

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

32
Copies

Well Name MARIAN #1-14 Test No. 1 Date 8/20/94
Company MIDWESTERN EXPLORATION CO. Zone UPPER MORROW
Address BX 1884, LIBERAL, KS. 67905-1884 Elevation _____
Co. Rep./Geo. JOE BLAIR Cont. MURFIN DRILLING #22 Est. Ft. of Pay _____
Location: Sec. 14 Twp. 35 Rge. 35 Co. STEVENS State KS

Interval Tested	<u>5978-6022</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>44</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>5973</u>	Drill Collar - 2.25 Ft. Run	<u>545</u>
Bottom Packer Depth	<u>5978</u>	Mud Wt.	<u>9.1</u> lb/Gal.
Total Depth	<u>6022</u>	Viscosity	<u>54</u>
		Filtrate	<u>7.8</u>

Tool Open @ 8:00 P.M. Initial Blow NO BLOW

Final Blow NO BLOW

Recovery - Total Feet 10 Flush Tool? _____

Rec. <u>10</u>	Feet of <u>DRILLING MUD</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT 131 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1000 ppm System

(A) Initial Hydrostatic Mud 2883.1 PSI AK1 Recorder No. 13615 Range 4575

(B) First Initial Flow Pressure 34.6 PSI @ (depth) 5981 w / Clock No. 25813

(C) First Final Flow Pressure 34.6 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 68.6 PSI @ (depth) 6019 w / Clock No. 25814

(E) Second Initial Flow Pressure 49.6 PSI AK1 Recorder No. _____ Range _____

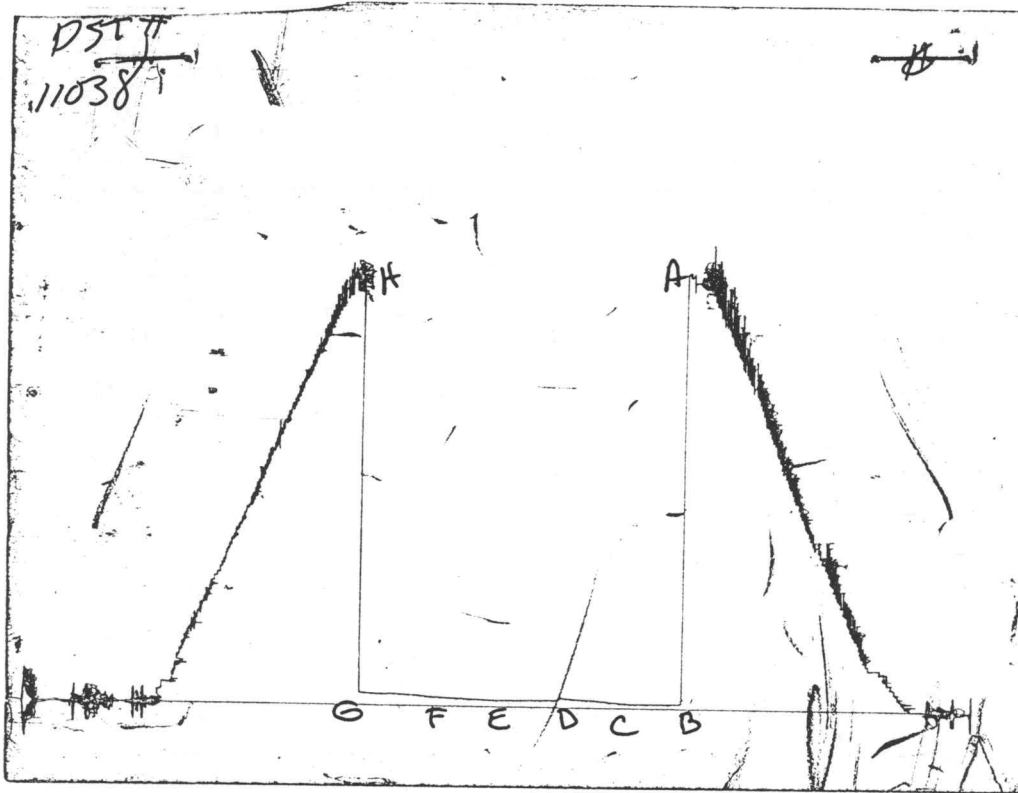
(F) Second Final Flow Pressure 49.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 101.1 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 2845.8 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative TOM HORACEK

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(A) INITIAL HYDROSTATIC MUD	2863	2883.1
(B) FIRST INITIAL FLOW PRESSURE	27	34.6
(C) FIRST FINAL FLOW PRESSURE	27	34.6
(D) INITIAL CLOSED-IN PRESSURE	68	68.6
(E) SECOND INITIAL FLOW PRESSURE	55	49.6
(F) SECOND FINAL FLOW PRESSURE	55	49.6
(G) FINAL CLOSED-IN PRESSURE	95	101.1
(H) FINAL HYDROSTATIC MUD	2825	2845.8

FLUID SAMPLER DATA

Ticket No.: 6741

Date: 8/20/94

Company: MIDWESTERN EXPLORATION CO.

Lease: MARIAN #1-14

Test No.: 1

County: STEVENS

Sec.: 14

Twp.: 35

Rng.: 35

SAMPLER RECOVERY

Gas

Oil

Mud 4000

Water

Other

Pressure 60

TOTAL 4000

SAMPLER ANALYSIS

Resistivity ohms@ F

Chlorides ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 1000

Resistivity ohms@ F

Viscosity 54

Mud Wt. 9.1

Filtrate 7.8

Other

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity ohms@ F

Chlorides ppm

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Drill-Stem Test Data

Well Name MARIAN #1-14 Test No. 2 Date 8/23/94
Company MIDWESTERN EXPLORATION CO. Zone CHESTER
Address BX 1884, LIBERAL, KS. 67905-1884 Elevation 2968
Co. Rep./Geo. JOE BLAIR Cont. MURFIN DRILLING #22 Est. Ft. of Pay 11
Location: Sec. 14 Twp. 35 Rge. 35 Co. STEVENS State KS

Interval Tested	<u>6616-6645</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>29</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>545</u>
Top Packer Depth	<u>6611</u>	Drill Collar - 2.25 Ft. Run	<u>8.9</u>
Bottom Packer Depth	<u>6616</u>	Mud Wt.	<u>65</u> lb/Gal.
Total Depth	<u>6645</u>	Viscosity	<u>7.4</u>

Tool Open @ 3:10 A.M. Initial Blow STRONG BLOW-BUILT TO BOTTOM OF BUCKET 5 MIN ISI: BLED OFF BLOW-NO BLOW BACK
Final Blow FAIR BLOW-BUILT TO BOTTOM OF BUCKET 12 MIN FSI: NO BLOW BACK

Recovery - Total Feet 185 Flush Tool? _____

Rec. <u>1215</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>5</u>	Feet of	<u>CLEAN OIL 15%GAS/85%OIL</u>
Rec. <u>120</u>	Feet of	<u>GAS & OIL CUT MUD 25%GAS/15%OIL/60%MUD</u>
Rec. <u>60</u>	Feet of	<u>GAS & OIL CUT WATER 15%GAS/15%OIL/60%WATER/10%MUD</u>
Rec. _____	Feet of	_____

BHT 138 °F Gravity 40 °API @ 84 °F Corrected Gravity 38.1 °API
RW 0.2 @ 80 °F Chlorides 26000 ppm Recovery Chlorides 1300 ppm System

(A) Initial Hydrostatic Mud 3277.7 PSI AK1 Recorder No. 5495 Range 4575

(B) First Initial Flow Pressure 80.8 PSI @ (depth) 6620 w / Clock No. 25813

(C) First Final Flow Pressure 80.8 PSI AK1 Recorder No. 11038 Range 5075

(D) Initial Shut-in Pressure 1632.5 PSI @ (depth) 6642 w / Clock No. 25814

(E) Second Initial Flow Pressure 109.3 PSI AK1 Recorder No. _____ Range _____

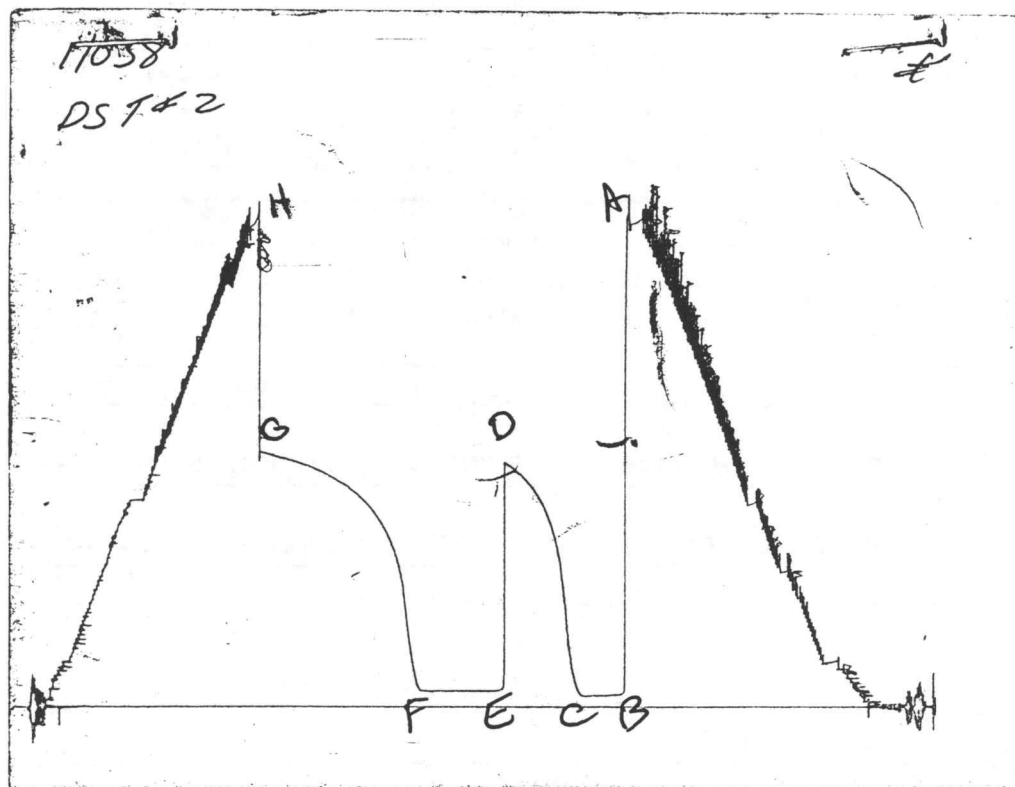
(F) Second Final Flow Pressure 109.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 1696.7 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 3188.4 PSI Initial Shut-in 60 Final Shut-in 120

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(A) INITIAL HYDROSTATIC MUD	3261	3277.7
(B) FIRST INITIAL FLOW PRESSURE	82	80.8
(C) FIRST FINAL FLOW PRESSURE	82	80.8
(D) INITIAL CLOSED-IN PRESSURE	1624	1632.5
(E) SECOND INITIAL FLOW PRESSURE	109	109.3
(F) SECOND FINAL FLOW PRESSURE	109	109.3
(G) FINAL CLOSED-IN PRESSURE	1700	1696.7
(H) FINAL HYDROSTATIC MUD	3197	3188.4

FLUID SAMPLER DATA

Ticket No.: 6742

Date: 8/23/94

Company: MIDWESTERN EXPLORATION CO.

Lease: MARIAN #1-14

Test No.: 2

County: STEVENS

Sec.: 14

Twp.: 35

Rng.: 35

SAMPLER RECOVERY

Gas 3.2

Oil 800

Mud 300

Water 600

Other

Pressure 1375

TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.2 ohms@ 80 F

Chlorides 26000 ppm.

Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 1300

Resistivity ohms@ F

Viscosity 65

Mud Wt. 8.9

Filtrate 7.4

Other

PIPE RECOVERY

TOP

Resistivity ohms@ F

Chlorides ppm

MIDDLE

Resistivity ohms@ F

Chlorides ppm

BOTTOM

Resistivity 0.2 ohms@ 80 F

Chlorides 26000 ppm