



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 20106

LAST TEST

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

Elevation Formation DOUGLAS Eff. Pay Ft.

District GREAT BEND Date 10-24-93 Customer Order No.

COMPANY NAME OIL PRODUCERS INC OF KANSAS

ADDRESS P.O. BOX 3647 WICHITA KS

LEASE AND WELL NO. BARTHLOW #2 COUNTY BARBER STATE KS Sec. 18 Twp. 33 Rge. 12 W

Mail Invoice To Barthlow #2 Co. Name SAME Address No. Copies Requested REG

Mail Charts To Address No. Copies Requested 11

Formation Test No. -1 Interval Tested From 3789 ft. to 3840 ft. Total Depth 3840 ft.

Packer Depth 3784 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3789 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3792 ft. Recorder Number 11618 Cap. 4425 PSI

Bottom Recorder Depth (Outside) 3837 ft. Recorder Number 13629 Cap. 4425 PSI

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

Drilling Contractor DUKE RIGS Drill Collar Length 0 I. D. - in.

Mud Type CHEMICAL Viscosity 47 Weight Pipe Length 0 I. D. - in.

Weight 9.3 Water Loss 10.4 cc. Drill Pipe Length 3269 I. D. - in.

Chlorides 4300 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make NATRAN Serial Number - Anchor Length 51 ft. Size 5 1/2 in.

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

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

Blow: 1ST BLOW: STRONG BLOW B.O.B IN 17 MINUTES

2ND BLOW: WEAK BLOW

Recovered 50 ft. of DRILLING MUD

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

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

Time On Location 10:30 A.M. Time Pick Up Tool 11:00 A.M. Time Off Location 5:00 P.M.

Time Set Packer(s) 12:45 A.M. Time Started Off Bottom 1:50 A.M. Maximum Temperature 120° P.M.

Initial Hydrostatic Pressure (A) 1867 P.S.I.

Initial Flow Period Minutes 30 (B) 46 P.S.I. to (C) 49 P.S.I.

Initial Closed In Period Minutes 30 (D) 265 P.S.I.

Final Flow Period Minutes 3 (E) 77 P.S.I. to (F) - P.S.I.

Final Closed In Period Minutes 0 (G) - P.S.I.

Final Hydrostatic Pressure (H) 1849 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 John Reed

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test, Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, Telecopier, and TOTAL.

WESTERN TESTING CO., INC.
Pressure Data

Date _____

Test Ticket No. 20106

Recorder No. _____ Capacity _____ Location _____ Ft.

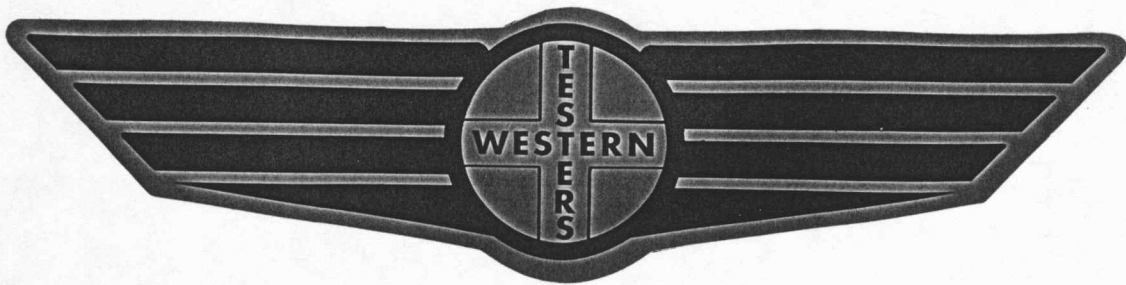
Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1890</u> 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	<u>1863</u> 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 <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>87</u>	0	<u>64</u>	0	<u>93</u>	0	
P 2 5	<u>64</u>	3	<u>247</u>	5		3	
P 3 10		6	<u>433</u>	10		6	
P 4 15		9	<u>558</u>	15		9	
P 5 20		12	<u>619</u>	20		12	
P 6 25	<u>64</u>	15	<u>659</u>	25		15	
P 7 30		18	<u>686</u>	30		18	
P 8 35		21	<u>719</u>	35		21	
P 9 40		24	<u>741</u>	40		24	
P10 45		27	<u>754</u>	45		27	
P11 50		30	<u>768</u>	50		30	
P12 55		33		55		33	
P13 60		36		60		36	
P14 65		39		65		39	
P15 70		42		70		42	
P16 75		45		75		45	
P17 80		48		80		48	
P18 85		51		85		51	
P19 90		54		90		54	
P20 95		57		95		57	
100		60		100		60	

FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

DATE : 10-29-93
CUSTOMER : OIL PRODUCERS INC. OF KS.
WELL : #2 TEST: 1
ELEVATION:
SECTION : 18
RANGE : 12W COUNTY: BARBER
GAUGE SN#: 11018 RANGE : 4425
TICKET : 20106
LEASE : BARTHOLOW
GEOLOGIST: BILL SHEPHARD
FORMATION: BARBER
TOWNSHIP : 33S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3789.00 ft TO: 3840.00 ft TVD: 3840.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3792.0 ft 3837.0 ft
TEMPERATURE: 120.0
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 : 3769.0 ft I.D.: 2.650 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 51.0 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: 3784.0 ft SIZE: 6.630 in
PACKER DEPTH: 3789.0 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 #5
MUD TYPE : CHEMICAL VISCOSITY : 47.00 cp
WEIGHT : 9.300 ppg WATER LOSS: 10.400 cc
CHLORIDES : 4300 ppm
JARS-MAKE : NO SERIAL NUMBER:
DID WELL FLOW?: NO REVERSED OUT?: NO

COMMENTS

Comment

STRONG BLOW OFF BOTTOM OF BUCKET IN 17 MINUTES ON
INITIAL FLOW PERIOD. WEAK BLOW ON FINAL FLOW
PERIOD.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
50.0	0.0	0.0	0.0	100.0	DRILLING 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:	0.3411 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.3411 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1867.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	46.00	49.00
INITIAL SHUT-IN	30.00		765.00
FINAL FLOW	3.00	77.00	77.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 1849.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1890.00

Description	Duration	p1	p End
INITIAL FLOW	25.00	87.00	64.00
INITIAL SHUT-IN	30.00		768.00
FINAL FLOW	5.00	93.00	93.00

FINAL HYDROSTATIC PRESSURE: 1863.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 10-29-93	TICKET : 20106
CUSTOMER : OIL PRODUCERS INC. OF KS.	LEASE : BARTHOLOW
WELL : #2	TEST: 1
ELEVATION:	GEOLOGIST: BILL SHEPHARD
SECTION : 18	FORMATION: BARBER
RANGE : 12W	TOWNSHIP : 33S
GAUGE SN#: 11018	STATE : KS
COUNTY: BARBER	CLOCK : 12
RANGE : 4425	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	87.00	87.00
5.00	73.00	-14.00
10.00	64.00	-9.00
15.00	64.00	0.00
20.00	64.00	0.00
25.00	64.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	247.00	247.00	0.00
6.00	433.00	186.00	0.00
9.00	558.00	125.00	0.00
12.00	619.00	61.00	0.00
15.00	659.00	40.00	0.00
18.00	686.00	27.00	0.00
21.00	719.00	33.00	0.00
24.00	741.00	22.00	0.00
27.00	754.00	13.00	0.00
30.00	768.00	14.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	93.00	93.00
5.00	93.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN

Time
(min)

Pressure

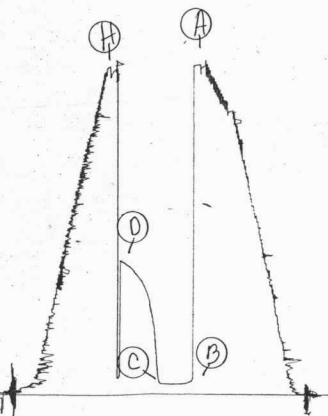
Delta P

Horner T

No Data Entered

DST #1 RSC #11018

TK # 20106
J.



DST #1 RSC #13629

TK # 20106
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