

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 5-21-1991 Location SW-NW-NW 25-9³-27^W Elevation 2664 K.B. County SHERIDAN

Company NATIONAL PETROLEUM RESERVES INC. Number of Copies 5

Charts Mailed to 250 North Rock Road Suite 340 Wichita Kansas 67206

Drilling Contractor Emphasis Drilling Rig #6

Length Drill Pipe 3813 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 4"

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 3836 Bottom Packer Depth 3841 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3841 TO 3880 ANCHOR LENGTH 39 TOTAL DEPTH 3880 Hole Size 7 7/8"

LEASE & WELL NO. McFadden #1 FORMATION TESTED Kansas City 35 TEST NO. 1

Mud Weight 8.4 Viscosity 41 Water Loss 10.8 Chlorides - Pits 2000 D.S.T. _____

Maximum Temp. 117 °F Initial Hydrostatic Pressure (A) 1898 P.S.I. Final Hydrostatic Pressure (H) 1876 P.S.I.

Tool Open I.F.P. from 4:30 A m to 4:45 A m 15 min

Tool Closed I.C.I.P. from 4:45 A m to 5:00 A m 15 min

Tool Open F.F.P. from 5:00 A m to 5:15 A m 15 min

Tool Closed F.C.I.P. from 5:15 A m to 5:30 A m 15 min

Initial Blow WEAK blow built to 1/2 inch into the water

Final Blow VERY WEAK SURFACE blow through out

Total Feet Recovered 30 Gravity of Oil _____ Corrected _____

30 Feet of Very slightly oil cut mud 0% Gas 6% Oil 94% Mud 0% Water

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

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Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water

Remarks _____

Extra Equipment - Jars YES Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 906 Clock No. 47442 Depth 3874 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 13561 Clock No. 47442 Depth 3877 Insurance NONE

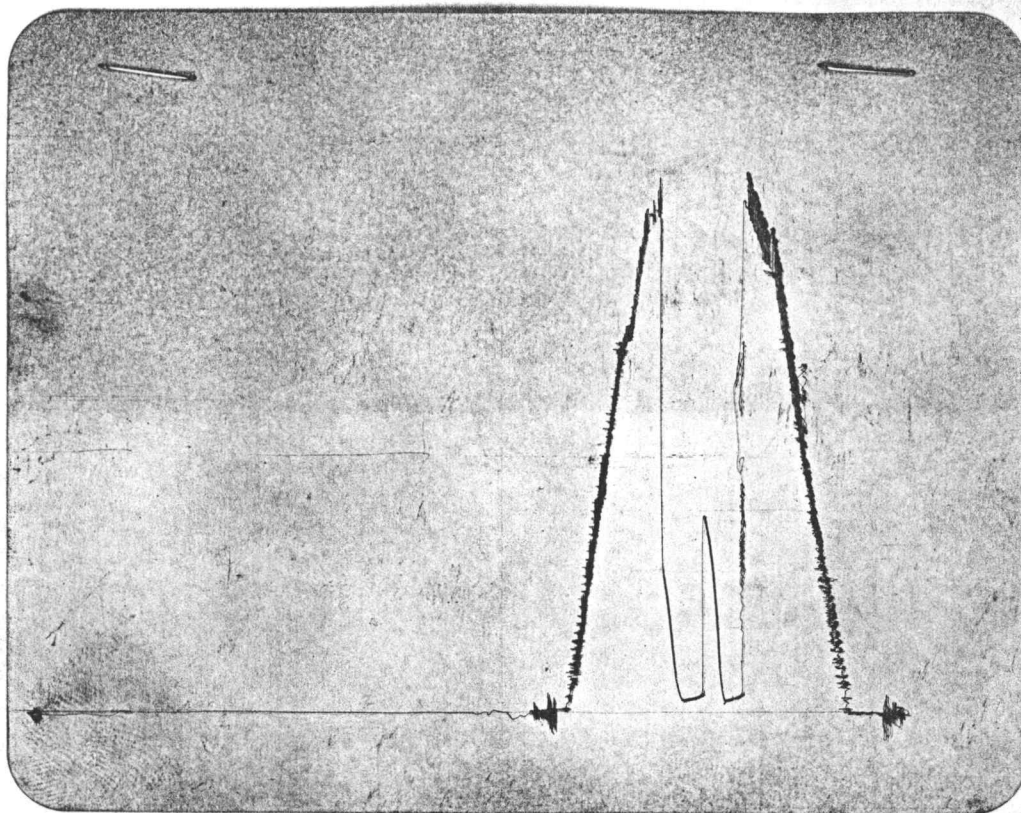
Price of Job _____

Tool Operator Jane Rudy

Approved By _____

No 11923

Superior Testers Enterprises, Inc. shall not be liable for damage 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, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	1989	1909	P.S.I.
(B) First Initial Flow Pressure	65	61	P.S.I.
(C) First Final Flow Pressure	43	43	P.S.I.
(D) Initial Closed-in Pressure	747	742	P.S.I.
(E) Second Initial Flow Pressure	72	67	P.S.I.
(F) Second Final Flow Pressure	50	44	P.S.I.
(G) Final Closed-in Pressure	543	529	P.S.I.
(H) Final Hydrostatic Mud	1876	1892	P.S.I.

SUPERIOR TESTERS ENTERPRISES INC.

WELL IDENTIFICATION DATA

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : MCFADDEN #1
ADDRESS : 250 N. ROCK ROAD, WICHITA LOCATION : SW-NW-NW 25-9S-27W
STATE & COUNTY : KANSAS, SHERIDAN FIELD :
ELEV. (GR) : 2659 (KB) : 2664 TEST DATE : 5-21-1991

EQUIPMENT AND HOLE DATA

FORMATION TESTED : KANSAS CITY "35" DRILL PIPE LENGTH(ft) : 3813
TEST INT. KB : 3841 to 3880 DRILL PIPE O.D. (in) : 3.82
ANCHOR LENGTH(ft) : 39 WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kg) : 3880 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.259
MUD WEIGHT : 8.9 TOP PACKER DEPTH(kb) : 3836
MUD VISCOSITY : 41 BOTTOM PACKER DEPTH(kb) : 3841
MUD CHLORIDES : 2000 DUAL PACKERS :
SURFACE CHOKE : 3/4 PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4 PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2 TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2 REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 117 TEST TICKET NUMBER : 11923

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 906
RANGE : 0 - 2875 CLOCK RANGE : 12 HOURS
CAL. EQU. : $720.06 * \text{Defl.} + 3.83$

SURFACE BLOW

1st Opening : WEAK BLOW BUILT TO 1/2 INCH INTO THE WATER
2nd Opening : VERY WEAK SURFACE BLOW THROUGH OUT

RECOVERY

Recovered 30 feet of VERY SLIGHTLY OIL CUT MUD 6% OIL 94% MUD

REMARKS :

WITNESSED BY : DAN DEBOER

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : MCFADDEN #1
 DATE OF TEST : 5-21-1991 LOCATION : SW-NW-NW 25-9S-27W
 DEPTH : 3874.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	----- CALC	PRESSURE PSIG CORR	----- CORRECTED
TEST NO.:1					
Depth : 3874.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.645	1908.38	.65	1909.03
-4:30 1ST FLOW	0.0	.085	65.04	-3.35	61.68
- 4:35	5.0	.071	54.96	-3.43	51.52
- 4:40	10.0	.062	48.48	-3.48	44.99
- 4:45	15.0	.060	47.04	-3.49	43.54
-4:45 END FLOW	0.0	.060	47.04	-3.49	43.54
- 4:50	5.0	.399	291.14	-1.58	289.55
- 4:55	10.0	.806	584.20	.71	584.91
- 5:01	16.0	1.023	740.45	1.93	742.38
-5:01 1ST SHUT-IN	0.0	1.023	740.45	1.93	742.38
-5:01 2ND FLOW	0.0	.093	70.80	-3.31	67.49
- 5:06	5.0	.081	62.16	-3.38	58.78
- 5:11	10.0	.069	53.52	-3.44	50.07
- 5:17	16.0	.062	48.48	-3.48	44.99
-5:17 END FLOW	0.0	.062	48.48	-3.48	44.99
- 5:22	5.0	.205	151.44	-2.68	148.77
- 5:27	10.0	.532	386.90	-.84	386.07
- 5:32	15.0	.729	528.75	.27	529.03
-5:32 2ND SHUT-IN	0.0	.729	528.75	.27	529.03
-2ND HYDROSTATIC	0.0	2.622	1891.82	.73	1892.55

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Date 5-21-1921 Location SU-NW-NW 25-9^S-27^W Elevation 2664 KB County SHERIDAN

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Charts Mailed to 250 North Rock Road, Suite 340 Wichita Kansas 67206

Drilling Contractor EMPHASIS Drilling Rig #6

Length Drill Pipe 3843 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" XH.

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 3865 Bottom Packer Depth 3870 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3870 TO 3910 ANCHOR LENGTH 40 TOTAL DEPTH 3910 Hole Size 7 7/8"

LEASE & WELL NO. McFadden #1 FORMATION TESTED Kansas City "50-90" TEST NO. 2

Mud Weight 9.3 Viscosity 47 Water Loss 10.2 Chlorides - Pits 3000 D.S.T.

Maximum Temp. 118 °F Initial Hydrostatic Pressure (A) 1970 P.S.I. Final Hydrostatic Pressure (H) 1941 P.S.I.

Tool Open I.F.P. from 3:45 P m to 4:00 P m 15 min

Tool Closed I.C.I.P. from 4:00 P m to 4:10 P m 10 min

Tool Open F.F.P. from 4:10 P m to 4:12 P m 2 min

Tool Closed F.C.I.P. from NONE m to TAKEN m 0 min

Initial Blow VERY WEAK blow built to 1/2 inch into the water

Final Blow no blow

Total Feet Recovered 5 Gravity of Oil Corrected

5 Feet of mud with a fair show of oil in the Gas % Oil % Mud % Water

Feet of tool % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

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Feet of % Gas % Oil % Mud % Water

Remarks

Extra Equipment - Jars YES Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 906 Clock No. 47441 Depth 3906 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 471341 Clock No. 47442 Depth 3903 Insurance NONE

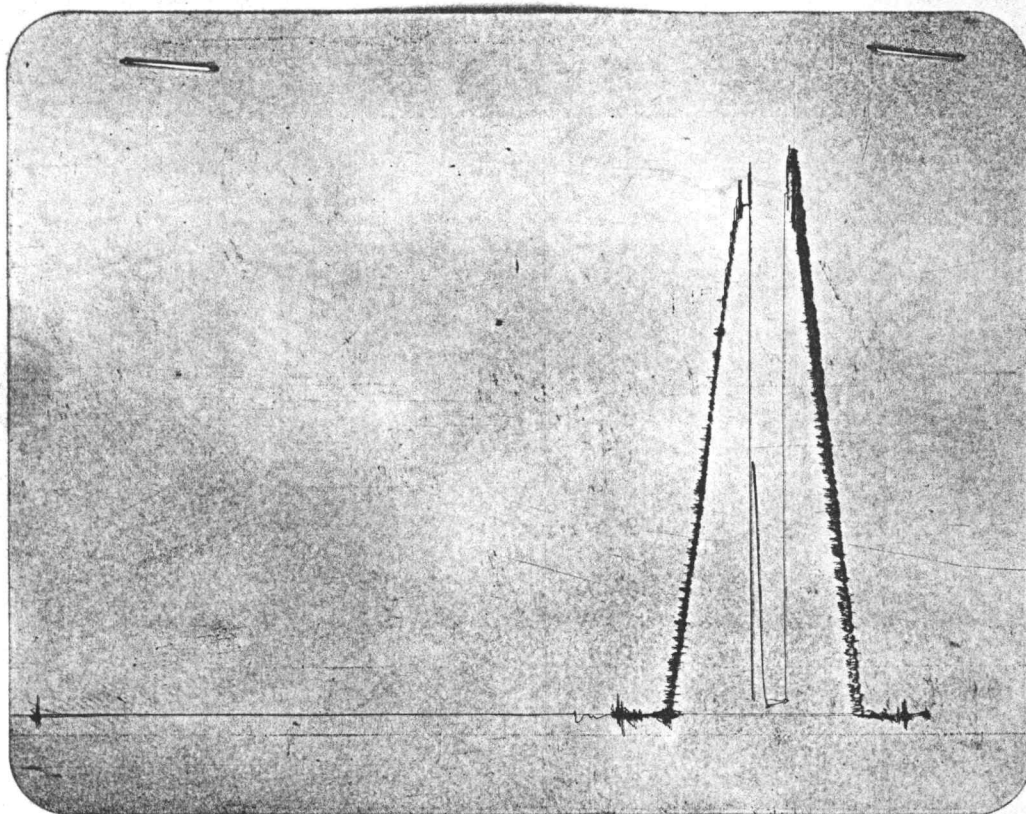
Price of Job

Tool Operator Sam Budig

Approved By

No 11924

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This is an actual photograph of recorder chart.

POINT	PRESSURE		
	FIELD READING	OFFICE READING	
(A) Initial Hydrostatic Mud	<u>1970</u>	<u>1941</u>	P.S.I.
(B) First Initial Flow Pressure	<u>58</u>	<u>50</u>	P.S.I.
(C) First Final Flow Pressure	<u>36</u>	<u>33</u>	P.S.I.
(D) Initial Closed-in Pressure	<u>957</u>	<u>955</u>	P.S.I.
(E) Second Initial Flow Pressure	_____	_____	P.S.I.
(F) Second Final Flow Pressure	_____	_____	P.S.I.
(G) Final Closed-in Pressure	_____	_____	P.S.I.
(H) Final Hydrostatic Mud	<u>1941</u>	<u>1914</u>	P.S.I.

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ANCHOR LENGTH(ft) : 40 WEIGHT PIPE LENGTH(ft) :
TYPE OF TEST : Conventional WEIGHT PIPE ID : 2.75
TOTAL DEPTH(ft-kb) : 3910 DRILL COLLAR LENGTH(ft) :
MAIN HOLE SIZE(in) : 7 7/8 DRILL COLLAR I.D. (in) : 2.259
MUD WEIGHT : 9.2 TOP PACKER DEPTH(kb) : 3865
MUD VISCOSITY : 47 BOTTOM PACKER DEPTH(kb) : 3870
MUD CHLORIDES : 3000 DUAL PACKERS :
SURFACE CHOKE : 3/4 PACKER SIZE(in) : 6 3/4
BOTTOM CHOKE(in) : 3/4 PACKER HOLD : Yes
TOOL SIZE(O.D.) : 5 1/2 TOOL PLUG : No
TOOL JOINT SIZE(F.H.) : 4 1/2 REVERSED OUT : No
RESERVOIR TEMPERATURE(F) : 118 TEST TICKET NUMBER : 11924

EXTRA EQUIPMENT : -JARS -SAFETY JOINT

ELEMENT SERIAL NO. : 906
RANGE : 0 - 2875 CLOCK RANGE : 12 HOURS
CAL. EQU. : $720.06 * \text{Defl.} + 3.83$

SURFACE BLOW

1st Opening : VERY WEAK BLOW BUILT TO 1/2 INCH INTO THE WATER
2nd Opening : NO BLOW

RECOVERY

Recovered 5 feet of MUD WITH A FAIR SHOW OF OIL IN THE TOOL

REMARKS :

WITNESSED BY : DAN DEBOER

TOOL OPERATOR : GENE BUDIG

INTERPRETATION BY : SUPERIOR TESTERS ENTERPRISES INC.

SUPERIOR TESTERS ENTERPRISES INC.

SUBSURFACE PRESSURE MEASUREMENTS

COMPANY : NATIONAL PETROLEUM RES. WELL NAME : MCFADDEN #1
 DATE OF TEST : 5-21-1991 LOCATION : SW-NW-NW 25-9S-27W
 DEPTH : 3904.0 SERIAL NO. : 906

COMMENTS	TIME min	DEFL in	----- CALC	PRESSURE PSIG CORR	----- CORRECTED
TEST NO.:2					
Depth : 3904.0 ft-kb					
-1ST HYDROSTATIC	0.0	2.691	1941.50	.47	1941.98
-3:45 1ST FLOW	0.0	.070	54.24	-3.44	50.80
- 3:50	5.0	.052	41.28	-3.54	37.74
- 3:55	10.0	.046	36.96	-3.57	33.38
- 4:00	15.0	.046	36.96	-3.57	33.38
-4:00 END FLOW	0.0	.046	36.96	-3.57	33.38
- 4:05	5.0	1.102	797.33	2.38	799.71
- 4:10	10.0	1.316	951.43	3.58	955.01
-4:10 1ST SHUT-IN	0.0	1.316	951.43	3.58	955.01
-2ND HYDROSTATIC	0.0	2.653	1914.14	.62	1914.76