TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name JOHNSON "B" #16 AFE Test No. 1 Date 8/31/92

Company OXY USA INC Zone REAGAN SAND

Address 110 S MAIN #800 WICHITA KS 67202 Elevation 2175

Co. Rep./Geo. STEVE DAVIS Cont. ABERCROMBIE RIG #4 Est. Ft. of Pay 3

Location: Sec. 32 Twp. 5S Rge. 20W Co. PHILLIPS State KS

Interval Tested 3568-3574

Anchor Length 6

Top Packer Depth 3563

Bottom Packer Depth 3568

Total Depth 3574

Drill Pipe Size 4.5 XH

Wt. Pipe I.D. - 2.7 Ft. Run 571

Drill Collar – 2.25 Ft. Run

Mud Wt. 9.7 lb/Gal.

Viscosity 50 Filtrate 9.6

Tool Open @ 7:26 PM Initial Blow 1/2" BLOW DECREASING TO SURFACE BLOW

Final Blow NO BLOW-FLUSHED TOOL-NO BLOW

Recovery - Total Feet 15 Flush Tool? YES

Rec. 45 Feet of GAS IN PIPE

Rec. 15 Feet of GASSY HEAVY OIL CUT MUD-5%GAS/25%OIL/70%MUD

Rec. ____ Feet of ____

Rec. ____ Feet of ____

Rec. ____ Feet of ____

BHT 106 °F Gravity ____ °API @ ____ °F Corrected Gravity ____ °API

RW ____ @ ____ °F Chlorides ____ ppm Recovery Chlorides 1200 ppm System

(A) Initial Hydrostatic Mud 1851.2 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 18.8 PSI @ (depth) 3573 w / Clock No. 30401

(C) First Final Flow Pressure 20.5 PSI AK1 Recorder No. 24174 Range 3025

(D) Initial Shut-in Pressure 761.1 PSI @ (depth) 3560 w / Clock No. 27573

(E) Second Initial Flow Pressure 55.9 PSI AK1 Recorder No. ____ Range ____

(F) Second Final Flow Pressure 39.4 PSI @ (depth) ____ w / Clock No. ____

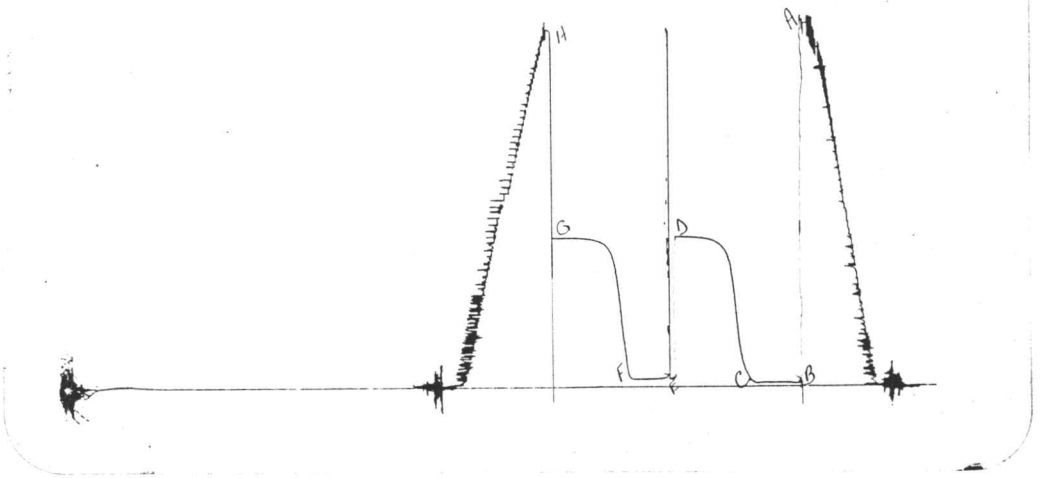
(G) Final Shut-in Pressure 755.7 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1790.5 PSI Initial Shut-in 60 Final Shut-in 60

Our Representative PAUL SIMPSON

CHART PAGE

22150



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1849	1851.2
(B) FIRST INITIAL FLOW PRESSURE	22	18.8
(C) FIRST FINAL FLOW PRESSURE	29	20.5
(D) INITIAL CLOSED-IN PRESSURE	758	761.1
(E) SECOND INITIAL FLOW PRESSURE	37	55.9
(F) SECOND FINAL FLOW PRESSURE	37	39.4
(G) FINAL CLOSED-IN PRESSURE	758	755.7
(H) FINAL HYDROSTATIC MUD	1788	1790.5

INITIAL FLOW

TIME(MIN)	Pws (psi)
1.9	18.8
7.5	16.5
14.5	17.0
20.6	18.5
25.6	19.5
30.4	20.5

FINAL FLOW

TIME(MIN)	Pws (psi)
5.3	55.9
11.2	43.9
18.8	43.2
26.7	40.4
32.1	39.4

INITAL SHUT IN TIME(MIN)	Pws (psi)
3	18.8
6.5	28.5
9.9	7.0
12.9	131.1
15.3	214.3
16.9	300.8
18.9	455.5
21.6	565.3
23.1	635.1
26.3	691.3
29.5	720.8
35	744.6
43.5	754.9
50.6	755.4
56.1	758.9
59.5	757.6
61	761.1

FINAL SHUT IN TIME(MIN)	Pws (psi)
4.7	110.7
6.8	188.1
9.6	397.9
12.4	574.1
13.3	607.4
15.1	641.4
16.5	680.5
19	704.3
23.1	727.6
30.2	743.8
38.2	752.9
42.3	751.4
46.3	753.6
48.8	755.0
51.4	755.1
53.7	755.2
55.8	755.5
58.1	755.7