

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name JOHNSON "B" #15 Test No. 1 Date 8/9/92
Company OXY USA INC Zone TORONTO
Address 110 S MAIN #800 WICHITA KS 67202 Elevation N/A
Co. Rep./Geo. STEVE DAVIS Cont. ABERCROMBIE RIG #4 Est. Ft. of Pay _____
Location: Sec. 31 Twp. 5S Rge. 20W Co. PHILLIPS State KS

Interval Tested	<u>3291-3328</u>	Drill Pipe Size	<u>4.5 XH</u>
Anchor Length	<u>37</u>	Wt. Pipe I.D. - 2.7 Ft. Run	<u>570</u>
Top Packer Depth	<u>3286</u>	Drill Collar - 2.25 Ft. Run	_____
Bottom Packer Depth	<u>3291</u>	Mud Wt.	<u>9.6</u> lb/Gal.
Total Depth	<u>3328</u>	Viscosity	<u>50</u> Filtrate <u>10.2</u>

Tool Open @ 11:58 PM ^{Initial} Blow VERY WEAK SURFACE BLOW - DIED IN 8 MINUTES

Final Blow NO BLOW-FLUSHED TOOL-NO BLOW

Recovery - Total Feet 10 Flush Tool? YES

Rec. 10 Feet of SLTLY OIL SPECKED MUD-GOOD SHOW OF OIL IN TOOL
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 97 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1694.2 PSI AK1 Recorder No. 22150 Range 3925

(B) First Initial Flow Pressure 45.3 PSI @ (depth) 3296 w / Clock No. _____

(C) First Final Flow Pressure 45.3 PSI AK1 Recorder No. 24174 Range 3050

(D) Initial Shut-in Pressure 887.5 PSI @ (depth) 3327 w / Clock No. _____

(E) Second Initial Flow Pressure 45.3 PSI AK1 Recorder No. _____ Range _____

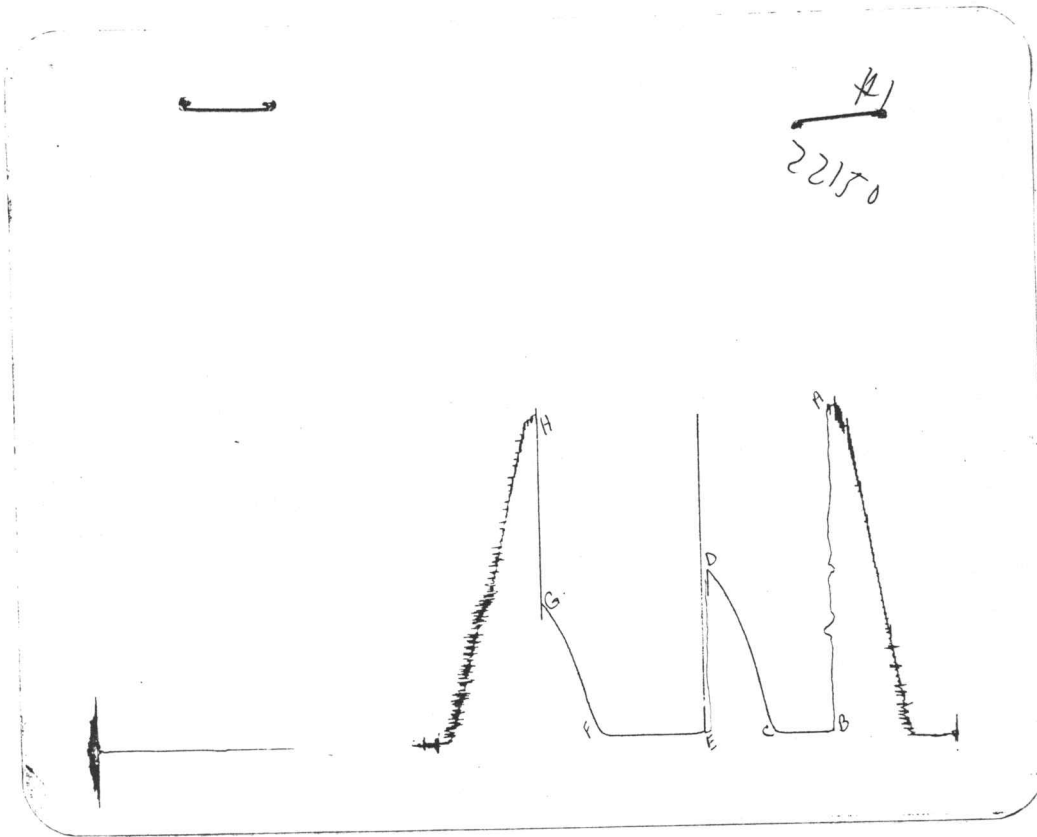
(F) Second Final Flow Pressure 45.3 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 741.2 PSI Initial Opening 30 Final Flow 30

(H) Final Hydrostatic Mud 1670.1 PSI Initial Shut-in 30 Final Shut-in 30

Our Representative PAUL SIMPSON

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1681	1694.2
(B) FIRST INITIAL FLOW PRESSURE	44	45.3
(C) FIRST FINAL FLOW PRESSURE	44	45.3
(D) INITIAL CLOSED-IN PRESSURE	880	887.5
(E) SECOND INITIAL FLOW PRESSURE	44	45.3
(F) SECOND FINAL FLOW PRESSURE	44	45.3
(G) FINAL CLOSED-IN PRESSURE	736	741.2
(H) FINAL HYDROSTATIC MUD	1666	1670.1

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Drill-Stem Test Data

Well Name JOHNSON "B" #15 Test No. 2 Date 8/11/92
Company OXY USA INC Zone REGAN SAND
Address 110 S MAIN #800 WICHITA KS 67202 Elevation 2167
Co. Rep./Geo. STEVE DAVIS Cont. ABERCROMBIE RIG #4 Est. Ft. of Pay 5
Location: Sec. 31 Twp. 5S Rge. 20W Co. PHILLIPS State KS

Interval Tested 3574-3579 Drill Pipe Size 4.5 XH
Anchor Length 5 Wt. Pipe I.D. - 2.7 Ft. Run 570
Top Packer Depth 3569 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3574 Mud Wt. 9.6 lb/Gal.
Total Depth 3579 Viscosity 50 Filtrate 9

Tool Open @ 1:03 AM Initial Blow 1/2" BLOW SURGING & BUILDING TO 9"
(1/4" BLOW BACK ON SHUT IN)
Final Blow 1/2" BLOW BUILDING TO BOTTOM OF BUCKET IN 16 MINUTES

Recovery - Total Feet 270 Flush Tool? NO

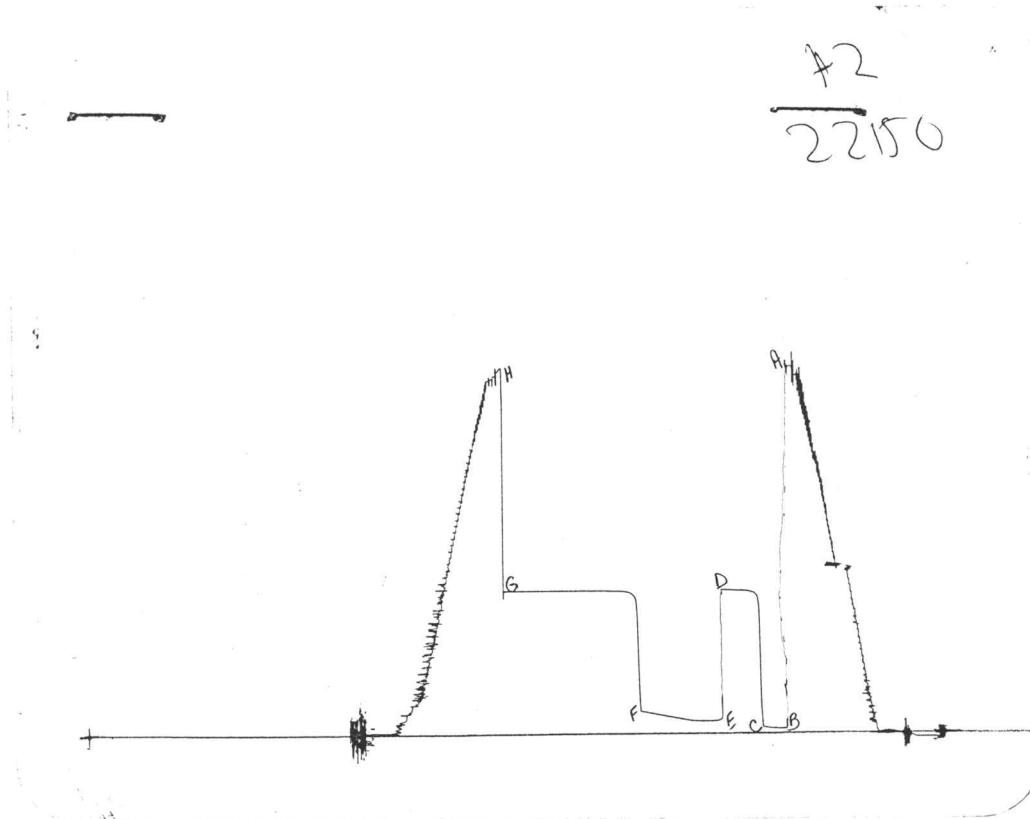
Rec. 610 Feet of GAS IN PIPE
Rec. 210 Feet of CLEAN GASSY OIL-10%GAS/90%OIL
Rec. 60 Feet of HEAVY OIL CUT MUD-30%OIL/70%MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT N/A °F Gravity 34 °API @ 90 °F Corrected Gravity 31 °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud 1862.3 PSI AK1 Recorder No. 22150 Range 3925
(B) First Initial Flow Pressure 32.9 PSI @ (depth) 3578 w / Clock No. 27501
(C) First Final Flow Pressure 42.7 PSI AK1 Recorder No. 24174 Range 3050
(D) Initial Shut-in Pressure 739.4 PSI @ (depth) 3565 w / Clock No. 27573
(E) Second Initial Flow Pressure 71.5 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 118.6 PSI @ (depth) _____ w / Clock No. _____
(G) Final Shut-in Pressure 740.5 PSI Initial Opening 15 Final Flow 60
(H) Final Hydrostatic Mud 1830.4 PSI Initial Shut-in 30 Final Shut-in 90

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CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1857	1862.3
(B) FIRST INITIAL FLOW PRESSURE	37	32.9
(C) FIRST FINAL FLOW PRESSURE	44	42.7
(D) INITIAL CLOSED-IN PRESSURE	736	739.4
(E) SECOND INITIAL FLOW PRESSURE	67	71.5
(F) SECOND FINAL FLOW PRESSURE	119	118.6
(G) FINAL CLOSED-IN PRESSURE	736	740.5
(H) FINAL HYDROSTATIC MUD	1826	1830.4

JOHNSON "B"
INITIAL

DST #2 SHUTIN		-----			
15	TOTAL FLOW	TIME	Slope P *	104.41 psi/cycle 756 psi	
DST #2 SHUTIN		-----			
TIME(MIN)	Pws (psi)	Log Horn T	<> PRESSURE	Horn T	
-----		-----			
	13	104.8	0.333	104.8	2
	14	301.2	0.316	196.4	2
	15.3	477.0	0.297	175.8	2
	15.4	630.5	0.295	153.5	2
	15.5	669.7	0.294	39.2	2
	15.7	688.8	0.291	19.1	2
	16	704.9	0.287	16.1	2
	18	714.8	0.263	9.9	2
	20	727.6	0.243	12.8	2
X	22	732.0	0.226	4.4	2
	26	737.1	0.198	5.1	2
	31	739.0	0.171	1.9	1
X	35	739.4	0.155	0.4	1

JOHNSON "B"
FINAL

DST #2 SHUTIN		-----			
75		TIME	Slope P *	32.10 psi/cycle 745 psi	
DST #2 SHUTIN		-----			
	Pws (psi)	Log Horn T	<> PRESSURE	Horn T	
-----		-----			
	97.6	209.9	0.248	209.9	2
	97.9	311.2	0.247	101.3	2
	98.3	419.4	0.246	108.2	2
	98.5	513.9	0.246	94.5	2
	98.8	592.9	0.245	79.0	2
	99.1	657.4	0.245	64.5	2
	99.3	687.3	0.244	29.9	2
	100.1	704.1	0.243	16.8	2
	104.3	722.2	0.235	18.1	2
	108.9	732.6	0.228	10.4	2
	113	736.1	0.221	3.5	2
	119	738.6	0.212	2.5	2
	127	742.6	0.202	4.0	2
	140	739.2	0.186	-3.4	2
	151	741.3	0.175	2.1	1
X	160	739.8	0.167	-1.5	1
	174	739.5	0.156	-0.3	1
	182	739.6	0.150	0.1	1
	185	739.3	0.148	-0.3	1
X	189	740.5	0.145	1.2	1

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

2

TICKET #

5203

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	210	10	21	90	189	0	0	0	0
2	60	0	0	30	18	0	0	70	42
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	270	7.778	21	76.666667	207	0	0	15.556	42

	BBL OIL=	BBL WATER=	BBL MUD=	BBL GAS=	HRS OPEN	BBL/DAY
	1.449	0	0.294	0.147	1.25	27.8208
		*			*	0

