

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

ORIGINAL

API NO. 15- 165-21,668-0000

County Rush

175' SW of C- SE NW Sec. 3 Twp. 16 Rge. 18 E W

3176' Feet from N (circle one) Line of Section

3424' Feet from E (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE. NW or SW (circle one)

Lease Name Herl Trust Well # 1

Field Name _____

Producing Formation Mississippi *KCC JH*

Elevation: Ground 1950 KB 1959

Total Depth 3650' PSTD _____

Amount of Surface Pipe Set and Cemented at 1114 Feet

Multiple Stage Cementing Collar Used? _____ Yes _____ No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan ALT 1 *JH 12-29-95*
(Data must be collected from the Reserve Pit)

Chloride content 77,000 ppm Fluid volume 1000 bbls

Dewatering method used evaporation

Location of fluid disposal if hauled offsite: _____

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 31389

Name: Noble Petroleum, Inc.

Address 3101 North Rock Road

Suite 125

City/State/Zip Wichita, KS 67226

Purchaser: None

Operator Contact Person: Jay Ablah

Phone (316) 636-2222

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: _____

Designate Type of Completion:

New Well _____ Re-Entry _____ Workover

_____ Oil _____ SWD _____ SIOW _____ Temp. Abd.

_____ Gas _____ ENHR SIGW

_____ Dry _____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

_____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD

_____ Plug Back _____ PSTD

_____ Commingled _____ Docket No. _____

_____ Dual Completion _____ Docket No. _____

_____ Other (SWD or Inj) _____ Docket No. _____

09-03-94 09-11-94 9-22-95 *KCC JH*

Spud Date _____ Date Reached TD _____ Completion Date _____

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-102 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [Signature]

Title President Date 03/21/95

Subscribed and sworn to before me this 21st day of March 19 1995

Notary Public [Signature]

Date Commission Expires _____

VIRGINIA L. ABLAH
NOTARY PUBLIC
STATE OF KANSAS
My Appt. Exp. 12-8-99

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	<input type="checkbox"/> SWD/Rep
<input type="checkbox"/>	KGS	<input type="checkbox"/> Plug
<input type="checkbox"/>		<input type="checkbox"/> NSPA
<input type="checkbox"/>		<input type="checkbox"/> Other
(Specify)		

SIDE TWO

Operator Name Noble Petroleum, Inc. Lease Name Herl Trust Well # 1

Sec. 3 Twp. 16 Rge. 18 East West
 County Rush

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken Yes No
 (Attach Additional Sheets.)

Samples Sent to Geological Survey Yes No

Cores Taken Yes No

Electric Log Run Yes No
 (Submit Copy.)

List All E.Logs Run:

DUAL IND
 COMP NEU.-DENS
 SONIC

Log Formation (Top), Depth and Datum Sample

Name	Top	Datum
ANHYDRITE	1100	+859
BASE ANHYDRITE	1140	+819
TOPEKA	2909	-950
Heebner	3178	-1219
Toronto	3197	-1238
Lansing	3227	-1268
Base KC	3455	-1496
PennSD	3506	-1547
Arbuckle	3534	-1575
Reagan	3595	-1636

CASING RECORD New Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs./Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12 1/4"	8-5/8"	24#	1114.83	60/40 poz	400	2% gel 3%cc
Production	7-7/8"	5 1/2"	14#	3649'	50/50 poz	150	18% salt

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<input type="checkbox"/> Perforate					
<input type="checkbox"/> Protect Casing					
<input type="checkbox"/> Plug Back TD					
<input type="checkbox"/> Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	
		Amount	Depth
Two (2)	3507'-3511'		3507-11

TUBING RECORD Size _____ Set At _____ Packer At _____ Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. None as yet Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

Disposition of Gas:

Vented Sold Used on Lease
 (If vented, submit ACO-18.)

METHOD OF COMPLETION

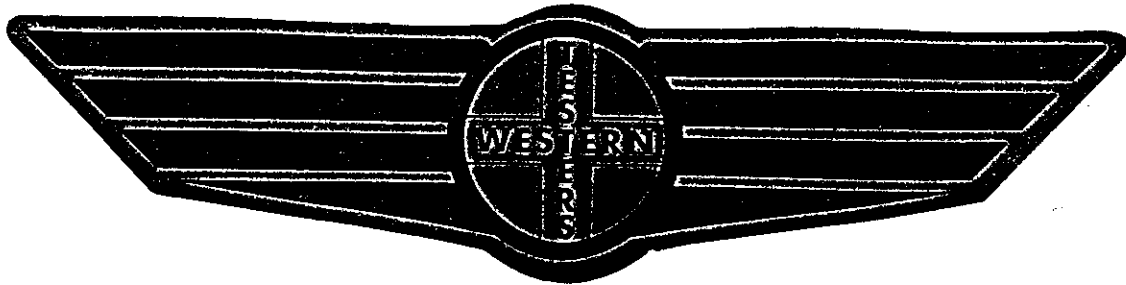
Open Hole Perf. Dually Comp. Commingled
 Other (Specify) _____

Production Interval

3507'-3511'

ORIGINAL

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 800-688-7021

COMPANY NOBLE PETROLEUM, INC. LEASE & WELL NO. #1 HERL TRUST SEC. 3 TWP. 16S RGE. 18W TEST NO. 1 DATE 9/7/94

DST REPORT

GENERAL INFORMATION

DATE : 9/7/94
CUSTOMER : NOBLE PETROLEUM, INC.
WELL : #1 TEST: 1
ELEVATION: 1950 GL
SECTION : 3
RANGE : 18W COUNTY: RUSH
GAUGE SN#: 10270 RANGE : 4150
TICKET : 20548
LEASE : HERL TRUST
GEOLOGIST: HONAS
FORMATION: TORONTO-LANSING
TOWNSHIP : 16S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3138.00 ft TO: 3260.00 ft TVD: 3260.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
DEPTH OF RECORDERS: 3252.0 ft 3255.0 ft
TEMPERATURE: 103.0
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3118.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 122.0 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: 3133.0 ft SIZE: 6.630 in
PACKER DEPTH: 3138.0 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. : DUKE DRLG RIG 4
MUD TYPE : CHEMICAL VISCOSITY : 54.00 cp
WEIGHT : 8.900 ppg WATER LOSS: 9.600 cc
CHLORIDES : 6000 ppm
JARS-MAKE :
DID WELL FLOW?: NO SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW BUILDING TO A STRONG
BLOW IN 8 MINUTES. FINAL FLOW PERIOD STRONG BLOW
THROUGHOUT.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	350 FT GAS ABOVE FLUID
70.0	0.0	10.0	0.0	90.0	GAS CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	55.0000 min.
GAS VOLUME:	0.5513 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.8837 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.8837 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1589.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	72.00	72.00
INITIAL SHUT-IN	30.00		894.00
FINAL FLOW	30.00	83.00	83.00
FINAL SHUT-IN	30.00		966.00

FINAL HYDROSTATIC PRESSURE: 1558.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1558.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	91.00	91.00
INITIAL SHUT-IN	27.00		900.00
FINAL FLOW	25.00	104.00	104.00
FINAL SHUT-IN	39.00		988.00

FINAL HYDROSTATIC PRESSURE: 1547.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/7/94	TICKET : 20548
CUSTOMER : NOBLE PETROLEUM, INC.	LEASE : HERL TRUST
WELL : #1 TEST: 1	GEOLOGIST: HONAS
ELEVATION: 1950 GL	FORMATION: TORONTO-LANSING
SECTION : 3	TOWNSHIP : 16S
RANGE : 18W COUNTY: RUSH	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	91.00	91.00
5.00	91.00	0.00
10.00	91.00	0.00
15.00	91.00	0.00
20.00	91.00	0.00
25.00	91.00	0.00
30.00	91.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	181.00	181.00	0.00
6.00	285.00	104.00	0.00
9.00	394.00	109.00	0.00
12.00	510.00	116.00	0.00
15.00	601.00	91.00	0.00
18.00	684.00	83.00	0.00
21.00	768.00	84.00	0.00
24.00	831.00	63.00	0.00
27.00	900.00	69.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	104.00	104.00
5.00	104.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

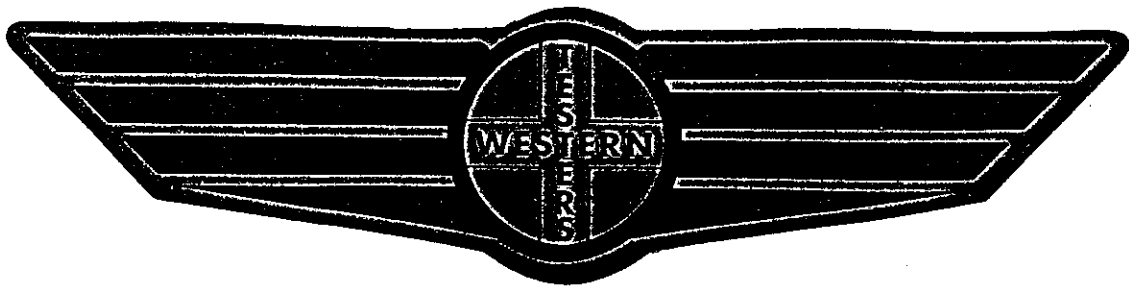
Time (min)	Pressure	Delta P
10.00	104.00	0.00
15.00	104.00	0.00
20.00	104.00	0.00
25.00	104.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	182.00	182.00	0.00
6.00	281.00	99.00	0.00
9.00	378.00	97.00	0.00
12.00	479.00	101.00	0.00
15.00	570.00	91.00	0.00
18.00	658.00	88.00	0.00
21.00	728.00	70.00	0.00
24.00	799.00	71.00	0.00
27.00	844.00	45.00	0.00
30.00	892.00	48.00	0.00
33.00	932.00	40.00	0.00
36.00	964.00	32.00	0.00
39.00	988.00	24.00	0.00

ORIGINAL

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY NOBLE PETROLEUM, INC. LEASE & WELL NO. #1 HERRL TRUST SFC. 3 TWP. 16S RGE. 18W TEST NO. 2 DATE 9/8/94

DST REPORT

GENERAL INFORMATION

DATE : 9/8/94
CUSTOMER : NOBLE PETROLEUM, INC.
WELL : #1 TEST: 2
ELEVATION: 1950 GL
SECTION : 3
RANGE : 18W COUNTY: RUSH
GAUGE SN#: 10270 RANGE : 4150
TICKET : 20549
LEASE : HERL TRUST
GEOLOGIST: HONAS
FORMATION: LANSING
TOWNSHIP : 16S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3259.00 ft TO: 3340.00 ft TVD: 3340.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3332.0 ft 3335.0 ft
TEMPERATURE: 102.0
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3239.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 81.0 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: 3254.0 ft SIZE: 6.630 in
PACKER DEPTH: 3259.0 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. : DUKE DRLG RIG 4
MUD TYPE : CHEMICAL
WEIGHT : 9.000 ppg
CHLORIDES : 6000 ppm
JARS-MAKE :
DID WELL FLOW?: NO
VISCOSITY : 50.00 cp
WATER LOSS: 9.600 cc
SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW THROUGHOUT -
1/4 INCH TO SURFACE BLOW. FINAL FLOW PERIOD VERY
WEAK BLOW THROUGHOUT - SURFACE BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
15.0	2.0	0.0	0.0	98.0	SLIGHTLY OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0042 STB	TOTAL FLOW TIME:	40.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	7.5742 STB/D
MUD VOLUME:	0.2062 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.2104 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1620.00

Description	Duration	p1	p End
INITIAL FLOW	20.00	72.00	72.00
INITIAL SHUT-IN	30.00		166.00
FINAL FLOW	20.00	72.00	72.00
FINAL SHUT-IN	30.00		104.00

FINAL HYDROSTATIC PRESSURE: 1620.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1629.00

Description	Duration	p1	p End
INITIAL FLOW	20.00	96.00	75.00
INITIAL SHUT-IN	33.00		169.00
FINAL FLOW	20.00	77.00	77.00
FINAL SHUT-IN	30.00		118.00

FINAL HYDROSTATIC PRESSURE: 1629.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/8/94	TICKET : 20549
CUSTOMER : NOBLE PETROLEUM, INC.	LEASE : HERL TRUST
WELL : #1	TEST: 2
ELEVATION: 1950 GL	GEOLOGIST: HONAS
SECTION : 3	FORMATION: LANSING
RANGE : 18W	TOWNSHIP : 16S
COUNTY: RUSH	STATE : KS
RANGE : 4150	CLOCK : 12
GAUGE SN#: 10270	

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	96.00	96.00
5.00	81.00	-15.00
10.00	75.00	-6.00
15.00	75.00	0.00
20.00	75.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	77.00	77.00	7.67
6.00	78.00	1.00	4.33
9.00	79.00	1.00	3.22
12.00	80.00	1.00	2.67
15.00	82.00	2.00	2.33
18.00	89.00	7.00	2.11
21.00	98.00	9.00	1.95
24.00	109.00	11.00	1.83
27.00	122.00	13.00	1.74
30.00	143.00	21.00	1.67
33.00	169.00	26.00	1.61

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	77.00	77.00
5.00	77.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

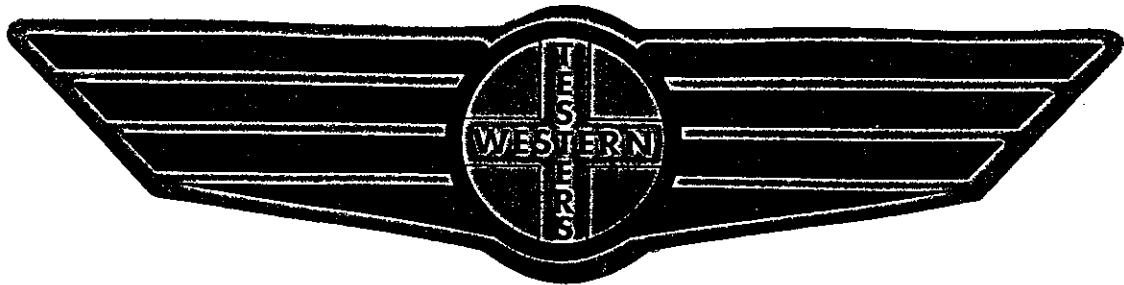
Time (min)	Pressure	Delta P
10.00	77.00	0.00
15.00	77.00	0.00
20.00	77.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	78.00	78.00	7.67
6.00	79.00	1.00	4.33
9.00	80.00	1.00	3.22
12.00	82.00	2.00	2.67
15.00	84.00	2.00	2.33
18.00	89.00	5.00	2.11
21.00	93.00	4.00	1.95
24.00	99.00	6.00	1.83
27.00	106.00	7.00	1.74
30.00	118.00	12.00	1.67

ORIGINAL

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY NOBLE PETROLEUM, INC. LEASE & WELL NO. HERL TRUST #1 SEC. 3 TWP. 16SRGE. 18W TEST NO. 3 DATE 9/9/94

DST REPORT

GENERAL INFORMATION

DATE : 9/9/94
CUSTOMER : NOBLE PETROLEUM, INC.
WELL : #1 TEST: 3
ELEVATION: 1950 GL
SECTION : 3
RANGE : 18W COUNTY: RUSH
GAUGE SN#: 10270 RANGE : 4150
TICKET : 20550
LEASE : HERL TRUST
GEOLOGIST: HONAS
FORMATION: CONGLOMERATE
TOWNSHIP : 16S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3453.00 ft TO: 3509.00 ft TVD: 3509.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
DEPTH OF RECORDERS: 3501.0 ft 3504.0 ft
TEMPERATURE: 107.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3428.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	25.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	56.0 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:	3448.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3453.0 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. : DUKE DRLG RIG 4
MUD TYPE : CHEMICAL
WEIGHT : 8.800 ppg
CHLORIDES : 6000 ppm
JARS-MAKE : WTC
DID WELL FLOW?: YES
VISCOSITY : 50.00 cp
WATER LOSS: 9.200 cc
SERIAL NUMBER: 422
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - GAS TO SURFACE
IN 2 MINUTES.
FINAL FLOW PERIOD GAS TO SURFACE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
70.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	25.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.9818 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.9818 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1807.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	1070.00	1070.00
INITIAL SHUT-IN	45.00		1184.00
FINAL FLOW	15.00	1112.00	1101.00
FINAL SHUT-IN	45.00		1174.00

FINAL HYDROSTATIC PRESSURE: 1724.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1821.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	1073.00	1066.00
INITIAL SHUT-IN	45.00		1188.00
FINAL FLOW	10.00	1130.00	1108.00
FINAL SHUT-IN	48.00		1185.00

FINAL HYDROSTATIC PRESSURE: 1752.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 9/9/94	TICKET : 20550
CUSTOMER : NOBLE PETROLEUM, INC.	LEASE : HERL TRUST
WELL : #1 TEST: 3	GEOLOGIST: HONAS
ELEVATION: 1950 GL	FORMATION: CONGLOMERATE
SECTION : 3	TOWNSHIP : 16S
RANGE : 18W COUNTY: RUSH	STATE : KS
GAUGE SN#: 10270 RANGE : 4150	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
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SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
3 MIN	MERLA	1.500	35 PSIG	2858000 SCF/D
8 MIN	MERLA	1.500	55 PSIG	4051000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 9/9/94	TICKET	: 20550
CUSTOMER	: NOBLE PETROLEUM, INC.	LEASE	: HERL TRUST
WELL	: #1	TEST:	3
ELEVATION:	1950 GL	GEOLOGIST:	HONAS
SECTION	: 3	FORMATION:	CONGLOMERATE
RANGE	: 18W	COUNTY:	RUSH
GAUGE SN#:	10270	RANGE:	4150
		STATE	: KS
		CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	1073.00	1073.00
5.00	1062.00	-11.00
10.00	1066.00	4.00
15.00	1066.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1166.00	1166.00	6.00
6.00	1177.00	11.00	3.50
9.00	1184.00	7.00	2.67
12.00	1185.00	1.00	2.25
15.00	1186.00	1.00	2.00
18.00	1186.00	0.00	1.83
21.00	1186.00	0.00	1.71
24.00	1186.00	0.00	1.63
27.00	1186.00	0.00	1.56
30.00	1186.00	0.00	1.50
33.00	1187.00	1.00	1.45
36.00	1187.00	0.00	1.42
39.00	1188.00	1.00	1.38
42.00	1188.00	0.00	1.36
45.00	1188.00	0.00	1.33

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	1130.00	1130.00
5.00	1111.00	-19.00
10.00	1108.00	-3.00

FINAL SHUT IN

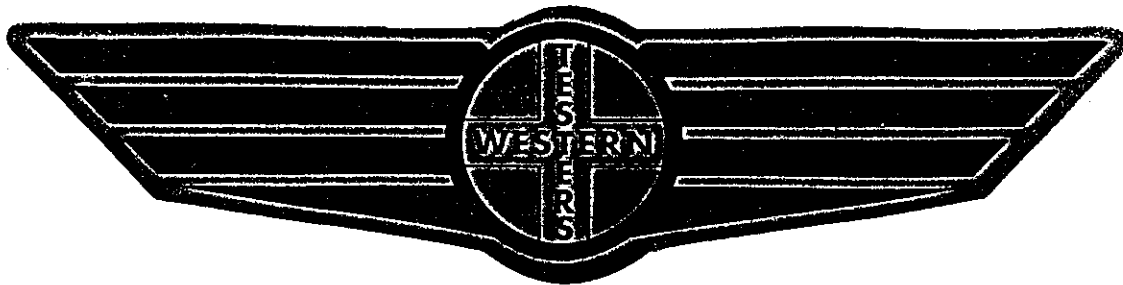
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1165.00	1165.00	4.33
6.00	1173.00	8.00	2.67
9.00	1178.00	5.00	2.11
12.00	1182.00	4.00	1.83
15.00	1182.00	0.00	1.67
18.00	1183.00	1.00	1.56
21.00	1183.00	0.00	1.48
24.00	1184.00	1.00	1.42
27.00	1184.00	0.00	1.37
30.00	1184.00	0.00	1.33
33.00	1185.00	1.00	1.30
36.00	1185.00	0.00	1.28
39.00	1185.00	0.00	1.26
42.00	1185.00	0.00	1.24
45.00	1185.00	0.00	1.22
48.00	1185.00	0.00	1.21

FORMATION

ORIGINAL

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone : 1-800-688-7071

COMPANY NOBLE PETROLEUM, INC. LEASE & WELL NO. #1 HERL TRUST SEC. 3 TWP. 16S RGE. 18W TEST NO. 4 DATE 9/9/94

DST REPORT

GENERAL INFORMATION

DATE : 9/9/94
CUSTOMER : NOBLE PETROLEUM, INC.
WELL : #1 TEST: 4
ELEVATION: 1950 GL
SECTION : 3
RANGE : 18W COUNTY: RUSH
GAUGE SN#: 13550 RANGE : 4175
TICKET : 20926
LEASE : HERL TRUST
GEOLOGIST: HONAS
FORMATION: CONGLOMERATE
TOWNSHIP : 16S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3453.00 ft TO: 3517.00 ft TVD: 3517.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
DEPTH OF RECORDERS: 3509.0 ft 3512.0 ft
TEMPERATURE: 106.0
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3428.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 25.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 64.0 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: 3448.0 ft SIZE: 6.630 in
PACKER DEPTH: 3453.0 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. : DUKE DRLG RIG 4
MUD TYPE : CHEMICAL VISCOSITY : 47.00 cp
WEIGHT : 9.100 ppg WATER LOSS: 10.500 cc
CHLORIDES : 4500 ppm
JARS-MAKE : WTC SERIAL NUMBER: 422
DID WELL FLOW?: YES REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - GAS TO SURFACE
IN 1 MINUTE-30 SECONDS. FINAL FLOW PERIOD GAS TO
SURFACE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
50.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	30.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.7013 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.7013 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1706.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	1092.00	1092.00
INITIAL SHUT-IN	30.00		1186.00
FINAL FLOW	15.00	1165.00	1144.00
FINAL SHUT-IN	30.00		1175.00

FINAL HYDROSTATIC PRESSURE: 1686.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1713.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	1100.00	1100.00
INITIAL SHUT-IN	30.00		1182.00
FINAL FLOW	15.00	1168.00	1165.00
FINAL SHUT-IN	30.00		1183.00

FINAL HYDROSTATIC PRESSURE: 1686.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 9/9/94	TICKET : 20926
CUSTOMER : NOBLE PETROLEUM, INC.	LEASE : HERL TRUST
WELL : #1 TEST: 4	GEOLOGIST: HONAS
ELEVATION: 1950 GL	FORMATION: CONGLOMERATE
SECTION : 3	TOWNSHIP : 16S
RANGE : 18W COUNTY: RUSH	STATE : KS
GAUGE SN#: 13550 RANGE : 4175	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN	MERLA	1.500	35 PSIG	2858000 SCF/D
10 MIN	MERLA	1.500	60 PSIG	4349000 SCF/D
15 MIN	MERLA	1.500	65 PSIG	4647000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN	MERLA	1.500	58 PSIG	4230000 SCF/D
10 MIN	MERLA	1.500	65 PSIG	4647000 SCF/D
15 MIN	MERLA	1.500	70 PSIG	4946000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/9/94	TICKET : 20926
CUSTOMER : NOBLE PETROLEUM, INC.	LEASE : HERL TRUST
WELL : #1 TEST: 4	GEOLOGIST: HONAS
ELEVATION: 1950 GL	FORMATION: CONGLOMERATE
SECTION : 3	TOWNSHIP : 15S
RANGE : 18W COUNTY: RUSH	STATE : KS
GAUGE SN#: 13550 RANGE : 4175	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	1100.00	1100.00
5.00	1100.00	0.00
10.00	1100.00	0.00
15.00	1100.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1146.00	1146.00	6.00
6.00	1162.00	16.00	3.50
9.00	1171.00	9.00	2.67
12.00	1174.00	3.00	2.25
15.00	1179.00	5.00	2.00
18.00	1181.00	2.00	1.83
21.00	1182.00	1.00	1.71
24.00	1182.00	0.00	1.63
27.00	1182.00	0.00	1.56
30.00	1182.00	0.00	1.50

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	1168.00	1168.00
5.00	1167.00	-1.00
10.00	1162.00	-5.00
15.00	1165.00	3.00

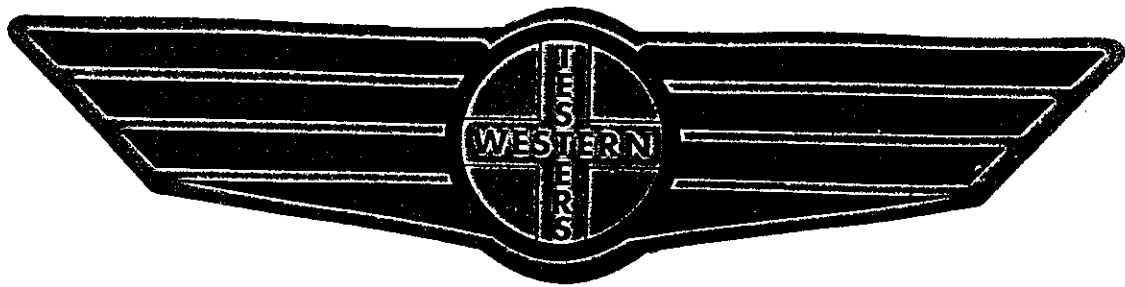
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1174.00	1174.00	6.00
6.00	1176.00	2.00	3.50
9.00	1178.00	2.00	2.67
12.00	1180.00	2.00	2.25
15.00	1182.00	2.00	2.00
18.00	1182.00	0.00	1.83
21.00	1183.00	1.00	1.71
24.00	1183.00	0.00	1.63
27.00	1183.00	0.00	1.56
30.00	1183.00	0.00	1.50

ORIGINAL

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY NOBLE PETROLEUM, INC. (EAST & WEST) NO. #1 HERL TRUST SFC. 3 TWP. 16SRGE. 18W TEST NO. 5 DATE 9/9/94

DST REPORT

GENERAL INFORMATION

DATE : 9/9/94
CUSTOMER : NOBLE PETROLEUM, INC.
WELL : #1 TEST: 5
ELEVATION: 1950 GL
SECTION : 3
RANGE : 18W COUNTY: RUSH
GAUGE SN#: 10270 RANGE : 4150
TICKET : 20927
LEASE : HERL TRUST
GEOLOGIST: HONAS
FORMATION: CONGLOMERATE
TOWNSHIP : 16S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3520.00 ft TO: 3531.00 ft TVD: 3531.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3523.0 ft 3526.0 ft
TEMPERATURE: 108.0
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3495.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 25.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 11.0 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: 3515.0 ft SIZE: 6.630 in
PACKER DEPTH: 3520.0 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. : DUKE DRLG RIG 4
MUD TYPE : CHEMICAL VISCOSITY : 47.00 cp
WEIGHT : 9.100 ppg WATER LOSS: 10.500 cc
CHLORIDES : 4500 ppm
JARS-MAKE : WTC SERIAL NUMBER: 422
DID WELL FLOW?: YES REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A STRONG BLOW
IN 10 MINUTES. FINAL FLOW PERIOD STRONG BLOW
THROUGHOUT.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

GAS TO SURFACE 5 MINUTES INTO FINAL SHUT-IN

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
40.0	10.0	10.0	48.0	32.0	OIL & GAS CUT MUDDY WATER
240.0	3.0	0.0	97.0	0.0	SLIGHTLY OIL CUT WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 28000 PPM

RATE INFORMATION

OIL VOLUME:	0.1571 STB	TOTAL FLOW TIME:	75.0000 min.
GAS VOLUME:	0.3150 SCF	AVERAGE OIL RATE:	3.6106 STB/D
MUD VOLUME:	0.1795 STB	AVERAGE WATER RATE:	70.7179 STB/D
WATER VOLUME:	3.5346 STB		
TOTAL FLUID :	3.8713 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1744.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	42.00	72.00
INITIAL SHUT-IN	45.00		1174.00
FINAL FLOW	45.00	93.00	135.00
FINAL SHUT-IN	45.00		1174.00

FINAL HYDROSTATIC PRESSURE: 1713.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1809.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	62.00	80.00
INITIAL SHUT-IN	45.00		1173.00
FINAL FLOW	45.00	116.00	142.00
FINAL SHUT-IN	48.00		1182.00

FINAL HYDROSTATIC PRESSURE: 1722.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 9/9/94	TICKET	: 20927
CUSTOMER	: NOBLE PETROLEUM, INC.	LEASE	: HERL TRUST
WELL	: #1	TEST:	5
ELEVATION:	1950 GL	GEOLOGIST:	HONAS
SECTION	: 3	FORMATION:	CONGLOMERATE
RANGE	: 18W	COUNTY:	RUSH
Gauge SN#:	10270	RANGE:	4150
		STATE	: KS
		CLOCK	: 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	62.00	62.00
5.00	62.00	0.00
10.00	63.00	1.00
15.00	65.00	2.00
20.00	70.00	5.00
25.00	76.00	6.00
30.00	80.00	4.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	565.00	565.00	11.00
6.00	740.00	175.00	6.00
9.00	831.00	91.00	4.33
12.00	892.00	61.00	3.50
15.00	941.00	49.00	3.00
18.00	989.00	48.00	2.67
21.00	1037.00	48.00	2.43
24.00	1076.00	39.00	2.25
27.00	1107.00	31.00	2.11
30.00	1131.00	24.00	2.00
33.00	1145.00	14.00	1.91
36.00	1157.00	12.00	1.83
39.00	1164.00	7.00	1.77
42.00	1169.00	5.00	1.71
45.00	1173.00	4.00	1.67

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

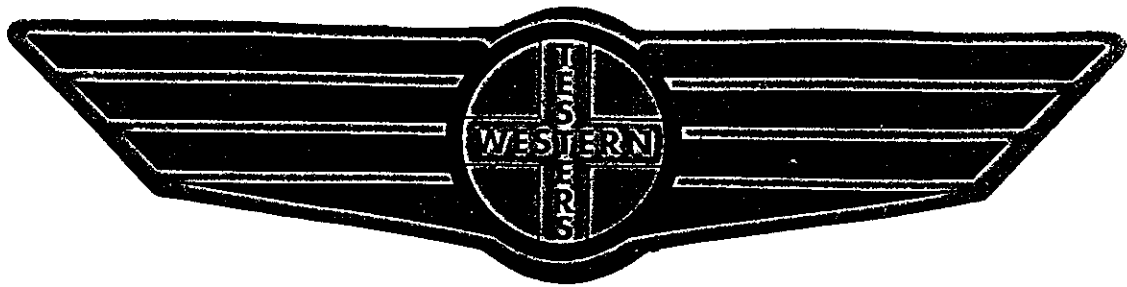
Time (min)	Pressure	Delta P
0.00	116.00	116.00
5.00	116.00	0.00
10.00	118.00	2.00
15.00	123.00	5.00
20.00	126.00	3.00
25.00	129.00	3.00
30.00	132.00	3.00
35.00	135.00	3.00
40.00	138.00	3.00
45.00	142.00	4.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	553.00	553.00	16.00
6.00	676.00	123.00	8.50
9.00	766.00	90.00	6.00
12.00	842.00	76.00	4.75
15.00	918.00	76.00	4.00
18.00	988.00	70.00	3.50
21.00	1041.00	53.00	3.14
24.00	1082.00	41.00	2.88
27.00	1114.00	32.00	2.67
30.00	1138.00	24.00	2.50
33.00	1155.00	17.00	2.36
36.00	1163.00	8.00	2.25
39.00	1169.00	6.00	2.15
42.00	1173.00	4.00	2.07
45.00	1177.00	4.00	2.00
48.00	1182.00	5.00	1.94

ORIGINAL

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7071

COMPANY NOBLE PETROLEUM, INC. LEASE & WELL NO. #1 HERL TRUST SEC. 3 TWP. 16S RGE. 18W TEST NO. 6 DATE 9/10/94

DST REPORT

GENERAL INFORMATION

DATE : 9/10/94
CUSTOMER : NOBLE PETROLEUM, INC.
WELL : #1 TEST: 6
ELEVATION: 1950 GL
SECTION : 3
RANGE : 18W COUNTY: RUSH
GAUGE SN#: 10270 RANGE : 4150
TICKET : 20928
LEASE : HERL TRUST
GEOLOGIST: HONAS
FORMATION: ARBUCKLE
TOWNSHIP : 16S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3535.00 ft TO: 3545.00 ft TVD: 3545.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3539.0 ft 3542.0 ft
TEMPERATURE: 108.0
DRILL COLLAR LENGTH: 0.0 ft I.D.: 0.000 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3510.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 25.0 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: 3530.0 ft SIZE: 6.630 in
PACKER DEPTH: 3535.0 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. : DUKE DRLG RIG 4
MUD TYPE : CHEMICAL VISCOSITY : 50.00 cp
WEIGHT : 8.800 ppg WATER LOSS: 9.200 cc
CHLORIDES : 4500 ppm
JARS-MAKE : WTC SERIAL NUMBER: 422
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BUILDING TO A GOOD BLOW -
1/2 TO 8 INCH BLOW. FINAL FLOW PERIOD WEAK
BUILDING TO A FAIR BLOW - 1/2 TO 5 1/2 INCH BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	150 FT GAS ABOVE FLUID
30.0	0.0	0.0	60.0	40.0	MUDDY WATER
180.0	0.0	0.0	100.0	0.0	WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 27000 PPM

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	80.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.1683	STB	AVERAGE WATER RATE:	53.0196	STB/D
WATER VOLUME:	2.7772	STB			
TOTAL FLUID :	2.9455	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1744.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	41.00	52.00
INITIAL SHUT-IN	45.00		1153.00
FINAL FLOW	45.00	93.00	114.00
FINAL SHUT-IN	45.00		1143.00

FINAL HYDROSTATIC PRESSURE: 1734.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1742.00

Description	Duration	p1	p End
INITIAL FLOW	35.00	44.00	57.00
INITIAL SHUT-IN	45.00		1151.00
FINAL FLOW	45.00	93.00	113.00
FINAL SHUT-IN	45.00		1143.00

FINAL HYDROSTATIC PRESSURE: 1740.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/10/94	TICKET : 20928
CUSTOMER : NOBLE PETROLEUM, INC.	LEASE : HERL TRUST
WELL : #1	GEOLOGIST: HONAS
ELEVATION: 1950 GL	FORMATION: ARBUCKLE
SECTION : 3	TOWNSHIP : 16S
RANGE : 18W	STATE : KS
GAUGE SN#: 10270	CLOCK : 12
COUNTY: RUSH	
RANGE : 4150	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	44.00	44.00
5.00	44.00	0.00
10.00	44.00	0.00
15.00	44.00	0.00
20.00	47.00	3.00
25.00	50.00	3.00
30.00	53.00	3.00
35.00	57.00	4.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	446.00	446.00	0.00
6.00	736.00	290.00	0.00
9.00	909.00	173.00	0.00
12.00	990.00	81.00	0.00
15.00	1034.00	44.00	0.00
18.00	1060.00	26.00	0.00
21.00	1079.00	19.00	0.00
24.00	1097.00	18.00	0.00
27.00	1109.00	12.00	0.00
30.00	1118.00	9.00	0.00
33.00	1128.00	10.00	0.00
36.00	1134.00	6.00	0.00
39.00	1141.00	7.00	0.00
42.00	1147.00	6.00	0.00
45.00	1151.00	4.00	0.00

ORIGINAL

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	93.00	93.00
5.00	93.00	0.00
10.00	93.00	0.00
15.00	94.00	1.00
20.00	96.00	2.00
25.00	98.00	2.00
30.00	100.00	2.00
35.00	103.00	3.00
40.00	108.00	5.00
45.00	113.00	5.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	472.00	472.00	0.00
6.00	762.00	290.00	0.00
9.00	888.00	126.00	0.00
12.00	977.00	89.00	0.00
15.00	1017.00	40.00	0.00
18.00	1050.00	33.00	0.00
21.00	1071.00	21.00	0.00
24.00	1086.00	15.00	0.00
27.00	1099.00	13.00	0.00
30.00	1108.00	9.00	0.00
33.00	1116.00	8.00	0.00
36.00	1124.00	8.00	0.00
39.00	1131.00	7.00	0.00
42.00	1137.00	6.00	0.00
45.00	1143.00	6.00	0.00

ORIGINAL

Phone 913-483-2627, Russell, KS
Phone 316-793-5861, Great Bend, KS

Phone 913-625-5516, Hays, KS
Phone 913-672-3471, Oakley, KS

Phone 316-886-5926, Medicine Lodge, KS
Phone 913-798-3843, Ness City, KS

NEW

ALLIED CEMENTING CO., INC. 0008343

Home Office P. O. Box 31

Russell, Kansas 67665

Date	9-3-94	Sec.	3	Twp.	16	Range	18	Called Out		On Location	9:30 AM	Job Start	10:00 AM	Finish	11:00 AM
Lease	Herl Trust	Well No.	1	Location	3N 1 1/2 E Lulenthall			County	Russ	State	KS				
Contractor	Duke Drly Rig 4				Owner Noble Pet Inc										
Type Job	To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cement and helper to assist owner or contractor to do work as listed.														
Hole Size	8 1/4	T.D.	1115												
Csg.	8 3/8	Depth	1114												
Tbg. Size		Depth													
Drill Pipe		Depth													
Tool		Depth													
Cement Left in Csg.	15'	Shoe Joint													
Press Max.		Minimum													
Meas Line		Displace													
Perf.															

Charge To Noble Pet Inc
Street 3101 N Rock Rd Suite 125
City Wichita State KS 67226
The above was done to satisfaction and supervision of owner agent or contractor.

Purchase Order No. X Rich Wheeler

CEMENT

Amount Ordered 400 sks 60/40 370cc 29 Gel
Consisting of
Common
Poz. Mix
Gel.
Chloride
Quickset

Handling
Milcage
Sales Tax
Sub Total
Total

EQUIPMENT

Pumptrk	No. 177	Cementer	Dean
		Helper	Will
Pumptrk	No.	Cementer	
		Helper	
Bulktrk	1892	Driver	Steve
		Driver	Jason

DEPTH of Job

Reference:	Pump Trk chng	
	2 1/2 per mile	
	8 3/8 Rubber Plug	
		Sub Total
		Tax
		Total

Remarks: Ran 28 Joints 8 3/8 csg cemented w/ 400 sks 60/40 370cc 29 Gel cement did circulate

Thank You

Phone 913-483-2627, Russell, KS
 Phone 316-793-5861, Great Bend, KS

Phone 913-625-5516, Hays, KS
 Phone 913-672-3471, Oakley, KS

Phone 316-886-5926, Medicine Lodge, KS
 Phone 913-798-3843, Ness City, KS

new

ALLIED CEMENTING CO., INC. 0008343

Home Office P. O. Box 31

Russell, Kansas 67665

Date	9-3-94	Sec.	3	Twp.	16	Range	18	Called Out		On Location	9:30 AM	Job Start	10:00 AM	Finish	11:00 AM
Lease	Herl Trust	Well No.	1	Location	3N 1 1/2 E Rubintal			County	Russ	State	KS				
Contractor	Duke Drig Rig 4														
Type Job															
Hole Size	9 1/4		T.D.	1115											
Csg.	8 7/8		Depth	1114											
Tbg. Size			Depth												
Drill Pipe			Depth												
Tool			Depth												
Cement Left in Csg.	15'		Shoe Joint												
Press Max.			Minimum												
Meas Line			Displace												
Perf.															

Owner	Noble Pet INC															
To Allied Cementing Co., Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.																
Charge To	Noble Pet INC															
Street	3101 N Rock Rd Suite 125															
City	Wichita										State	KS 67226				
The above was done to satisfaction and supervision of owner agent or contractor.																
Purchase Order No.	X Rich Wheeler ORIGINAL															
CEMENT																
Amount Ordered	400 sks 60/40 SPEC 290 Gel															
Consisting of																
Common																
Poz. Mix																
Gel.																
Chloride																
Quickset																
Sales Tax																
Handling																
Mileage																
															Sub Total	
															Total	
Floating Equipment																

EQUIPMENT

No.	Cementer	Dean
Pumptrk 177	Helper	Will
No.	Cementer	
Pumptrk	Helper	
	Driver	Steve
Bulktrk	Driver	Jason

DEPTH of Job

Reference:	Pump Trk chrg	
	2 2/3 per Mile	
	8 7/8 Rubber Plug	
	Sub Total	
	Tax	
	Total	

Remarks: Ran 28 Joints 8 7/8 csg cemented w/ 400 sks 60/40 SPEC 290 Gel cement did circ 67c

Thank You

STATE RECEIVED
 CORPORATION COMMISSION
 NOV 14 1995



CHARGE TO: Noble Petroleum Co
 ADDRESS: 3101 N Rock Road, Suite 125
 CITY, STATE, ZIP CODE: Wichita, KS 67226

TICKET No. 599476
 DATE: 9-11-94

FORM 1008 R-10
 SERVICE LOCATION: Hays, KS 25525
 WELL PRODUCTION: Rub
 LEASE: Du Ke
 COUNTY: Rub
 STATE: Ks
 CITY/OFFSHORE LOCATION: 3250 Loc 5, Shoshone, KS
 DATE: 9-11-94
 CARRIER: Same
 TIME TYPE: SERVICE SALES
 NITROGEN JOBS: YES NO
 CONTRACTOR: Du Ke
 NO. OF JOBS: #4
 WELLS DELIVERED TO: 3250 Loc 5, Shoshone, KS
 ORDER NO.:
 WELL TYPE: 01
 WELL CATEGORY: 01
 JOB PURPOSE: 035
 WELL IDENT NO.:
 WELL LOCATION: 3-16-18
 REFERRAL LOCATION:
 INVOICE INSTRUCTIONS:

ITEM NO.	DESCRIPTION	QTY	UNIT	PRICE	TOTAL	AMOUNT
000-17	MILEAGE	26.74	mi	AS	2.27	71
001-06	Stamp chg	1	ea	530.00	530.00	1570
030-018	402.15513	1	ea	16.00	16.00	65
018-317	32643	1	ea	100.00	100.00	1200
12A	825.205	1	ea	121.00	121.00	121
24A	815.19251	1	ea	110.00	110.00	110
27	815.19311	1	ea	55.00	55.00	55
40	807.93022	1	ea	264.00	264.00	264

ORIGINAL

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

CUSTOMER OR CUSTOMER'S AGENT SIGNATURE: X Gary Sharp
 DATE SIGNED: 9-11-94
 TIME SIGNED: 0705
 AM PM
 do not require WPC (Instrument Protection) Not offered

SUB SURFACE SAFETY VALVE WAS:
 FULLY RETURN CALLED RUN
 TYPE LOCK: _____ DEPTH: _____
 BEAN SIZE: _____ SPACERS: _____
 TYPE OF EQUALIZING GEAR: _____ CASING PRESSURE: _____
 TUBING SIZE: _____ TUBING PRESSURE: _____ WELL DEPTH: _____
 TUBE CONNECTION: _____ TYPE VALVE: _____

OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?
 WE UNDERSTOOD AND MET YOUR NEEDS?
 OUR SERVICE WAS PERFORMED WITHOUT DELAY?
 WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?
 ARE YOU SATISFIED WITH OUR SERVICE?
 YES NO
 CUSTOMER DID NOT WISH TO RESPOND

PAGE TOTAL: 3546
 FROM CONTINUATION PAGE(S): 2279
 SUB-TOTAL APPLICABLE TAXES WILL BE ADDED ON INVOICE: 5736

CUSTOMER OR CUSTOMER'S AGENT (PLEASE PRINT): Gary Sharp
 CUSTOMER OR CUSTOMER'S AGENT (SIGNATURE): X Gary Sharp
 HALLIBURTON OPERATIONS EMP # 59734
 HALLIBURTON OPERATIONS: [Signature]

DEC 29 '95 12:14PM HALLIBURTON SERVICES HAYS KS