

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name ANDERSON "M" #16 Test No. 1 Date 8/24/93
Company OXY USA, INC. Zone ARBUCKLE
Address 110 S MAIN #800 WICHITA KS 67202 Elevation 1784
Co. Rep./Geo. HAROLD TRAPP Cont. DUKE DRLG CO RIG #1 Est. Ft. of Pay _____
Location: Sec. 7 Twp. 15S Rge. 13W Co. RUSSELL State KS

Interval Tested 3176-3220 Drill Pipe Size 4.5" FH
Anchor Length 44 Wt. Pipe I.D. - 2.7 Ft. Run 568
Top Packer Depth 3171 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3176 Mud Wt. 9.1 lb/Gal.
Total Depth 3220 Viscosity 51 Filtrate 12

Tool Open @ 4:55 PM Initial Blow WEAK BUILDING TO 8 1/2"
ISI: bled off blow - NO RETURN
Final Blow 1/2" BLOW BUILDING TO 10"
FSI: bled off blow

Recovery - Total Feet 170 Flush Tool? NO

Rec. 120 Feet of GAS IN PIPE
Rec. 110 Feet of CLEAN GASSY OIL-5% GAS/ 95% OIL
Rec. 60 Feet of OIL & GAS CUT MUD-20% GAS/ 20% OIL/ 60% MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 114 °F Gravity 38 °API @ 70 °F Corrected Gravity 37 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1611.3 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 50.9 PSI @ (depth) 3181 w/ Clock No. 30401

(C) First Final Flow Pressure 52.2 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 1020.3 PSI @ (depth) 3217 w/ Clock No. 27573

(E) Second Initial Flow Pressure 62.3 PSI AK1 Recorder No. _____ Range _____

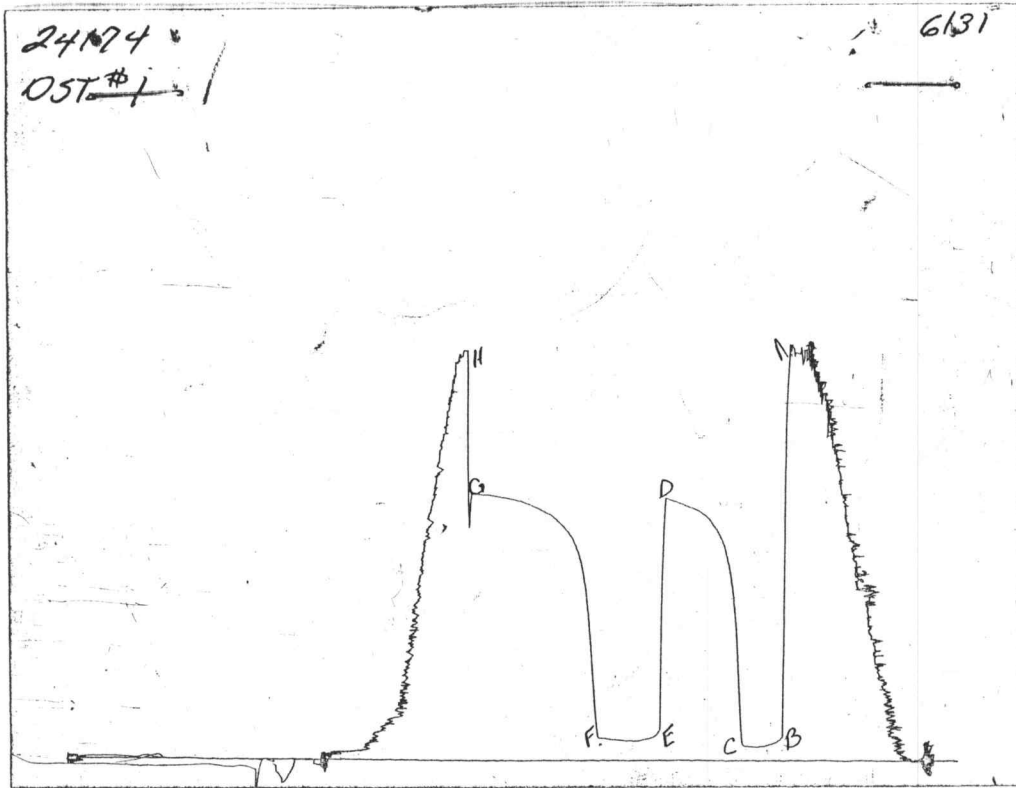
(F) Second Final Flow Pressure 78.9 PSI @ (depth) _____ w/ Clock No. _____

(G) Final Shut-in Pressure 1041.2 PSI Initial Opening 30 Final Flow 45

(H) Final Hydrostatic Mud 1601.2 PSI Initial Shut-in 60 Final Shut-in 90

Our Representative PETE WAGGONER

CHART PAGE



This is an actual photograph of recorder chart

| | FIELD READING | OFFICE READING |
|----------------------------------|------------------|-------------------|
| (A) INITIAL HYDROSTATIC MUD | 1605 | 1611.3 |
| (B) FIRST INITIAL FLOW PRESSURE | 51 | 50.9 |
| (C) FIRST FINAL FLOW PRESSURE | 51 | 52.2 |
| (D) INITIAL CLOSED-IN PRESSURE | 1016 | 1020.3 |
| (E) SECOND INITIAL FLOW PRESSURE | 59 | 62.3 |
| (F) SECOND FINAL FLOW PRESSURE | 74 | 78.9 |
| (G) FINAL CLOSED-IN PRESSURE | 1039 | 1041.2 |
| (H) FINAL HYDROSTATIC MUD | 1597 | 1601.2 |

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

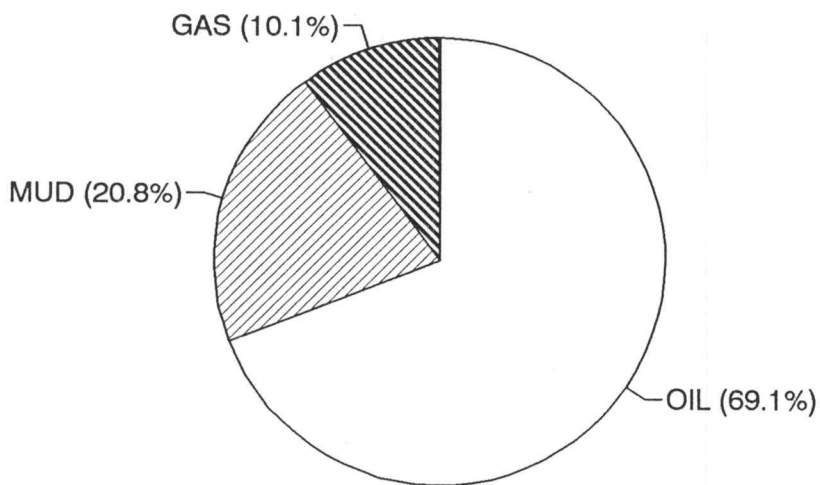
1

TICKET #

6131

| SAMPLE # | TOTAL FEET | GAS | | OIL | | WATER | | MUD | |
|----------|------------|-------|------|-----------|-------|-------|------|--------|------|
| | | % | FEET | % | FEET | % | FEET | % | FEET |
| 1 | 110 | 5 | 5.5 | 95 | 104.5 | 0 | 0 | 0 | 0 |
| 2 | 60 | 20 | 12 | 20 | 15 | 0 | 0 | 60 | 36 |
| 3 | | | 0 | | 0 | | 0 | | 0 |
| 4 | | | 0 | | 0 | | 0 | | 0 |
| 5 | | | 0 | | 0 | | 0 | | 0 |
| TOTAL | 170 | 10.29 | 17.5 | 70.294118 | 119.5 | 0 | 0 | 21.176 | 36 |

| | | | | |
|------------|--------|---|----------|---------|
| | | | HRS OPEN | BBL/DAY |
| BBL OIL= | 0.8365 | * | 1.25 | 16.0608 |
| BBL WATER= | 0 | * | | 0 |
| BBL MUD= | 0.252 | | | |
| BBL GAS= | 0.1225 | | | |



TRILOBITE TESTING L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Test Ticket

No 6131

Well Name & No. Anderson M #16 Test No. 1 Date 3-24-93
 Company Oxy USA Inc. Zone Tested Ambuckle
 Address 110 S. Main Wichita, Ks. 67202 Elevation 1784 KB
 Co. Rep./Geo. Harold Trapp Cont. Duke Drilling Co. Rig #1 Est. Ft. of Pay _____
 Location: Sec. 7 Twp. 15 Rge. 13W Co. Russell State Ks.
 No. of Copies 5 Distribution Sheet _____ Yes — No Turnkey _____ Yes — No _____ Evaluation _____

Interval Tested 3176 3220 Drill Pipe Size 4 1/2" FH
 Anchor Length 44' Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 3171 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 3176 Wt. Pipe I.D. — 2.7 Ft. Run 568'
 Total Depth 3220 Drill Collar — 2.25 Ft. Run —
 Mud Wt. 9.1 lb/gal. Viscosity 51 Filtrate 12

Tool Open @ 4:55 pm Initial Blow weak building to 8 1/2"
ESIP - bled off blow - no return
 Final Blow 1/2" blow building to 10"
ESIP - bled off blow -

Recovery — Total Feet 170' Feet of Gas In Pipe 120' Flush Tool? _____

| | | | | |
|---|----------------|----------------|------------------|----------------|
| Rec. <u>110</u> Feet Of <u>clean gassey oil</u> | <u>5%</u> gas | <u>95%</u> oil | <u>—</u> % water | <u>—</u> % mud |
| Rec. <u>60</u> Feet Of <u>oil & gas cut mud</u> | <u>20%</u> gas | <u>20%</u> oil | <u>—</u> % water | <u>60%</u> mud |
| Rec. _____ Feet Of _____ | % gas | % oil | % water | % mud |
| Rec. _____ Feet Of _____ | % gas | % oil | % water | % mud |
| Rec. _____ Feet Of _____ | % gas | % oil | % water | % mud |

BHT 114 °F Gravity 38 °API @ 70 °F Corrected Gravity 37 °API
 RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

- (A) Initial Hydrostatic Mud 1605 PSI AK1 Recorder No. 22150 Range 3925
- (B) First Initial Flow Pressure 51 PSI @ (depth) 3181 w/Clock No. 30401
- (C) First Final Flow Pressure 51 PSI AK1 Recorder No. 24174 Range 3050
- (D) Initial Shut-In Pressure 1016 PSI @ (depth) 3217 w/Clock No. 27573
- (E) Second Initial Flow Pressure 59 PSI AK1 Recorder No. _____ Range _____
- (F) Second Final Flow Pressure 74 PSI @ (depth) _____ w/Clock No. _____
- (G) Final Shut-In Pressure 1039 PSI Initial Opening 30 Test X 550 600
- (H) Final Hydrostatic Mud 1597 PSI Initial Shut-In 60 Jars _____

TRILOBITE TESTING L.L.C. SHALL NOT BE LIABLE FOR DAMAGE OF ANY KIND OF THE PROPERTY OR PERSONNEL OF THE ONE FOR WHOM A TEST IS MADE, OR FOR ANY LOSS SUFFERED OR SUSTAINED, DIRECTLY OR INDIRECTLY, THROUGH THE USE OF ITS EQUIPMENT, OR ITS STATEMENTS OR OPINION CONCERNING THE RESULTS OF ANY TEST. TOOLS LOST OR DAMAGED IN THE HOLE SHALL BE PAID FOR AT COST BY THE PARTY FOR WHOM THE TEST IS MADE.

Final Flow 45 Safety Joint X 5600
 Final Shut-In 90 Straddle _____
 Circ. Sub - N/C
 Sampler _____
 Extra Packer _____
 Other _____

Approved By [Signature]
 Our Representative Pete Waggoner

TOTAL PRICE \$ ~~650.00~~ 650.00