | 4836.00 | |
| Perforations | 1.00 | | | 4837.00 | |
| C.O. Sub | 1.00 | | | 4838.00 | |
| Recorder | 0.01 | 3017 | Inside | 4838.01 | |
| Blank Spacing | 30.00 | | | 4868.01 | |
| C.O. Sub | 1.00 | | | 4869.01 | |
| Perforations | 12.00 | | | 4881.01 | |
| Recorder | 0.01 | 13308 | Outside | 4881.02 | |
| Bullnose | 3.00 | | | 4884.02 | 49.02 Bottom Packers & Anchor |

Total Tool Length: 69.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc
520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

McKinley #1
9-29s-18w Kiowa KS
Job Ticket: 1478 **DST#: 3**
Test Start: 2001.08.14 @ 12:44:15

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: 58.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 11.95 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|----------------------|---------------|
| 100.00 | Mud w Few oil specks | 1.403 |

Total Length: 100.00 ft Total Volume: 1.403 bbl
Num Fluid Samples: 0 Num Gas Bombs: 0 Serial #:
Laboratory Name: Laboratory Location:
Recovery Comments:

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: 20013721 | Analyzed: 08/19/01 |
| Sample From: McKinley 1 DST 3 | Pressure: |
| Producer: Roberts Resources | Temperature: |
| Date: Location: 9-29-18 | |
| Time: | County: Kiowa |
| Sampler: | State: Kansas |
| Source: | Formation: Pawnee |

| | Mole % | GPM |
|----------------|------------|-------|
| Helium | He: 0.156 | 0.000 |
| Hydrogen | H2: 0.005 | 0.000 |
| Oxygen | O2: 0.000 | 0.000 |
| Nitrogen | N2: 5.175 | 0.000 |
| Carbon Dioxide | CO2: 0.048 | 0.000 |
| Methane | C1: 82.300 | 0.000 |
| Ethane | C2: 4.507 | 1.205 |
| Propane | C3: 3.660 | 1.009 |
| Iso Butane | iC4: 0.587 | 0.192 |
| Normal Butane | nC4: 1.670 | 0.527 |
| Iso Pentane | iC5: 0.457 | 0.167 |
| Normal Pentane | nC5: 0.534 | 0.193 |
| Hexanes Plus | C6+: 0.901 | 0.393 |

TOTAL: 100.000 3.686

Z Fact: 0.9970

SP.GR.: 0.7108

BTU (SAT): 1148.4 @ 14.73 psia

BTU (DRY): 1168.7 @ 14.73 psia

OCTANE RATING: 118.1

COMMENTS:

0.000



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources Inc

McKinley #1

520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

9-29s-18w Kiowa KS

Job Ticket: 1478

DST#: 3

Test Start: 2001.08.14 @ 12:44:15

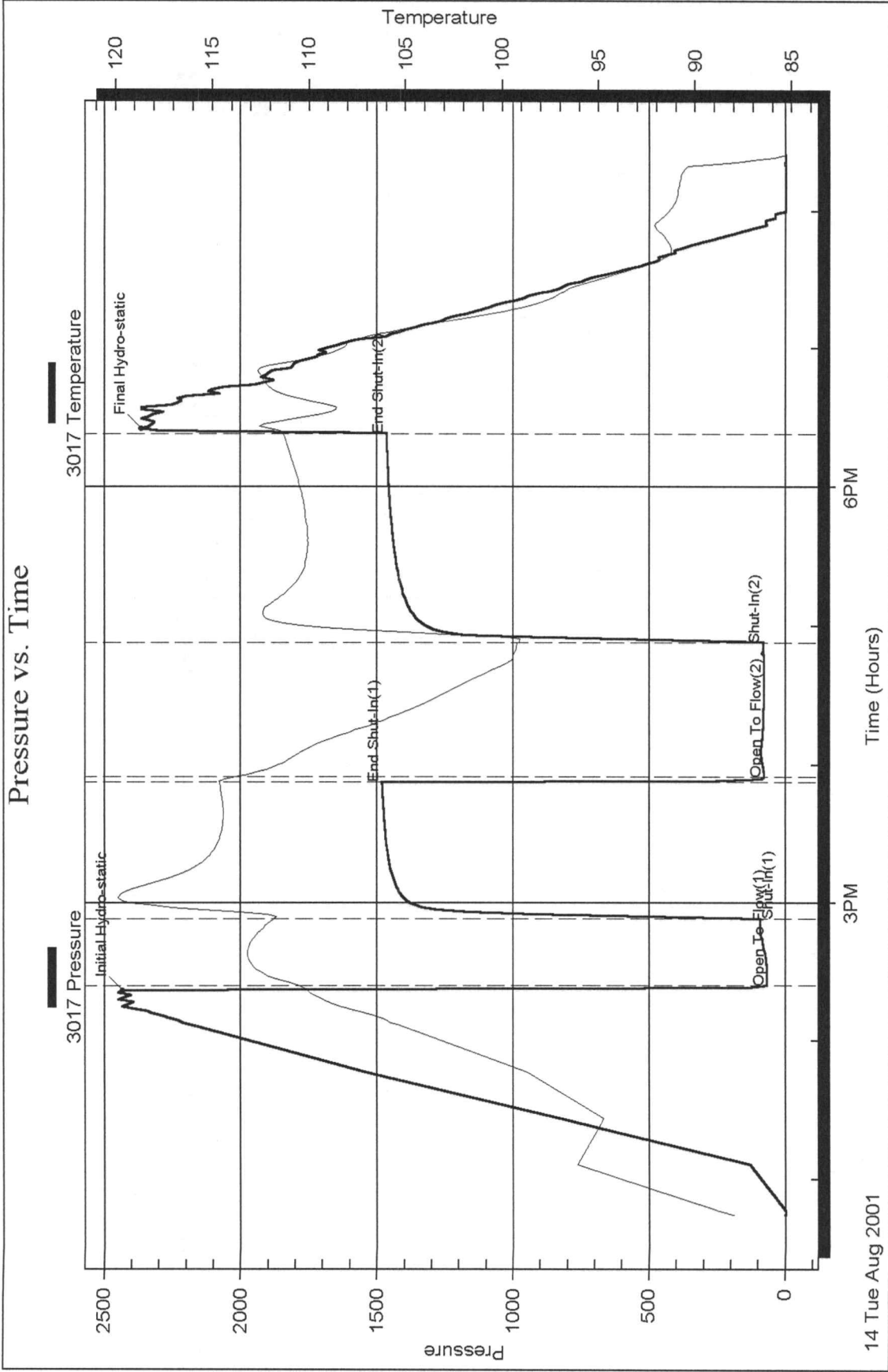
Gas Rates Information

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) |
|-------------|--------------|------------|-----------------|------------------------------|
| 1 | 10 | 0.38 | 16.00 | 111.36 |
| 1 | 20 | 0.38 | 26.00 | 147.99 |
| 1 | 30 | 0.38 | 27.00 | 151.66 |
| 2 | 10 | 0.38 | 28.00 | 155.32 |
| 2 | 20 | 0.50 | 20.00 | 232.05 |
| 2 | 30 | 0.50 | 17.00 | 211.82 |
| 2 | 40 | 0.50 | 15.00 | 198.32 |
| 2 | 50 | 0.50 | 15.00 | 198.32 |
| 2 | 60 | 0.50 | 14.00 | 191.58 |

Pressure vs. Time



14 Tue Aug 2001



DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc**

520 S Holland
Suite 207
Wichita KS 67209

ATTN: Kent Roberts

9-29s-18w Kiowa KS

McKinley #1

Start Date: 2001.08.15 @ 10:13:13

End Date: 2001.08.15 @ 18:35:13

Job Ticket #: 14781 DST #: 4

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

Roberts Resources Inc
520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

McKinley #1
9-29s-18w Kiowa KS
Job Ticket: 14781 **DST#: 4**
Test Start: 2001.08.15 @ 10:13:13

GENERAL INFORMATION:

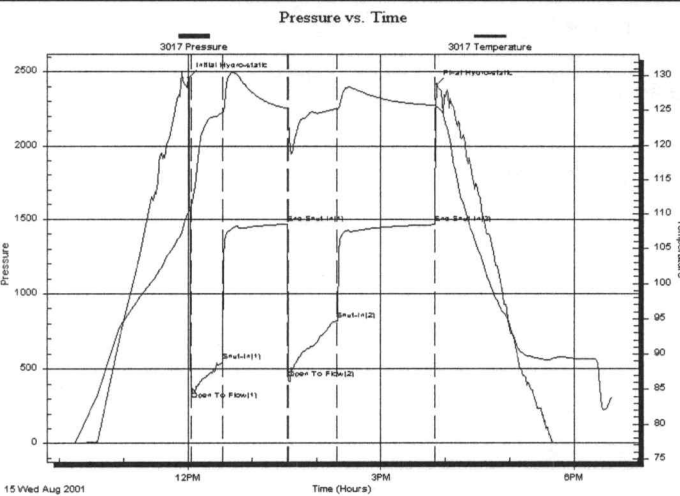
Formation: **Miss.**
Deviated: No Whipstock: ft (KB)
Time Tool Opened: 12:03:13
Time Test Ended: 18:35:13
Interval: **4934.00 ft (KB) To 4965.00 ft (KB) (TVD)**
Total Depth: 4884.00 ft (KB) (TVD)
Hole Diameter: 7.85 inches Hole Condition: Fair
Test Type: Conventional Bottom Hole
Tester: John Schmidt
Unit No: 18
Reference Elevations: 2286.00 ft (KB)
2277.00 ft (CF)
KB to GR/CF: 9.00 ft

Serial #: 3017

Inside

Press@RunDepth: 817.02 psig @ 4937.01 ft (KB) Capacity: 7000.00 psig
Start Date: 2001.08.15 End Date: 2001.08.15 Last Calib.: 2001.08.15
Start Time: 10:13:14 End Time: 18:35:13 Time On Btm: 2001.08.15 @ 12:01:13
Time Off Btm: 2001.08.15 @ 15:52:13

TEST COMMENT: IF-Strong B.O.B. 15 sec. G.T.S. in 2 min.
FF- Strong B.O.B. 25 sec. M.T.S. 27 min. W.T.S.45 min.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2460.71 | 110.57 | Initial Hydro-static |
| 2 | 288.58 | 111.30 | Open To Flow (1) |
| 31 | 544.99 | 124.75 | Shut-In(1) |
| 91 | 1466.58 | 125.24 | End Shut-In(1) |
| 92 | 427.43 | 123.85 | Open To Flow (2) |
| 138 | 817.02 | 125.26 | Shut-In(2) |
| 229 | 1463.92 | 125.74 | End Shut-In(2) |
| 231 | 2414.01 | 125.53 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 980.00 | Salt Water | 13.75 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| | Choke(inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|---------------|-----------------|------------------|
| First Gas Rate | 0.75 | 50.00 | 1005.92 |
| Last Gas Rate | 0.50 | 50.00 | 434.42 |
| Max. Gas Rate | 0.50 | 70.00 | 569.34 |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc
520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

McKinley #1
9-29s-18w Kiowa KS
Job Ticket: 14781 **DST#: 4**
Test Start: 2001.08.15 @ 10:13:13

Tool Information

| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4938.00 ft | Diameter: 3.80 inches | Volume: 69.27 bbl | Tool Weight: 2500.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.70 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: lb |
| | | | <u>Total Volume: 69.27 bbl</u> | Tool Chased ft |
| Drill Pipe Above KB: | 26.00 ft | | | String Weight: Initial 46000.00 lb |
| Depth to Top Packer: | 4934.00 ft | | | Final lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 31.02 ft | | | |
| Tool Length: | 53.02 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------------|
| C.O. Sub | 1.00 | | | 4913.00 | |
| S.I. Tool | 5.00 | | | 4918.00 | |
| HMV | 5.00 | | | 4923.00 | |
| Safety Joint | 2.00 | | | 4925.00 | |
| Packer | 4.00 | | | 4929.00 | 22.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4934.00 | |
| Stubb | 1.00 | | | 4935.00 | |
| Perforations | 2.00 | | | 4937.00 | |
| Recorder | 0.01 | 3017 | Inside | 4937.01 | |
| Perforations | 25.00 | | | 4962.01 | |
| Recorder | 0.01 | 13308 | Outside | 4962.02 | |
| Bullnose | 3.00 | | | 4965.02 | 31.02 Bottom Packers & Anchor |

Total Tool Length: 53.02



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc

McKinley #1

520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

9-29s-18w Kiowa KS
Job Ticket: 14781 **DST#: 4**
Test Start: 2001.08.15 @ 10:13:13

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: | 30000 ppm |
| Viscosity: 64.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 10.37 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 980.00 | Salt Water | 13.747 |

Total Length: 980.00 ft Total Volume: 13.747 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

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: 20013722 | Analyzed: 08/19/01 |
|-----------------------------|---------------------------|

| | |
|-------------------------------|--------------|
| Sample From: McKinley 1 DST 4 | Pressure: |
| Producer: Roberts Resources | Temperature: |

| | |
|--------------------------------|--|
| Date: Location: 9-29-18 | |
|--------------------------------|--|

| | | |
|----------|-----------------|--|
| Time: | County: Kiowa | |
| Sampler: | State: Kansas | |
| Source: | Formation: Miss | |

| | Mole % | GPM |
|----------------|------------|-------|
| Helium | He: 0.139 | 0.000 |
| Hydrogen | H2: 0.001 | 0.000 |
| Oxygen | O2: 0.000 | 0.000 |
| Nitrogen | N2: 1.923 | 0.000 |
| Carbon Dioxide | CO2: 0.113 | 0.000 |
| Methane | C1: 91.603 | 0.000 |
| Ethane | C2: 3.074 | 0.822 |
| Propane | C3: 1.022 | 0.282 |
| Iso Butane | iC4: 0.175 | 0.057 |
| Normal Butane | nC4: 0.380 | 0.120 |
| Iso Pentane | iC5: 0.153 | 0.056 |
| Normal Pentane | nC5: 0.191 | 0.069 |
| Hexanes Plus | C6+: 1.226 | 0.535 |

TOTAL: 100.000 1.941

Z Fact: 0.9975
 SP.GR.: 0.6364

BTU (SAT): 1086.1 @ 14.73 psia
 BTU (DRY): 1105.3 @ 14.73 psia

OCTANE RATING: 124.2

COMMENTS:

0.000



TRILOBITE
TESTING, INC.

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources Inc

McKinley #1

520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

9-29s-18w Kiowa KS

Job Ticket: 14781

DST#: 4

Test Start: 2001.08.15 @ 10:13:13

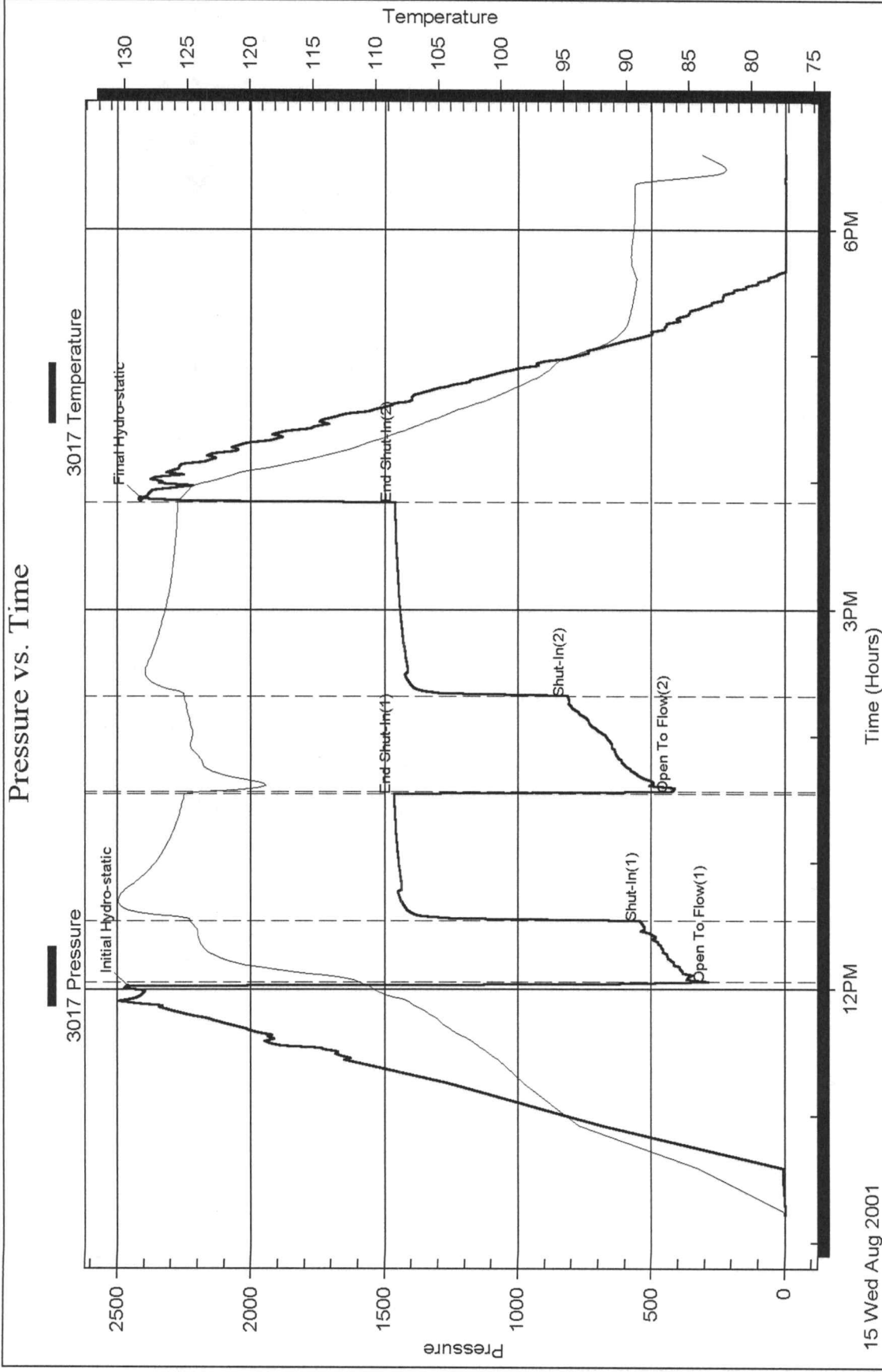
Gas Rates Information

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) |
|-------------|--------------|------------|-----------------|------------------------------|
| 1 | 10 | 0.75 | 50.00 | 1005.92 |
| 1 | 20 | 0.75 | 50.00 | 1005.92 |
| 1 | 30 | 0.75 | 40.00 | 849.72 |
| 2 | 10 | 0.50 | 60.00 | 501.88 |
| 2 | 20 | 0.50 | 70.00 | 569.34 |
| 2 | 27 | 0.50 | 50.00 | 434.42 |

Pressure vs. Time





RILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601 • (913) 625-4778

GAS VOLUME REPORT

ROBERTS RES. INC.

MCKINLEY #1

4

OPERATOR

WELL NAME AND NO.

DST NO.

1ST OPEN

2ND OPEN

| Min. | Ins. of Water PSIG | Orifice Size | MCF/D | Min. | Ins. of Water PSIG | Orifice Size | MCF/D |
|------|-----------------------|--------------|---------|---------------|-----------------------|--------------|---------|
| 10 | 50 | 48/64 | 939,300 | 10 | 60 | 32/64 | 501,879 |
| 20 | 50 | 48/64 | 939,300 | 20 | 70 | " | 569,336 |
| 30 | 40 | " | 793,900 | 30 | 50 | " | 434,422 |
| | | | | 40 | | | |
| | | | | 50 | | | |
| | | | | 60 | | | |

WATER TO SURF.
IN 45-MIN.

2ND OPEN

Remarks:

GAS TO SURFACE 2 min.

MUD TO SURF.
IN 27 min.



DRILL STEM TEST REPORT

Prepared For: **Roberts Resources Inc**

520 S Holland
Suite 207
Wichita KS 67209

ATTN: Kent Roberts

9-29s-18w Kiowa KS

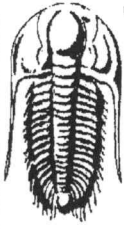
McKinley #1

Start Date: 2001.08.16 @ 01:44:34

End Date: 2001.08.16 @ 09:02:34

Job Ticket #: 14782 DST #: 5

Trilobite Testing, Inc
PO Box 362 Hays, KS 67601
ph: 785-625-4778 fax: 785-625-5620



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

Roberts Resources Inc

McKinley #1

520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

9-29s-18w Kiowa KS

Job Ticket: 14782

DST#: 5

Test Start: 2001.08.16 @ 01:44:34

GENERAL INFORMATION:

Formation: **MISS.**

Deviated: No Whipstock: ft (KB)

Time Tool Opened: 04:23:04

Time Test Ended: 09:02:34

Test Type: Conventional Bottom Hole

Tester: John Schmidt

Unit No: 18

Interval: **4966.00 ft (KB) To 4979.00 ft (KB) (TVD)**

Reference Elevations: 2286.00 ft (KB)

Total Depth: 4979.00 ft (KB) (TVD)

2277.00 ft (CF)

Hole Diameter: 7.85 inches Hole Condition: Fair

KB to GR/CF: 9.00 ft

Serial #: 3017

Inside

Press@RunDepth: 723.93 psig @ 4967.01 ft (KB)

Capacity: 7000.00 psig

Start Date: 2001.08.16

End Date:

2001.08.16

Last Calib.: 2001.01.22

Start Time: 01:44:35

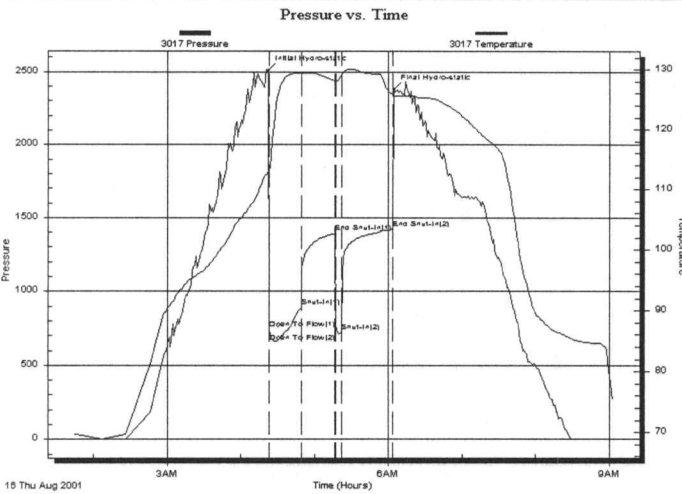
End Time:

09:02:34

Time On Btm: 2001.08.16 @ 04:22:34

Time Off Btm: 2001.08.16 @ 06:04:34

TEST COMMENT: IF-Strong B.O.B. 30 sec. G.T.S. 3.5 min. M.T.S.18 min. W.T.S.25 min.
FF-Strong B.O.B.30 sec.



PRESSURE SUMMARY

| Time (Min.) | Pressure (psig) | Temp (deg F) | Annotation |
|-------------|-----------------|--------------|----------------------|
| 0 | 2508.72 | 112.94 | Initial Hydro-static |
| 1 | 743.64 | 113.13 | Open To Flow (1) |
| 27 | 889.08 | 129.42 | Shut-In(1) |
| 54 | 1391.08 | 128.07 | End Shut-In(1) |
| 55 | 709.25 | 128.02 | Open To Flow (2) |
| 60 | 723.93 | 129.28 | Shut-In(2) |
| 101 | 1417.61 | 125.73 | End Shut-In(2) |
| 102 | 2377.76 | 125.64 | Final Hydro-static |

Recovery

| Length (ft) | Description | Volume (bbl) |
|-------------|-------------|--------------|
| 1065.00 | Salt Water | 14.94 |
| | | |
| | | |
| | | |
| | | |

Gas Rates

| | Choke (inches) | Pressure (psig) | Gas Rate (Mcf/d) |
|----------------|----------------|-----------------|------------------|
| First Gas Rate | 0.50 | 50.00 | 434.42 |



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

TOOL DIAGRAM

Roberts Resources Inc

McKinley #1

520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

9-29s-18w Kiowa KS
Job Ticket: 14782 DST#: 5
Test Start: 2001.08.16 @ 01:44:34

Tool Information

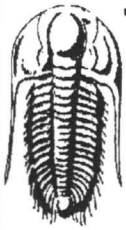
| | | | | |
|---------------------------|--------------------|-----------------------|--------------------------------|------------------------------------|
| Drill Pipe: | Length: 4970.00 ft | Diameter: 3.80 inches | Volume: 69.72 bbl | Tool Weight: 2000.00 lb |
| Heavy Wt. Pipe: | Length: 0.00 ft | Diameter: 2.70 inches | Volume: 0.00 bbl | Weight set on Packer: 20000.00 lb |
| Drill Collar: | Length: 0.00 ft | Diameter: 2.25 inches | Volume: 0.00 bbl | Weight to Pull Loose: 105000.0 lb |
| | | | <u>Total Volume: 69.72 bbl</u> | Tool Chased 0.00 ft |
| Drill Pipe Above KB: | 26.00 ft | | | String Weight: Initial 48000.00 lb |
| Depth to Top Packer: | 4966.00 ft | | | Final 51000.00 lb |
| Depth to Bottom Packer: | ft | | | |
| Interval between Packers: | 13.02 ft | | | |
| Tool Length: | 35.02 ft | | | |
| Number of Packers: | 2 | Diameter: 6.75 inches | | |

Tool Comments:

Tool Description

| Tool Description | Length (ft) | Serial No. | Position | Depth (ft) | Accum. Lengths |
|------------------|-------------|------------|----------|------------|------------------------------------|
| C.O. Sub | 1.00 | | | 4945.00 | |
| S.I. Tool | 5.00 | | | 4950.00 | |
| HMV | 5.00 | | | 4955.00 | |
| Safety Joint | 2.00 | | | 4957.00 | |
| Packer | 4.00 | | | 4961.00 | 22.00 Bottom Of Top Packer |
| Packer | 5.00 | | | 4966.00 | |
| Stubb | 1.00 | | | 4967.00 | |
| Recorder | 0.01 | 3017 | Inside | 4967.01 | |
| Perforations | 9.00 | | | 4976.01 | |
| Recorder | 0.01 | 13308 | Outside | 4976.02 | |
| Bullnose | 3.00 | | | 4979.02 | 13.02 Bottom Packers & Anchor |

Total Tool Length: 35.02



**TRILOBITE
TESTING, INC**

DRILL STEM TEST REPORT

FLUID SUMMARY

Roberts Resources Inc
520 S Holland
Suite 207
Wichita KS 67209
ATTN: Kent Roberts

McKinley #1
9-29s-18w Kiowa KS
Job Ticket: 14782 **DST#: 5**
Test Start: 2001.08.16 @ 01:44:34

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: | 90000 ppm |
| Viscosity: 58.00 sec/qt | Cushion Volume: bbl | | |
| Water Loss: 11.93 in ³ | Gas Cushion Type: | | |
| Resistivity: ohm.m | Gas Cushion Pressure: psig | | |
| Salinity: ppm | | | |
| Filter Cake: inches | | | |

Recovery Information

Recovery Table

| Length ft | Description | Volume bbl |
|--------------|-------------|---------------|
| 1065.00 | Salt Water | 14.939 |

Total Length: 1065.00 ft Total Volume: 14.939 bbl

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

Laboratory Name: Laboratory Location:

Recovery Comments:

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: 20013723 | Analyzed: 08/19/01 |
|-----------------------------|---------------------------|

| | |
|-------------------------------|--------------|
| Sample From: McKinley 1 DST 5 | Pressure: |
| Producer: Roberts Resources | Temperature: |

| | |
|--------------------------------|--|
| Date: Location: 9-29-18 | |
|--------------------------------|--|

| | | |
|----------|-----------------|--|
| Time: | County: Kiowa | |
| Sampler: | State: Kansas | |
| Source: | Formation: Miss | |

| | Mole % | GPM |
|----------------|------------|-------|
| Helium | He: 0.142 | 0.000 |
| Hydrogen | H2: 0.010 | 0.000 |
| Oxygen | O2: 0.000 | 0.000 |
| Nitrogen | N2: 1.988 | 0.000 |
| Carbon Dioxide | CO2: 0.021 | 0.000 |
| Methane | C1: 92.807 | 0.000 |
| Ethane | C2: 3.095 | 0.828 |
| Propane | C3: 1.005 | 0.277 |
| Iso Butane | iC4: 0.165 | 0.054 |
| Normal Butane | nC4: 0.329 | 0.104 |
| Iso Pentane | iC5: 0.098 | 0.036 |
| Normal Pentane | nC5: 0.095 | 0.034 |
| Hexanes Plus | C6+: 0.245 | 0.107 |

TOTAL: 100.000 1.440

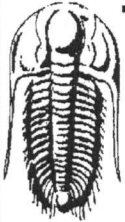
Z Fact: 0.9978
 SP.GR.: 0.6054

BTU (SAT): 1040.2 @ 14.73 psia
 BTU (DRY): 1058.6 @ 14.73 psia

OCTANE RATING: 125.4

COMMENTS:

0.000



**TRILOBITE
TESTING, INC.**

DRILL STEM TEST REPORT

GAS RATES

Roberts Resources Inc

McKinley #1

520 S Holland

9-29s-18w Kiowa KS

Suite 207

Job Ticket: 14782

DST#: 5

Wichita KS 67209

ATTN: Kent Roberts

Test Start: 2001.08.16 @ 01:44:34

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) |
|-------------|--------------|------------|-----------------|------------------------------|
| 1 | 10 | 0.50 | 50.00 | 434.42 |

Pressure vs. Time

