



WESTERN TESTING CO., INC.
FORMATION TESTING

LAST
No 19055

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

Elevation 13886L Formation ARB Eff. Pay Ft.

District GREAT BEND Date 2-12-93 Customer Order No.

COMPANY NAME OXY USA INC
ADDRESS 110 S. MAIN #800 WICHITA, KS 67202
LEASE AND WELL NO ENYART A-107 COUNTY BUTHER STATE KS Sec. 12 Twp 26S Rge 4E
Mail Invoice To TOSADK #107 ENYART A No. Copies Requested REG
Co. Name SAME Address Address No. Copies Requested REG
Mail Charts To SAME Address Address No. Copies Requested REG

Formation Test No. Interval Tested From 2424 ft. to 2467 ft. Total Depth 2467 ft.
Packer Depth 2424 ft. Size 658 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) 2428 ft. Recorder Number 3659 Cap. 4000
Bottom Recorder Depth (Outside) 2431 ft. Recorder Number 11018 Cap. 4425
Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor ALLEN #2 Drill Collar Length 178 I. D. 2.02 in.
Mud Type CHEMICAL Viscosity 48 Weight Pipe Length I. D. in.
Weight 9.3 Water Loss 9.2 cc. Drill Pipe Length 2226 I. D. 3.08 in.
Chlorides N/A P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make WTC Serial Number 419 Anchor Length 43 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 7/8 in. Tool Joint Size 4 1/2 x 1 1/2 in.

Blow: STRONG BOTTOM BUCKET 1 MIN
STRONG B.B. 1 MIN

Recovered 2125 ft. of clean air 38 GRAVITY
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of
Chlorides P.P.M. Sample Jars used Remarks: FEB 16 1993

Time On Location 300 A.M. Time Pick Up Tool 10:30 P.M. Time Off Location 7:00 P.M.
Time Set Packer(s) 11:45 A.M. Time Started Off Bottom 2:00 P.M. Maximum Temperature 102
Initial Hydrostatic Pressure (A) 1503 P.S.I.
Initial Flow Period Minutes 15 (B) 408 P.S.I. to (C) 428 P.S.I.
Initial Closed In Period Minutes 30 (D) 838 P.S.I.
Final Flow Period Minutes 30 (E) 609 P.S.I. to (F) 709 P.S.I.
Final Closed In Period Minutes 60 (G) 858 P.S.I.
Final Hydrostatic Pressure (H) 1474 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 Steven W. Kile AFE
Signature of Customer or his authorized representative

Western Representative Norman Hickel Thank You

FIELD INVOICE

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

WESTERN TESTING CO., INC.

Pressure Data

Date 2-12-92

Test Ticket No. 19055

Recorder No. 3059

Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

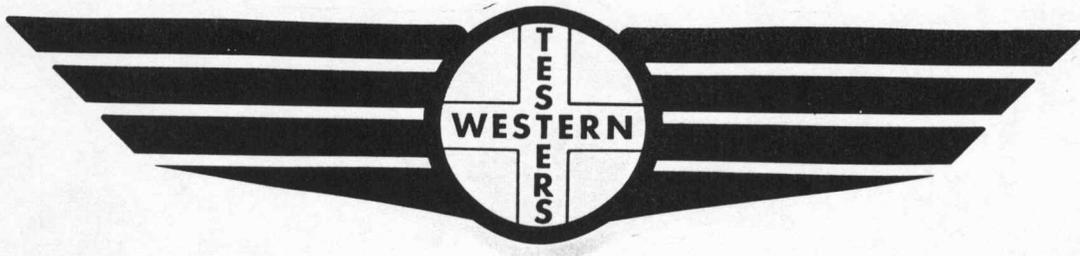
Point	Pressure	P.S.I.	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1120</u>	P.S.I.	_____	_____	M _____
B First Initial Flow Pressure	<u>400</u>	P.S.I.	First Flow Pressure	_____	Mins. <u>15</u> Mins.
C First Final Flow Pressure	<u>448</u>	P.S.I.	Initial Closed-in Pressure	_____	Mins. <u>50</u> Mins.
D Initial Closed-in Pressure	<u>848</u>	P.S.I.	Second Flow Pressure	_____	Mins. <u>30</u> Mins.
E Second Initial Flow Pressure	<u>626</u>	P.S.I.	Final Closed-in Pressure	_____	Mins. <u>20</u> Mins.
F Second Final Flow Pressure	<u>722</u>	P.S.I.			
G Final Closed-in Pressure	<u>856</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1182</u>	P.S.I.			

Tester read wrong
Hydrostatics

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
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>400</u>	0	<u>448</u>	0	<u>626</u>	0	<u>222</u>
P 2 5	<u>400</u>	3	<u>781</u>	5	<u>656</u>	3	<u>810</u>
P 3 10	<u>411</u>	6	<u>813</u>	10	<u>659</u>	6	<u>824</u>
P 4 15	<u>448</u>	9	<u>822</u>	15	<u>649</u>	9	<u>829</u>
P 5 20		12	<u>830</u>	20	<u>675</u>	12	<u>835</u>
P 6 25		15	<u>834</u>	25	<u>701</u>	15	<u>838</u>
P 7 30		18	<u>839</u>	30	<u>722</u>	18	<u>841</u>
P 8 35		21	<u>842</u>	35		21	<u>844</u>
P 9 40		24	<u>844</u>	40		24	<u>847</u>
P10 45		27	<u>846</u>	45		27	<u>850</u>
P11 50		30	<u>848</u>	50		30	<u>852</u>
P12 55		33		55		33	<u>853</u>
P13 60		36		60		36	<u>854</u>
P14 65		39		65		39	<u>855</u>
P15 70		42		70		42	<u>856</u>
P16 75		45		75		45	<u>856</u>
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	<u>856</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

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

DST REPORT

GENERAL INFORMATION

DATE : 2/12/93	TICKET : 19055
CUSTOMER : OXY USA, INC.	LEASE : ENYART A
WELL : 107 TEST: 1	GEOLOGIST: STEVEN KILE
ELEVATION: 1388 GL	FORMATION: ARBUCKLE
SECTION : 12	TOWNSHIP : 26S
RANGE : 4E COUNTY: BUTLER	STATE : KS
GAUGE SN#: 3659 RANGE : 4000	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2424.00 ft	TO: 2467.00 ft	TVD: 2467.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 2428.0 ft	2431.0 ft	
TEMPERATURE: 102.0		
DRILL COLLAR LENGTH: 178.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 2226.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 43.0 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: 2424.0 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	VISCOSITY : 48.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 9.200 cc
WEIGHT : 9.300 ppg	
CHLORIDES : 0 ppm	SERIAL NUMBER: 419
JARS-MAKE : W.T.C.	REVERSED OUT?: YES
DID WELL FLOW?: NO	

COMMENTS

Comment

STRONG BLOW BOTTOM OF BUCKET IN 1 MINUTE ON BOTH FLOW PERIODS.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2125.0	100.0	0.0	0.0	0.0	CLEAN OIL - 38 GRAVITY

RATE INFORMATION

OIL VOLUME: 28.1462 STB	TOTAL FLOW TIME: 45.0000 min.
GAS VOLUME: 0.0000 SCF	AVERAGE OIL RATE: 900.6769 STB/D
MUD VOLUME: 0.0000 STB	AVERAGE WATER RATE: 0.0000 STB/D
WATER VOLUME: 0.0000 STB	
TOTAL FLUID : 28.1462 STB	

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1503.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	408.00	428.00
INITIAL SHUT-IN	30.00		838.00
FINAL FLOW	30.00	609.00	709.00
FINAL SHUT-IN	60.00		858.00

FINAL HYDROSTATIC PRESSURE: 1474.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1223.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	400.00	448.00
INITIAL SHUT-IN	30.00		848.00
FINAL FLOW	30.00	626.00	723.00
FINAL SHUT-IN	60.00		856.00

FINAL HYDROSTATIC PRESSURE: 1182.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 2/12/93	TICKET : 19055
CUSTOMER : OXY USA, INC.	LEASE : ENYART A
WELL : 107	TEST: 1
ELEVATION: 1388 GL	GEOLOGIST: STEVEN KILE
SECTION : 12	FORMATION: ARBUCKLE
RANGE : 4E	TOWNSHIP : 26S
COUNTY: BUTLER	STATE : KS
Gauge SN#: 3659	RANGE : 4000
	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	400.00	400.00
5.00	400.00	0.00
10.00	411.00	11.00
15.00	448.00	37.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	781.00	781.00	0.00
6.00	813.00	32.00	0.00
9.00	822.00	9.00	0.00
12.00	830.00	8.00	0.00
15.00	834.00	4.00	0.00
18.00	839.00	5.00	0.00
21.00	842.00	3.00	0.00
24.00	844.00	2.00	0.00
27.00	846.00	2.00	0.00
30.00	848.00	2.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	626.00	626.00
5.00	626.00	0.00
10.00	629.00	3.00
15.00	649.00	20.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

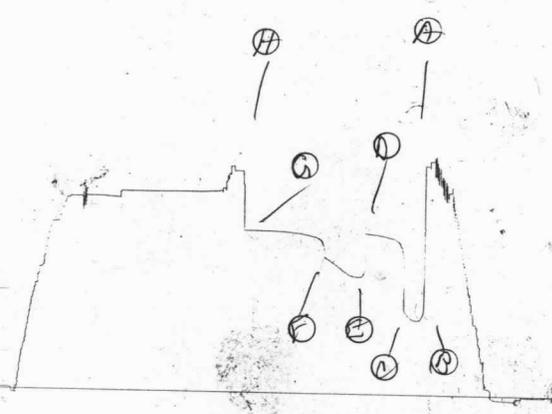
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
20.00	675.00	26.00
25.00	701.00	26.00
30.00	723.00	22.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	810.00	810.00	0.00
6.00	824.00	14.00	0.00
9.00	829.00	5.00	0.00
12.00	835.00	6.00	0.00
15.00	838.00	3.00	0.00
18.00	841.00	3.00	0.00
21.00	844.00	3.00	0.00
24.00	847.00	3.00	0.00
27.00	850.00	3.00	0.00
30.00	852.00	2.00	0.00
33.00	853.00	1.00	0.00
36.00	854.00	1.00	0.00
39.00	855.00	1.00	0.00
42.00	856.00	1.00	0.00
45.00	856.00	0.00	0.00
48.00	856.00	0.00	0.00
51.00	856.00	0.00	0.00
54.00	856.00	0.00	0.00
57.00	856.00	0.00	0.00
60.00	856.00	0.00	0.00

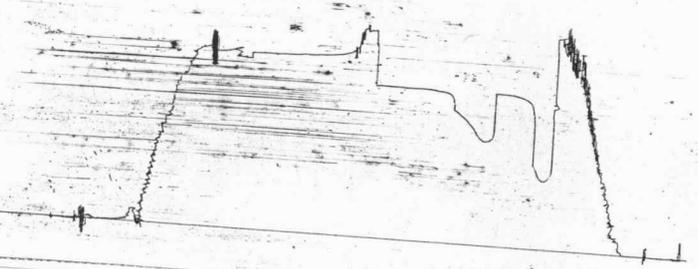
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