



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 20201

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

Elevation 1405 HB Formation Crk Eff. Pay _____ Ft.

District Augusta Date 11-29-93 Customer Order No. _____

COMPANY NAME OXY USA INC

ADDRESS 110 S Main #800 Wichita KS 67202

LEASE AND WELL NO. Porter's #90 COUNTY Bush STATE KS Sec. 6 Twp. 26 Rge. SE

Mail Invoice To Same No. Copies Requested 1

Co. Name Same #90 Porter D Address _____ No. Copies Requested 5

Mail Charts To _____ Address _____

Formation Test No. DST #1 Interval Tested From 2475 ft. to 2482 ft. Total Depth 2482 ft.

Packer Depth 2475 ft. Size 6 7/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 2475 ft. Size 6 7/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2472 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 2479 ft. Recorder Number 3354 Cap. 4200

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Allen Rig 2 Drill Collar Length 330 I. D. 2.25 in.

Mud Type Chem Viscosity 45 Weight Pipe Length _____ I. D. _____ in.

Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 2123 I. D. 3.8 in.

Chlorides _____ P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in

Jars: Make _____ Serial Number _____ Anchor Length 7 ft. Size 5 1/2 in

Did Well Flow? _____ Reversed Out _____ 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 x 1 1/4 in.

Blow: Very Weak Blow Top of brush bit in. Similar to (FFP) No Blow on (FFP)

Recovered 7 ft. of fine oil 37% gravity at 60°

Recovered 4 ft. of oil at end 50% oil 50% mud

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used _____ Remarks: _____

Time On Location 3:00 A.M. Time Pick Up Tool 5:30 A.M. Time Off Location _____ A.M.

Time Set Packer(s) 6:30 A.M. Time Started Off Bottom 9:30 A.M. Maximum Temperature 102°F

Initial Hydrostatic Pressure _____ (A) 1155 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 0 P.S.I. to (C) 0 P.S.I.

Initial Closed In Period _____ Minutes 60 (D) 825 P.S.I.

Final Flow Period _____ Minutes 30 (E) 65 P.S.I. to (F) 20 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 805 P.S.I.

Final Hydrostatic Pressure _____ (H) 1145 P.S.I. 10999

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 Robert R. Johnson
Signature of Customer or his authorized representative

Western Representative Jeffrey A. Pettrone

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 11-29-92
Recorder No. 10979

Test Ticket No. 20201
Location _____ Ft

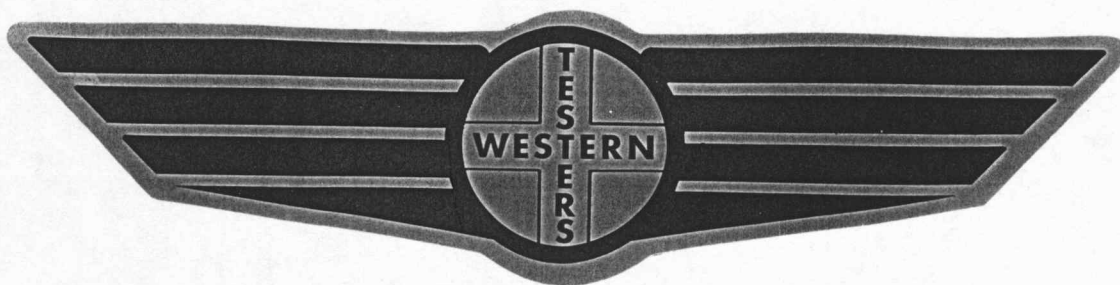
Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1197</u> P.S.I.			M
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins.	Min.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins.	Min.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins.	Min.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins.	Min.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	<u>1197</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>12</u>	0	<u>12</u>	0	<u>50</u>	0	<u>25</u>
P 2 5		3	<u>12</u>	5	<u>50</u>	3	<u>29</u>
P 3 10		6	<u>20</u>	10	<u>27</u>	6	<u>20</u>
P 4 15		9	<u>50</u>	15	<u>28</u>	9	<u>25</u>
P 5 20		12	<u>100</u>	20	<u>25</u>	12	<u>38</u>
P 6 25		15	<u>158</u>	25	<u>24</u>	15	<u>49</u>
P 7 30		18	<u>48</u>	30	<u>20</u>	18	<u>55</u>
P 8 35		21	<u>52</u>	35		21	<u>60</u>
P 9 40		24	<u>65</u>	40		24	<u>65</u>
P10 45		27	<u>66</u>	45		27	<u>66</u>
P11 50		30	<u>68</u>	50		30	<u>69</u>
P12 55		33	<u>69</u>	55		33	<u>71</u>
P13 60		36	<u>71</u>	60		36	<u>72</u>
P14 65		39	<u>73</u>	65		39	<u>74</u>
P15 70		42	<u>75</u>	70		42	<u>75</u>
P16 75		45	<u>76</u>	75		45	<u>76</u>
P17 80		48	<u>78</u>	80		48	<u>78</u>
P18 85		51	<u>80</u>	85		51	<u>78</u>
P19 90		54	<u>81</u>	90		54	<u>79</u>
P20 95		57	<u>81</u>	95		57	<u>79</u>
100		60	<u>82</u>	100		60	<u>80</u>

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY OXY USA, INC. LEASE & WELL NO. #90 PORTER D SEC. 6 TWP. 26S RGE. 5E TEST NO. 1 DATE 11/29/93

DST REPORT

GENERAL INFORMATION

DATE : 11/29/93
CUSTOMER : OXY USA, INC.
WELL : #90 TEST: 1
ELEVATION: 1405 KB
SECTION : 6
RANGE : 5E COUNTY: BUTLER
GAUGE SN#: 10979 RANGE : 4100

TICKET : 20201
LEASE : PORTER D
GEOLOGIST: JOHNSON
FORMATION: ARBUCKLE
TOWNSHIP : 26S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2475.00 ft TO: 2482.00 ft TVD: 2482.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 2472.0 ft 2479.0 ft
TEMPERATURE: 102.0

DRILL COLLAR LENGTH:	330.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	2123.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	22.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	7.0 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:	2470.0 ft	SIZE:	6.630 in
PACKER DEPTH:	2475.0 ft	SIZE:	6.630 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
WEIGHT : 9.300 ppg
CHLORIDES : 0 ppm
JARS-MAKE :
DID WELL FLOW?: NO

VISCOSITY : 45.00 cp
WATER LOSS: 8.800 cc

SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW - TOP OF BUCKET
DIED IN 5 MINUTES. FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
7.0	100.0	0.0	0.0	0.0	FREE OIL
0.0	0.0	0.0	0.0	0.0	37 GRAVITY @ 60 DEGREES
4.0	50.0	0.0	0.0	50.0	OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0443 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	1.2982 STB/D
MUD VOLUME:	0.0098 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.0541 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1155.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	0.00	0.00
INITIAL SHUT-IN	60.00		825.00
FINAL FLOW	30.00	65.00	20.00
FINAL SHUT-IN	60.00		805.00

FINAL HYDROSTATIC PRESSURE: 1145.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1197.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	12.00	12.00
INITIAL SHUT-IN	60.00		822.00
FINAL FLOW	30.00	50.00	23.00
FINAL SHUT-IN	60.00		804.00

FINAL HYDROSTATIC PRESSURE: 1197.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11/29/93	TICKET : 20201
CUSTOMER : OXY USA, INC.	LEASE : PORTER D
WELL : #90	GEOLOGIST: JOHNSON
ELEVATION: 1405 KB	FORMATION: ARBUCKLE
SECTION : 6	TOWNSHIP : 26S
RANGE : 5E	STATE : KS
GAUGE SN#: 10979	CLOCK : 12
TEST: 1	
COUNTY: BUTLER	
RANGE : 4100	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	12.00	12.00
5.00	12.00	0.00
10.00	12.00	0.00
15.00	12.00	0.00
20.00	12.00	0.00
25.00	12.00	0.00
30.00	12.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	12.00	12.00	0.00
6.00	23.00	11.00	0.00
9.00	53.00	30.00	0.00
12.00	200.00	147.00	0.00
15.00	358.00	158.00	0.00
18.00	482.00	124.00	0.00
21.00	573.00	91.00	0.00
24.00	624.00	51.00	0.00
27.00	660.00	36.00	0.00
30.00	686.00	26.00	0.00
33.00	698.00	12.00	0.00
36.00	714.00	16.00	0.00
39.00	732.00	18.00	0.00
42.00	752.00	20.00	0.00
45.00	767.00	15.00	0.00
48.00	780.00	13.00	0.00
51.00	802.00	22.00	0.00
54.00	811.00	9.00	0.00
57.00	819.00	8.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	822.00	3.00	0.00

FINAL FLOW

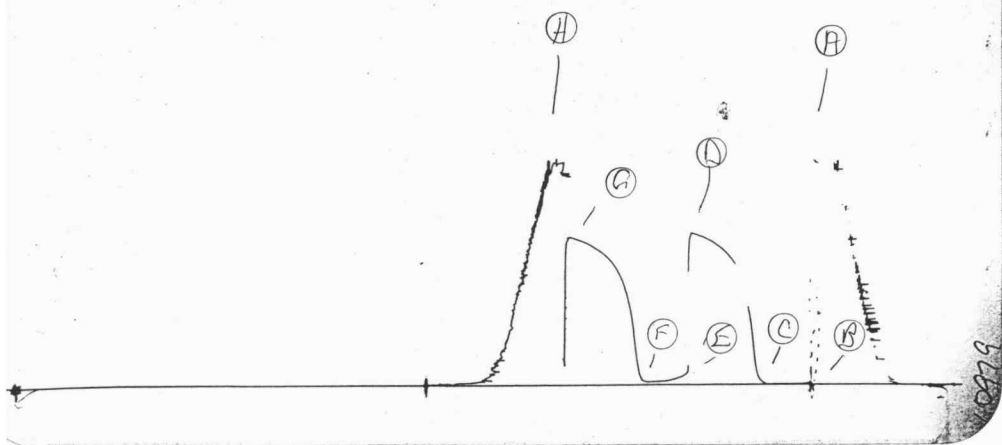
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	50.00	50.00
5.00	50.00	0.00
10.00	37.00	-13.00
15.00	28.00	-9.00
20.00	25.00	-3.00
25.00	24.00	-1.00
30.00	23.00	-1.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	29.00	29.00	0.00
6.00	93.00	64.00	0.00
9.00	252.00	159.00	0.00
12.00	382.00	130.00	0.00
15.00	492.00	110.00	0.00
18.00	556.00	64.00	0.00
21.00	606.00	50.00	0.00
24.00	642.00	36.00	0.00
27.00	666.00	24.00	0.00
30.00	694.00	28.00	0.00
33.00	711.00	17.00	0.00
36.00	729.00	18.00	0.00
39.00	744.00	15.00	0.00
42.00	756.00	12.00	0.00
45.00	768.00	12.00	0.00
48.00	780.00	12.00	0.00
51.00	785.00	5.00	0.00
54.00	793.00	8.00	0.00
57.00	799.00	6.00	0.00
60.00	804.00	5.00	0.00

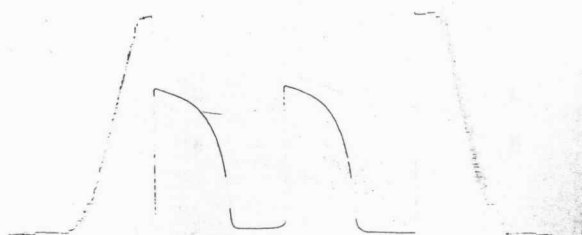
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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET N^o 20202

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

Elevation 14054B Formation Carb Eff. Pay _____ Ft.

District Augusta Date 11-30-93 Customer Order No. _____

COMPANY NAME OXY USA INC

ADDRESS 110 S Main #800 Wichita KS 67202

LEASE AND WELL NO. Porter's #90 COUNTY Barton STATE KS Sec. 6 Twp. 26 Rge. SE

Mail Invoice To Same Co. Name _____ Address _____ No. Copies Requested 1

Mail Charts To Same Address _____ No. Copies Requested 5

Formation Test No. DST #2 Interval Tested From 2478 ft. to 2488 ft. Total Depth 2488 ft.

Packer Depth 2473 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 2478 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2482 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 2485 ft. Recorder Number 3354 Cap. 4200

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor Ellen Kij 2 Drill Collar Length 330 I. D. 2.25 in.

Mud Type Chem Viscosity 48 Weight Pipe Length _____ I. D. _____ in.

Weight 9.3 Water Loss 8.8 cc. Drill Pipe Length 12132 I. D. 3.8 in.

Chlorides _____ P.P.M. Test Tool Length 15 ft. Tool Size 5 1/2 in.

Jars: Make _____ Serial Number _____ Anchor Length 10 ft. Size 5 3/4 in.

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

Main Hole Size 7 1/2 in. Tool Joint Size 4 1/2 x 4 in.

Blow: Very Weak blow 1/2 in into the bucket dominantly to a very weak blow top of bucket
Very Weak blow top of bucket on (FIP)

Recovered 30 ft. of Oil cut mud 60% oil 40% mud

Recovered 32 ft. of fine oil 37% quantity at 60°

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used _____ Remarks: _____

Time On Location Stand by A.M. P.M. Time Pick Up Tool 4:00 A.M. P.M. Time Off Location _____ A.M. P.M.

Time Set Packer(s) 5:00 A.M. P.M. Time Started Off Bottom 8:00 A.M. P.M. Maximum Temperature 101°

Initial Hydrostatic Pressure _____ (A) 1165 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 50 P.S.I. to (C) 20 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 875 P.S.I.

Final Flow Period _____ Minutes 60 (E) 50 P.S.I. to (F) 50 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 885 P.S.I.

Final Hydrostatic Pressure _____ (H) 1155 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 [Signature]

FIELD INVOICE

10979
Open Hole Test \$ _____
Mistun \$ _____
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.

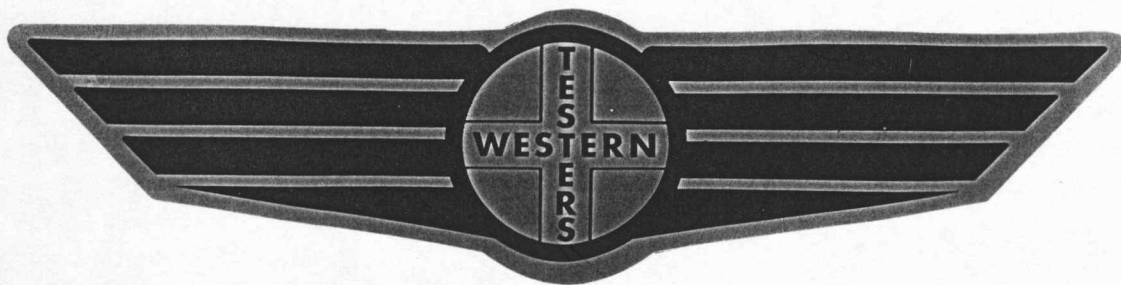
Pressure Data

Date 11-30-92 Test Ticket No. 20202
 Recorder No. 10979 Capacity _____ Location _____ Ft
 Clock No. _____ Elevation _____ Well Temperature _____ °F
 Point _____ Pressure _____
 A Initial Hydrostatic Mud 1209 P.S.I. Open Tool _____ M
 B First Initial Flow Pressure _____ P.S.I. First Flow Pressure _____ Mins. _____ Min.
 C First Final Flow Pressure _____ P.S.I. Initial Closed-in Pressure _____ Mins. _____ Min.
 D Initial Closed-in Pressure _____ P.S.I. Second Flow Pressure _____ Mins. _____ Min.
 E Second Initial Flow Pressure _____ P.S.I. Final Closed-in Pressure _____ Mins. _____ Min.
 F Second Final Flow Pressure _____ P.S.I.
 G Final Closed-in Pressure _____ P.S.I.
 H Final Hydrostatic Mud 1209 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	47	0	27	0	40	0	48
P 2 5	47	3	61	5		3	62
P 3 10	35	6	45	10		6	74
P 4 15	30	9	689	15		9	49
P 5 20	27	12	271	20		12	62
P 6 25	5	15	811	25		15	264
P 7 30	25	18	830	30	40	18	804
P 8 35		21	846	35	40	21	820
P 9 40		24	856	40	42	24	830
P10 45		27	866	45	43	27	842
P11 50		30	822	50	44	30	851
P12 55		33		55	46	33	860
P13 60		36		60	48	36	865
P14 65		39		65		39	869
P15 70		42		70		42	874
P16 75		45		75		45	879
P17 80		48		80		48	882
P18 85		51		85		51	884
P19 90		54		90		54	885
P20 95		57		95		57	886
100		60		100		60	887
						63	888

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 11/30/93
CUSTOMER : OXY USA, INC.
WELL : #90 TEST: 2
ELEVATION: 1405 KB
SECTION : 6
RANGE : 5E COUNTY: BUTLER
GAUGE SN#: 10979 RANGE : 4100

TICKET : 20202
LEASE : PORTER D
GEOLOGIST: JOHNSON
FORMATION: ARBUCKLE
TOWNSHIP : 26S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2478.00 ft TO: 2488.00 ft TVD: 2488.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 2482.0 ft 2485.0 ft
TEMPERATURE: 101.0

DRILL COLLAR LENGTH:	330.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	2133.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	15.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	10.0 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:	2473.0 ft	SIZE:	6.630 in
PACKER DEPTH:	2478.0 ft	SIZE:	6.630 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
WEIGHT : 9.300 ppg
CHLORIDES : 0 ppm
JARS-MAKE :
DID WELL FLOW?: NO

VISCOSITY : 48.00 cp
WATER LOSS: 8.800 cc

SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW - 1/2 INCH INTO
BUCKET - DIMINISHING TO A VERY WEAK BLOW - TOP OF
BUCKET. FINAL FLOW PERIOD VERY WEAK BLOW - TOP OF

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

BUCKET.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
30.0	60.0	0.0	0.0	40.0	OIL CUT MUD
32.0	100.0	0.0	0.0	0.0	FREE OIL
0.0	0.0	0.0	0.0	0.0	37 GRAVITY @ 60 DEGREES

RATE INFORMATION

OIL VOLUME: 0.2459 STB
 GAS VOLUME: 0.0000 SCF
 MUD VOLUME: 0.0590 STB
 WATER VOLUME: 0.0000 STB
 TOTAL FLUID : 0.3049 STB

TOTAL FLOW TIME: 90.0000 min.
 AVERAGE OIL RATE: 4.8781 STB/D
 AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1165.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	50.00	20.00
INITIAL SHUT-IN	30.00		875.00
FINAL FLOW	60.00	50.00	50.00
FINAL SHUT-IN	60.00		885.00

FINAL HYDROSTATIC PRESSURE: 1155.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1209.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	47.00	27.00
INITIAL SHUT-IN	30.00		873.00
FINAL FLOW	60.00	40.00	48.00
FINAL SHUT-IN	66.00		889.00

FINAL HYDROSTATIC PRESSURE: 1209.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 11/30/93	TICKET : 20202
CUSTOMER : OXY USA, INC.	LEASE : PORTER D
WELL : #90	GEOLOGIST: JOHNSON
ELEVATION: 1405 KB	FORMATION: ARBUCKLE
SECTION : 6	TOWNSHIP : 26S
RANGE : 5E	STATE : KS
GAUGE SN#: 10979	CLOCK : 12
TEST: 2	
COUNTY: BUTLER	
RANGE : 4100	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	47.00	47.00
5.00	47.00	0.00
10.00	35.00	-12.00
15.00	30.00	-5.00
20.00	27.00	-3.00
25.00	27.00	0.00
30.00	27.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	61.00	61.00	0.00
6.00	423.00	362.00	0.00
9.00	689.00	266.00	0.00
12.00	771.00	82.00	0.00
15.00	811.00	40.00	0.00
18.00	830.00	19.00	0.00
21.00	846.00	16.00	0.00
24.00	856.00	10.00	0.00
27.00	866.00	10.00	0.00
30.00	873.00	7.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	40.00	40.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

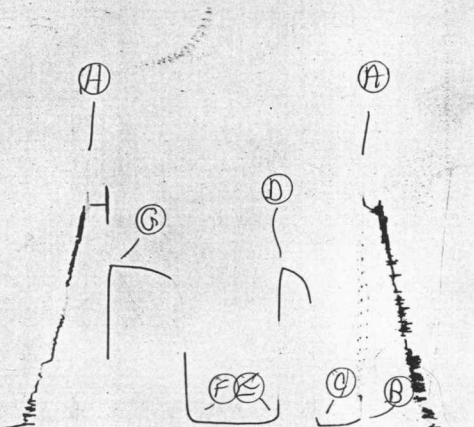
Time (min)	Pressure	Delta P
5.00	40.00	0.00
10.00	40.00	0.00
15.00	40.00	0.00
20.00	40.00	0.00
25.00	40.00	0.00
30.00	40.00	0.00
35.00	41.00	1.00
40.00	42.00	1.00
45.00	43.00	1.00
50.00	44.00	1.00
55.00	46.00	2.00
60.00	48.00	2.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	62.00	62.00	0.00
6.00	144.00	82.00	0.00
9.00	429.00	285.00	0.00
12.00	672.00	243.00	0.00
15.00	764.00	92.00	0.00
18.00	804.00	40.00	0.00
21.00	820.00	16.00	0.00
24.00	830.00	10.00	0.00
27.00	842.00	12.00	0.00
30.00	851.00	9.00	0.00
33.00	860.00	9.00	0.00
36.00	865.00	5.00	0.00
39.00	869.00	4.00	0.00
42.00	874.00	5.00	0.00
45.00	879.00	5.00	0.00
48.00	882.00	3.00	0.00
51.00	884.00	2.00	0.00
54.00	885.00	1.00	0.00
57.00	886.00	1.00	0.00
60.00	887.00	1.00	0.00
63.00	888.00	1.00	0.00
66.00	889.00	1.00	0.00

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