



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 18537

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

Elevation 1381 GL Formation Simpson Eff. Pay Ft.

District GT. Bend Date 4-22-93 Customer Order No. -

COMPANY NAME Oxy USA Inc
ADDRESS 110 S. MAIN #800 WICHITA, KS 67202
LEASE AND WELL NO. Wilson 'A' #417 COUNTY Butler STATE KS Sec. 9 Twp 25S Rge 5E
Mail Invoice To SAME #417 Wilson A Co. Name Address No. Copies Requested Reg
Mail Charts To SAME Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 2496 ft. to 2505 ft. Total Depth 2505 ft.
Packer Depth 2496 ft. Size 6 5/8 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) 2499 ft. Recorder Number 10270 Cap. 4150
Bottom Recorder Depth (Outside) 2502 ft. Recorder Number 13550 Cap. 4175
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor ALLEN DRIG rig 2 Drill Collar Length 180 I. D. 2.2 in.
Mud Type Chemical Viscosity 43 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss N/A cc. Drill Pipe Length 2296 I. D. 3.8 in.
Chlorides N/A P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make WTC Serial Number 422 Anchor Length 9 ft. Size 5 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 4 1/2 XH in.

Blow: IE - WEAK building to a STRONG blow in 11 min
FF - STRONG BLOW throughout
Recovered 40 ft. of WATER w/show of oil
Recovered - ft. of
Recovered 300 ft. of WATER
Recovered - ft. of
Recovered - ft. of
Chlorides 14000 P.P.M. Sample Jars used 2 Remarks:
APR 26 1993

Time On Location 3:00 A.M. Time Pick Up Tool 5:30 P.M. Time Off Location 2:00 A.M.
Time Set Packer(s) 6:45 P.M. Time Started Off Bottom 9:00 P.M. Maximum Temperature 106°
Initial Hydrostatic Pressure (A) 1267 P.S.I.
Initial Flow Period Minutes 15 (B) 20 P.S.I. to (C) 72 P.S.I.
Initial Closed In Period Minutes 30 (D) 489 P.S.I.
Final Flow Period Minutes 30 (E) 104 P.S.I. to (F) 135 P.S.I.
Final Closed In Period Minutes 60 (G) 489 P.S.I.
Final Hydrostatic Pressure (H) 1257 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: [Signature] Signature of Customer or his authorized representative

Western Representative: Ray Schwager THANK YOU

FIELD INVOICE

Open Hole Test \$ 600.00
Misrun \$
Straddle Test \$
Jars \$ 225.00
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$ 35.00
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$ 860.00

WESTERN TESTING CO., INC.

Pressure Data

Date 4-22-92

Test Ticket No. 18527

Recorder No. 10220

Capacity _____ Location _____ Ft.

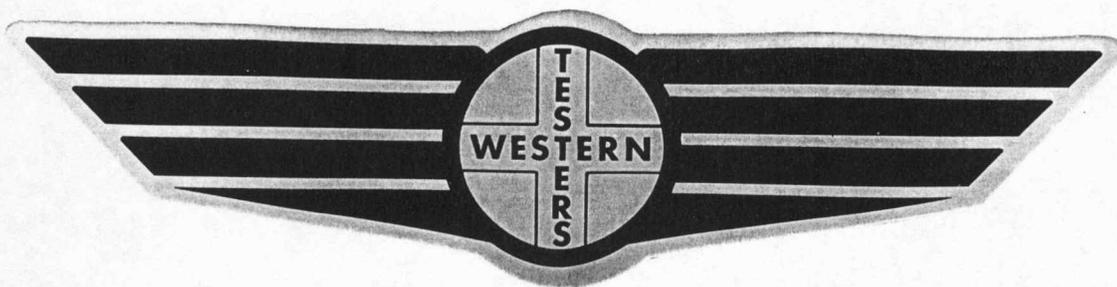
Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1165</u> P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>26</u> P.S.I.	First Flow Pressure	Mins. <u>15</u>	Mins.
C First Final Flow Pressure	<u>88</u> P.S.I.	Initial Closed-in Pressure	Mins. <u>20</u>	Mins.
D Initial Closed-in Pressure	<u>507</u> P.S.I.	Second Flow Pressure	Mins. <u>10</u>	Mins.
E Second Initial Flow Pressure	<u>122</u> P.S.I.	Final Closed-in Pressure	Mins. <u>60</u>	Mins.
F Second Final Flow Pressure	<u>155</u> P.S.I.			
G Final Closed-in Pressure	<u>505</u> P.S.I.			
H Final Hydrostatic Mud	<u>1236</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>26</u>	0	<u>88</u>	0	<u>122</u>	0	<u>155</u>
P 2 5	<u>47</u>	3	<u>419</u>	5	<u>122</u>	3	<u>432</u>
P 3 10	<u>72</u>	6	<u>452</u>	10	<u>146</u>	6	<u>452</u>
P 4 15	<u>88</u>	9	<u>469</u>	15	<u>132</u>	9	<u>459</u>
P 5 20		12	<u>480</u>	20	<u>142</u>	12	<u>469</u>
P 6 25		15	<u>489</u>	25	<u>150</u>	15	<u>477</u>
P 7 30		18	<u>495</u>	30	<u>155</u>	18	<u>484</u>
P 8 35		21	<u>499</u>	35		21	<u>487</u>
P 9 40		24	<u>501</u>	40		24	<u>489</u>
P10 45		27	<u>503</u>	45		27	<u>491</u>
P11 50		30	<u>505</u>	50		30	<u>493</u>
P12 55		33	<u>507</u>	55		33	<u>495</u>
P13 60		36		60		36	<u>497</u>
P14 65		39		65		39	<u>499</u>
P15 70		42		70		42	<u>500</u>
P16 75		45		75		45	<u>501</u>
P17 80		48		80		48	<u>502</u>
P18 85		51		85		51	<u>503</u>
P19 90		54		90		54	<u>504</u>
P20 95		57		95		57	<u>505</u>
100		60		100		60	<u>505</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

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

DST REPORT

GENERAL INFORMATION

DATE : 4/22/93
CUSTOMER : OXY USA INC
WELL : 417 TEST: 1
ELEVATION: 1381 GL
SECTION : 9
RANGE : 5E COUNTY: BUTLER
GAUGE SN#: 10270 RANGE : 4150
TICKET : 18537
LEASE : WILSON A
GEOLOGIST: SCHROEDER
FORMATION: SIMPSON
TOWNSHIP : 25S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2496.00 ft TO: 2505.00 ft TVD: 2505.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 2499.0 ft 2502.0 ft
TEMPERATURE: 106.0
DRILL COLLAR LENGTH: 180.0 ft I.D.: 2.200 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 2296.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 9.0 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: 2496.0 ft SIZE: 6.630 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
MUD TYPE : CHEMICAL VISCOSITY : 43.00 cp
WEIGHT : 9.400 ppg WATER LOSS: 0.000 cc
CHLORIDES : 0 ppm
JARS-MAKE : WTC SERIAL NUMBER: 422
DID WELL FLOW?: NO REVERSED OUT?: YES

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A STRONG BLOW
IN 11 MINUTES. FINAL FLOW PERIOD STRONG BLOW
THROUGHOUT.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
40.0	0.0	0.0	100.0	0.0	WATER W/SHOW OF OIL
300.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 14000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.0000	SCF		
MUD VOLUME:	0.0000	STB		
WATER VOLUME:	3.0905	STB		
TOTAL FLUID :	3.0905	STB		
			TOTAL FLOW TIME:	45.0000 min.
			AVERAGE OIL RATE:	0.0000 STB/D
			AVERAGE WATER RATE:	98.8947 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1267.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	20.00	72.00
INITIAL SHUT-IN	30.00		489.00
FINAL FLOW	30.00	104.00	135.00
FINAL SHUT-IN	60.00		489.00

FINAL HYDROSTATIC PRESSURE: 1257.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1263.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	26.00	88.00
INITIAL SHUT-IN	33.00		507.00
FINAL FLOW	30.00	122.00	155.00
FINAL SHUT-IN	60.00		505.00

FINAL HYDROSTATIC PRESSURE: 1236.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 4/22/93	TICKET : 18537
CUSTOMER : OXY USA INC	LEASE : WILSON A
WELL : 417	TEST: 1
ELEVATION: 1381 GL	GEOLOGIST: SCHROEDER
SECTION : 9	FORMATION: SIMPSON
RANGE : 5E	TOWNSHIP : 25S
GAUGE SN#: 10270	COUNTY: BUTLER
	RANGE : 4150
	STATE : KS
	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	26.00	26.00
5.00	47.00	21.00
10.00	72.00	25.00
15.00	88.00	16.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	419.00	419.00	0.00
6.00	453.00	34.00	0.00
9.00	469.00	16.00	0.00
12.00	480.00	11.00	0.00
15.00	489.00	9.00	0.00
18.00	495.00	6.00	0.00
21.00	499.00	4.00	0.00
24.00	501.00	2.00	0.00
27.00	503.00	2.00	0.00
30.00	505.00	2.00	0.00
33.00	507.00	2.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	122.00	122.00
5.00	122.00	0.00
10.00	126.00	4.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
15.00	132.00	6.00
20.00	142.00	10.00
25.00	150.00	8.00
30.00	155.00	5.00

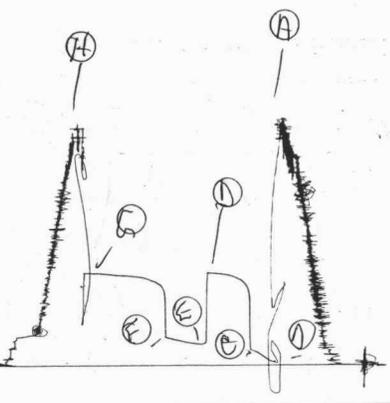
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	432.00	432.00	0.00
6.00	452.00	20.00	0.00
9.00	459.00	7.00	0.00
12.00	469.00	10.00	0.00
15.00	477.00	8.00	0.00
18.00	484.00	7.00	0.00
21.00	487.00	3.00	0.00
24.00	489.00	2.00	0.00
27.00	491.00	2.00	0.00
30.00	493.00	2.00	0.00
33.00	495.00	2.00	0.00
36.00	497.00	2.00	0.00
39.00	499.00	2.00	0.00
42.00	500.00	1.00	0.00
45.00	501.00	1.00	0.00
48.00	502.00	1.00	0.00
51.00	503.00	1.00	0.00
54.00	504.00	1.00	0.00
57.00	505.00	1.00	0.00
60.00	505.00	0.00	0.00

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