WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 18698

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

Elevation 1340 KB Formation MISS Eff. Pay Ft.

District Great Bend Date 5-25-93 Customer Order No.

COMPANY NAME OIL PRODUCERS OF KANSAS

ADDRESS

LEASE AND WELL NO. EWERTZ #1 COUNTY SEDGWICK STATE KS Sec. 19 Twp. 28 Rge. 1W

Mail Invoice To Co. Name Ewertz #1 Address No. Copies Requested

Mail Charts To Address No. Copies Requested

3417

Formation Test No. 1 Interval Tested From 3417 ft. to 3425 ft. Total Depth 3425 ft.

Packer Depth 3412 ft. Size 6½ in. Packer Depth ft. Size in.

Packer Depth 3417 ft. Size 6½ in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3419 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 3422 ft. Recorder Number 3354 Cap. 4000

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor SUMMIT

Mud Type CHEMICAL Viscosity 50

Weight 9.3 Water Loss cc.

Chlorides P.P.M.

Jars: Make Serial Number

Did Well Flow? NO Reversed Out

Drill Collar Length 360 I. D. 2.25 in.

Weight Pipe Length I. D. in.

Drill Pipe Length 3037 I. D. 2.7 in.

Test Tool Length 20 ft. Tool Size 5½ in.

Anchor Length 8 ft. Size 5½ in.

Surface Choke Size ¾ in. Bottom Choke Size ¾ in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½ FH in.

Blow: STRONG BLOW ON I.F.P.
STRONG BLOW DECREASING TO ½" IN BUCKET IN F.F.P.

Recovered 30 ft. of GAS IN PIPE

Recovered 5 ft. of DRLG MUD W/ RAINBOW OF OIL

Recovered ft. of

Recovered ft. of

Recovered ft. of

MAY 26 1993

Chlorides P.P.M. Sample Jars used Remarks: TOOL PLUGGED OFF ON INITIAL OPENING

Time On Location 2:00 A.M. / P.M. Time Pick Up Tool 3:30 A.M. / P.M. Time Off Location A.M. / P.M.

Time Set Packer(s) 6:00 A.M. / P.M. Time Started Off Bottom 8:00 A.M. / P.M. Maximum Temperature 110

Initial Hydrostatic Pressure			(A) 1760	P.S.I.		
Initial Flow Period	Minutes 30	(B) 200	P.S.I. to	(C) 1092	P.S.I.	
Initial Closed In Period	Minutes 30	(D) 1092	P.S.I.			
Final Flow Period	Minutes 30	(E) 1092	P.S.I. to	(F) 1092	P.S.I.	
Final Closed In Period	Minutes 30	(G) 1092	P.S.I.			
Final Hydrostatic Pressure			(H) 1708	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 Shepherd
Signature of Customer or his authorized representative

Western Representative Bill Hagen

FIELD INVOICE

Open Hole Test	$ 2100
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 5-25-92 Test Ticket No. 18698

Recorder No. 10929 Capacity Location

Clock No. Elevation Well Temperature

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1759	P.S.I.	Open Tool	M	
B	First Initial Flow Pressure	382	P.S.I.	First Flow Pressure	Mins 30	Mi
C	First Final Flow Pressure	1114	P.S.I.	Initial Closed-in Pressure	Mins 30	Mi
D	Initial Closed-in Pressure	1114	P.S.I.	Second Flow Pressure	Mins 30	Mi
E	Second Initial Flow Pressure	1114	P.S.I.	Final Closed-in Pressure	Mins 30	Mi
F	Second Final Flow Pressure	1117	P.S.I.			
G	Final Closed-in Pressure	1117	P.S.I.			
H	Final Hydrostatic Mud	1711	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	382
P 2	5	1099
P 3	10	1106
P 4	15	1108
P 5	20	1110 1109
P 6	25	1112
P 7	30	1114
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	1114
3	
6	
9	
12	
15	
18	
21	
24	
27	
30	1114
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure

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

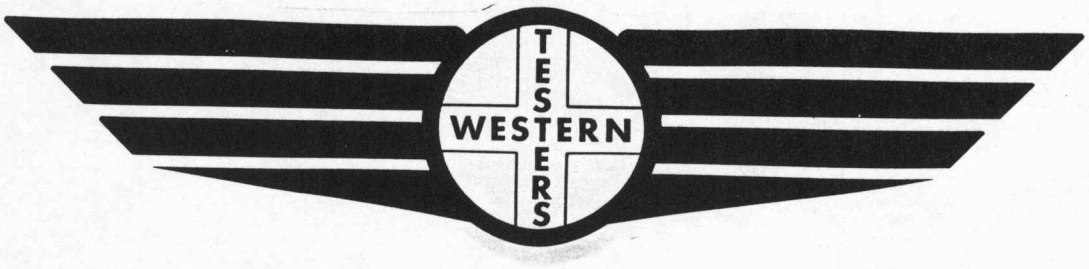
Point Minutes	Press.
0	1114
5	
10	
15	1114
20	1115
25	1116
30	1117
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	
95	
100	

Final Shut-In

Breakdown: Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	1117
3	
6	
9	
12	
15	
18	
21	
24	
27	
30	1117
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

FORMATION TEST REPORT



Home Office:

P.O. Box 1599

Wichita, Kansas 67201

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

COMPANY OIL PRODUCERS INC. OF KANSAS LEASE & WELL NO. EWERTZ #1 SEC. 19 TWP. 28S RGE. 1W TEST NO. 1 DATE 5/25/93

DST REPORT

GENERAL INFORMATION

DATE	: 5/25/93	TICKET	: 18698
CUSTOMER	: OIL PRODUCERS, INC OF KS	LEASE	: EWERTZ
WELL	: #1 TEST: 1	GEOLOGIST	: SHEPHERD
ELEVATION	: 1340 KB	FORMATION	: MISSISSIPPI
SECTION	: 19	TOWNSHIP	: 28W
RANGE	: 1W COUNTY: SEDGWICK	STATE	: KS
GAUGE SN#	: 10979 RANGE : 4100	CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3417.00 ft TO: 3425.00 ft TVD: 3425.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3419.0 ft 3422.0 ft
TEMPERATURE: 110.0

DRILL COLLAR LENGTH:	360.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3037.0 ft	I.D.:	2.700 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	8.0 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 :	4.5FH
PACKER DEPTH:	3412.0 ft	SIZE:	6.500 in
PACKER DEPTH:	3417.0 ft	SIZE:	6.500 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON.	: SUMMIT		
MUD TYPE	: CHEMICAL	VISCOSITY :	50.00 cp
WEIGHT	: 9.300 ppg	WATER LOSS:	0.000 cc
CHLORIDES	: 0 ppm		
JARS-MAKE	:	SERIAL NUMBER:	
DID WELL FLOW?	: NO	REVERSED OUT?:	NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW. FINAL FLOW PERIOD STRONG BLOW DECREASING TO 1/2 INCH IN BUCKET.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

TOOL PLUGGED OFF ON INITIAL OPENING.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
5.0	0.0	0.0	0.0	100.0	DRLG MUD W/RAINBOW OF OIL
0.0	0.0	0.0	0.0	0.0	30 FT GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	0.0000 STB		
GAS VOLUME:	0.0000 SCF	TOTAL FLOW TIME:	60.0000 min.
MUD VOLUME:	0.0246 STB	AVERAGE OIL RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.0246 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1760.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	200.00	1092.00
INITIAL SHUT-IN	30.00		1092.00
FINAL FLOW	30.00	1092.00	1092.00
FINAL SHUT-IN	30.00		1092.00

FINAL HYDROSTATIC PRESSURE: 1708.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1759.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	382.00	1114.00
INITIAL SHUT-IN	30.00		1114.00
FINAL FLOW	30.00	1114.00	1117.00
FINAL SHUT-IN	30.00		1117.00

FINAL HYDROSTATIC PRESSURE: 1711.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 5/25/93			TICKET	: 18698
CUSTOMER	: OIL PRODUCERS, INC OF KS			LEASE	: EWERTZ
WELL	: #1	TEST: 1		GEOLOGIST	: SHEPHERD
ELEVATION	: 1340 KB			FORMATION	: MISSISSIPPI
SECTION	: 19			TOWNSHIP	: 28W
RANGE	: 1W	COUNTY:	SEDGWICK	STATE	: KS
GAUGE SN#	: 10979	RANGE :	4100	CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	382.00	382.00
5.00	1099.00	717.00
10.00	1106.00	7.00
15.00	1108.00	2.00
20.00	1110.00	2.00
25.00	1112.00	2.00
30.00	1114.00	2.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1114.00	1114.00	0.00
6.00	1114.00	0.00	0.00
9.00	1114.00	0.00	0.00
12.00	1114.00	0.00	0.00
15.00	1114.00	0.00	0.00
18.00	1114.00	0.00	0.00
21.00	1114.00	0.00	0.00
24.00	1114.00	0.00	0.00
27.00	1114.00	0.00	0.00
30.00	1114.00	0.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	1114.00	1114.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

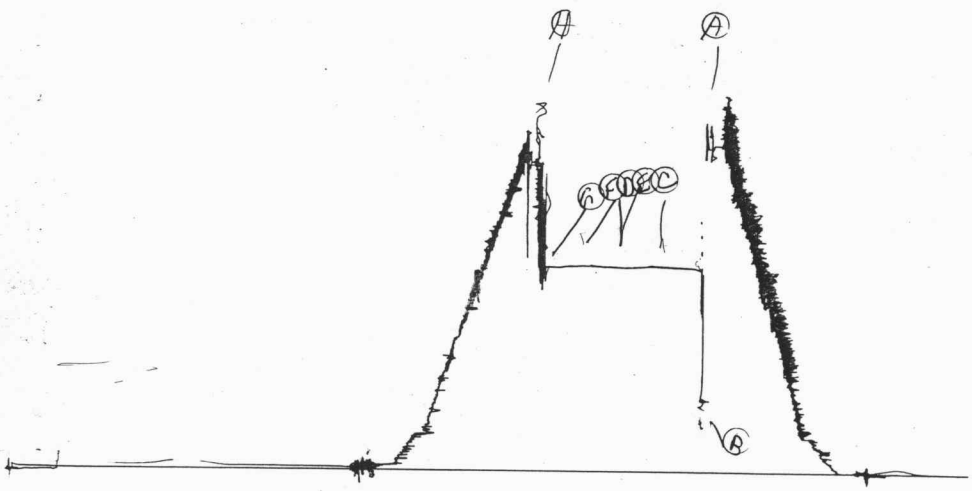
Time (min)	Pressure	Delta P
5.00	1114.00	0.00
10.00	1114.00	0.00
15.00	1114.00	0.00
20.00	1115.00	1.00
25.00	1116.00	1.00
30.00	1117.00	1.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1117.00	1117.00	0.00
6.00	1117.00	0.00	0.00
9.00	1117.00	0.00	0.00
12.00	1117.00	0.00	0.00
15.00	1117.00	0.00	0.00
18.00	1117.00	0.00	0.00
21.00	1117.00	0.00	0.00
24.00	1117.00	0.00	0.00
27.00	1117.00	0.00	0.00
30.00	1117.00	0.00	0.00

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