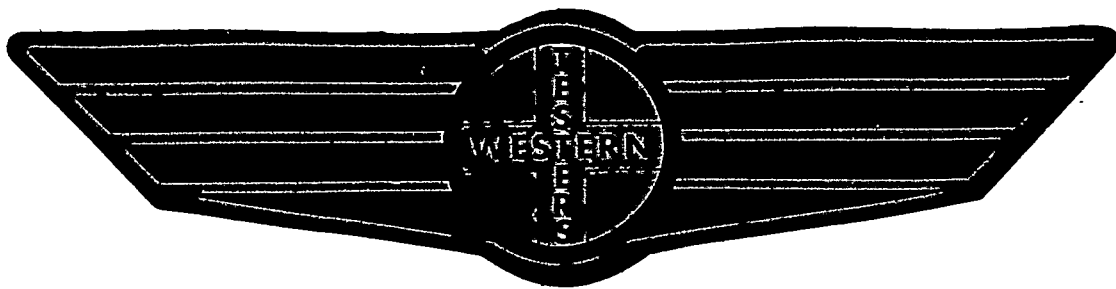


FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 316-800-688-7021

COMPANY BRITO OIL COMPANY
LEASE & WELL NO. #1-23 NICKELSON
SEC. 23 TWP. 11S RGE. 33W TEST NO. 1 DATE 12/31/94

DST REPORT

GENERAL INFORMATION

DATE : 12-31-94	TICKET : 20408
CUSTOMER : BRITO OIL COMPANY	LEASE : NICKELSON
WELL : #1-23 TEST: 1	GEOLOGIST: THOMAS FUNK
ELEVATION: 2929 K.B.	FORMATION: LKC "E-F"
SECTION : 23	TOWNSHIP : 11S
RANGE : 33W COUNTY: LOGAN	STATE : KS
GAUGE SN#: 13760 RANGE : 3950	CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 4146.00 ft	TO: 4170.00 ft	TVD: 4170.0 ft
DEPTH OF SELECTIVE ZONE:		TEST TYPE: OIL
DEPTH OF RECORDERS: 4149.0 ft	4152.0 ft	
TEMPERATURE: 123.0		

DRILL COLLAR LENGTH: 304.0 ft	I.D.:	2.200 in
WEIGHT PIPE LENGTH : 0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH : 3822.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH : 20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH : 24.0 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: 4141.0 ft	SIZE:	6.630 in
PACKER DEPTH: 4146.0 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. : BLUE GOOSE	VISCOSITY : 45.00 cp
MUD TYPE : CHEMICAL	WATER LOSS: 10.400 cc
WEIGHT : 9.200 ppg	
CHLORIDES : 2500 ppm	
JARS-MAKE : NO	SERIAL NUMBER: NO
DID WELL FLOW?: NO	REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK 1/4" BLOW IN WATER.
FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

<u>Feet of Fluid</u>	<u>% Oil</u>	<u>% Gas</u>	<u>% Water</u>	<u>% Mud</u>	<u>Comments</u>
5.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	35.0000 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: 1986.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	48.00	48.00
INITIAL SHUT-IN	30.00		53.00
FINAL FLOW	5.00	48.00	48.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 1976.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1997.00

<u>Description</u>	<u>Duration</u>	<u>p1</u>	<u>p End</u>
INITIAL FLOW	30.00	43.00	43.00
INITIAL SHUT-IN	30.00		57.00
FINAL FLOW	5.00	47.00	47.00

FINAL HYDROSTATIC PRESSURE: 1989.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 12-31-94	TICKET : 20408
CUSTOMER : BRITO OIL COMPANY	LEASE : NICKELSON
WELL : #1-23 TEST: 1	GEOLOGIST: THOMAS FUNK
ELEVATION: 2929 K.B.	FORMATION: LKC "E-F"
SECTION : 23	TOWNSHIP : 11S
RANGE : 33W COUNTY: LOGAN	STATE : KS
GAUGE SN#: 13760 RANGE : 3950	CLOCK : 12

INITIAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	43.00	43.00
5.00	43.00	0.00
10.00	43.00	0.00
15.00	43.00	0.00
20.00	43.00	0.00
25.00	43.00	0.00
30.00	43.00	0.00

INITIAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	43.00	43.00	0.00
6.00	44.00	1.00	0.00
9.00	45.00	1.00	0.00
12.00	46.00	1.00	0.00
15.00	48.00	2.00	0.00
18.00	50.00	2.00	0.00
21.00	52.00	2.00	0.00
24.00	53.00	1.00	0.00
27.00	55.00	2.00	0.00
30.00	57.00	2.00	0.00

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	47.00	47.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
5.00	47.00	0.00

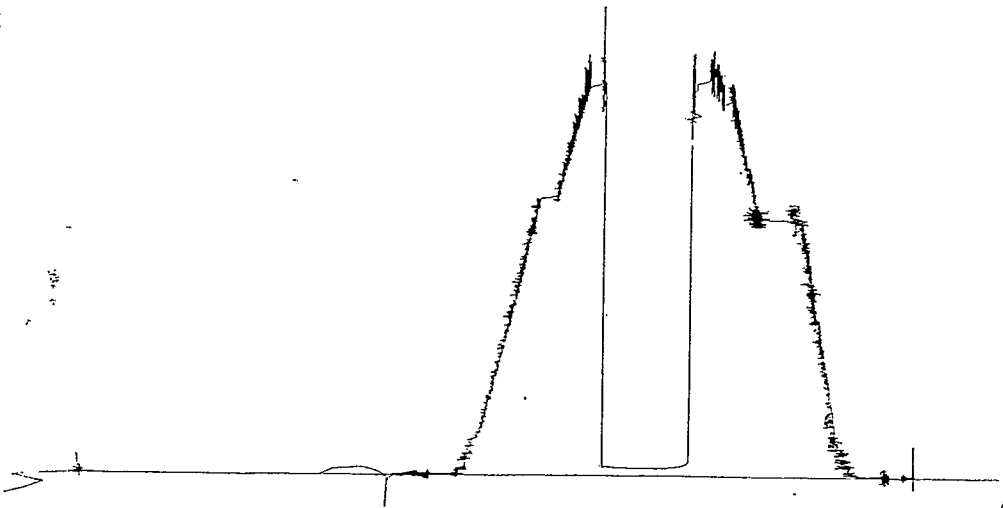
FINAL SHUT IN

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

1346D

Ticket # 20408

0

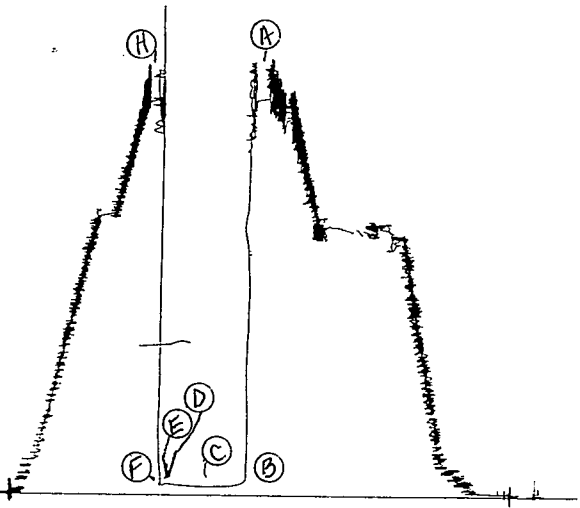


137100

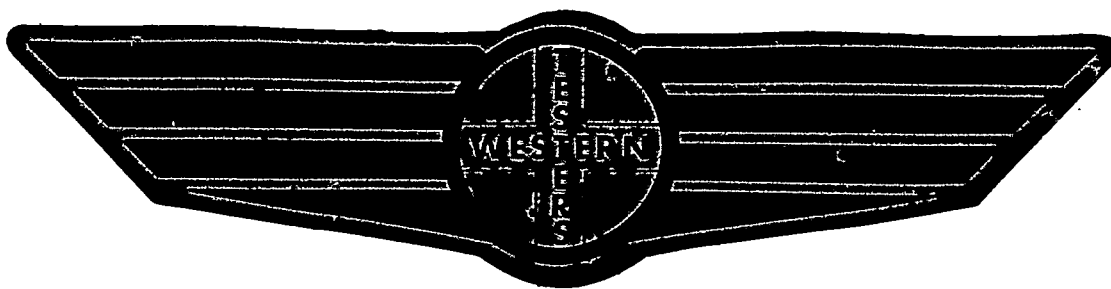
Ticket # 20408

5

I



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone ~~913-800-688~~-7021

COMPANY BRITO OIL COMPANY LEASE & WELL NO. #1-23 NICKELSON SEC. 23 TWP. 11SRGE. 33WTEST NO. 2 DATE 1/1/95

DST REPORT

GENERAL INFORMATION

DATE : 01-01-95
CUSTOMER : BRITO OIL COMPANY
WELL : 1-23 TEST: 2
ELEVATION: 2929 K.B.
SECTION : 23
RANGE : 33W COUNTY: LOGAN
GAUGE SN#: 13760 RANGE : 3950
TICKET : 20409
LEASE : NICKELSON
GEOLOGIST: FUNK
FORMATION: LKC-J
TOWNSHIP : 11
STATE : KS
CLOCK : 12 HR.

WELL INFORMATION

PERFORATION INTERVAL FROM: 4270.00 ft TO: 4287.00 ft TVD: 4287.0 ft
DEPTH OF SELECTIVE ZONE: NONE TEST TYPE: OIL
DEPTH OF RECORDERS: 4273.0 ft 4276.0 ft
TEMPERATURE: 120.0
DRILL COLLAR LENGTH: 304.0 ft I.D.: 2.250 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 3946.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 17.0 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: 4265.0 ft SIZE: 6.630 in
PACKER DEPTH: 4270.0 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. : BLUE GOOSE
MUD TYPE : CHEMICAL
WEIGHT : 9.200 ppg
CHLORIDES : 4000 ppm
JARS-MAKE : NONE
DID WELL FLOW?: NO
VISCOSITY : 46.00 cp
WATER LOSS: 11.200 cc
SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD 1\4 INCH BLOW INCREASED TO
8 INCH BLOW
FINAL FLOW PERIOD 1 INCH BLOW INCREASED TO 8 INCH

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

BLOW

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
0.0	0.0	0.0	0.0	0.0	315 FT. GAS ABOVE FLUID
100.0	95.0	5.0	0.0	0.0	CLEAN GASSY OIL
65.0	5.0	0.0	0.0	95.0	OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.4831 STB	TOTAL FLOW TIME:	75.0000 min.
GAS VOLUME:	0.1381 SCF	AVERAGE OIL RATE:	15.1065 STB/D
MUD VOLUME:	0.3037 STB	AVERAGE WATER RATE:	0.0000 STB/D
WATER VOLUME:	0.0000 STB		
TOTAL FLUID :	0.7868 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2105.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	58.00	58.00
INITIAL SHUT-IN	60.00		731.00
FINAL FLOW	45.00	78.00	78.00
FINAL SHUT-IN	90.00		707.00

FINAL HYDROSTATIC PRESSURE: 2035.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2110.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	61.00	61.00
INITIAL SHUT-IN	60.00		741.00
FINAL FLOW	45.00	87.00	87.00
FINAL SHUT-IN	90.00		726.00
FINAL HYDROSTATIC PRESSURE:	2053.00		

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 01-01-95	TICKET	: 20409
CUSTOMER	: BRITO OIL COMPANY	LEASE	: NICKELSON
WELL	: 1-23	TEST:	2
ELEVATION:	2929 K.B.	GEOLOGIST:	FUNK
SECTION	: 23	FORMATION:	LKC-J
RANGE	: 33W	COUNTY:	LOGAN
GAUGE SN#:	13760	RANGE	: 3950
		STATE	: KS
		CLOCK	: 12 HR.

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	61.00	61.00
5.00	61.00	0.00
10.00	61.00	0.00
15.00	61.00	0.00
20.00	61.00	0.00
25.00	61.00	0.00
30.00	61.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	97.00	97.00	11.00
6.00	136.00	39.00	6.00
9.00	220.00	84.00	4.33
12.00	361.00	141.00	3.50
15.00	507.00	146.00	3.00
18.00	585.00	78.00	2.67
21.00	624.00	39.00	2.43
24.00	649.00	25.00	2.25
27.00	667.00	18.00	2.11
30.00	678.00	11.00	2.00
33.00	690.00	12.00	1.91
36.00	702.00	12.00	1.83
39.00	709.00	7.00	1.77
42.00	717.00	8.00	1.71
45.00	724.00	7.00	1.67
48.00	731.00	7.00	1.63
51.00	734.00	3.00	1.59
54.00	737.00	3.00	1.56
57.00	739.00	2.00	1.53

PRESSURE TRANSIENT REPORT (CONTINUED)

INITIAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	741.00	2.00	1.50

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	87.00	87.00
5.00	87.00	0.00
10.00	87.00	0.00
15.00	87.00	0.00
20.00	87.00	0.00
25.00	87.00	0.00
30.00	87.00	0.00
35.00	87.00	0.00
40.00	87.00	0.00
45.00	87.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	114.00	114.00	16.00
6.00	156.00	42.00	8.50
9.00	244.00	88.00	6.00
12.00	361.00	117.00	4.75
15.00	458.00	97.00	4.00
18.00	517.00	59.00	3.50
21.00	566.00	49.00	3.14
24.00	591.00	25.00	2.88
27.00	610.00	19.00	2.67
30.00	628.00	18.00	2.50
33.00	642.00	14.00	2.36
36.00	653.00	11.00	2.25
39.00	663.00	10.00	2.15
42.00	671.00	8.00	2.07
45.00	678.00	7.00	2.00
48.00	682.00	4.00	1.94
51.00	686.00	4.00	1.88
54.00	690.00	4.00	1.83
57.00	694.00	4.00	1.79

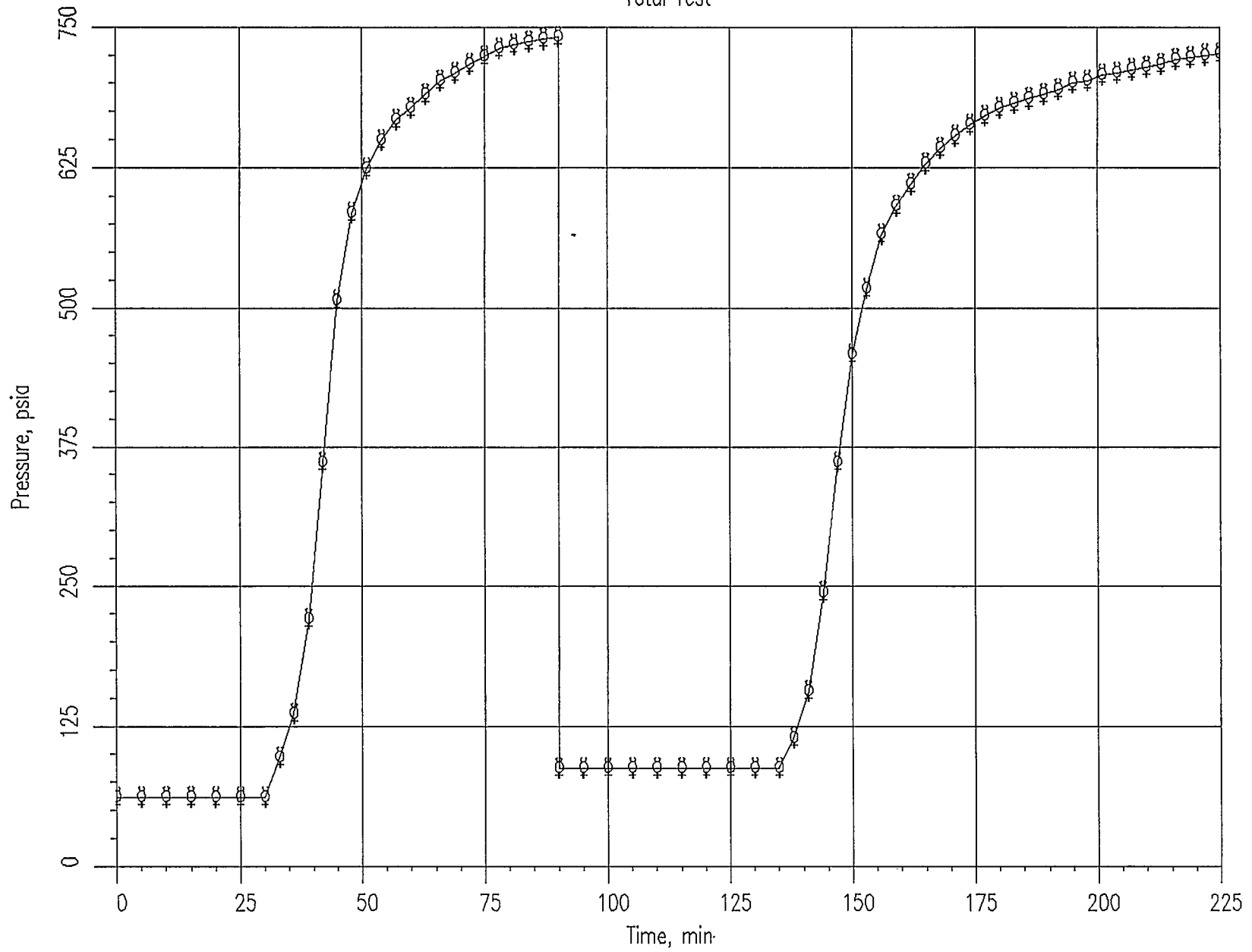
PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
60.00	700.00	6.00	1.75
63.00	702.00	2.00	1.71
66.00	707.00	5.00	1.68
69.00	709.00	2.00	1.65
72.00	712.00	3.00	1.63
75.00	714.00	2.00	1.60
78.00	717.00	3.00	1.58
81.00	721.00	4.00	1.56
84.00	723.00	2.00	1.54
87.00	725.00	2.00	1.52
90.00	726.00	1.00	1.50

Profile Plot

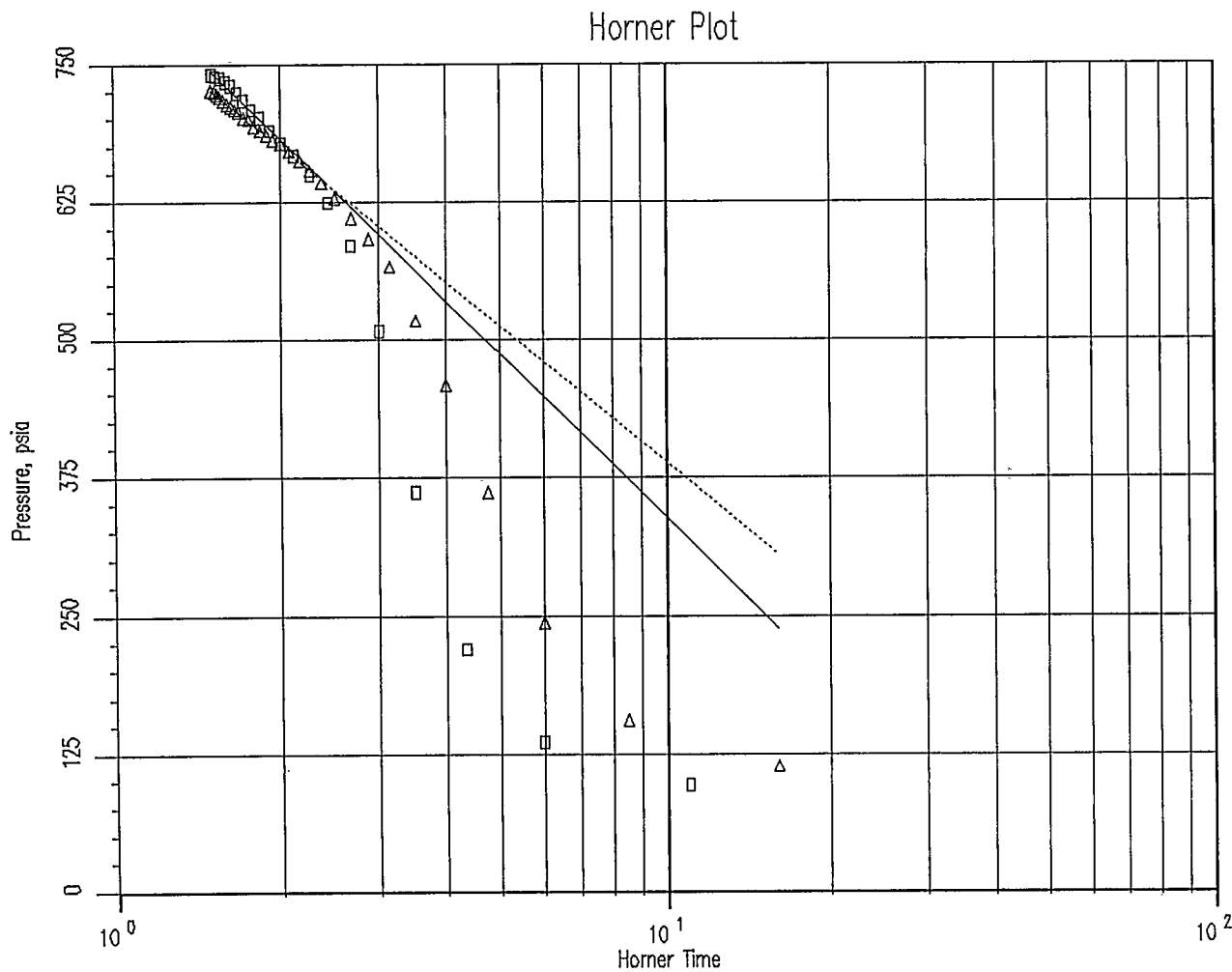
Total Test



DATE 01-01-95
 CUSTOMER BRITO OIL COMPANY
 WELL 1-23
 ELEVATION 2929 K.B.
 SECTION 23
 RANGE 33W
 GAUGE SN# 13760

TEST 2
 COUNTY LOGAN
 RANGE 3950

TICKET 20409
 LEASE NICKELSON
 GEOLOGIST FUNK
 FORMATION LKC-J
 TOWNSHIP 11
 STATE KS
 CLOCK 12 HR.



Result

	#1	#2
tp, hrs	0.50	0.75
Slope	-492.70	-410.03
Pstar, psig	831.34	798.69
P1hr, psig	744.58	699.04
Skin	0.03	-0.06
k, md	0.84	1.01
kh/u, md-ft/cp	3.32	3.99
ri, ft	2.57	3.45
DR, %	0.76	0.78
Drawdown Factor, %		2.024
Drawdown P*, %		3.928

— BUILD 1
 BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 01-01-95	TICKET : 20409
CUSTOMER : BRITO OIL COMPANY	LEASE : NICKELSON
WELL : 1-23 TEST: 2	GEOLOGIST: FUNK
ELEVATION: 2929 K.B.	FORMATION: LKC-J
SECTION : 23	TOWNSHIP : 11
RANGE : 33W COUNTY: LOGAN	STATE : KS
GAUGE SN#: 13760 RANGE : 3950	CLOCK : 12 HR.

Input Data

Porosity 0.100 Rw: 0.328 ft h: 5.000 ft

qo 9.3 STB GOR 157.5 SCF/STB

Pvt Data

Evalutation Pressure : 741.0
 Evalutation Temperature: 120.0

Oil Grav 38.00 API	Gas Grav 0.65 API	Pb 741.00 PSIA
Bo 1.084 RBL/STB	Vis 1.000 cp	Ct 5.2871E-004 1/PSI

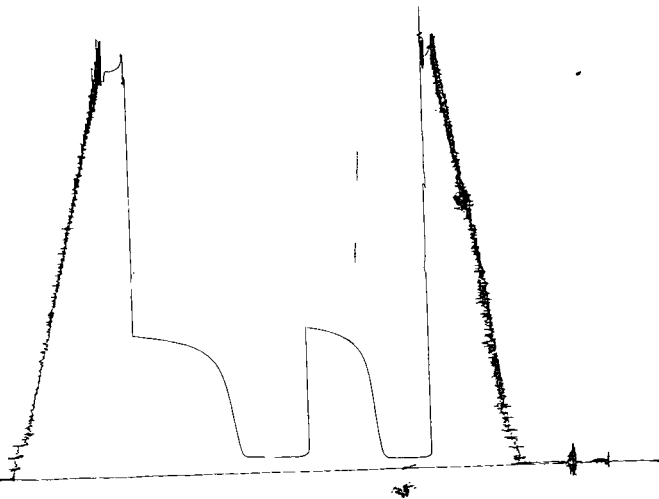
Horner Results

	Inital Shut-In	Final Shut-In
pseudo pressure time	0.50 hrs	0.75 hrs
slope	-492.70	-410.03
pstar	831.34 psig	798.69 psig
plhr	744.58 psig	699.04 psig
skin	0.03	-0.06
permeability	0.84 md	1.01 md
transmisability	3.32 md-ft/cp	3.99 md-ft/cp
radius of investigation	2.57 ft	3.45 ft
Damage-Ratio	0.76 percent	0.78 percent
Drawdown Factor		2.024 percent
Drawdown P*		3.928 percent

13400

TK4 20409

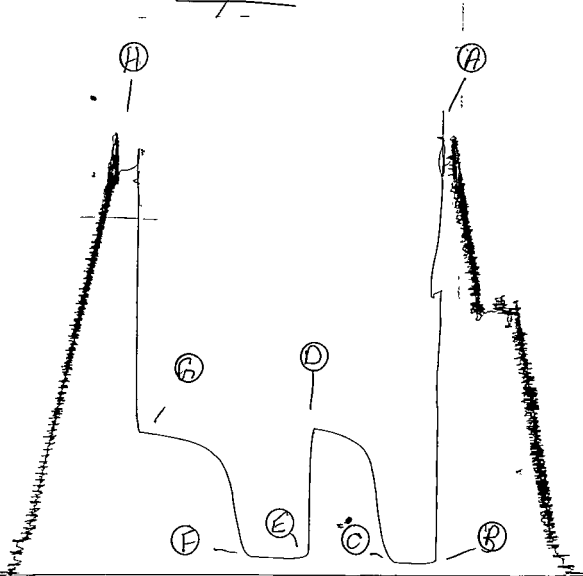
0



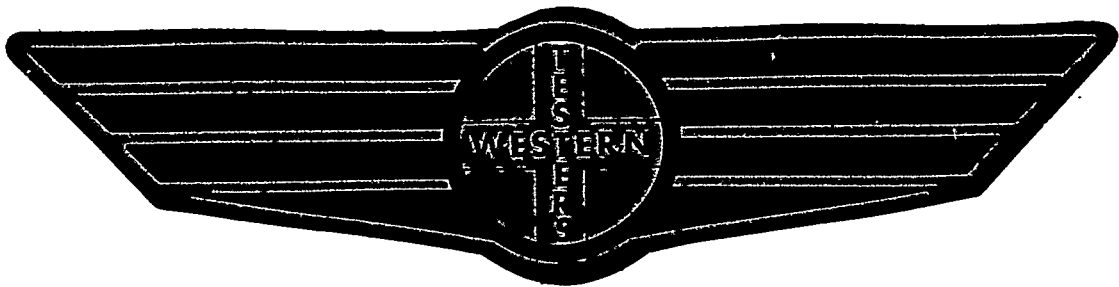
B900

KT 20409

7



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

COMPANY

BRITO OIL COMPANY

LEASE & WELL NO. #1-23 NICKELSON

SEC. 23 TWP. 11S RGE. 33W TEST NO.

3 DATE

1/3/95

DST REPORT

GENERAL INFORMATION

DATE : 1-03-95
CUSTOMER : BRITO OIL COMPANY
WELL : 1-23 TEST: 3
ELEVATION: 3129 K.B.
SECTION : 23
RANGE : 33W COUNTY: LOGAN
GAUGE SN#: 13760 RANGE : 3950
TICKET : 20694
LEASE : NICKELSON
GEOLOGIST: FUNK
FORMATION: JOHNSON
TOWNSHIP : 11S
STATE : KS
CLOCK : 12 HR.

WELL INFORMATION

PERFORATION INTERVAL FROM: 4581.00 ft TO: 4650.00 ft TVD: 4650.0 ft
DEPTH OF SELECTIVE ZONE: NONE TEST TYPE: OIL
DEPTH OF RECORDERS: 4576.0 ft 4581.0 ft
TEMPERATURE: 121.0
DRILL COLLAR LENGTH: 300.0 ft I.D.: 2.200 in
WEIGHT PIPE LENGTH : 0.0 ft I.D.: 0.000 in
DRILL PIPE LENGTH : 4261.0 ft I.D.: 3.800 in
TEST TOOL LENGTH : 20.0 ft TOOL SIZE : 5.500 in
ANCHOR LENGTH : 69.0 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: 4576.0 ft SIZE: 6.630 in
PACKER DEPTH: 4581.0 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. : BLUE GOOSE
MUD TYPE : CHEMICAL
WEIGHT : 9.500 ppg
CHLORIDES : 5000 ppm
JARS-MAKE : NONE
DID WELL FLOW?: NO
VISCOSITY : 48.00 cp
WATER LOSS: 12.000 cc
SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD VERY WEAK BLOW DIED IN 10
MINUTES. FINAL FLOW PERIOD NO BLOW.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
5.0	0.0	0.0	0.0	100.0	DRILLING MUD

RATE INFORMATION

OIL VOLUME:	0.0000 STB	TOTAL FLOW TIME:	60.0000 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: 2240.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	33.00	35.00
INITIAL SHUT-IN	30.00		55.00
FINAL FLOW	30.00	35.00	35.00
FINAL SHUT-IN	30.00		40.00

FINAL HYDROSTATIC PRESSURE: 2210.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 2289.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	41.00	41.00
INITIAL SHUT-IN	27.00		62.00
FINAL FLOW	30.00	42.00	42.00
FINAL SHUT-IN	36.00		53.00

FINAL HYDROSTATIC PRESSURE: 2272.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 1-03-95	TICKET	: 20694
CUSTOMER	: BRITO OIL COMPANY	LEASE	: NICKELSON
WELL	: 1-23	TEST:	3
ELEVATION:	3129 K.B.	GEOLOGIST:	FUNK
SECTION	: 23	FORMATION:	JOHNSON
RANGE	: 33W	TOWNSHIP	: 11S
GAUGE SN#:	13760	STATE	: KS
		CLOCK	: 12 HR.
		COUNTY:	LOGAN
		RANGE	: 3950

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	41.00	41.00
5.00	41.00	0.00
10.00	41.00	0.00
15.00	41.00	0.00
20.00	41.00	0.00
25.00	41.00	0.00
30.00	41.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	41.00	41.00	0.00
6.00	42.00	1.00	0.00
9.00	44.00	2.00	0.00
12.00	45.00	1.00	0.00
15.00	49.00	4.00	0.00
18.00	51.00	2.00	0.00
21.00	54.00	3.00	0.00
24.00	58.00	4.00	0.00
27.00	62.00	4.00	0.00

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	42.00	42.00
5.00	42.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW (CONTINUED)

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
10.00	42.00	0.00
15.00	42.00	0.00
20.00	42.00	0.00
25.00	42.00	0.00
30.00	42.00	0.00

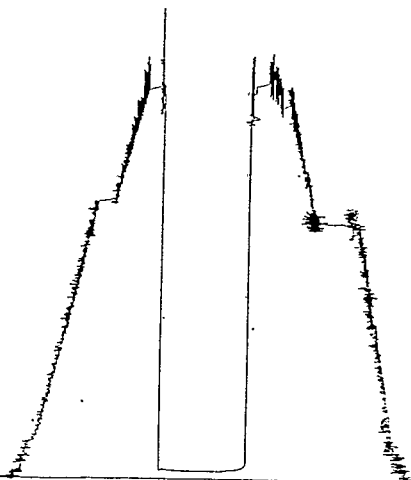
FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	42.00	42.00	0.00
6.00	42.00	0.00	0.00
9.00	42.00	0.00	0.00
12.00	42.00	0.00	0.00
15.00	42.00	0.00	0.00
18.00	43.00	1.00	0.00
21.00	44.00	1.00	0.00
24.00	45.00	1.00	0.00
27.00	46.00	1.00	0.00
30.00	48.00	2.00	0.00
33.00	51.00	3.00	0.00
36.00	53.00	2.00	0.00

13460

Ticket # 20408

0



DST # 3 RBC # 11012

Ticket # 20694

5

I

