



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET

No 18957

P. O. BOX 1599

PHONE (316) 262-5861

WICHITA, KANSAS 67201

Elevation 2137 KB

Formation Cher. SD.

Eff. Pay — Ft.

District GT. Bend Date 1-26-93

Customer Order No. —

COMPANY NAME Oil Producers, Inc. of Kansas

ADDRESS P.O. Box 8647 Wichita, KS, 67208

LEASE AND WELL NO BANNISTER #1 COUNTY Rush STATE KS Sec 34 Twp 18^s Rge 20^w

Mail Invoice To Same #1 BANNISTER Co. Name Address No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 4085 ft. to 4121 ft. Total Depth 4121 ft.

Packer Depth 4080 ft. Size 6 7/8 in. Packer Depth — ft. Size — in.

Packer Depth 4085 ft. Size 6 7/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4113 ft.

Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 4116 ft.

Recorder Number 13550 Cap. 4175

Below Straddle Recorder Depth — ft.

Recorder Number — Cap. —

Drilling Contractor MALLARD dely rig 1

Drill Collar Length 240 I. D. 2.2 in.

Mud Type Chemical Viscosity 49

Weight Pipe Length — I. D. — in.

Weight 9.3 Water Loss 7 cc.

Drill Pipe Length 3820 I. D. 3.8 in.

Chlorides N/A P.P.M.

Test Tool Length 25 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 422

Anchor Length 36 ft. Size 5 1/2 in.

Did Well Flow? — Reversed Out —

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 FH in.

Blow: IF-WEAK Blow died in 14 min.

Recovered 5 ft. of Mud

Recovered — ft. of w/ show on Top of Tool

Recovered — ft. of oil

Recovered — ft. of

Recovered — ft. of

JAN 28 1993

Chlorides — P.P.M. Sample Jars used 1 Remarks:

Time On Location 4:30 A.M. Time Pick Up Tool 8:30 A.M. Time Off Location — A.M.

Time Set Packer(s) 10:05 A.M. Time Started Off Bottom 10:40 A.M. Maximum Temperature 112°

Initial Hydrostatic Pressure (A) 2066 P.S.I.

Initial Flow Period Minutes 15 (B) 52 P.S.I. to (C) 52 P.S.I.

Initial Closed In Period Minutes 20 (D) 156 P.S.I.

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

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

Final Hydrostatic Pressure (H) 2045 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

Ray Schwager

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

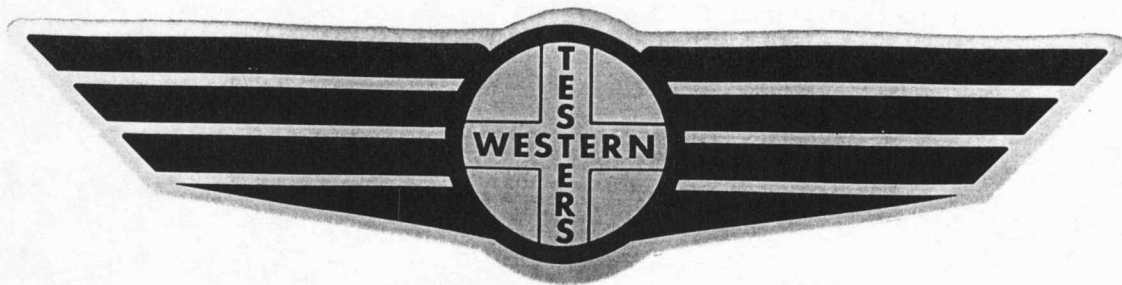
Date 1-26-58 Test Ticket No. 18957
 Recorder No. 10270 Capacity _____ Location _____ Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2078</u> P.S.I.	Open Tool	M	
B First Initial Flow Pressure	<u>54</u> P.S.I.	First Flow Pressure	Mins. <u>15</u>	Mins.
C First Final Flow Pressure	<u>54</u> P.S.I.	Initial Closed-in Pressure	Mins. <u>21</u>	Mins.
D Initial Closed-in Pressure	<u>175</u> 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>2025</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>54</u>	0	<u>54</u>	0		0	
P 2 5		3	<u>55</u>	5		3	
P 3 10		6	<u>60</u>	10		6	
P 4 15	<u>54</u>	9	<u>74</u>	15		9	
P 5 20		12	<u>97</u>	20		12	
P 6 25		15	<u>136</u>	25		15	
P 7 30		18	<u>164</u>	30		18	
P 8 35		21	<u>175</u>	35		21	
P 9 40		24		40		24	
P10 45		27		45		27	
P11 50		30		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 - 800-688-7021

DST REPORT

GENERAL INFORMATION

DATE : 1/26/93
CUSTOMER : OIL PRODUCERS INC OF KS
WELL : 1 TEST: 1
ELEVATION: 2137 KB
SECTION : 34
RANGE : 20W COUNTY: RUSH
GAUGE SN#: 10270 RANGE : 4150

TICKET : 18957
LEASE : BANNISTER
GEOLOGIST: BILL SHEPHERD
FORMATION: CHEROKEE SAND
TOWNSHIP : 18S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4085.00 ft TO: 4121.00 ft TVD: 4121.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4113.0 ft 4116.0 ft
TEMPERATURE: 112.0

DRILL COLLAR LENGTH:	240.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3820.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	25.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	36.0 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:	4080.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4085.0 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. : MALLARD DRLG RIG 1
MUD TYPE : CHEMICAL
WEIGHT : 9.300 ppg
CHLORIDES : 0 ppm
JARS-MAKE : W.T.C.
DID WELL FLOW?: NO

VISCOSITY : 49.00 cp
WATER LOSS: 7.000 cc

SERIAL NUMBER: 422
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW, DIED IN 14 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
5.0	0.0	0.0	0.0	100.0	MUD W/SHOW OF OIL ON TOP
0.0	0.0	0.0	0.0	0.0	OF TOOL

RATE INFORMATION

OIL VOLUME:	0.0000	STB	TOTAL FLOW TIME:	15.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.0000	STB/D
MUD VOLUME:	0.0235	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0235	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2066.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	52.00	52.00
INITIAL SHUT-IN	20.00		156.00
FINAL FLOW	0.00	0.00	0.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 2045.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2078.00

Description	Duration	p1	p End
INITIAL FLOW	15.00	54.00	54.00
INITIAL SHUT-IN	21.00		175.00
FINAL FLOW	0.00	0.00	0.00

FINAL HYDROSTATIC PRESSURE: 2025.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 1/26/93	TICKET : 18957
CUSTOMER : OIL PRODUCERS INC OF KS	LEASE : BANNISTER
WELL : 1	GEOLOGIST: BILL SHEPHERD
ELEVATION: 2137 KB	FORMATION: CHEROKEE SAND
SECTION : 34	TOWNSHIP : 18S
RANGE : 20W	STATE : KS
GAUGE SN#: 10270	CLOCK : 12
COUNTY: RUSH	
RANGE : 4150	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	54.00	54.00
5.00	54.00	0.00
10.00	54.00	0.00
15.00	54.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	55.00	55.00	0.00
6.00	60.00	5.00	0.00
9.00	74.00	14.00	0.00
12.00	97.00	23.00	0.00
15.00	126.00	29.00	0.00
18.00	164.00	38.00	0.00
21.00	175.00	11.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	0.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN

Time
(min)

Pressure

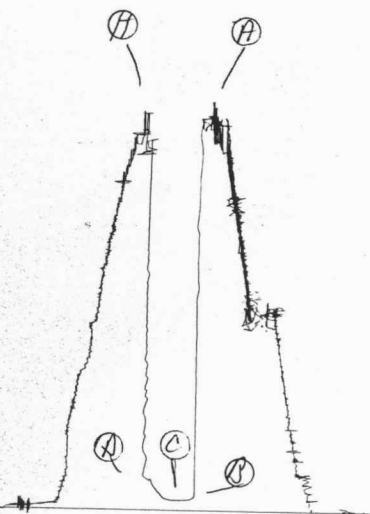
Delta P

Horner T

No Data Entered

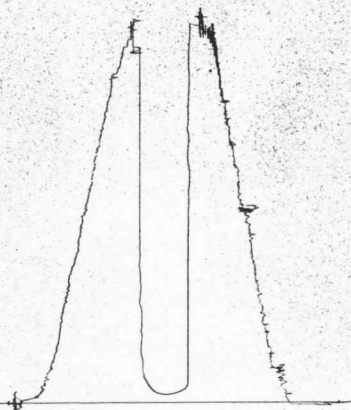
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P. O. BOX 1599 | PHONE (316) 262-5861
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

last
No 18958

Elevation 2137 KB Formation Cher. 5d Eff. Pay — Ft.

District GT. Bend Date 1-26-93 Customer Order No. —

COMPANY NAME Oil Producers, Inc. of Kansas

ADDRESS P.O. Box 8647 Wichita, Ks. 67208

LEASE AND WELL NO. Bannister #1 COUNTY Rush STATE Ks Sec. 34 Twp. 18^s Rge. 20^w

Mail Invoice To Same #1 Bannister Co. Name Address No. Copies Requested Reg

Mail Charts To Same Address No. Copies Requested Reg

Formation Test No. 2 Interval Tested From 4088 ft. to 4125 ft. Total Depth 4125 ft.

Packer Depth 4083 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 4088 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 4117 ft. Recorder Number 10270 Cap. 4150

Bottom Recorder Depth (Outside) 4120 ft. Recorder Number 13550 Cap. 4175

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

Drilling Contractor Mallard delg rig 1 Drill Collar Length 240 I. D. 2.2 in.

Mud Type Chemical Viscosity 49 Weight Pipe Length — I. D. — in.

Weight 9.3 Water Loss 7 cc. Drill Pipe Length 3823 I. D. 3.8 in.

Chlorides N/A P.P.M. Test Tool Length 25 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 422 Anchor Length 37 ft. Size 5 1/2 in.

Did Well Flow? — Reversed Out — 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 FH in.

Blow: IF-STRONG BLOW IN 2 min

Recovered 190 ft. of HEAVY OIL & GAS cut muddy WATER 25% oil 22% GAS 23% mud 30% W

Recovered 240 ft. of HEAVY OIL & GAS cut muddy WATER 25% oil 18% GAS 12% mud 45% WATER

Recovered 90 ft. of HEAVY OIL & GAS cut muddy WATER 22% oil 20% GAS 7% mud 51% WATER

Recovered 180 ft. of HEAVY OIL & GAS cut muddy WATER 22% oil 20% GAS 4% mud 54% WATER

Recovered 30 ft. of OIL & GAS cut muddy WATER 12% oil 6% GAS 40% mud 42% WATER

Chlorides 34,000 P.P.M. Sample Jars used 11 Remarks:

30 ft mud

760 ft. TOTAL Fluid

JAN 28 1993

Time On Location 4:30 A.M. Time Pick Up Tool 5:30 A.M. Time Off Location — A.M.

Time Set Packer(s) 7:00 A.M. Time Started Off Bottom 7:30 A.M. Maximum Temperature 114°

Initial Hydrostatic Pressure (A) 2014 P.S.I.

Initial Flow Period Minutes 30 (B) 114 P.S.I. to (C) 302 P.S.I.

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

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

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

Final Hydrostatic Pressure (H) 2014 P.S.I.

COMPANY TERMS

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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

Ray Schwager

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

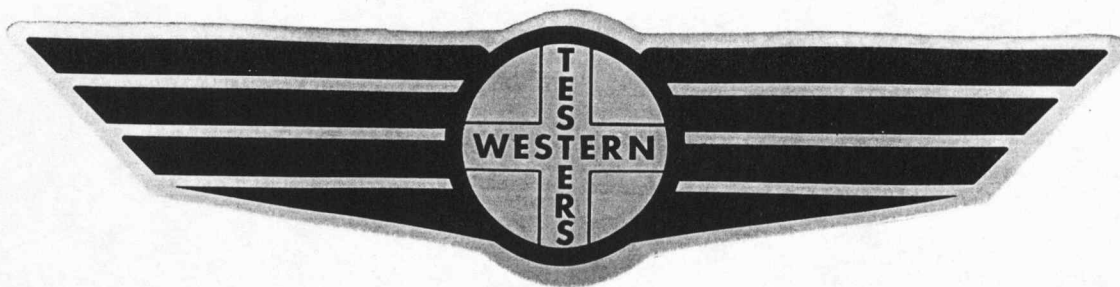
Date 1-26-52 Test Ticket No. 18958
 Recorder No. 10270 Capacity _____ Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2054</u> P.S.I.	Open Tool	M	
B First Initial Flow Pressure	<u>146</u> P.S.I.	First Flow Pressure	Mins. <u>30</u>	Mins.
C First Final Flow Pressure	<u>325</u> 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>2028</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>146</u>	0		0		0	
P 2 5	<u>147</u>	3		5		3	
P 3 10	<u>198</u>	6		10		6	
P 4 15	<u>240</u>	9		15		9	
P 5 20	<u>271</u>	12		20		12	
P 6 25	<u>298</u>	15		25		15	
P 7 30	<u>325</u>	18		30		18	
P 8 35		21		35		21	
P 9 40		24		40		24	
P10 45		27		45		27	
P11 50		30		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 - 800-688-7021**

DST REPORT

GENERAL INFORMATION

DATE : 1/26/93
CUSTOMER : OIL PRODUCERS INC OF KS
WELL : 1 TEST: 2
ELEVATION: 2137 KB
SECTION : 34
RANGE : 20W COUNTY: RUSH
GAUGE SN#: 10270 RANGE : 4150

TICKET : 18958
LEASE : BANNISTER
GEOLOGIST: BILL SHEPHERD
FORMATION: CHEROKEE SAND
TOWNSHIP : 18S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4088.00 ft TO: 4125.00 ft TVD: 4125.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 4117.0 ft 4120.0 ft
TEMPERATURE: 114.0

DRILL COLLAR LENGTH:	240.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3823.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	25.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	37.0 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:	4083.0 ft	SIZE:	6.630 in
PACKER DEPTH:	4088.0 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. : MALLARD DRLG RIG 1
MUD TYPE : CHEMICAL
WEIGHT : 9.300 ppg
CHLORIDES : 0 ppm
JARS-MAKE : W.T.C.
DID WELL FLOW?: NO

VISCOSITY : 49.00 cp
WATER LOSS: 7.000 cc

SERIAL NUMBER: 422
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW IN 2 MINUTES.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
190.0	25.0	22.0	30.0	23.0	HVY OIL & GAS CUT MDY WTR
240.0	25.0	18.0	45.0	12.0	HVY OIL & GAS CUT MDY WTR
90.0	22.0	20.0	51.0	7.0	HVY OIL & GAS CUT MDY WTR
180.0	22.0	20.0	54.0	4.0	HVY OIL & GAS CUT MDY WTR
30.0	12.0	6.0	42.0	40.0	OIL & GAS CUT MUDDY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 34000 P.P.M.

RATE INFORMATION

OIL VOLUME: 1.9271 STB
 GAS VOLUME: 8.7958 SCF
 MUD VOLUME: 1.1760 STB
 WATER VOLUME: 3.3317 STB
 TOTAL FLUID : 6.4348 STB

TOTAL FLOW TIME: 30.0000 min.
 AVERAGE OIL RATE: 114.8668 STB/D
 AVERAGE WATER RATE: 194.0018 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2014.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	114.00	302.00
INITIAL SHUT-IN	0.00		0.00
FINAL FLOW	0.00	0.00	0.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 2014.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2054.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	126.00	325.00
INITIAL SHUT-IN	0.00		3.00

FINAL HYDROSTATIC PRESSURE: 2028.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 1/26/93	TICKET : 18958
CUSTOMER : OIL PRODUCERS INC OF KS	LEASE : BANNISTER
WELL : 1	GEOLOGIST: BILL SHEPHERD
ELEVATION: 2137 KB	FORMATION: CHEROKEE SAND
SECTION : 34	TOWNSHIP : 18S
RANGE : 20W	STATE : KS
GAUGE SN#: 10270	CLOCK : 12
COUNTY: RUSH	
RANGE : 4150	

INITIAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	126.00	126.00
5.00	167.00	41.00
10.00	198.00	31.00
15.00	240.00	42.00
20.00	271.00	31.00
25.00	298.00	27.00
30.00	325.00	27.00

INITIAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
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FINAL FLOW

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	0.00	0.00

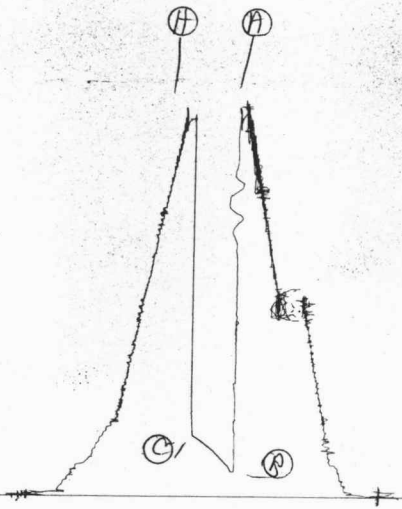
FINAL SHUT IN

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
No Data Entered			

KT 18958

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OST #21



KT 18958

O

OST #21

