

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name JOHNSON "B" #19 Test No. 1 Date 10/15/93
Company OXY USA, INC. Zone REAGAN SAND
Address P.O. BOX 26100 OKLAHOMA CITY OK 73126-0100 Elevation 2164
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 3559-3566 Drill Pipe Size 4.5" XH
Anchor Length 7 Wt. Pipe I.D. - 2.7 Ft. Run 634
Top Packer Depth 3554 Drill Collar - 2.25 Ft. Run _____
Bottom Packer Depth 3559 Mud Wt. 9.6 lb/Gal.
Total Depth 3566 Viscosity 41 Filtrate 10

Tool Open @ 1:42 PM Initial Blow WEAK 1/4" STEADY BLOW

Final Blow WEAK 1/4" STEADY BLOW

Recovery - Total Feet 30 Flush Tool? NO

Rec. 90 Feet of GAS IN PIPE
Rec. 30 Feet of MUD CUT OIL-60% OIL / 40% MUD
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2300 ppm System

(A) Initial Hydrostatic Mud 1844.7 PSI AK1 Recorder No. 13754 Range 4000

(B) First Initial Flow Pressure 25.6 PSI @ (depth) 3547 w / Clock No. 27501

(C) First Final Flow Pressure 27.8 PSI AK1 Recorder No. 7437 Range 4200

(D) Initial Shut-in Pressure 754.1 PSI @ (depth) 3562 w / Clock No. 27567

(E) Second Initial Flow Pressure 35.6 PSI AK1 Recorder No. _____ Range _____

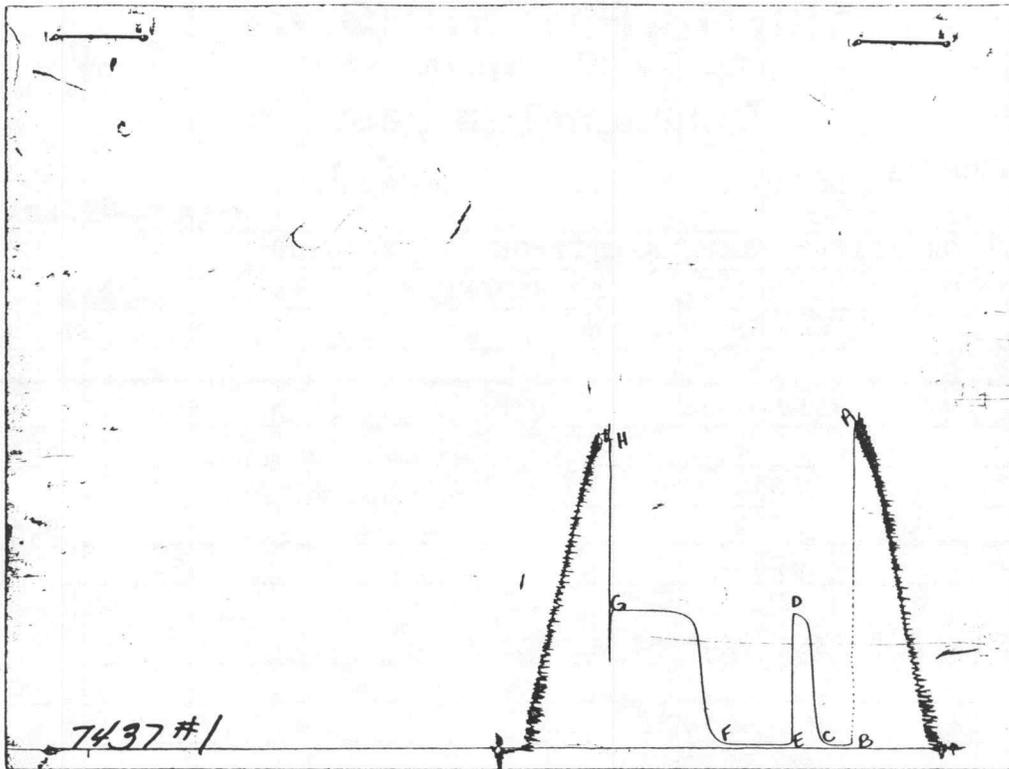
(F) Second Final Flow Pressure 35.6 PSI @ (depth) _____ w / Clock No. _____

(G) Final Shut-in Pressure 781.4 PSI Initial Opening 15 Final Flow 45

(H) Final Hydrostatic Mud 1780.9 PSI Initial Shut-in 30 Final Shut-in 90

Our Representative DAN BANGLE

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	1841	1844.7
(B) FIRST INITIAL FLOW PRESSURE	22	25.6
(C) FIRST FINAL FLOW PRESSURE	22	27.8
(D) INITIAL CLOSED-IN PRESSURE	757	754.1
(E) SECOND INITIAL FLOW PRESSURE	33	35.6
(F) SECOND FINAL FLOW PRESSURE	33	35.6
(G) FINAL CLOSED-IN PRESSURE	778	781.4
(H) FINAL HYDROSTATIC MUD	1778	1780.9

CALCULATED RECOVERY ANALYSIS

WEIGHT PIPE

DST #

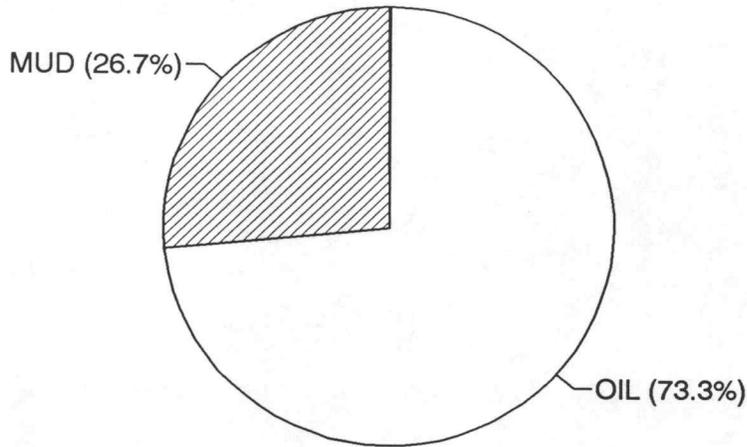
1

TICKET #

6246

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	30	0	0	60	18	0	0	40	12
2			0		15		0		0
3			0		0		0		0
4			0		0		0		0
5			0		0		0		0
TOTAL	30	0	0	110	33	0	0	40	12

		HRS OPEN	BBL/DAY
BBL OIL=	0.231	*	1
BBL WATER=	0	*	0
BBL MUD=	0.084		
BBL GAS=	0		



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Test Ticket

No 6246

Well Name & No. Johnson 'B' #19 Test No. 1 Date 10-15-93
Company Oxy USA Inc. Zone Tested Reagan Sd
Address 1105 Main, Wichita, Ks. 67202 Elevation 2164 H.B.
Co. Rep./Geo. Steve Davis cont. Abercrombie #4 Est. Ft. of Pay _____
Location: Sec. 31 Twp. 5 Rge. 20 Co. Phillips State Ks.
No. of Copies 5 Distribution Sheet _____ Yes _____ No _____ Turnkey _____ Yes _____ No _____ Evaluation _____

Interval Tested 3559 - 3566 Drill Pipe Size 4.5 XH
Anchor Length 7 Top Choke — 1" _____ Bottom Choke — 3/4" _____
Top Packer Depth 3554 Hole Size — 77/8" _____ Rubber Size — 6 3/4" _____
Bottom Packer Depth 3559 Wt. Pipe I.D. — 2.7 Ft. Run 634'
Total Depth 3566 Drill Collar — 2.25 Ft. Run _____
Mud Wt. 9.6 lb/gal. Viscosity 41 Filtrate 10
Tool Open @ 1:42 p.m. Initial Blow Weak 1/4" steady blow
Final Blow Weak 1/4" steady blow

Recovery — Total Feet	Feet of Gas in Pipe	Flush Tool?
<u>30</u>	<u>90</u>	_____
Rec. <u>30</u> Feet Of <u>MCO</u>	% gas <u>60</u> % oil _____	% water <u>40</u> % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____
Rec. _____ Feet Of _____	% gas _____ % oil _____	% water _____ % mud _____

BHT 109 °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 2300 ppm System

(A) Initial Hydrostatic Mud 1841 PSI AK1 Recorder No. 13754 Range 4000
(B) First Initial Flow Pressure 22 PSI @ (depth) 3547 w/Clock No. 27501
(C) First Final Flow Pressure 22 PSI AK1 Recorder No. 7437 Range 4200
(D) Initial Shut-In Pressure 757 PSI @ (depth) 3562 w/Clock No. 27567
(E) Second Initial Flow Pressure 33 PSI AK1 Recorder No. _____ Range _____
(F) Second Final Flow Pressure 33 PSI @ (depth) _____ w/Clock No. _____
(G) Final Shut-In Pressure 778 PSI Initial Opening 15 Test 600
(H) Final Hydrostatic Mud 1778 PSI Initial Shut-In 30 Jars _____

Final Flow 45 Safety Joint X 50
Final Shut-In 90 Straddle _____
Circ. Sub _____
Sampler _____
Extra Packer _____
Other _____
TOTAL PRICE \$ 650.00

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Approved By [Signature]
Our Representative [Signature]