WESTERN TESTING CO., INC.
FORMATION TESTING TICKET No. 20180

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

Elevation 1746 KB Formation Miss Eff. Pay Ft.

District PRATT Date 1-12-94 Customer Order No.

COMPANY NAME Mike McNaul

ADDRESS 720 North Main St Hutchinson, Kansas 67501

LEASE AND WELL NO. D.D. Dyche COUNTY Kingman STATE Kansas Sec. 14 Twp. 27S Rge. 7W

Mail Invoice To Emphasis Drilling Co. Name Address No. Copies Requested

Mail Charts To McNaul - #1-A D.D. Dyche Address No. Copies Requested

Formation Test No. 1 Interval Tested From 4006 ft. to 4051 ft. Total Depth 4051 ft.

Packer Depth 4001 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 4006 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 4009 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 4012 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor Emphasis Drilling Rig 5

Mud Type Chem Viscosity 53 Drill Collar Length 0 I. D. — in.

Weight 9.0 Water Loss 8.0 cc. Weight Pipe Length 348 I. D. 2.5 in.

Chlorides 7,000 P.P.M. Drill Pipe Length 3633 I. D. 3.8 in.

Jars: Make NO Serial Number — Test Tool Length 20 ft. Tool Size 5 1/2 OD in.

Did Well Flow? No Reversed Out No Anchor Length 45 ft. Size 5 1/2 OD in.

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: Very weak 3 inch blow to dead blow 10 minutes on initial flow
Weak 3" blow deflating to no blow in 8 min on final flow

Recovered — ft. of

Recovered 25 ft. of Mud

Recovered — ft. of

Recovered — ft. of

Recovered — ft. of

Chlorides — P.P.M. Sample Jars used — Remarks:

Time On Location 4:00 A.M. (P.M.) Time Pick Up Tool 5:30 A.M. (P.M.) Time Off Location 2:00 (A.M.) P.M.

Time Set Packer(s) 7:10 A.M. (P.M.) Time Started Off Bottom 11:40 A.M. (P.M.) Maximum Temperature 122 °F

Initial Hydrostatic Pressure		(A) 1974	P.S.I.		
Initial Flow Period	Minutes 30	(B) 86	P.S.I. to	(C) 86	P.S.I.
Initial Closed In Period	Minutes 60	(D) 931	P.S.I.		
Final Flow Period	Minutes 60	(E) 107	P.S.I. to	(F) 107	P.S.I.
Final Closed In Period	Minutes 120	(G) 1122	P.S.I.		
Final Hydrostatic Pressure		(H) 1952	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

Signature of Customer or his authorized representative

FIELD INVOICE

Open Hole Test	$
Misrun	$
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$

WESTERN TESTING CO., INC.
Pressure Data

Date 1-12-94 Test Ticket No. 20180

Recorder No. 1051 Capacity Location Ft.

Clock No. Elevation Well Temperature °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1971 P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	60 Mins.	60 Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	120 Mins.	123 Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	1942 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	84
P 2 5	
P 3 10	
P 4 15	
P 5 20	
P 6 25	
P 7 30	84
P 8 35	
P 9 40	
P10 45	
P11 50	
P12 55	
P13 60	
P14 65	
P15 70	
P16 75	
P17 80	
P18 85	
P19 90	
P20 95	
100	

Initial Shut-In
Breakdown: Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	84
3	84
6	84
9	85
12	86
15	92
18	108
21	141
24	191
27	267
30	339
33	410
36	485
39	533
42	618
45	682
48	743
51	804
54	848
57	884
60	904

Second Flow Pressure
Breakdown: Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	92
5	
10	
15	
20	
25	
30	
35	
40	
45	
50	
55	
60	92
65	
70	
75	
80	
85	
90	
95	
100	

Final Shut-In
Breakdown: Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	92
3	
6	92
9	97
12	102
15	118
18	135
21	161
24	196
27	237
30	269
33	307
36	356
39	401
42	444
45	491
48	522
51	589
54	627
57	668
60	713

WESTERN TESTING CO., INC.

· Pressure Data

Date 1-12-94 Test Ticket No. 20180

Recorder No. 1051 Capacity Location Ft.

Clock No. Elevation Well Temperature °F

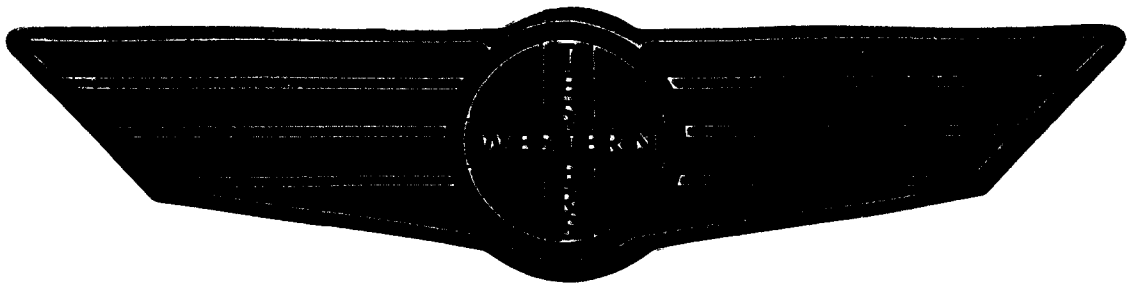
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
B First Initial Flow Pressure	P.S.I.	First Flow Pressure	30 Mins.	Mins.
C First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	60 Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	60 Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	120 Mins.	Mins.
F Second Final Flow Pressure	P.S.I.			
G Final Closed-in Pressure	P.S.I.			
H Final Hydrostatic Mud	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 mins. and a		of mins. and a		of mins. and a		of 3 mins. and a	
final inc. of Min.		final inc. of Min.		final inc. of Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105		63		105		63	751
P 2 110		66		110		66	775
P 3 115		69		115		69	806
P 4 120		72		120		72	837
P 5 125		75		125		75	868
P 6 130		78		130		78	892
P 7 135		81		135		81	913
P 8 140		84		140		84	940
P 9 145		87		145		87	958
P10 150		90		150		90	978
P11 155		93		155		93	992
P12 160		96		160		96	1008
P13 165		99		165		99	1023
P14 170		102		170		102	1036
P15 175		105		175		105	1046
P16 180		108		180		108	1059
P17 185		111		185		111	1070
P18 190		114		190		114	1080
P19 195		117		195		117	1091
P20 200		120		200		120	1098
						123	1106

COMPANY MIKE MCNAUL LEASE & WELL NO. #1-A D D DYCHE SEC. 14 TWP. 27S RGE. 10W TEST NO. 1 DATE 1-11-91

FORMATION TEST REPORT



Home Office: Wichita, Kansas 67201

P.O. Box 1599 Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 1/12/94	TICKET	: 20180
CUSTOMER	: MIKE MCNAUL	LEASE	: D D DYCHE
WELL	: #1-A TEST: 1	GEOLOGIST:	
ELEVATION:	1746 KB	FORMATION:	MISSISSIPPI
SECTION	: 14	TOWNSHIP	: 27S
RANGE	: 10W COUNTY: KINGMAN	STATE	: KS
GAUGE SN#:	1051 RANGE : 4250	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4006.00 ft TO: 4051.00 ft TVD: 4051.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4009.0 ft 4012.0 ft
TEMPERATURE: 122.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	348.0 ft	I.D.:	2.500 in
DRILL PIPE LENGTH :	3638.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	45.0 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:	4001.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4006.0 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.	: EMPHASIS DRLG RIG 5		
MUD TYPE	: CHEMICAL	VISCOSITY :	53.00 cp
WEIGHT	: 9.000 ppg	WATER LOSS:	8.000 cc
CHLORIDES	: 7000 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?:	NO	REVERSED OUT?:	NO

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK 3 INCH BLOW TO DEAD BLOW IN 10 MINUTES. FINAL FLOW PERIOD WEAK 3 INCH BLOW - DEPLEATING TO NO BLOW IN 8 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
75.0	0.0	0.0	0.0	100.0	MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	90.0000 min.
GAS VOLUME:	0.0000 SCF	AVERAGE OIL RATE:	0.0000 STB/D
MUD VOLUME:	0.4553 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.4553 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1974.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	86.00	86.00
INITIAL SHUT-IN	60.00		931.00
FINAL FLOW	60.00	107.00	107.00
FINAL SHUT-IN	120.00		1122.00

FINAL HYDROSTATIC PRESSURE: 1952.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1971.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	84.00	84.00
INITIAL SHUT-IN	60.00		904.00
FINAL FLOW	60.00	92.00	92.00
FINAL SHUT-IN	123.00		1106.00

FINAL HYDROSTATIC PRESSURE: 1942.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 1/12/94	TICKET	: 20180
CUSTOMER	: MIKE MCNAUL	LEASE	: D D DYCHE
WELL	: #1-A TEST: 1	GEOLOGIST:	
ELEVATION	: 1746 KB	FORMATION:	MISSISSIPPI
SECTION	: 14	TOWNSHIP	: 27S
RANGE	: 10W COUNTY: KINGMAN	STATE	: KS
GAUGE SN#	: 1051 RANGE : 4250	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	84.00	84.00
5.00	84.00	0.00
10.00	84.00	0.00
15.00	84.00	0.00
20.00	84.00	0.00
25.00	84.00	0.00
30.00	84.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	84.00	84.00	7.67
6.00	84.00	0.00	4.33
9.00	85.00	1.00	3.22
12.00	86.00	1.00	2.67
15.00	92.00	6.00	2.33
18.00	108.00	16.00	2.11
21.00	141.00	33.00	1.95
24.00	191.00	50.00	1.83
27.00	267.00	76.00	1.74
30.00	339.00	72.00	1.67
33.00	410.00	71.00	1.61
36.00	485.00	75.00	0.00
39.00	533.00	48.00	0.00
42.00	618.00	85.00	0.00
45.00	682.00	64.00	0.00
48.00	743.00	61.00	0.00
51.00	804.00	61.00	0.00
54.00	848.00	44.00	0.00
57.00	884.00	36.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
60.00	904.00	20.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	92.00	92.00
5.00	92.00	0.00
10.00	92.00	0.00
15.00	92.00	0.00
20.00	92.00	0.00
25.00	92.00	0.00
30.00	92.00	0.00
35.00	92.00	0.00
40.00	92.00	0.00
45.00	92.00	0.00
50.00	92.00	0.00
55.00	92.00	0.00
60.00	92.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	92.00	92.00	21.00
6.00	92.00	0.00	11.00
9.00	97.00	5.00	7.67
12.00	102.00	5.00	6.00
15.00	118.00	16.00	5.00
18.00	135.00	17.00	4.33
21.00	161.00	26.00	3.86
24.00	196.00	35.00	3.50
27.00	237.00	41.00	3.22
30.00	269.00	32.00	3.00
33.00	307.00	38.00	2.82
36.00	356.00	49.00	2.67
39.00	401.00	45.00	2.54
42.00	444.00	43.00	2.43
45.00	491.00	47.00	2.33
48.00	522.00	31.00	2.25

PRESSURE TRANSIENT REPORT (CONTINUED)

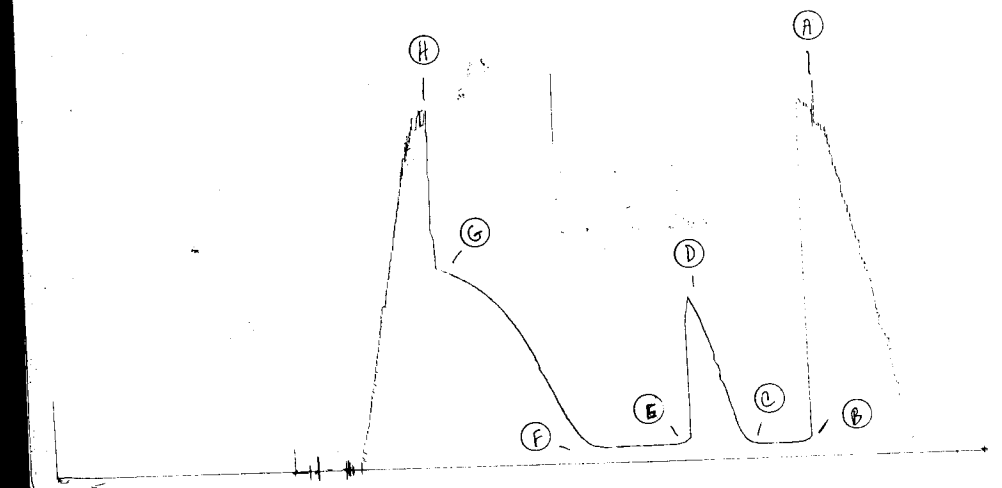
FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
51.00	589.00	67.00	2.18
54.00	627.00	38.00	2.11
57.00	667.00	40.00	2.05
60.00	713.00	46.00	2.00
63.00	751.00	38.00	1.95
66.00	775.00	24.00	1.91
69.00	806.00	31.00	1.87
72.00	837.00	31.00	1.83
75.00	868.00	31.00	1.80
78.00	892.00	24.00	1.77
81.00	913.00	21.00	1.74
84.00	940.00	27.00	1.71
87.00	958.00	18.00	1.69
90.00	978.00	20.00	1.67
93.00	992.00	14.00	1.65
96.00	1008.00	16.00	0.00
99.00	1023.00	15.00	0.00
102.00	1036.00	13.00	0.00
105.00	1046.00	10.00	0.00
108.00	1059.00	13.00	0.00
111.00	1070.00	11.00	0.00
114.00	1080.00	10.00	0.00
117.00	1091.00	11.00	0.00
120.00	1098.00	7.00	0.00
123.00	1106.00	8.00	0.00

1051 DST#1

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4332 DST #1 TKT 20180

