

Well Name: Oscar Smith #2  
Company: MTM Petroleum  
Location: 2-31s-7w  
Harper County Kansas  
Date: 11-27-98

# TRILOBITE TESTING L.L.C.

OPERATOR : MTM Petroleum

DATE 11-24-98

WELL NAME: Oscar Smith #2

KB 1583.00 ft

TICKET NO: 11316 DST #1

LOCATION : Sec 02 31s 07w Harper KS

GR 1575.00 ft

FORMATION: Mississippian

INTERVAL : 4310.00 To 4331.00 ft

TD 4331.00 ft

TEST TYPE: CONV

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 24174  | 24174  | 3246   |     |     | PF Fr. 2317 to 2347 hr |
| SI 30 Range(Psi ) | 3050.0 | 3050.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 2347 to 0017 hr |
| SF 60 Clock(hrs)  | 12hr   | 12hr   | batt   |     |     | SF Fr. 0017 to 0117 hr |
| FS 60 Depth(ft )  | 4326.0 | 4326.0 | 4213.0 | 0.0 | 0.0 | FS Fr. 0117 to 0217 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2268.0 | 2280.0 | 2183.0 | 0.0 | 0.0 | T STARTED 2146 hr             |
| B. First Flow  | 52.0   | 69.0   | 28.0   | 0.0 | 0.0 | T ON BOTM 2315 hr             |
| B1. Final Flow | 52.0   | 72.0   | 55.0   | 0.0 | 0.0 | T OPEN 2317 hr                |
| C. In Shut-in  | 1085.0 | 1085.0 | 1080.0 | 0.0 | 0.0 | T PULLED 0217 hr              |
| D. Init Flow   | 74.0   | 99.0   | 75.0   | 0.0 | 0.0 | T OUT 0400 hr                 |
| E. Final Flow  | 97.0   | 108.0  | 84.0   | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 1085.0 | 1085.0 | 1075.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2112.0 | 2117.0 | 2036.0 | 0.0 | 0.0 | Tool Wt. 1900.00 lbs          |
| Inside/Outside | o      | o      | i      |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 60000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 42000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 42000.00 lbs  |
|                |        |        |        |     |     | Bot Choke 0.75 in             |
|                |        |        |        |     |     | Hole Size 7.88 in             |
|                |        |        |        |     |     | D Col. ID 0.00 in             |
|                |        |        |        |     |     | D. Pipe ID 3.80 in            |
|                |        |        |        |     |     | D.C. Length 0.00 ft           |
|                |        |        |        |     |     | D.P. Length 4298.00 ft        |

## RECOVERY

Tot Fluid 120.00 ft of 0.00 ft in DC and 120.00 ft in DP

0.00 ft of

120.00 ft of mud

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

0.00 ft of

SALINITY 0.00 P.P.M. A.P.I. Gravity 0.00

## BLOW DESCRIPTION

Initial Flow--

Strong--bottom of bucket as soon as tool opened. Gas to surface in 18 minutes; see report

Initial Shutin--

no blow

Final Flow--

Strong-- gauging gas

Had to flare gas as wind changed directions

SAMPLES: none taken per orders

SENT TO:

## MUD DATA-----

Mud Type Chemical

Weight 9.30 lb/cf

Vis. 66.00 S/L

W.L. 13.10 in3

F.C. 0.00 in

Mud Drop

Amt. of fill 0.00 ft

Btm. H. Temp. 128.00 F

Hole Condition good

% Porosity 0.00

Packer Size 6.75 in

No. of Packers 2

Cushion Amt. 0.00

Cushion Type

Reversed Out N

Tool Chased

Tester Paul Simpson

Co. Rep. Marvin Miller

Contr. Duke

Rig # 1

Unit #

Pump T.

Test Successful:

# GAS RECOVERY

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COMPANY: MTM Petroleum

DATE: 11-24-98

ELL NAME: Oscar Smith #2

KB Elev: 1583.00 ft TICKET #11316 DST #1

ELL LOCATION: Sec 02 31s 07w Harper KS

GR Elev: 1575.00 ft FORMATION: Mississippian

INTERVAL Fr.: 4310.00 To 4331.00 T.D.: 4331.00 ft TEST TYPE: CONV

AS RECOVERY MEASURED WITH adjustable choke

## \*\*\*\* GAS RATES FOR FLOW #1

| Time<br>(min) | Orifice<br>(in) | Pressure<br>(Psi) | H2O<br>(in) | Rate<br>(cf/d) |
|---------------|-----------------|-------------------|-------------|----------------|
| 20            | 0.38            | 15                | 0           | 100.8          |
| 25            | 0.31            | 17                | 0           | 74.1           |
| 30            | 0.31            | 19                | 0           | 78.7           |

## \*\*\*\* GAS RATES FOR FLOW #2

| Time<br>(min) | Orifice<br>(in) | Pressure<br>(Psi) | H2O<br>(in) | Rate<br>(cf/d) |
|---------------|-----------------|-------------------|-------------|----------------|
| 10            | 0.31            | 19                | 0           | 78.7           |
| 20            | 0.31            | 23                | 0           | 88.1           |
| 30            | 0.31            | 24                | 0           | 90.4           |
| 40            | 0.31            | 25                | 0           | 92.8           |
| 50            | 0.31            | 26                | 0           | 95.1           |
| 60            | 0.31            | 27                | 0           | 97.5           |

\*\*\* TOOL DIAGRAM \*\*\* CONV

WELL NAME: Oscar Smith #2

LOCATION : Sec 02 31s 07w Harper KS

TICKET No. 11316 D.S.T. No. 1 DATE 11-24-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 21

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 21

TOTAL TOOL ..... 42

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY ..... 42

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands69 Single Total 4298

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4340

TOTAL DEPTH ..... 4331

TOTAL DRILL PIPE ABOVE K.B. .... 9

REMARKS:

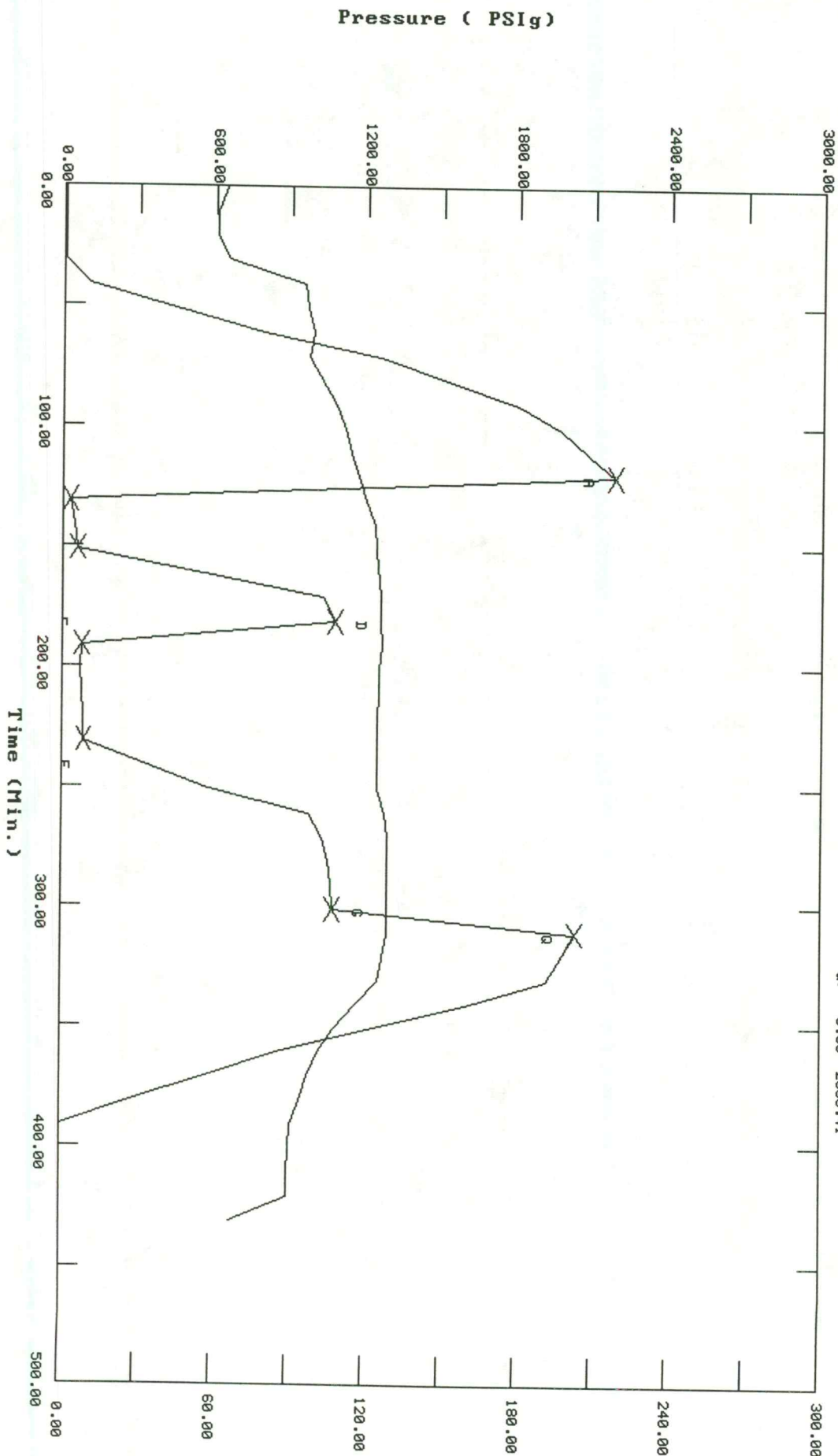
|                        |      |
|------------------------|------|
| P.O. SUB Top of tool @ | 4288 |
| C.O. SUB               |      |
| S.I. TOOL Sterling     | 4294 |
|                        |      |
| HMV Sterling           | 4299 |
| JARS                   |      |
|                        |      |
|                        |      |
|                        |      |
| SAFETY JOINT Bowen     | 4301 |
| PACKER Top             | 4305 |
| PACKER Bottom          | 4310 |
| DEPTH 4310             |      |
| STUBB 1'               | 4311 |
| ANCHOR                 |      |
| 2' perf                | 4313 |
| Alpine rec @ 4313'     |      |
| 5' pickup sub          | 4138 |
|                        |      |
| 5'perf                 | 4323 |
|                        |      |
|                        |      |
| T.C.                   |      |
| DEPTH                  |      |
|                        |      |
| 5' perf                | 4328 |
| AK-1 rec @ 4325'       |      |
|                        |      |
|                        |      |
| BULLNOSE 3' bull plug  |      |
| T.D. to                | 4331 |

# TEST HISTORY

11316 MTM Petroleum Oscar Smith #2 DST #1

Flag Points

|    | t(Min.) | P(PSig) |
|----|---------|---------|
| A: | 0.00    | 2182.89 |
| B: | 0.00    | 28.88   |
| C: | 20.00   | 55.48   |
| D: | 30.00   | 1080.03 |
| E: | 0.00    | 75.25   |
| F: | 40.00   | 84.70   |
| G: | 70.00   | 1075.43 |
| H: | 0.00    | 2036.41 |



ALPINE SUBSURFACE ELECTRONICS PROBE INCREMENTS LISTING

TEST: 11316 MTM Petroleum Oscar Smith #2 DST #1

DATE: 11/24/98

TIME: 21:09:27

|                      | Time   | Pressure<br>PSig | delta P<br>PSig | Temp.<br>DEG F | (T+dT)/dT | P <sup>2</sup> /10 <sup>6</sup> |
|----------------------|--------|------------------|-----------------|----------------|-----------|---------------------------------|
| ***** Initial Hydro. | 121.00 | 2182.9           | 0.0             | 116.64         |           |                                 |
| ***** Start Flow 1   | 0.00   | 28.9             | 0.0             | 119.95         |           |                                 |
|                      | 10.00  | 44.7             | 15.8            | 123.28         |           |                                 |
| ***** End Flow 1     | 20.00  | 55.5             | 26.6            | 123.97         |           |                                 |
| ***** Start Shutin 1 | 0.00   | 55.5             | 0.0             | 123.97         | 0.0000    | 0.003                           |
|                      | 20.00  | 1030.5           | 975.1           | 125.71         | 2.0000    | 1.062                           |
| ***** End Shut-in 1  | 30.00  | 1080.0           | 1024.6          | 126.14         | 1.6667    | 1.166                           |
| ***** Start Flow 2   | 0.00   | 75.2             | 0.0             | 126.34         |           |                                 |
|                      | 10.00  | 70.1             | -5.1            | 125.52         |           |                                 |
|                      | 20.00  | 76.8             | 1.6             | 125.25         |           |                                 |
|                      | 30.00  | 82.4             | 7.2             | 125.02         |           |                                 |
| ***** End Flow 2     | 40.00  | 84.7             | 9.5             | 124.88         |           |                                 |
| ***** Start Shutin 2 | 0.00   | 84.7             | 0.0             | 124.88         | 0.0000    | 0.007                           |
|                      | 20.00  | 580.3            | 495.6           | 124.69         | 4.0000    | 0.337                           |
|                      | 30.00  | 974.2            | 889.5           | 127.85         | 3.0000    | 0.949                           |
|                      | 40.00  | 1030.6           | 945.9           | 128.80         | 2.5000    | 1.062                           |
|                      | 50.00  | 1053.7           | 969.0           | 128.80         | 2.2000    | 1.110                           |
|                      | 60.00  | 1066.8           | 982.1           | 128.72         | 2.0000    | 1.138                           |
| ***** End Shut-in 2  | 70.00  | 1075.4           | 990.7           | 128.69         | 1.8571    | 1.157                           |
| ***** Final Hydro.   | 311.00 | 2036.4           | 0.0             | 129.10         |           |                                 |

# TRILOBITE TESTING L.L.C.

OPERATOR : MTM Petroleum  
WELL NAME: Oscar Smith #2  
LOCATION : Sec 02 31s 07w Harper KS  
INTERVAL : 4331.00 To 4346.00 ft

DATE 11-25-98  
KB 1583.00 ft  
GR 1575.00 ft  
TD 4346.00 ft

TICKET NO: 11317  
FORMATION: Mississippian  
TEST TYPE: CONV

## RECORDER DATA

| Mins              | Field  | 1      | 2      | 3   | 4   | TIME DATA-----         |
|-------------------|--------|--------|--------|-----|-----|------------------------|
| PF 30 Rec.        | 24174  | 24174  | 3246   |     |     | PF Fr. 1249 to 1319 hr |
| SI 30 Range(Psi ) | 3050.0 | 3050.0 | 4995.0 | 0.0 | 0.0 | IS Fr. 1319 to 1349 hr |
| SF 60 Clock(hrs)  | 12hr   | 12hr   | batt   |     |     | SF Fr. 1349 to 1449 hr |
| FS 60 Depth(ft )  | 4341.0 | 4341.0 | 4333.0 | 0.0 | 0.0 | FS Fr. 1449 to 1549 hr |

|                | Field  | 1      | 2      | 3   | 4   |                               |
|----------------|--------|--------|--------|-----|-----|-------------------------------|
| A. Init Hydro  | 2261.0 | 2280.0 | 2243.0 | 0.0 | 0.0 | T STARTED 1140 hr             |
| B. First Flow  | 52.0   | 69.0   | 32.0   | 0.0 | 0.0 | T ON BOTM 1247 hr             |
| B1. Final Flow | 52.0   | 72.0   | 63.0   | 0.0 | 0.0 | T OPEN 1249 hr                |
| C. In Shut-in  | 1039.0 | 1085.0 | 1077.0 | 0.0 | 0.0 | T PULLED 1549 hr              |
| D. Init Flow   | 119.0  | 99.0   | 63.0   | 0.0 | 0.0 | T OUT 1747 hr                 |
| E. Final Flow  | 134.0  | 108.0  | 97.0   | 0.0 | 0.0 |                               |
| F. Fl Shut-in  | 1070.0 | 1085.0 | 1084.0 | 0.0 | 0.0 | TOOL DATA-----                |
| G. Final Hydro | 2058.0 | 2117.0 | 2045.0 | 0.0 | 0.0 | Tool Wt. 1800.00 lbs          |
| Inside/Outside | o      | o      | i      |     |     | Wt Set On Packer 20000.00 lbs |
|                |        |        |        |     |     | Wt Pulled Loose 50000.00 lbs  |
|                |        |        |        |     |     | Initial Str Wt 42000.00 lbs   |
|                |        |        |        |     |     | Unseated Str Wt 45000.00 lbs  |
|                |        |        |        |     |     | Bot Choke 0.75 in             |
|                |        |        |        |     |     | Hole Size 7.88 in             |
|                |        |        |        |     |     | D Col. ID 0.00 in             |
|                |        |        |        |     |     | D. Pipe ID 3.80 in            |
|                |        |        |        |     |     | D.C. Length 0.00 ft           |
|                |        |        |        |     |     | D.P. Length 4330.00 ft        |

## RECOVERY

Tot Fluid 190.00 ft of 0.00 ft in DC and 190.00 ft in DP  
90.00 ft of gassy mud with oil specks 15% gas 85% water  
0.00 ft of  
100.00 ft of muddy oil specked water 10% gas trace oil  
0.00 ft of 80% water 10% mud  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of  
0.00 ft of Rw .2 @ 50

SALINITY 53000.00 P.P.M. A.P.I. Gravity 0.00

## BLOW DESCRIPTION

Initial Flow--  
Strong--bottom of bucket as soon  
as tool opened. Gas to surface in  
20 minutes; see report

Initial Shutin--  
surface blow building to

Final Flow--  
Strong-- gauging gas

Final Shutin--  
1/4" blow building to

SAMPLES: none taken per orders

SENT TO:

MUD DATA-----  
Mud Type Chemical  
Weight 9.30 lb/cf  
Vis. 93.00 S/L  
W.L. 15.10 in3  
F.C. 0.00 in  
Mud Drop

Amt. of fill 0.00 ft  
Btm. H. Temp. 130.00 F  
Hole Condition good  
% Porosity 0.00  
Packer Size 6.75 in  
No. of Packers 2  
Cushion Amt. 0.00  
Cushion Type  
Reversed Out N  
Tool Chased  
Tester Paul Simpson  
Co. Rep. Marvin Miller  
Contr. Duke  
Rig # 1  
Unit #  
Pump T.

Test Successful:

# GAS RECOVERY

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OMPANY: MTM Petroleum

DATE: 11-25-98

ELL NAME: Oscar Smith #2

KB Elev: 1583.00 ft TICKET #11317 DST #2

ELL LOCATION: Sec 02 31s 07w Harper KS

GR Elev: 1575.00 ft FORMATION: Mississippian

INTERVAL Fr.: 4331.00 To 4346.00 T.D.: 4346.00 ft TEST TYPE: CONV

AS RECOVERY MEASURED WITH adjustable choke

## \*\*\*\* GAS RATES FOR FLOW #1

| Time<br>(min) | Orifice<br>(in) | Pressure<br>(Psi) | H2O<br>(in) | Rate<br>(cf/d) |
|---------------|-----------------|-------------------|-------------|----------------|
| 20            | 0.31            | 10                | 0           | 57.7           |
| 30            | 0.31            | 10                | 0           | 57.7           |

## \*\*\*\* GAS RATES FOR FLOW #2

| Time<br>(min) | Orifice<br>(in) | Pressure<br>(Psi) | H2O<br>(in) | Rate<br>(cf/d) |
|---------------|-----------------|-------------------|-------------|----------------|
| 10            | 0.31            | 10                | 0           | 57.7           |
| 20            | 0.31            | 12                | 0           | 62.4           |
| 30            | 0.31            | 10                | 0           | 57.7           |
| 40            | 0.31            | 10                | 0           | 57.7           |
| 50            | 0.31            | 10                | 0           | 57.7           |
| 60            | 0.31            | 10                | 0           | 57.7           |

\*\*\* TOOL DIAGRAM \*\*\* CONV

WELL NAME: Oscar Smith #2

LOCATION : Sec 02 31s 07w Harper KS

TICKET No. 11317 D.S.T. No. 2 DATE 11-25-98

TOTAL TOOL TO BOTTOM OF TOP PACKERS ..... 21

INTERVAL TOOL .....

BOTTOM PACKERS AND ANCHOR ..... 15

TOTAL TOOL ..... 36

DRILL COLLAR ANCHOR IN INTERVAL .....

D.C. ANCHOR STND.Stands Single Total

D.P. ANCHOR STND.Stands Single Total

TOTAL ASSEMBLY ..... 36

D.C. ABOVE TOOLS.Stands Single Total

D.P. ABOVE TOOLS.Stands69 Single 1 Total 4330

TOTAL DRILL COLLARS DRILL PIPE & TOOLS .. 4366

TOTAL DEPTH ..... 4346

TOTAL DRILL PIPE ABOVE K.B. .... 20

REMARKS:

|  |                        |      |
|--|------------------------|------|
|  | P.O. SUB Top of tool @ | 4309 |
|  | C.O. SUB               |      |
|  | S.I. TOOL Sterling     | 4315 |
|  |                        |      |
|  | HMV Sterling           | 4320 |
|  | JARS                   |      |
|  |                        |      |
|  | SAFETY JOINT Bowen     | 4322 |
|  | PACKER Top             | 4326 |
|  | PACKER Bottom          | 4331 |
|  | DEPTH 4331             |      |
|  | STUBB 1'               | 4332 |
|  | ANCHOR                 |      |
|  | 1' perf                | 4333 |
|  | Alpine rec @ 4333'     |      |
|  | 5' pickup sub          | 4338 |
|  |                        |      |
|  | 5'perf                 | 4343 |
|  |                        |      |
|  | T.C.                   |      |
|  | DEPTH                  |      |
|  |                        |      |
|  | AK-1 rec @ 4341'       |      |
|  |                        |      |
|  | BULLNOSE 3' bull plug  |      |
|  | T.D. to                | 4346 |

# TEST HISTORY

11317 MTM Petroleum Oscar Smith #2 DST #2

Flag Points

| t (Min.) | P (PSig) |
|----------|----------|
| A: 0.00  | 2243.13  |
| B: 0.00  | 31.99    |
| C: 30.00 | 62.63    |
| D: 29.50 | 1077.19  |
| E: 0.00  | 63.03    |
| F: 60.00 | 97.20    |
| G: 74.00 | 1084.42  |
| Q: 0.00  | 2045.21  |

