

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GARDEN CITY "H" #8 Test No. 1 Date 3/3/93
Company OXY USA, INC. Zone UPR MORROW
Address P.O. BOX 26100 OKLAHOMA CITY OK 73126-0100 Elevation 2942
Co. Rep./Geo. JIM WELCH Cont. CHEYENNE RIG #1 Est. Ft. of Pay 28
Location: Sec. 23 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested 4651-4684
Anchor Length 33
Top Packer Depth 4646
Bottom Packer Depth 4651
Total Depth 4684

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run 709
Drill Collar - 2.25 Ft. Run 9.2 lb/Gal.
Mud Wt. 44 Viscosity 10.4
Filtrate 44

Tool Open @ 11:30 AM Initial Blow SURFACE TO 10.25" IN 30 MINUTES

Final Blow SURFACE TO BOTTOM IN 31 MINUTES

Recovery - Total Feet 474

Flush Tool? NO

Rec. <u>1130</u>	Feet of	<u>GAS IN PIPE</u>
Rec. <u>60</u>	Feet of	<u>CLEAN GASSY OIL-10% GAS/ 90% OIL</u>
Rec. <u>204</u>	Feet of	<u>GASSY MUDDY OIL-2% GAS/ 25% OIL/ 73% MUD</u>
Rec. <u>60</u>	Feet of	<u>WTR & OIL CUT MUD-20% OIL/5% WTR/ 75%MUD</u>
Rec. <u>150</u>	Feet of	<u>SLTLY OIL STAINED WATER</u>

BHT 116 °F Gravity 32 °API @ 70 °F Corrected Gravity 31 °API
RW 0.16 @ 50 °F Chlorides 32000 ppm Recovery Chlorides 1100 ppm System

(A) Initial Hydrostatic Mud 2163.9 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 61.2 PSI @ (depth) 4653 w / Clock No. 22992

(C) First Final Flow Pressure 110.4 PSI AK1 Recorder No. 11057 Range 4500

(D) Initial Shut-in Pressure 1146.5 PSI @ (depth) 4679 w / Clock No. 17652

(E) Second Initial Flow Pressure 134.2 PSI AK1 Recorder No. Range

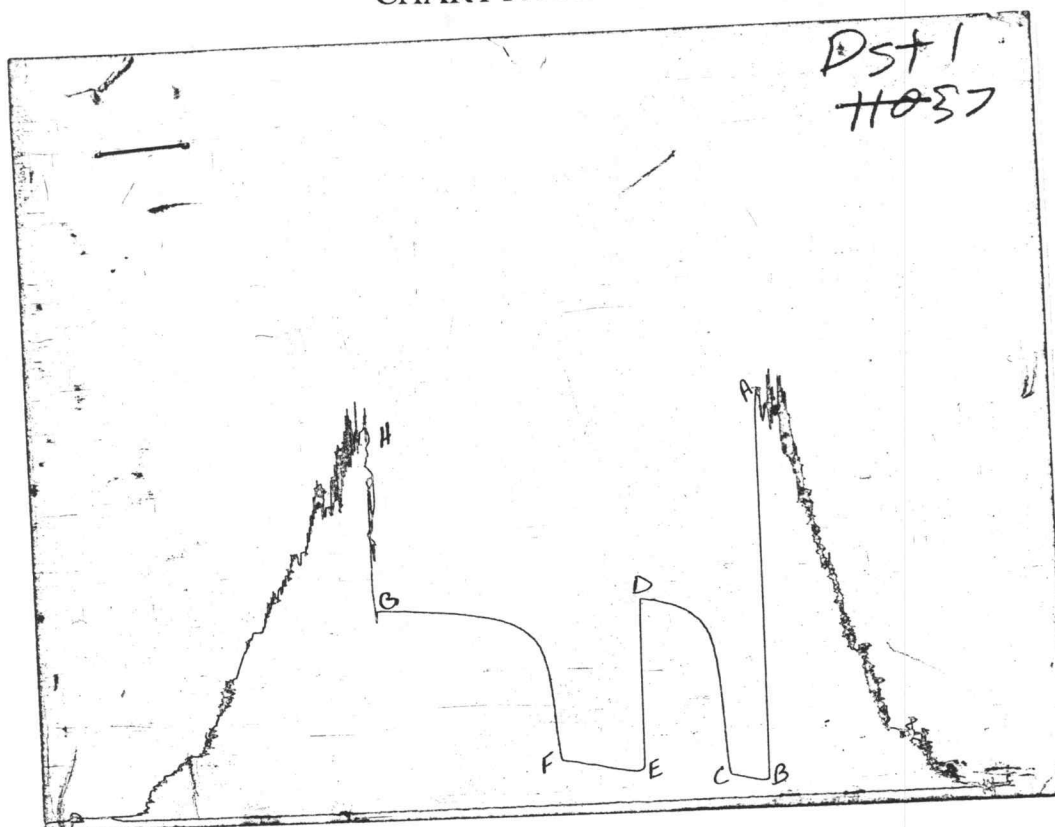
(F) Second Final Flow Pressure 205.6 PSI @ (depth) w / Clock No.

(G) Final Shut-in Pressure 1157.9 PSI Initial Opening 30 Final Flow 60

(H) Final Hydrostatic Mud 2126.9 PSI Initial Shut-in 60 Final Shut-in 120

Our Representative MARK HERSKOWITZ

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	2164	2163.9
(B) FIRST INITIAL FLOW PRESSURE	60	61.2
(C) FIRST FINAL FLOW PRESSURE	109	110.4
(D) INITIAL CLOSED-IN PRESSURE	1146	1146.5
(E) SECOND INITIAL FLOW PRESSURE	133	134.2
(F) SECOND FINAL FLOW PRESSURE	204	205.6
(G) FINAL CLOSED-IN PRESSURE	1158	1157.9
(H) FINAL HYDROSTATIC MUD	2128	2126.9

DST #

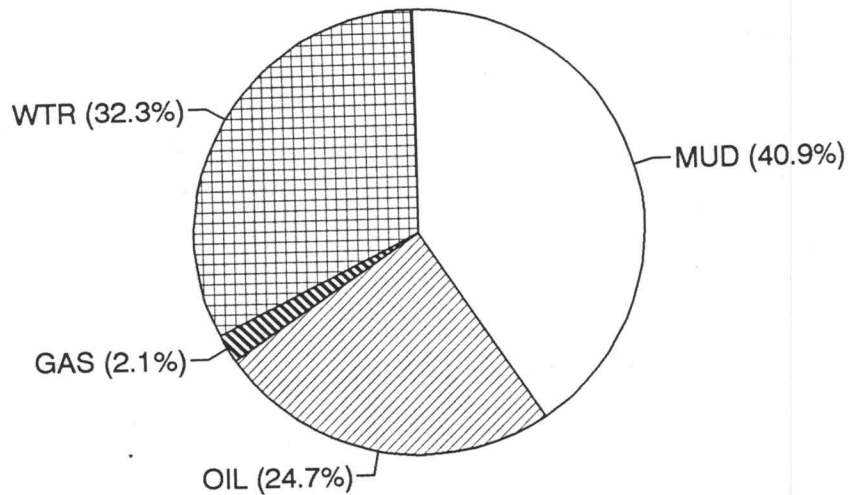
1

TICKET

5622

SAMPLE #	TOTAL FEET	GAS		OIL		WATER		MUD	
		%	FEET	%	FEET	%	FEET	%	FEET
1	60	10	6	90	54	0	0	0	0
2	204	2	4.08	25	51	0	0	73	148.92
3	60	0	0	20	12	5	3	75	45
4	150	0	0	0	0	100	150	0	0
5			0		0		0		0
TOTAL	474	2.13	10.08	24.68	117	32.28	153	40.911392	193.92

			HRS OP	BBL/DAY
BBL OIL=	0.57213	*	1.5	9.15408
BBL WATER=	0.74817	*		11.97072
BBL MUD=	0.9482688			
BBL GAS=	0.0492912			



MUD
OIL
GAS
WTR

FLUID SAMPLER DATA

Ticket No.: 5622 Date: 3/3/93
 Company: OXY USA, INC.
 Lease: GARDEN CITY "H" #8 Test No.: 1
 County: FINNEY Sec.: 23 Twp.: 23S Rng.: 34W

SAMPLER RECOVERY

Gas 1.25 cu f
 Oil 2200
 Mud
 Water 1400
 Other
 Pressure 225
 TOTAL 4000

SAMPLER ANALYSIS

Resistivity 0.16 ohms@ 50 F
 Chlorides 32000 ppm.
 Gravity 31 corrected @60F

PIT MUD ANALYSIS

Chlorides 1100
 Resistivity ohms@ F
 Viscosity 44
 Mud Wt. 9.2
 Filtrate 10.4
 Other

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity 0.15 ohms@ 55 F
 Chlorides 30000 ppm

TRILOBITE TESTING COMPANY

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 5622 Date 3-3-93
Company Name Oxy Usa Inc
Lease GARDEN CITY H Test No. 1
County FINNEY HS Sec. 23 Twp. 23S Rng. 34W

SAMPLER RECOVERY

Gas 1.25 CF ~~ME~~
Oil 2200 ML
~~Mud~~ ML
Water 1400 ML
~~Other~~ ML
Pressure 225 PSI
Total 4000 ML

SAMPLER ANALYSIS

Resistivity 16 ohms @ 50 F
Chlorides 32000 ppm.
Gravity 32-70-31 corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 1100 MudMAN ppm.
Resistivity _____ ohms @ _____ F
Viscosity 44 LCM 1
Mud Weight 9.2 PH 8.6
Filtrate 10.4 P.V. 13
Other Y.P. 8 GEL STRENGTH 2/10

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides 32-70-31 ppm

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides GAS 2% Mud 73% Oil 25% ppm.
BOTTOM
Resistivity 15 ohms @ 55 F
Chlorides 30000 ppm

TRILOBITE TESTING L.L.C.

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Test Ticket

No 5622

Well Name & No. <u>GARDEN CITY H 8th</u>	Test No. <u>1</u>	Date <u>3-3-93</u>
Company <u>OXY USA INC</u>	Zone Tested <u>UPPER MORROW</u>	
Address <u>BOX 26100 OKLAHOMA CITY OK</u>	Elevation <u>2942 KB</u>	
Co. Rep. <u>JIM WELCH</u>	Cont. <u>CHEYENNE RIG 1</u>	Est. Ft. of Pay <u>28</u>
Location: Sec. <u>23</u> Twp. <u>23 S</u> Rge. <u>34 W</u>	Co. <u>FINNEY</u>	State <u>KS</u>
No. of Copies <u>5</u>	Distribution Sheet ☒ Yes ☐ No	Turnkey ☐ Yes ☐ No
Evaluation ☐ Yes ☐ No		

Interval Tested 4651 - 4684 Drill Pipe Size 4 1/2 X H
 Anchor Length 33 Top Choke — 1" Bottom Choke — 3/4"
 Top Packer Depth 4646 Hole Size — 7 7/8" Rubber Size — 6 3/4"
 Bottom Packer Depth 4651 Wt. Pipe I.D. — 2.7 Ft. Run
 Total Depth 4684 Drill Collar — 2.25 Ft. Run 709
 Mud Wt. 9.2 LCM 1 lb/gal. Viscosity 44 Filtrate 10.4
 Tool Open @ 10:30 AM Initial Blow SUR to 10 1/4" IN 30 MIN

Final Blow SUR to Bottom in 31 min

Recovery — Total Feet 474 Feet of Gas in Pipe 1130 Flush Tool? ☐
 Rec. 60 Feet Of G.G. 0.1 10% gas 90% oil %water %mud
 Rec. 204 Feet Of G Mud 0.1 2% gas 25% oil %water 73 %mud
 Rec. 60 Feet Of WATER Mud Oil %gas 20% oil 5% water 75% mud
 Rec. 130 Feet Of 5.0.1 WATER %gas TR% oil 100% water %mud

BHT 116 °F Gravity 32 °API @ 70 °F Corrected Gravity 31 °API

RW 14 @ 50 °F Chlorides 3200 ppm Recovery Chlorides 1100 ppm System

(A) Initial Hydrostatic Mud 2164 PSI AK1 Recorder No. 13308 Range 4700

(B) First Initial Flow Pressure 60 PSI @ (depth) 4653 w/Clock No. 22992

(C) First Final Flow Pressure 109 PSI AK1 Recorder No. 11057 Range 4500

(D) Initial Shut-In Pressure 1146 PSI @ (depth) 4694 w/Clock No. 17652

(E) Second Initial Flow Pressure 133 PSI AK1 Recorder No. Range

(F) Second Final Flow Pressure 204 PSI @ (depth) w/Clock No.

(G) Final Shut-In Pressure 1158 PSI Initial Opening 30 Test ✓ 100.00

(H) Final Hydrostatic Mud 2128 PSI Initial Shut-In 60 Jars ✓ 200.00

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 60 Safety Joint ✓ 50.00

Final Shut-In 120 Straddle

Approved By [Signature]

Our Representative [Signature]

Printcraft Printers - Hays, KS

675 8599

Extra Packer

Other

TOTAL PRICE \$ 1050.00