



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

Nº 19007

Elevation 1810 KB Formation Ark buckle Eff. Pay 8 Ft.

District Garden City Date 3-30-93 Customer Order No. _____

COMPANY NAME George Mc Neish oil operations

ADDRESS Winfield KS, 67156 P.O. Box 734

LEASE AND WELL NO. Eatinger #1 COUNTY Barton STATE KS Sec. 29 Twp. 20 S Rge. 11 W

Mail Invoice To Same No. Copies Requested Reg

Co. Name "#1 EATINGER" Address " No. Copies Requested Reg

Mail Charts To _____ Address _____

Formation Test No. 3343 Interval Tested From 3340 ft. to 3358 ft. Total Depth 3358 ft.

Packer Depth 3343 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3340 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3349 ft. Recorder Number 1562 Cap. 3900

Bottom Recorder Depth (Outside) 3352 ft. Recorder Number 10242 Cap. 4100

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

Drilling Contractor Duke Drilling Drill Collar Length 118' I. D. 2 1/4 in.

Mud Type Chemical Viscosity 50 Weight Pipe Length 225' I. D. 2.7 in.

Weight 9.3 Water Loss 7.6 cc. Drill Pipe Length 2977' I. D. 3.8 in.

Chlorides 3,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Jars: Make _____ Serial Number _____ Anchor Length 18 ft. Size 5 1/2 OD in.

Did Well Flow? NO Reversed Out YES 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 XH in.

Blow: Bottom bucket 30 seconds I.F.P. strong blow

Bottom bucket 1 min I.F.P. strong blow

Recovered 2472 ft. of Clean gassy oil 42 gravity @ 60°F

Recovered 120' ft. of gassy oil cut mud 40% mud, 25% oil 35% gas

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used _____ Remarks: (Total Fluid 2592')

(Gas to surface 10 min in I.C.P.) **APR 02 1993**

(1,180 Cubic Feet Per Day Through 4 1/2" Choke Inches Water)

Time On Location 4:00 A.M. Time Pick Up Tool 5:00 A.M. Time Off Location _____ A.M.

Time Set Packer(s) 6:35 A.M. Time Started Off Bottom 9:35 A.M. Maximum Temperature 112°F

Initial Hydrostatic Pressure _____ (A) 1677 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 658 P.S.I. to (C) 797 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 916 P.S.I.

Final Flow Period _____ Minutes 45 (E) 876 P.S.I. to (F) 926 P.S.I.

Final Closed In Period _____ Minutes 60 (G) 956 P.S.I.

Final Hydrostatic Pressure _____ (H) 1648 P.S.I. 1562

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 of Customer or his authorized representative

Western Representative Brad Bartz Thank you.

FIELD INVOICE

Open Hole Test ☒ \$ 600
Misrun \$ _____
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer ☒ \$ _____
Circ. Sub. ☒ \$ 35
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
Telecopier \$ _____
TOTAL \$ 635-

Date 2-20-91
Recorder No. 1562

Recorder No. 1562 Capacity _____ Location _____, Ft.

Point	Pressure	Time Given	Time Computed
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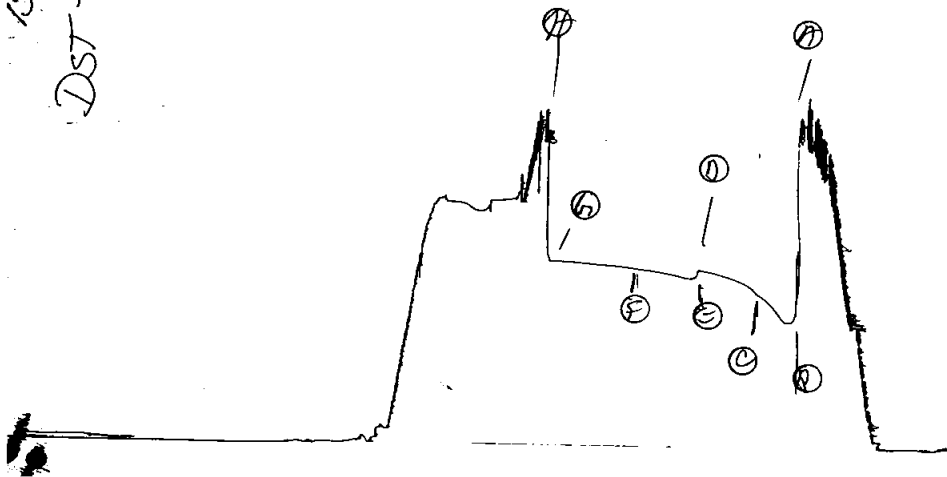
62 962

JK+ 19007 :

7

1562

DST #1

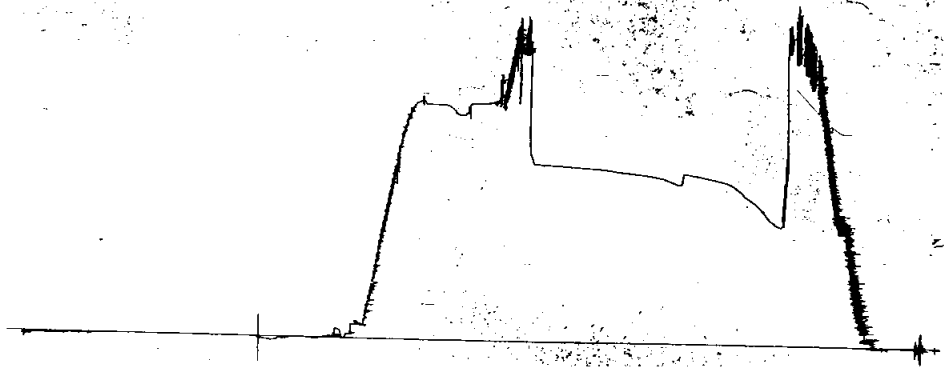


1K+ 19007

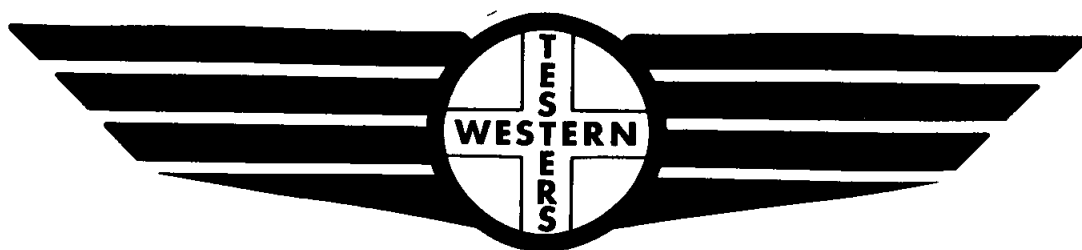
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DST#
1

10292



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone **1 - 800 - 688 - 7021**

DST REPORT

GENERAL INFORMATION

DATE : 3/30/93
CUSTOMER : MCNEISH OIL OPERATIONS
WELL : #1 TEST: 1
ELEVATION: 1810 KB
SECTION : 29
RANGE : 11W COUNTY: BARTON
GAUGE SN#: 1562 RANGE : 3900

TICKET : 19007
LEASE : EATINGER
GEOLOGIST: ?
FORMATION: ARBUCKLE
TOWNSHIP : 20S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3340.00 ft TO: 3358.00 ft TVD: 3358.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3349.0 ft 3352.0 ft
TEMPERATURE: 112.0

DRILL COLLAR LENGTH:	118.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	225.0 ft	I.D.:	2.700 in
DRILL PIPE LENGTH :	2977.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	18.0 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:	3335.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3340.0 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
MUD TYPE : CHEMICAL
WEIGHT : 9.300 ppg
CHLORIDES : 3000 ppm
JARS-MAKE :
DID WELL FLOW?: NO

VISCOSITY : 50.00 cp
WATER LOSS: 7.600 cc

SERIAL NUMBER:
REVERSED OUT?: YES

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 30 SECONDS. FINAL FLOW PERIOD STRONG BLOW -
BOTTOM OF BUCKET IN 1 MINUTE.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

GAS TO SURFACE IN 10 MINUTES ON INITIAL CLOSE-IN PERIOD. 1180 CFPD THROUGH 1/8" CHOKE-INCHES OF WATER.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2472.0	100.0	0.0	0.0	0.0	CLEAN GASSY OIL
0.0	0.0	0.0	0.0	0.0	42 GRAVITY @ 60 DEGREES F
120.0	25.0	35.0	0.0	40.0	GASSY OIL CUT MUD

RATE INFORMATION

OIL VOLUME: 33.2730 STB
 GAS VOLUME: 1.1682 SCF
 MUD VOLUME: 0.2378 STB
 WATER VOLUME: 0.0000 STB
 TOTAL FLUID : 33.5108 STB

TOTAL FLOW TIME: 75.0000 min.
 AVERAGE OIL RATE: 643.4064 STB/D
 AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1677.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	658.00	797.00
INITIAL SHUT-IN	45.00		916.00
FINAL FLOW	45.00	876.00	926.00
FINAL SHUT-IN	60.00		956.00

FINAL HYDROSTATIC PRESSURE: 1648.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1662.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	658.00	806.00
INITIAL SHUT-IN	42.00		923.00
FINAL FLOW	45.00	882.00	928.00
FINAL SHUT-IN	63.00		962.00

FINAL HYDROSTATIC PRESSURE: 1646.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 3/30/93	TICKET : 19007
CUSTOMER : MCNEISH OIL OPERATIONS	LEASE : EATINGER
WELL : #1	GEOLOGIST: ?
ELEVATION: 1810 KB	FORMATION: ARBUCKLE
SECTION : 29	TOWNSHIP : 20S
RANGE : 11W	STATE : KS
GAUGE SN#: 1562	CLOCK : 12
COUNTY: BARTON	
RANGE : 3900	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	658.00	658.00
5.00	658.00	0.00
10.00	675.00	17.00
15.00	714.00	39.00
20.00	756.00	42.00
25.00	787.00	31.00
30.00	806.00	19.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	831.00	831.00	0.00
6.00	844.00	13.00	0.00
9.00	855.00	11.00	0.00
12.00	867.00	12.00	0.00
15.00	874.00	7.00	0.00
18.00	883.00	9.00	0.00
21.00	888.00	5.00	0.00
24.00	895.00	7.00	0.00
27.00	900.00	5.00	0.00
30.00	906.00	6.00	0.00
33.00	910.00	4.00	0.00
36.00	917.00	7.00	0.00
39.00	920.00	3.00	0.00
42.00	923.00	3.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	882.00	882.00
5.00	882.00	0.00
10.00	887.00	5.00
15.00	895.00	8.00
20.00	902.00	7.00
25.00	908.00	6.00
30.00	914.00	6.00
35.00	919.00	5.00
40.00	923.00	4.00
45.00	928.00	5.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	930.00	930.00	0.00
6.00	933.00	3.00	0.00
9.00	936.00	3.00	0.00
12.00	938.00	2.00	0.00
15.00	940.00	2.00	0.00
18.00	942.00	2.00	0.00
21.00	944.00	2.00	0.00
24.00	945.00	1.00	0.00
27.00	946.00	1.00	0.00
30.00	947.00	1.00	0.00
33.00	948.00	1.00	0.00
36.00	949.00	1.00	0.00
39.00	951.00	2.00	0.00
42.00	953.00	2.00	0.00
45.00	955.00	2.00	0.00
48.00	957.00	2.00	0.00
51.00	958.00	1.00	0.00
54.00	959.00	1.00	0.00
57.00	960.00	1.00	0.00
60.00	961.00	1.00	0.00
63.00	962.00	1.00	0.00