



WESTERN TESTING CO., INC.  
FORMATION TESTING

Called  
TICKET No 19315  
Final

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

Elevation 1856 KB Formation Miss Eff. Pay Ft.

Date 4-12-93 Date PRATT

Customer Order No.

COMPANY NAME Petroleum Management Inc

ADDRESS 14201 East Central Wichita Kansas 67230

LEASE AND WELL NO. Squier #2 COUNTY Butler STATE Kansas Sec. 9 Twp 28S Rge 8E

Mail Invoice To Same #2 Squier No. Copies Requested Reg

Co. Name Same Address No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 2687 ft. to 2711 ft. Total Depth 2711 ft.

Packer Depth 2684 ft. Size 6 5/8 in. Packer Depth 2 ft. Size - in.

Packer Depth 2689 ft. Size 6 7/8 in. Packer Depth 2 ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2702 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 2705 ft. Recorder Number 4331 Cap. 4200

Below Straddle Recorder Depth - Recorder Number - Cap. -

Drilling Contractor Summit Drilling Drill Collar Length 271 I. D. 2 1/4 in.

Mud Type Chem Viscosity 55 Weight Pipe Length 0 I. D. - in.

Weight 7.6 Water Loss 8.0 cc. Drill Pipe Length 2390 I. D. 2.5 in.

Chlorides 800 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 411 Anchor Length 22 ft. Size 5 1/2 OD in.

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

Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 X 4 in.

Blow: Very weak - steady (1/2 blow) on initial flow

Very weak 1/4 blow on final for 30 min 4 died

Recovered - ft. of

Recovered 25 ft. of oil spotted mud

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

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

APR 15 1993

Time On Location 6:00 A.M. Time Pick Up Tool 10:45 P.M. Time Off Location 12:00 A.M.

Time Set Packer(s) 12:35 P.M. Time Started Off Bottom 4:05 P.M. Maximum Temperature 103 °F

Initial Hydrostatic Pressure (A) 1366 P.S.I.

Initial Flow Period Minutes 30 (B) 857 P.S.I. to (C) 21 P.S.I.

Initial Closed In Period Minutes 45 (D) 857 P.S.I.

Final Flow Period Minutes 45 (E) 42 P.S.I. to (F) 42 P.S.I.

Final Closed In Period Minutes 90 (G) 750 P.S.I.

Final Hydrostatic Pressure (H) 1334 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 Bill Stout  
Signature of Customer or his authorized representative

Western Representative Rod Pitt - Thank You

FIELD INVOICE

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

WESTERN TESTING CO., INC.

Pressure Data

Date 4-17-92  
Recorder No. 1051

Test Ticket No. 19515  
Capacity \_\_\_\_\_ Location \_\_\_\_\_ Ft.

Clock No. \_\_\_\_\_ Elevation \_\_\_\_\_ Well Temperature \_\_\_\_\_ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1372</u> P.S.I.			M
B First Initial Flow Pressure	<u>24</u> P.S.I.	First Flow Pressure	Mins. <u>20</u>	Mins.
C First Final Flow Pressure	<u>24</u> P.S.I.	Initial Closed-in Pressure	Mins. <u>45</u>	Mins.
D Initial Closed-in Pressure	<u>868</u> P.S.I.	Second Flow Pressure	Mins. <u>45</u>	Mins.
E Second Initial Flow Pressure	<u>48</u> P.S.I.	Final Closed-in Pressure	Mins. <u>96</u>	Mins.
F Second Final Flow Pressure	<u>48</u> P.S.I.			
G Final Closed-in Pressure	<u>280</u> P.S.I.			
H Final Hydrostatic Mud	<u>1349</u> P.S.I.			

PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure	Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown: _____ Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>24</u>	0	<u>24</u>	0	<u>28</u>	0	<u>48</u>
P 2 5		3	<u>24</u>	5		3	<u>48</u>
P 3 10		6	<u>60</u>	10		6	<u>48</u>
P 4 15		9	<u>318</u>	15		9	<u>55</u>
P 5 20		12	<u>551</u>	20		12	<u>69</u>
P 6 25		15	<u>620</u>	25		15	<u>142</u>
P 7 30	<u>24</u>	18	<u>672</u>	30		18	<u>361</u>
P 8 35		21	<u>718</u>	35		21	<u>512</u>
P 9 40		24	<u>754</u>	40		24	<u>590</u>
P10 45		27	<u>784</u>	45	<u>48</u>	27	<u>624</u>
P11 50		30	<u>805</u>	50		30	<u>658</u>
P12 55		33	<u>826</u>	55		33	<u>682</u>
P13 60		36	<u>844</u>	60		36	<u>700</u>
P14 65		39	<u>853</u>	65		39	<u>722</u>
P15 70		42	<u>862</u>	70		42	<u>729</u>
P16 75		45	<u>868</u>	75		45	<u>734</u>
P17 80		48	<u>872</u>	80		48	<u>737</u>
P18 85		51		85		51	<u>741</u>
P19 90		54		90		54	<u>748</u>
P20 95		57		95		57	<u>752</u>
100		60		100		60	<u>756</u>

# WESTERN TESTING CO., INC.

## Pressure Data

Date \_\_\_\_\_ Test Ticket No. \_\_\_\_\_  
 Recorder No. \_\_\_\_\_ 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 _____	Mins. _____	Mins. _____
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure _____	Mins. _____	Mins. _____
D Initial Closed-in Pressure _____	P.S.I.	Second Flow Pressure _____	Mins. _____	Mins. _____
E Second Initial Flow Pressure _____	P.S.I.	Final Closed-in Pressure _____	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

Point Mins.	First Flow Pressure	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
	Breakdown: _____ Inc. of _____ mins. and a final inc. of _____ Min.						
P 1 105		63		105		63	759
P 2 110		66		110		66	761
P 3 115		69		115		69	763
P 4 120		72		120		72	765
P 5 125		75		125		75	767
P 6 130		78		130		78	769
P 7 135		81		135		81	771
P 8 140		84		140		84	773
P 9 145		87		145		87	775
P10 150		90		150		90	777
P11 155		93		155		93	779
P12 160		96		160		96	780
P13 165		99		165		99	
P14 170		102		170		102	
P15 175		105		175		105	
P16 180		108		180		108	
P17 185		111		185		111	
P18 190		114		190		114	
P19 195		117		195		117	
P20 200		120		200		120	



DST REPORT

GENERAL INFORMATION

DATE : 4-17-93  
CUSTOMER : PETROLEUM MANAGEMENT INC.  
WELL : #2 TEST: 1  
ELEVATION: 1856 K.B.  
SECTION : 9  
RANGE : 8E COUNTY: BUTLER  
GAUGE SN#: 1051 RANGE : 4250  
TICKET : 19315  
LEASE : SQUIER  
GEOLOGIST: BILL STOUT  
FORMATION: MISSISSIPPI  
TOWNSHIP : 28S  
STATE : KS  
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 2689.00 ft TO: 2711.00 ft TVD: 2711.0 ft  
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL  
DEPTH OF RECORDERS: 2702.0 ft 2705.0 ft  
TEMPERATURE: 103.0  
DRILL COLLAR LENGTH: 271.0 ft I.D.: 2.250 in  
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in  
DRILL PIPE LENGTH : 2390.0 ft I.D.: 2.500 in  
TEST TOOL LENGTH : 28.0 ft TOOL SIZE : 5.500 in  
ANCHOR LENGTH : 22.0 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: 2684.0 ft SIZE: 6.630 in  
PACKER DEPTH: 2689.0 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. : SUMMIT DRILLING  
MUD TYPE : CHEMICAL VISCOSITY : 55.00 cp  
WEIGHT : 9.600 ppg WATER LOSS: 8.000 cc  
CHLORIDES : 800 ppm  
JARS-MAKE : WTC SERIAL NUMBER: 411  
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

VERY WEAK STEADY 1/2" BLOW ON INITIAL FLOW PERIOD.  
VERY WEAK 1/4" BLOW ON FINAL FLOW PERIOD FOR 30  
MINUTES AND DIED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
25.0	5.0	0.0	0.0	95.0	OIL SPOTTED MUD

RATE INFORMATION

OIL VOLUME:	0.0061	STB		TOTAL FLOW TIME:	75.0000 min.
GAS VOLUME:	0.0000	SCF		AVERAGE OIL RATE:	2.3604 STB/D
MUD VOLUME:	0.1168	STB		AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.1229	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1366.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	21.00	21.00
INITIAL SHUT-IN	45.00		857.00
FINAL FLOW	45.00	42.00	42.00
FINAL SHUT-IN	90.00		750.00

FINAL HYDROSTATIC PRESSURE: 1334.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1372.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	24.00	24.00
INITIAL SHUT-IN	45.00		868.00
FINAL FLOW	45.00	48.00	48.00
FINAL SHUT-IN	96.00		780.00

FINAL HYDROSTATIC PRESSURE: 1349.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 4-17-93	TICKET	: 19315
CUSTOMER	: PETROLEUM MANAGEMENT INC.	LEASE	: SQUIER
WELL	: #2	TEST:	: 1
ELEVATION:	1856 K.B.	GEOLOGIST:	BILL STOUT
SECTION	: 9	FORMATION:	MISSISSIPPI
RANGE	: 8E	TOWNSHIP	: 28S
GAUGE SN#:	1051	STATE	: KS
		CLOCK	: 12
		COUNTY:	BUTLER
		RANGE	: 4250

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	24.00	24.00
5.00	24.00	0.00
10.00	24.00	0.00
15.00	24.00	0.00
20.00	24.00	0.00
25.00	24.00	0.00
30.00	24.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	31.00	31.00	0.00
6.00	64.00	33.00	0.00
9.00	318.00	254.00	0.00
12.00	551.00	233.00	0.00
15.00	623.00	72.00	0.00
18.00	672.00	49.00	0.00
21.00	718.00	46.00	0.00
24.00	754.00	36.00	0.00
27.00	784.00	30.00	0.00
30.00	805.00	21.00	0.00
33.00	826.00	21.00	0.00
36.00	844.00	18.00	0.00
39.00	853.00	9.00	0.00
42.00	862.00	9.00	0.00
45.00	868.00	6.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	48.00	48.00
5.00	48.00	0.00
10.00	48.00	0.00
15.00	48.00	0.00
20.00	48.00	0.00
25.00	48.00	0.00
30.00	48.00	0.00
35.00	48.00	0.00
40.00	48.00	0.00
45.00	48.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	48.00	48.00	0.00
6.00	48.00	0.00	0.00
9.00	55.00	7.00	0.00
12.00	69.00	14.00	0.00
15.00	143.00	74.00	0.00
18.00	361.00	218.00	0.00
21.00	513.00	152.00	0.00
24.00	590.00	77.00	0.00
27.00	626.00	36.00	0.00
30.00	658.00	32.00	0.00
33.00	683.00	25.00	0.00
36.00	700.00	17.00	0.00
39.00	723.00	23.00	0.00
42.00	729.00	6.00	0.00
45.00	734.00	5.00	0.00
48.00	737.00	3.00	0.00
51.00	741.00	4.00	0.00
54.00	748.00	7.00	0.00
57.00	753.00	5.00	0.00
60.00	756.00	3.00	0.00
63.00	759.00	3.00	0.00
66.00	761.00	2.00	0.00
69.00	763.00	2.00	0.00
72.00	765.00	2.00	0.00
75.00	767.00	2.00	0.00
78.00	769.00	2.00	0.00
81.00	771.00	2.00	0.00
84.00	773.00	2.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

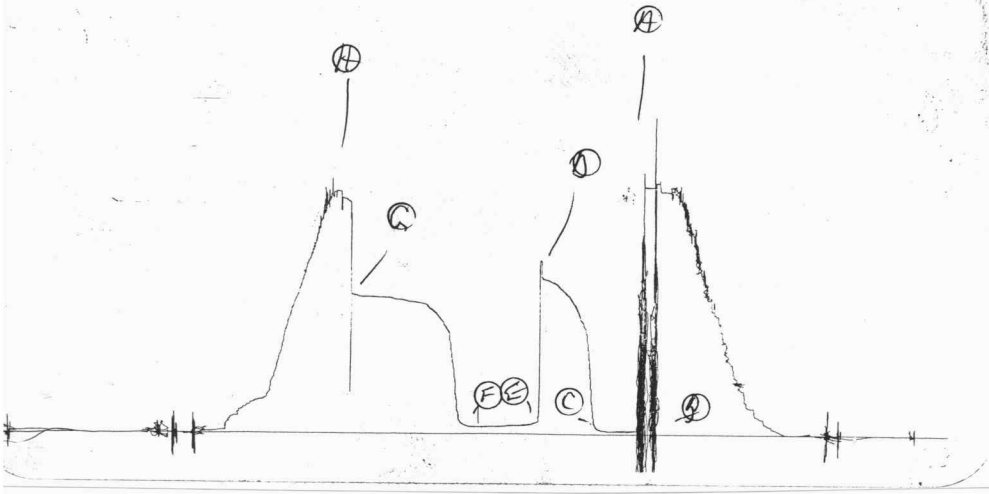
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
87.00	775.00	2.00	0.00
90.00	777.00	2.00	0.00
93.00	779.00	2.00	0.00
96.00	780.00	1.00	0.00

125B DST#1



KT 19515

I



4332 DST#1

KT 19515

O

