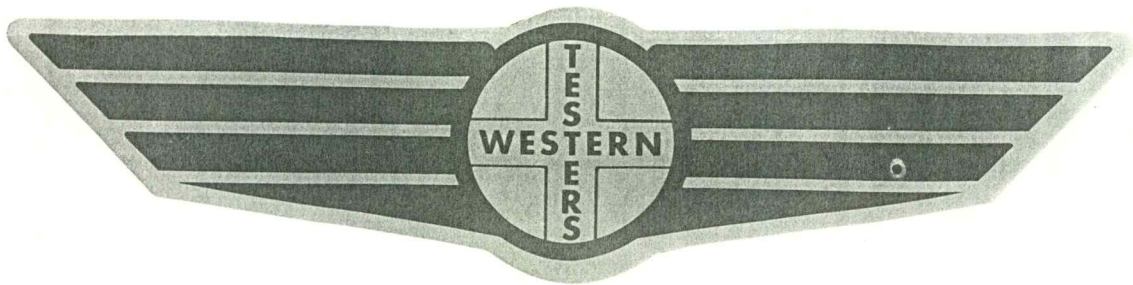


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 7/10/94
CUSTOMER : NATIONAL PETROLEUM RES
WELL : #1 TEST: 2
ELEVATION: 2680 GL
SECTION : 27
RANGE : 29W COUNTY: MEADE
GAUGE SN#: 2605 RANGE : 4150

TICKET : 20297
LEASE : PHILLIPS
GEOLOGIST: BREDEHOFT
FORMATION: MISSISSIPPI (CHESTER)
TOWNSHIP : 32S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 5720.00 ft TO: 5850.00 ft TVD: 5850.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 5750.0 ft 5753.0 ft
TEMPERATURE: 141.0

DRILL COLLAR LENGTH:	540.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	5153.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	27.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	130.0 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:	5715.0 ft	SIZE:	6.630 in
PACKER DEPTH:	5720.0 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. : BEREDCO RIG 2
MUD TYPE : CHEMICAL
WEIGHT : 9.000 ppg
CHLORIDES : 4000 ppm
JARS-MAKE : WTC
DID WELL FLOW?: NO

VISCOSITY : 45.00 cp
WATER LOSS: 9.600 cc

SERIAL NUMBER: 408
REVERSED OUT?: NO

COMMENTS

Comment

WEAK BLOW - 1 INCH IN BUCKET ON BOTH FLOW PERIODS.
90 FT OF DRILL COLLAR IN ANCHOR.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
20.0	0.0	0.0	0.0	100.0	MUD
0.0	0.0	0.0	0.0	0.0	CHLORIDES 4300 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	50.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0940	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0940	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2856.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	73.00	73.00
INITIAL SHUT-IN	20.00		116.00
FINAL FLOW	20.00	95.00	95.00
FINAL SHUT-IN	20.00		158.00

FINAL HYDROSTATIC PRESSURE: 2687.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2854.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	82.00	82.00
INITIAL SHUT-IN	18.00		118.00
FINAL FLOW	20.00	118.00	103.00
FINAL SHUT-IN	18.00		141.00

FINAL HYDROSTATIC PRESSURE: 2708.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 7/10/94	TICKET : 20297
CUSTOMER : NATIONAL PETROLEUM RES	LEASE : PHILLIPS
WELL : #1	GEOLOGIST: BREDEHOFT
ELEVATION: 2680 GL	FORMATION: MISSISSIPPI (CHESTER)
SECTION : 27	TOWNSHIP : 32S
RANGE : 29W	STATE : KS
GAUGE SN#: 2605	CLOCK : 12
COUNTY: MEADE	
RANGE : 4150	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	82.00	82.00
5.00	82.00	0.00
10.00	82.00	0.00
15.00	82.00	0.00
20.00	82.00	0.00
25.00	82.00	0.00
30.00	82.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	82.00	82.00	0.00
6.00	82.00	0.00	0.00
9.00	82.00	0.00	0.00
12.00	92.00	10.00	0.00
15.00	105.00	13.00	0.00
18.00	118.00	13.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	118.00	118.00
5.00	116.00	-2.00
10.00	107.00	-9.00
15.00	105.00	-2.00
20.00	103.00	-2.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	103.00	103.00	0.00
6.00	103.00	0.00	0.00
9.00	113.00	10.00	0.00
12.00	121.00	8.00	0.00
15.00	132.00	11.00	0.00
18.00	141.00	9.00	0.00



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

WESTERN TESTING CO., INC. Last Test!
FORMATION TESTING TICKET N^o 20297

Elevation 2680 GL Formation Muss (Chester) Eff. Pay Ft.

District Hugoton Date 7-10-94 Customer Order No. -

COMPANY NAME National Petroleum Reserves Inc

ADDRESS 250 N Rock Rd Suite 340 Wichita Ks 67204

LEASE AND WELL NO. Phillips #1 COUNTY Meade STATE Ks Sec. 27 Twp. 32S Rge. 29W

Mail Invoice To Same Co. Name #1 Phillips Address No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 2 Interval Tested From 5720 ft. to 5850 ft. Total Depth 5850 ft.

Packer Depth 5715 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.

Packer Depth 5720 ft. Size 6 7/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 5750 ft. Recorder Number 2605 Cap. 4150

Bottom Recorder Depth (Outside) 5753 ft. Recorder Number 3849 Cap. 4200

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

Drilling Contractor BEREDCO #2 Drill Collar Length 540 I. D. 2.2 in.

Mud Type Chemical Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.0 Water Loss 9.6 cc. Drill Pipe Length 5153 I. D. 3.8 in.

Chlorides 4000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 108 Anchor Length 130 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 1/8 in. Tool Joint Size 4 1/2 x 1 1/2 in.

Blow: Weak blow 1" in bucket on 1st flow period

Weak blow 1" in bucket on 2nd flow period

Recovered 20 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Chlorides 4300 P.P.M. Sample Jars used 1 Remarks: 90' of drill collar in anchor

Time On Location 2:00 A.M. Time Pick Up Tool 3:00 A.M. Time Off Location 1:00 A.M.

Time Set Packer(s) 5:40 A.M. Time Started Off Bottom 7:10 A.M. Maximum Temperature 141 °

Initial Hydrostatic Pressure (A) 2856 P.S.I.

Initial Flow Period Minutes 30 (B) 73 P.S.I. to (C) 73 P.S.I.

Initial Closed In Period Minutes 20 (D) 116 P.S.I.

Final Flow Period Minutes 20 (E) 95 P.S.I. to (F) 95 P.S.I.

Final Closed In Period Minutes 20 (G) 158 P.S.I.

Final Hydrostatic Pressure (H) 2687 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 T.C. Bredehoft
Signature of Customer or his authorized representative

Western Representative WK Hagen Thank You!

FIELD INVOICE

Open Hole Test \$ 200 -
Misrun \$
Straddle Test \$
Jars \$ 125 -
Selective Zone \$
Safety Joint \$ 125 -
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 20297

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud <u>2854</u>	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	<u>20</u> Mins.	<u>18</u> Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	<u>20</u> Mins.	<u>20</u> Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	<u>20</u> Mins.	<u>18</u> Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud <u>2708</u>	P.S.I.			

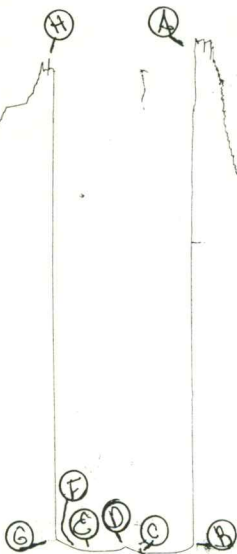
PRESSURE BREAKDOWN

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>82</u>	0	<u>82</u>	0	<u>118</u>	0	<u>103</u>
P 2 5	<u>82</u>	3	<u>82</u>	5	<u>116</u>	3	<u>103</u>
P 3 10	<u>82</u>	6	<u>82</u>	10	<u>107</u>	6	<u>103</u>
P 4 15	<u>82</u>	9	<u>82</u>	15	<u>105</u>	9	<u>113</u>
P 5 20	<u>82</u>	12	<u>92</u>	20	<u>103</u>	12	<u>121</u>
P 6 25	<u>82</u>	15	<u>100 105</u>	25		15	<u>132</u>
P 7 30	<u>82</u>	18	<u>118</u>	30		18	<u>141</u>
P 8 35		21		35		21	
P 9 40		24		40		24	
P10 45		27		45		27	
P11 50		30		50		30	
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

260
Dist #2
Top

TR+ 20297

I



30
Dist #
Bottom

JK4 20297

