

OXY USA Inc
Garden City C #3
Sec 29-23S-34W
Finney County Kansas

Complete Information

API #15-055-21353

29-23s-34w

COPY

Drill Stem Tests Taken

DST #1

2738' - 2762'

Opened for initial flow of 30 min. Had slight blow at beginning of test which decreased to nothing by end of 30 min.
IFP 34 PSIA. Flowed for 30 min. FFP 34 PSIA. ISP 35 PSIA. Shut in 24 hrs.
FSP 494 PSIA. No fluid recovery in pipe. Sampler recovery 4000 ML water.

DST #2

2762' - 2802'

Opened for initial flow of 30 min. Had faint blow TSTM.
IFP 19 PSIA. Flowed for 30 min. FFP 19 PSIA. ISP 19 PSIA.
24 hr Shut-in Pressure 23.5 PSIA. Sample chamber contained
4000 ML water w/ 38 PSIG. Suspected bad Pkr seat.

CONFIDENTIAL

DST #3

2766' - 2802'

Set btm of btm pkr @ 2766 & btm of top pkr @ 2758.
Opened for initial flow of 25 min. Had slight blow at surface TSTM.
IFP 17 PSIA. FFP 17 PSIA. ISP 17 PSIA. 24hr pressure 25.5 PSIA.
No fluid recovery in pipe. Sample chamber recovery 4000 ML water.
RW 1.011, Chlorides 8400.

DST #4

2803' - 2832'

Set btm of btm pkr @ 2803 & btm of top pkr @ 2795. Opened for initial flow.
Had 1" blow into bucket. Rate TSTM. Flowed for 30 min.
IFP 16 PSIA. FFP 16 PSIA. ISP 17 PSIA. 24 hr Shut-in Pressure 47.5 PSIA.
Recovered trace of water in pipe.

DST #5

2803' - 2832'

Set btm of btm pkr @ 2806 & btm of top pkr @ 2798. Shut in for 48 hr build up.
No fluid recovery or initial flow period.
ISP 33 PSIA. 48 hr shut-in pressure 74 PSIA.

DST #6

2847' - 2856'

Set btm of btm pkr @ 2847 & btm of top pkr @ 2839. Opened for initial flow.
Had less than 1" blow into bucket that died after 15 min. Gas rate TSTM.
IFP 27 PSIA. FFP 27 PSIA. No fluid recovery in pipe or sample chamber.

DST #7

2858' - 2876'

Set btm of btm pkr @ 2858 & btm of top pkr @ 2852. Opened for initial flow.
Had slight blow at surface TSTM. Flowed for 30 min.
ISP 25 PSIA. Built up to 100 PSIA in 1 hr. Pressure broke back to 80 PSIA &
gradually built back up to 92 PSIA by end of test. Recovered trace of water
in pipe.

DST #8

2878' - 2892'

Set btm of btm shale pkr @ 2878 & btm of conventional pkr @ 2872 &
btm of 2nd conventional pkr @ 2867. Opened for initial flow. Flowed @ rate of
1/2 MCFD for 1 hr. IFP 23PSIA. FFP 23 PSIA. ISP 23 PSIA. 24 hr pressure 58
PSIA. Recovered 20' of salt water in pipe w/chlorides 70,000 PPM. Recovered
4000 ML of water in sample chamber w/chlorides 36,000 PPM.

DST #9

2902' - 2909'

Set btm of btm pkr @ 2902 & btm of top pkr @ 2895. Opened for initial flow.
Had slight blow at surface @ rate of 1/2 MCFD. Flowed for 30 min. Shut-in
for 24 hr buildup. IFP 24 PSIA. 30 min flowing pressure 24 PSIA. Gas rate
TSTM. ISP 24 PSIA. 24 hr shut-in pressure 588 PSIA. No fluid recovery in
pipe or sample chamber.

DST #10

2935' - 2943'

Set btm of btm shale pkr @ 2935 & btm of conventional pkr @ 2928. Open for initial flow.
Flowed 30 min. Gas rate 1/2 MCFD. No gas to surface. IFP 70 PSIA. FFP 70 PSIA.
ISP 70 PSIA. 24hr pressure 640 PSIA. Recovered 100' of water in pipe.

RELEASED

APR 9 1996

FROM CONFIDENTIAL

APR 11 1996

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GARDEN CITY C-#3 Test No. 1 Date 11/26/94
Company OXY USA INC Zone WREFORD
Address BOX 261000, OKLAHOMA CITY, OK 73126-0100 Elevation _____
Co. Rep./Geo. JIM DRUYFF Cont. NORSEMAN DRILLING #3 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested 2738-2762 Drill Pipe Size 4.5" XH
Anchor Length 24 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 2730 Drill Collar - 2.25 Ft. Run 622
Bottom Packer Depth 2738 Mud Wt. _____ lb/Gal.
Total Depth 2762 Viscosity 87 Filtrate _____

Tool Open @ 11:45PM Initial Blow 1/4 INCH BLOW - OPEN 2 INCHES.

Final Blow 0

Recovery - Total Feet 0 Flush Tool? NO

Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 550 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

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

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

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

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 24 Final Shut-in _____

Our Representative TOM HORACEK

FLUID SAMPLER DATA

Ticket No.: 7337 Date: 11/26/94
Company: OXY USA INC
Lease: GARDEN CITY C-#3 Test No.: 1
County: FINNEY Sec.: 29 Twp.: 23S Rng.: 34W

SAMPLER RECOVERY

Gas ML
Oil ML
Mud 4000 ML
Water ML
Other ML
Pressure 350 PSI
TOTAL 4000 ML

SAMPLER ANALYSIS

Resistivity ohms@ F
Chlorides ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 550
Resistivity ohms@ F
Viscosity 87
Mud Wt. 0.86
Filtrate
Other FOAM

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity ohms@ F
Chlorides ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7337 Date 11-26-94
Company Name Oxy USA Inc.
Lease Garden City C-#3 Test No. #1
County Finney Ks Sec. 29 Twp. 23 Rng. 34

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 4000 ML
Other _____ ML
Pressure 350 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 550 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 87
Mud Weight .86
Filtrate _____
Other Foam

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GARDEN CITY C-#3 Test No. 2 Date 11/28/94
Company OXY USA INC Zone COUNCIL GROV
Address BOX 261000, OKLAHOMA CITY, OK 73126-0100 Elevation 3020
Co. Rep./Geo. JIM DRUYFF Cont. NORSEMAN DRILLING #3 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested	<u>2762-2802</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>40</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>2754</u>	Drill Collar - 2.25 Ft. Run	<u>622</u>
Bottom Packer Depth	<u>2762</u>	Mud Wt.	<u>1.24</u> lb/Gal.
Total Depth	<u>2802</u>	Viscosity	<u>86</u>
		Filtrate	_____

Tool Open @ 1:48PM Initial Blow 1/4 INCH BLOW - OPEN 2 INCHES.

Final Blow 0

Recovery - Total Feet 0 Flush Tool? NO

Rec.	Feet of	_____
Rec.	Feet of	_____
Rec.	Feet of	_____
Rec.	Feet of	_____
Rec.	Feet of	_____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 1.012 @ 50 °F Chlorides 8,400 ppm Recovery Chlorides 800 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. _____ Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) _____ w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

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

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

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

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 24 Final Shut-in _____

Our Representative TOM HORACEK

FLUID SAMPLER DATA

Ticket No.: 7338 Date: 11/28/94
 Company: OXY USA INC
 Lease: GARDEN CITY C-#3 Test No.: 2
 County: FINNEY Sec.: 29 Twp.: 23S Rng.: 34W

SAMPLER RECOVERY

Gas ML
 Oil ML
 Mud 4000 ML
 Water ML
 Other ML
 Pressure 38 PSI
 TOTAL 4000 ML

PIT MUD ANALYSIS

Chlorides 800
 Resistivity ohms@ F
 Viscosity 86
 Mud Wt. 1.24
 Filtrate
 Other FOAM

SAMPLER ANALYSIS

Resistivity 1.012 ohms@ 50 F
 Chlorides 8,400 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7338 Date 11-28-94
Company Name Oxy USA Inc.
Lease Garden City C-#3 Test No. #2
County Finney Ks Sec. 29 Twp. 23 Rng. 34

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 4000 ML
Other _____ ML
Pressure 38 PSI
Total 4000 ML

SAMPLER ANALYSIS

Resistivity 1.0/2 ohms @ 50 F
Chlorides 8400 ppm.
Gravity _____ corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 800 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 86
Mud Weight 1.24
Filtrate _____
Other Foam

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GARDEN CITY C-#3 Test No. 2 'B' Date 11/29/94
Company OXY USA INC Zone COUNCIL GROV
Address BOX 261000, OKLAHOMA CITY, OK 73126-0100 Elevation 3020
Co. Rep./Geo. JIM DRUYFF Cont. NORSEMAN DRILLING #3 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested <u>2766-2800</u>	Drill Pipe Size <u>4.5" XH</u>
Anchor Length <u>36</u>	Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth <u>2758</u>	Drill Collar - 2.25 Ft. Run <u>622</u>
Bottom Packer Depth <u>2766</u>	Mud Wt. <u>1.24</u> lb/Gal.
Total Depth <u>2802</u>	Viscosity <u>86</u> Filtrate _____

Tool Open @ 7:17PM Initial Blow 1 INCH BLOW - OPEN 2 MINUTES.

Final Blow 0

Recovery - Total Feet _____ Flush Tool? NO

Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 1.011 @ 50 °F Chlorides 8,400 ppm Recovery Chlorides 800 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. 5495 Range 4200

(B) First Initial Flow Pressure _____ PSI @ (depth) 2799 w / Clock No. 25813

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

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

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

(G) Final Shut-in Pressure _____ PSI Initial Opening 25 Final Flow _____

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 24 Final Shut-in _____

Our Representative TOM HORACEK

FLUID SAMPLER DATA

Ticket No.: 7339 Date: 11/29/94
 Company: OXY USA INC
 Lease: GARDEN CITY C-#3 Test No.: 2 'B'
 County: FINNEY Sec.: 29 Twp.: 23S Rng.: 34W

SAMPLER RECOVERY

Gas ML
 Oil ML
 Mud 4000 ML
 Water ML
 Other ML
 Pressure 18 PSI
 TOTAL 4000 ML

PIT MUD ANALYSIS

Chlorides 800
 Resistivity ohms@ F
 Viscosity 86
 Mud Wt. 1.24
 Filtrate
 other FOAM

SAMPLER ANALYSIS

Resistivity 1.011 ohms@ 50 F
 Chlorides 8,400 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity ohms@ F
 Chlorides ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7339 Date 11-29-94
Company Name Oxy USA Inc
Lease Garden City C-43 Test No. # 2 "B"
County Finney Kc. Sec. 29 Twp. 23 Rng. 34

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 4000 ML
Other _____ ML
Pressure 18 PSI
Total 4000 ML

PIT MUD ANALYSIS

Chlorides 800 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 86
Mud Weight 1.24
Filtrate _____
Other Foam

SAMPLER ANALYSIS

Resistivity 1.011 ohms @ 50 F
Chlorides 8400 ppm.
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GARDEN CITY C-#3 Test No. 4 Date 12/01/94
Company OXY USA INC Zone COUNCIL GROV
Address BOX 261000, OKLAHOMA CITY, OK 73126-0100 Elevation 2976
Co. Rep./Geo. JIM DRUYFF Cont. NORSEMAN DRILLING #3 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested	<u>2803-2832'</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>29</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>2796</u>	Drill Collar - 2.25 Ft. Run	<u>622</u>
Bottom Packer Depth	<u>2803</u>	Mud Wt.	<u>.94</u> lb/Gal.
Total Depth	<u>2832</u>	Viscosity	<u>88</u> Filtrate _____

Tool Open @ 8:40AM Initial Blow 1/4 INCH BLOW, WENT TO 2" FINAL GAUGING.

Final Blow 0

Recovery - Total Feet 2 Flush Tool? NO

Rec. 2 Feet of WATER.

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API

RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1,150 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. ELECTRONIC Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) 2805 w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

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

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

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

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 24 HOURS Final Shut-in _____

Our Representative ROD STEINBRINK

FLUID SAMPLER DATA

Ticket No.: 7496 Date: 12/01/94
Company: OXY USA INC
Lease: GARDEN CITY C-#3 Test No.: 4
County: FINNEY Sec.: 29 Twp.: 23S Rng.: 34W

SAMPLER RECOVERY

Gas 4,000 ML
Oil ML
Mud ML
Water ML
Other ML
Pressure 3 PSI
TOTAL 4,000 ML

PIT MUD ANALYSIS

Chlorides 1,150
Resistivity 3.7 ohms@ 70 F
Viscosity 88
Mud Wt. .94
Filtrate
Other FOAM

SAMPLER ANALYSIS

Resistivity ohms@ F
Chlorides ppm.
Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity 3.7 ohms@ 70 F
Chlorides 1,150 ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7496 Date 12-1-92
Company Name OXY USA, Inc Cont. Norseman #3
Lease Garden City C #3 Test No. 4 Council Grove B-1
County Finney KS Sec. 29 Twp. 32^S Rng. 34^W

SAMPLER RECOVERY

Gas 4,000 ML
Oil _____ ML
Mud — ML
Water — ML
Other _____ ML
Pressure 3[#] PSI
Total 4,000 ML

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 1150 ppm.
Resistivity 3.7 ohms @ 70° F
Viscosity 88
Mud Weight -94
Filtrate _____
Other _____

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity 3.7 ohms @ 70° F
Chlorides 1150 ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GARDEN CITY C-#3 Test No. 5 Date 12/02/94
Company OXY USA INC Zone COUNCIL GROV
Address BOX 261000, OKLAHOMA CITY, OK 73126-0100 Elevation 2976
Co. Rep./Geo. DAVE SIMMONS/JIM DRUYFF Cont. NORSEMAN DRILLING #3 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested 2806-2832 Drill Pipe Size 4.5" XH
Anchor Length 26 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 2799 Drill Collar - 2.25 Ft. Run 622
Bottom Packer Depth 2806 Mud Wt. _____ lb/Gal.
Total Depth 2832 Viscosity _____ Filtrate _____

Tool Open @ 2:45PM Initial Blow RAN BLANK SUB ABOVE PACKERS TO BE ABLE TO TELL IF
PACKERS ARE FAILING. TOOL SLID 11' TO BOTTOM. (PULL LOOSE 2:45 PM ON 12/4
Final Blow 0

Recovery - Total Feet _____ Flush Tool? NO

Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides _____ ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. ELECTRONIC Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) 2809 w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

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

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

(G) Final Shut-in Pressure _____ PSI Initial Opening _____ Final Flow _____

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 48 HOURS Final Shut-in _____

Our Representative ROD STEINBRINK

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GARDEN CITY C-#3 Test No. 6 Date 12/5/94
Company OXY USA INC Zone COUNCIL GROV
Address BOX 261000, OKLAHOMA CITY, OK 73126-0100 Elevation 2976
Co. Rep./Geo. DAVE SIMMONS Cont. NORSEMAN DRILLING #3 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested	<u>2847-2856</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>9</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>2840</u>	Drill Collar - 2.25 Ft. Run	<u>622</u>
Bottom Packer Depth	<u>2847</u>	Mud Wt.	<u>1.15</u> lb/Gal.
Total Depth	<u>2856</u>	Viscosity	<u>89</u> Filtrate _____

Tool Open @ 4:15AM Initial Blow WEAK SURFACE BLOW.

Final Blow 0

Recovery - Total Feet 0 Flush Tool? NO

Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 1,000 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. ELECTRONIC Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) 2834 w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. ELECTRONIC Range _____

(D) Initial Shut-in Pressure _____ PSI @ (depth) 2855 w / Clock No. _____

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

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

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

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 24 HOURS Final Shut-in _____

Our Representative ROD STEINBRINK

FLUID SAMPLER DATA

Ticket No.: 7498 Date: 12/5/94
Company: OXY USA INC
Lease: GARDEN CITY C-#3 Test No.: 6
County: FINNEY Sec.: 29 Twp.: 23S Rng.: 34W

SAMPLER RECOVERY

Gas ML
Oil ML
Mud ML
Water ML
Other AIR 4,000 ML
Pressure 0 PSI
TOTAL 4,000 ML

SAMPLER ANALYSIS

Resistivity ohms@ F
Chlorides ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 1,000
Resistivity ohms@ F
Viscosity 89
Mud Wt. 1.15
Filtrate
Other FOAM

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity ohms@ F
Chlorides ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7498 Date 12-5-94
Company Name OXY USA, Inc. Cont. Norseman #3
Lease Garden City C #3 Test No. 6 Council Grove B-2
County Finney KS Sec. 29 Twp. 23 S Rng. 34 W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water _____ ML
Other Air 4,000 ML
Pressure 0 PSI
Total 4,000 ML

SAMPLER ANALYSIS

Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
Gravity _____ corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 1,000 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 89
Mud Weight 1.15
Filtrate _____
Other _____

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.
BOTTOM
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GARDEN CITY C-#3 Test No. 7 Date 12/06/94
Company OXY USA INC Zone COUNCIL GROV
Address BOX 261000, OKLAHOMA CITY, OK 73126-0100 Elevation 2976
Co. Rep./Geo. DAVE SIMMONS Cont. NORSEMAN DRILLING #3 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested 2858-2876 Drill Pipe Size 4.5" XH
Anchor Length 18 Wt. Pipe I.D. - 2.7 Ft. Run _____
Top Packer Depth 2347-2852 Drill Collar - 2.25 Ft. Run 622
Bottom Packer Depth 2858 Mud Wt. 1.04 lb/Gal.
Total Depth 2876 Viscosity _____ Filtrate _____

Tool Open @ 5:35PM Initial Blow VERY WEAK SURFACE BLOW - WENT TO GAUGE.

Final Blow 0

Recovery - Total Feet 2 Flush Tool? NO

Rec. 2 Feet of WATER.
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 5.5 @ 70 °F Chlorides 1,000 ppm Recovery Chlorides 875 ppm System

(A) Initial Hydrostatic Mud 45.8 PSI AK1 Recorder No. ELECTRONIC Range _____

(B) First Initial Flow Pressure 45.8 PSI @ (depth) 2862 w / Clock No. _____

(C) First Final Flow Pressure 45.8 PSI AK1 Recorder No. ELECTRONIC Range _____

(D) Initial Shut-in Pressure 45.8 PSI @ (depth) 2866 w / Clock No. _____

(E) Second Initial Flow Pressure 45.8 PSI AK1 Recorder No. 13339 Range 4025

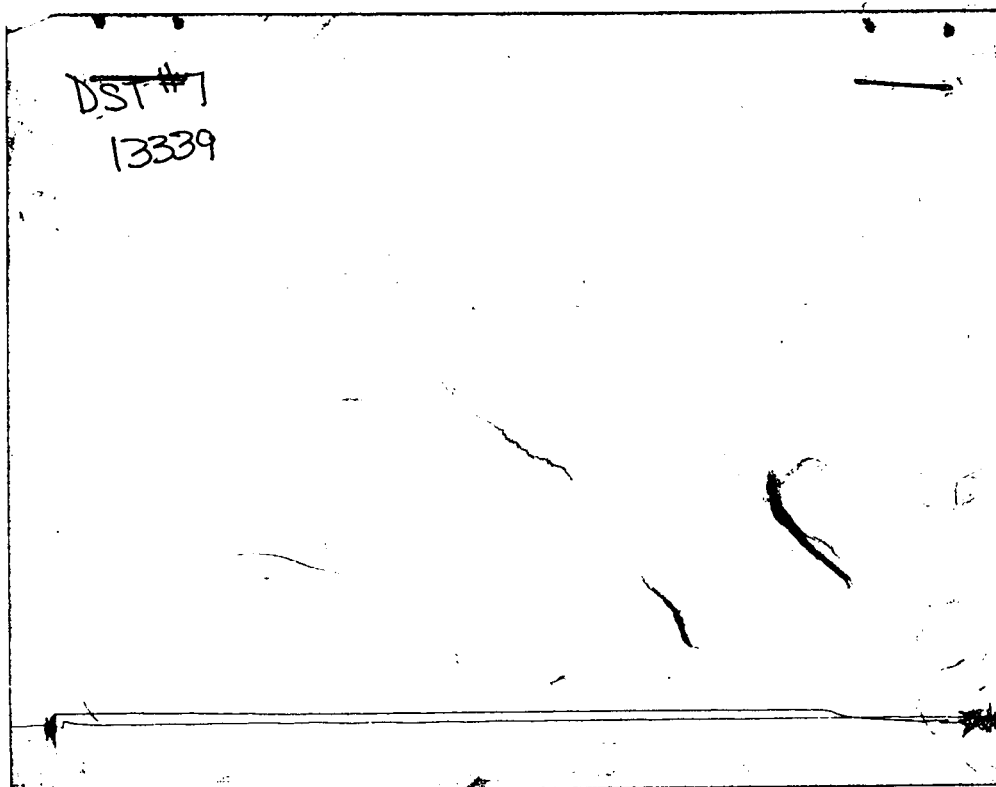
(F) Second Final Flow Pressure 45.8 PSI @ (depth) 2871 w / Clock No. 24 HR

(G) Final Shut-in Pressure 45.8 PSI Initial Opening 30 Final Flow _____

(H) Final Hydrostatic Mud 45.8 PSI Initial Shut-in 24 HOURS Final Shut-in _____

Our Representative ROD STEINBRINK

CHART PAGE



This is an actual photograph of recorder chart

	FIELD READING	OFFICE READING
(A) INITIAL HYDROSTATIC MUD	41	45.8
(B) FIRST INITIAL FLOW PRESSURE	41	45.8
(C) FIRST FINAL FLOW PRESSURE	41	45.8
(D) INITIAL CLOSED-IN PRESSURE	41	45.8
(E) SECOND INITIAL FLOW PRESSURE	41	45.8
(F) SECOND FINAL FLOW PRESSURE	41	45.8
(G) FINAL CLOSED-IN PRESSURE	41	45.8
(H) FINAL HYDROSTATIC MUD	41	45.8

FLUID SAMPLER DATA

Ticket No.: 7499 Date: 12/06/94
 Company: OXY USA INC
 Lease: GARDEN CITY C-#3 Test No.: 7
 County: FINNEY Sec.: 29 Twp.: 23S Rng.: 34W

SAMPLER RECOVERY

Gas ML
 Oil ML
 Mud ML
 Water 1,200 ML
 Other ML
 Pressure 15 PSI
 TOTAL 4,000 ML

PIT MUD ANALYSIS

Chlorides 875
 Resistivity ohms@ F
 Viscosity
 Mud Wt. 1.04
 Filtrate
 Other FOAM

SAMPLER ANALYSIS

Resistivity 5.5 ohms@ 70 F
 Chlorides 1,000 ppm.
 Gravity corrected @60F

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity 5.5 ohms@ 70 F
 Chlorides 1,000 ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7499 Date 12-6-94
Company Name OXY, USA Inc. Cont. Norseman #3
Lease Garden City C #3 Test No. 7 Council Grove B-3
County Finney KS Sec. 29 Twp. 23^S Rng. 34^W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 1,200 ML
Other _____ ML
Pressure 15 # PSI
Total 4,000 ML

SAMPLER ANALYSIS

Resistivity 5.5 ohms @ 70° F
Chlorides 1,000 ppm.
Gravity _____ corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 875 ppm.
Resistivity _____ ohms @ _____ F
Viscosity _____
Mud Weight 1.04
Filtrate _____
Other _____

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity 5.5 ohms @ 70° F
Chlorides 1,000 ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GARDEN CITY C-#3 Test No. 8 Date 12/8/94
Company OXY USA INC Zone COUNCIL GROV
Address BOX 261000, OKLAHOMA CITY, OK 73126-0100 Elevation 2976
Co. Rep./Geo. DAVE SIMMONS/JIM DRUYFF Cont. NORSEMAN DRILLING #3 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested	<u>2878-2892</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>14</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>2867-2872</u>	Drill Collar - 2.25 Ft. Run	<u>622</u>
Bottom Packer Depth	<u>2878</u>	Mud Wt.	<u>0.98</u> lb/Gal.
Total Depth	<u>2892</u>	Viscosity	<u>90</u> Filtrate _____

Tool Open @ 5:50AM Initial Blow WEAK 1/4" BLOW INCREASING - STARTED GAUGE

Final Blow _____

Recovery - Total Feet 20 Flush Tool? NO

Rec. <u>20</u>	Feet of <u>WATER</u>
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____
Rec. _____	Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.31 @ 75 °F Chlorides 20000 ppm Recovery Chlorides 1100 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. ELECTRONIC Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) 2879 w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. _____ Range _____

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

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

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

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

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 24 HRS Final Shut-in _____

Our Representative ROD STEINBRINK

FLUID SAMPLER DATA

Ticket No.: 7500 Date: 12/8/94
Company: OXY USA INC
Lease: GARDEN CITY C-#3 Test No.: 8
County: FINNEY Sec.: 29 Twp.: 23S Rng.: 34W

SAMPLER RECOVERY

Gas ML
Oil ML
Mud ML
Water 3500 ML
Other 500 ML
Pressure 25 PSI
TOTAL 4,000 ML

SAMPLER ANALYSIS

Resistivity 0.31 ohms@ 75 F
Chlorides 20000 ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 1100
Resistivity ohms@ F
Viscosity 90
Mud Wt. 0.98
Filtrate
Other FOAM

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity 0.31 ohms@ 75 F
Chlorides 20000 ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7500 Date 12-8-94
Company Name OXY USA, Inc. Cont. Norseman #3
Lease Garden City C #3 Test No. 8 Council Grove
County Finney KS Sec. 29 Twp. 23^S Rng. 34^W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 3,500 ML
Other 500 ML
Pressure 25[#] PSI
Total 4,000 ML

PIT MUD ANALYSIS

Chlorides 1,100 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 90
Mud Weight -98
Filtrate _____
Other _____

SAMPLER ANALYSIS

Resistivity -31 ohms @ 75° F
Chlorides 20,000 ppm.
mud engineer w/chem. 36,200
Gravity _____ corrected @ 60 F

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity -31 ohms @ 75° F
Chlorides 20,000 ppm.
mud engineer w/chem 70,500

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GARDEN CITY C-#3 Test No. 9 Date 12/9/94
Company OXY USA INC Zone COUNCIL GROV
Address BOX 261000, OKLAHOMA CITY, OK 73126-0100 Elevation 2976
Co. Rep./Geo. DAVE SIMMONS/JIM DRUYFF Cont. NORSEMAN DRILLING #3 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested	<u>2902-2909</u>	Drill Pipe Size	<u>4.5" XH</u>
Anchor Length	<u>7</u>	Wt. Pipe I.D. - 2.7 Ft. Run	_____
Top Packer Depth	<u>2895</u>	Drill Collar - 2.25 Ft. Run	<u>622</u>
Bottom Packer Depth	<u>2902</u>	Mud Wt.	<u>0.74</u> lb/Gal.
Total Depth	<u>2909</u>	Viscosity	<u>91</u>
		Filtrate	_____

Tool Open @ 4:45PM Initial Blow WEAK BLOW INCREASING - STARTED GAUGE

Final Blow 0

Recovery - Total Feet 2 Flush Tool? NO

Rec. <u>2</u>	Feet of	<u>MUDDY WATER</u>
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____
Rec. _____	Feet of	_____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW _____ @ _____ °F Chlorides _____ ppm Recovery Chlorides 11880 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. ELECTRONIC Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) 2883 w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. ELECTRONIC Range _____

(D) Initial Shut-in Pressure _____ PSI @ (depth) 2907 w / Clock No. _____

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

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

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

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 24 HRS Final Shut-in _____

Our Representative ROD STEINBRINK

FLUID SAMPLER DATA

Ticket No.: 7676 Date: 12/9/94
 Company: OXY USA INC
 Lease: GARDEN CITY C-#3 Test No.: 9
 County: FINNEY Sec.: 29 Twp.: 23S Rng.: 34W

SAMPLER RECOVERY

Gas ML
 Oil ML
 Mud 1400 ML
 Water 2600 ML
 Other ML
 Pressure 10 PSI
 TOTAL 4,000 ML

SAMPLER ANALYSIS

Resistivity 0.21 ohms@ 80 F
 Chlorides 30000 ppm.
 Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 11880
 Resistivity ohms@ F
 Viscosity 91
 Mud Wt. 0.74
 Filtrate
 Other

PIPE RECOVERY

TOP

Resistivity ohms@ F
 Chlorides ppm

MIDDLE

Resistivity ohms@ F
 Chlorides ppm

BOTTOM

Resistivity 0.23 ohms@ 70 F
 Chlorides 32000 ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7676 Date 12-9-94
Company Name OXY USA Cont. Norseman #3
Lease Garden City C #3 Test No. 9 Council Grove B-5
County Finney KS. Sec. 29 Twp. 23^S Rng. 34^W

SAMPLER RECOVERY

PIT MUD ANALYSIS

Gas _____ ML
Oil _____ ML
Muddy Wtr. 1400 ? ML
Water 3600 ML
Other _____ ML
Pressure 10[#] PSI
Total 4,000 ML

Chlorides 11,880 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 91
Mud Weight .74
Filtrate _____
Other _____

SAMPLER ANALYSIS

PIPE RECOVERY

Resistivity .21 ohms @ 80° F
Chlorides 30,000 ppm.
Gravity _____ corrected @ 60 F

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity .23 ohms @ 70° F
Chlorides 32,000 ppm.

TRILOBITE TESTING, L.L.C.

P.O. Box 362 • Hays, Kansas 67601

Drill-Stem Test Data

Well Name GARDEN CITY C-#3 Test No. 10 Date 12/11/94
Company OXY USA INC Zone COUNCIL GROV
Address BOX 261000, OKLAHOMA CITY, OK 73126-0100 Elevation 2976
Co. Rep./Geo. DAVE SIMMONS/JIM DRUYFF Cont. NORSEMAN DRILLING #3 Est. Ft. of Pay _____
Location: Sec. 29 Twp. 23S Rge. 34W Co. FINNEY State KS

Interval Tested 2935-2943
Anchor Length 8
Top Packer Depth 2928
Bottom Packer Depth 2935
Total Depth 2943

Drill Pipe Size 4.5" XH
Wt. Pipe I.D. - 2.7 Ft. Run _____
Drill Collar - 2.25 Ft. Run 622
Mud Wt. _____ lb/Gal.
Viscosity 92 Filtrate _____

Tool Open @ 4:55AM Initial Blow FAIR 2" BLOW BUILDING - STARTED GAUGE
TOOL SLID 6' TO BOTTOM
Final Blow 0
0

Recovery - Total Feet 100 Flush Tool? NO

Rec. 100 Feet of WATER
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____
Rec. _____ Feet of _____

BHT _____ °F Gravity _____ °API @ _____ °F Corrected Gravity _____ °API
RW 0.2 @ 74 °F Chlorides 32500 ppm Recovery Chlorides 7500 ppm System

(A) Initial Hydrostatic Mud _____ PSI AK1 Recorder No. ELECTRONIC Range _____

(B) First Initial Flow Pressure _____ PSI @ (depth) 2920 w / Clock No. _____

(C) First Final Flow Pressure _____ PSI AK1 Recorder No. ELECTRONIC Range _____

(D) Initial Shut-in Pressure _____ PSI @ (depth) 2941 w / Clock No. _____

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

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

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

(H) Final Hydrostatic Mud _____ PSI Initial Shut-in 26 HRS 45 MIN Final Shut-in _____

Our Representative ROD STEINBRINK

FLUID SAMPLER DATA

Ticket No.: 7677 Date: 12/11/94
Company: OXY USA INC
Lease: GARDEN CITY C-#3 Test No.: 10
County: FINNEY Sec.: 29 Twp.: 23S Rng.: 34W

SAMPLER RECOVERY

Gas ML
Oil ML
Mud ML
Water 4000 ML
Other ML
Pressure 20 PSI
TOTAL 4,000 ML

SAMPLER ANALYSIS

Resistivity 0.2 ohms@ 74 F
Chlorides 32500 ppm.
Gravity corrected @60F

PIT MUD ANALYSIS

Chlorides 7500
Resistivity ohms@ F
Viscosity 92
Mud Wt. 1.04
Filtrate
Other

PIPE RECOVERY

TOP

Resistivity ohms@ F
Chlorides ppm

MIDDLE

Resistivity ohms@ F
Chlorides ppm

BOTTOM

Resistivity 0.21 ohms@ 70 F
Chlorides 33000 ppm

TRILOBITE TESTING L.L.C.

P.O. Box 362 - Hays, Kansas 67601

FLUID SAMPLER DATA

Ticket No. 7677 Date 12-11-94
Company Name DX4 USA Cont. Norseman #3
Lease Garden City C #3 Test No. 10 Council Grove C-3
County Finney KS. Sec. 29 Twp. 23S Rng. 34W

SAMPLER RECOVERY

Gas _____ ML
Oil _____ ML
Mud _____ ML
Water 4.000 ML
Other _____ ML
Pressure 20* PSI
Total 4.000 ML

SAMPLER ANALYSIS

Resistivity .20 ohms @ 74° F
Chlorides 32,500 ppm.
Gravity _____ corrected @ 60 F

PIT MUD ANALYSIS

Chlorides 7,500 ppm.
Resistivity _____ ohms @ _____ F
Viscosity 92
Mud Weight 1.04
Filtrate _____
Other _____

PIPE RECOVERY

TOP
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

MIDDLE
Resistivity _____ ohms @ _____ F
Chlorides _____ ppm.

BOTTOM
Resistivity .21 ohms @ 70° F
Chlorides 33,000 ppm.