



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO 20155

P. O. BOX 1599 PHONE (316) 262-5861 WICHITA, KANSAS 67201

Elevation 1258 Formation SIMPSON Eff. Pay Ft.

District Augusta Date 6-10-93 Customer Order No.

COMPANY NAME Oxy USA INC

ADDRESS 110 S. MAIN #800 WICHITA, KS. 67202

LEASE AND WELL NO Rice-White "A" #1 COUNTY Butler STATE KS Sec. 5 Twp. 26 Rge. 4E

Mail Invoice To Co. Name #1 Rice-White A Address No. Copies Requested

Mail Charts To Address No. Copies Requested

Formation Test No. 1 Interval Tested From 2462 ft. to 2470 ft. Total Depth 2470 ft.

Packer Depth 2462 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth ft. Size in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 2467 ft. Recorder Number 13548 Cap. 4075

Bottom Recorder Depth (Outside) 2470 ft. Recorder Number 13521 Cap. 4375

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Allen Rig #2 Drill Collar Length 177' I. D. 2 1/4 in.

Mud Type Chemical Viscosity 44 Weight Pipe Length I. D. in.

Weight 9.3 Water Loss 7.2 cc. Drill Pipe Length 2264' I. D. 3.5 in.

Chlorides P.P.M. Test Tool Length 21 ft. Tool Size 4 1/2 in.

Jars: Make W.T.C. Serial Number Anchor Length 8 ft. Size 3 1/2 in.

Did Well Flow? Reversed Out YES Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. Tool Joint Size 6 1/4 in.

Blow: Fair Blow INCREASING to Btm of Bucket in 5 minutes

2ND Flow - Weak INCREASING to Btm of Bucket in 5 minutes

Recovered 15 ft. of Clean oil

Recovered 775 ft. of Salt Wtr

Recovered ft. of

Recovered ft. of

Recovered ft. of

JUN 15 1993

Chlorides 28,000 P.P.M. Sample Jars used 1 Remarks:

Time On Location 3:30 A.M. Time Pick Up Tool 5:30 P.M. Time Off Location 12:15 A.M.

Time Set Packer(s) 6:40 P.M. Time Started Off Bottom 8:55 P.M. Maximum Temperature 110°

Initial Hydrostatic Pressure (A) 1213 P.S.I.

Initial Flow Period Minutes 15 (B) 50 P.S.I. to (C) 70 P.S.I.

Initial Closed In Period Minutes 30 (D) 856 P.S.I.

Final Flow Period Minutes 30 (E) 232 P.S.I. to (F) 313 P.S.I.

Final Closed In Period Minutes 60 (G) 876 P.S.I.

Final Hydrostatic Pressure (H) 1193 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to 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, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Gale Schroeder Signature of Customer or his authorized representative

Western Representative Stuart Stover

Thanks!

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$600.00), Jars (\$225.00), Circ. Sub. (\$35.00), and TOTAL (\$860.00).

WESTERN TESTING CO., INC.

Pressure Data

Date 6-10-52 Test Ticket No. 20155
 Recorder No. 2548 Capacity _____ Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1102</u> P.S.I.		M
B First Initial Flow Pressure	<u>78</u> P.S.I.	Mins. <u>55</u>	Mins
C First Final Flow Pressure	<u>125</u> P.S.I.	Mins. <u>55</u>	Mins
D Initial Closed-in Pressure	<u>862</u> P.S.I.	Mins. <u>30</u>	Mins
E Second Initial Flow Pressure	<u>227</u> P.S.I.	Mins. <u>60</u>	Mins
F Second Final Flow Pressure	<u>310</u> P.S.I.		
G Final Closed-in Pressure	<u>872</u> P.S.I.		
H Final Hydrostatic Mud	<u>1102</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>78</u>	0	<u>125</u>	0	<u>227</u>	0	<u>310</u>
P 2 5	<u>65</u>	3	<u>724</u>	5	<u>227</u>	3	<u>752</u>
P 3 10	<u>90</u>	6	<u>780</u>	10	<u>239</u>	6	<u>796</u>
P 4 15	<u>125</u>	9	<u>809</u>	15	<u>247</u>	9	<u>818</u>
P 5 20		12	<u>827</u>	20	<u>263</u>	12	<u>829</u>
P 6 25		15	<u>840</u>	25	<u>285</u>	15	<u>839</u>
P 7 30		18	<u>846</u>	30	<u>310</u>	18	<u>847</u>
P 8 35		21	<u>851</u>	35		21	<u>851</u>
P 9 40		24	<u>855</u>	40		24	<u>856</u>
P10 45		27	<u>859</u>	45		27	<u>859</u>
P11 50		30	<u>861</u>	50		30	<u>863</u>
P12 55		33	<u>862</u>	55		33	<u>865</u>
P13 60		36		60		36	<u>866</u>
P14 65		39		65		39	<u>867</u>
P15 70		42		70		42	<u>868</u>
P16 75		45		75		45	<u>869</u>
P17 80		48		80		48	<u>870</u>
P18 85		51		85		51	<u>871</u>
P19 90		54		90		54	<u>872</u>
P20 95		57		95		57	<u>872</u>
100		60		100		60	<u>872</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 800-688-7021**

DST REPORT

GENERAL INFORMATION

DATE : 6/10/93	TICKET : 20155
CUSTOMER : OXY USA, INC.	LEASE : RICE-WAIT A
WELL : #1 TEST: 1	GEOLOGIST: SCHROEDER
ELEVATION: 1258 KB	FORMATION: SIMPSON
SECTION : 5	TOWNSHIP : 26S
RANGE : 4E COUNTY: BUTLER	STATE : KS
GAUGE SN#: 13548 RANGE : 4075	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2462.00 ft	TO: 2470.00 ft	TVD: 2470.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 2467.0 ft	2470.0 ft	
TEMPERATURE: 110.0		

DRILL COLLAR LENGTH: 177.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 2264.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 21.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 8.0 ft	ANCHOR SIZE:	5.500 in
SURFACE CHOKE SIZE : 0.750 in	BOTTOM CHOKE SIZE:	0.750 in
MAIN HOLE SIZE : 7.875 in	TOOL JOINT SIZE :	4.5XH
PACKER DEPTH: 2462.0 ft	SIZE:	6.750 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in
PACKER DEPTH: 0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : ALLEN RIG 2	VISCOSITY : 44.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 7.200 cc
WEIGHT : 9.300 ppg	
CHLORIDES : 0 ppm	
JARS-MAKE : WTC	SERIAL NUMBER: 401
DID WELL FLOW?: NO	REVERSED OUT?: YES

COMMENTS

Comment

INITIAL FLOW PERIOD FAIR BLOW - INCREASING TO
 BOTTOM OF BUCKET IN 5 MINUTES. FINAL FLOW PERIOD
 WEAK BLOW - INCREASING TO BOTTOM OF BUCKET IN 5

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

MINUTES.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	100.0	0.0	0.0	0.0	CLEAN OIL
775.0	0.0	0.0	100.0	0.0	SALTWATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 28000 PPM

RATE INFORMATION

OIL VOLUME:	0.2104 STB	TOTAL FLOW TIME:	45.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	6.7327 STB/D
MUD VOLUME:	0.0000 STB	AVERAGE WATER RATE:	296.2609 STB/D
WATER VOLUME:	9.2582 STB		
TOTAL FLUID :	9.4685 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1213.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	50.00	70.00
INITIAL SHUT-IN	30.00		856.00
FINAL FLOW	30.00	232.00	313.00
FINAL SHUT-IN	60.00		876.00

FINAL HYDROSTATIC PRESSURE: 1193.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1203.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	15.00	48.00	125.00
INITIAL SHUT-IN	33.00		863.00
FINAL FLOW	30.00	237.00	310.00
FINAL SHUT-IN	60.00		873.00

FINAL HYDROSTATIC PRESSURE: 1203.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 6/10/93	TICKET	: 20155
CUSTOMER	: OXY USA, INC.	LEASE	: RICE-WAIT A
WELL	: #1	TEST:	1
ELEVATION:	1258 KB	GEOLOGIST:	SCHROEDER
SECTION	: 5	FORMATION:	SIMPSON
RANGE	: 4E	TOWNSHIP	: 26S
GAUGE SN#:	13548	STATE	: KS
		CLOCK	: 12
		COUNTY:	BUTLER
		RANGE	: 4075

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	48.00	48.00
5.00	65.00	17.00
10.00	90.00	25.00
15.00	125.00	35.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	724.00	724.00	0.00
6.00	780.00	56.00	0.00
9.00	809.00	29.00	0.00
12.00	827.00	18.00	0.00
15.00	840.00	13.00	0.00
18.00	846.00	6.00	0.00
21.00	851.00	5.00	0.00
24.00	855.00	4.00	0.00
27.00	859.00	4.00	0.00
30.00	861.00	2.00	0.00
33.00	863.00	2.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	237.00	237.00
5.00	237.00	0.00
10.00	239.00	2.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
15.00	247.00	8.00
20.00	263.00	16.00
25.00	285.00	22.00
30.00	310.00	25.00

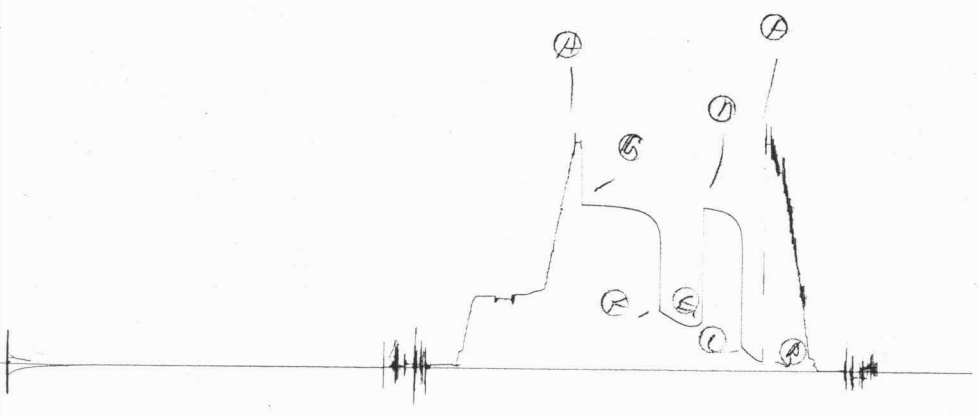
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	757.00	757.00	0.00
6.00	796.00	39.00	0.00
9.00	818.00	22.00	0.00
12.00	829.00	11.00	0.00
15.00	839.00	10.00	0.00
18.00	847.00	8.00	0.00
21.00	851.00	4.00	0.00
24.00	856.00	5.00	0.00
27.00	859.00	3.00	0.00
30.00	863.00	4.00	0.00
33.00	865.00	2.00	0.00
36.00	866.00	1.00	0.00
39.00	867.00	1.00	0.00
42.00	868.00	1.00	0.00
45.00	869.00	1.00	0.00
48.00	870.00	1.00	0.00
51.00	871.00	1.00	0.00
54.00	872.00	1.00	0.00
57.00	873.00	1.00	0.00
60.00	873.00	0.00	0.00

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