

API #15-165-21634-0000

DST #1 3824'-3865' Arbuckle
30-30

IFP 22-22# ISIP 278

Rec 2' CM Pipe strap 1.64' short.

DST #2 3,825'-3,872' Arbuckle
30-45-60-90

Rec. 550' CGO (37%), 360' MO (70% oil, 20% mud, 10% gas)

IFP 67-187 ISIP 914

FFP 226-338 FSIP 825

Retest:

DST #3 3,825'-3,872' Arbuckle
30-45-60-150

Rec. 60' GIP, 570' CGO (37%), 240 GMCO (65% oil, 25% mud, 10% gas)
no water

IFP 55-178 ISIP 800

FFP 214-304 FSIP 790

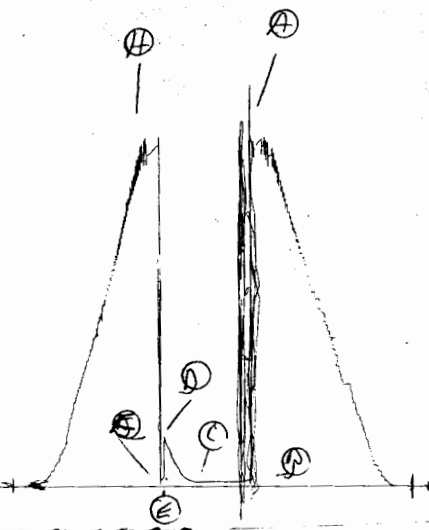
RECEIVED
STATE CORPORATION COMMISSION

OCT 01 1993
10-1-93
CONSERVATION DIVISION
Wichita, Kansas

RSC #11018 DSR #1 INSIDE

JK 19/27

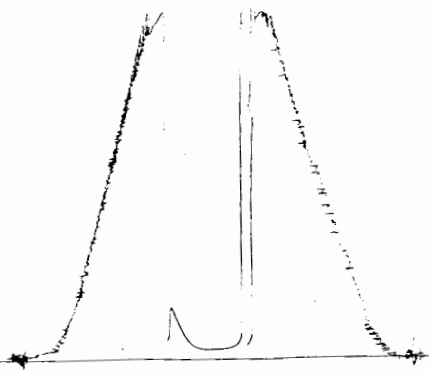
I



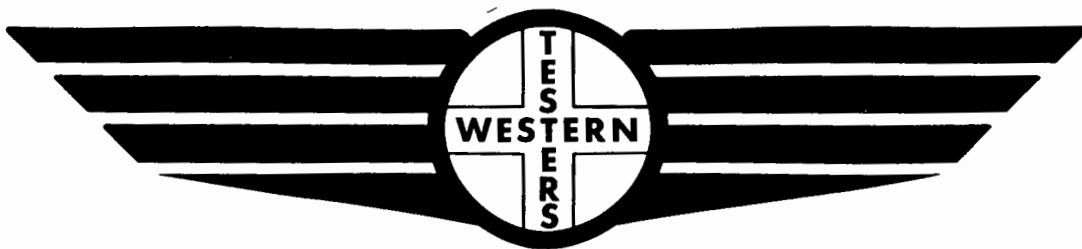
RSC #13629 DSR #1 OUTSIDE

JK 19/27

D



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY BRITO OIL COMPANY

LEASE & WELL NO. #1-4 OWENS

SEC. 4 TWP. 19S RGE. 17W TEST NO. 1 DATE 7/16/93



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No 19127

P. O. BOX 1599 PHONE (316) 262-5861

Elevation 2114 K.B Formation ARBuckle Eff. Pay Ft.

WICHITA, KANSAS 67201

District GRAND BOND Date 7/16/93 Customer Order No.

COMPANY NAME BRITO OIL CO

ADDRESS

LEASE AND WELL NO. OWENS #1-4 COUNTY RLDH STATE KS Sec. 4 Twp. 19S Rge 17W

Mail Invoice To SAME #1-4 DUKAS No. Copies Requested 806
Co. Name Address

Mail Charts To SAME No. Copies Requested 806
Address

Formation Test No. 1 Interval Tested From 3824 ft. to 3865 ft. Total Depth 3865 ft.

Packer Depth 3819 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3824 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3812 ft. Recorder Number 11018 REAO Cap. 4400

Bottom Recorder Depth (Outside) 3863 ft. Recorder Number 13429 Cap. 4425

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor MURFIN DRILLING #20 Drill Collar Length 350 I. D. 2.25 in.

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

Weight 7.4 Water Loss cc. Drill Pipe Length 3450 I. D. 3.50 in.

Chlorides P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 in.

Jars: Make NOT RAN Serial Number Anchor Length 41 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 2 7/8 in. Tool Joint Size 4 1/2 in.

Blow: 1ST FLOW: WEAK BLOW DEAD IN 1 MINUTE FLUSHED TOOL & RECEIVED WEAK SURGE
2ND FLOW: NOT RAN

Recovered 2 ft. of OIL CUT MUD

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

JUL 20 1993

Chlorides P.P.M. Sample Jars used 0 Remarks:

Time On Location 9:00 AM Time Pick Up Tool 10:00 AM Time Off Location 3:00 AM

Time Set Packer(s) 11:45 AM Time Started Off Bottom 12:45 AM Maximum Temperature 110'

Initial Hydrostatic Pressure (A) 1922 P.S.I.

Initial Flow Period 30 Minutes (B) 22 P.S.I. to (C) 22 P.S.I.

Initial Closed In Period 30 Minutes (D) 278 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) 1294 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
Signature of Customer or his authorized representative

Western Representative

John Bick

FIELD INVOICE

Open Hole Test \$ ✓
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$

WESTERN TESTING CO., INC.

Pressure Data

Date 7-16-82 Test Ticket No. 19127
 Recorder No. 11018 Capacity _____ Location _____ Ft. _____
 Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1971</u> P.S.I.		M
B First Initial Flow Pressure	<u>46</u> P.S.I.		Mins <u>30</u> Mins
C First Final Flow Pressure	<u>29</u> P.S.I.		Mins <u>30</u> Mins
D Initial Closed-in Pressure	<u>283</u> P.S.I.		Mins <u>5</u> Mins
E Second Initial Flow Pressure	<u>52</u> P.S.I.		Mins _____ Mins
F Second Final Flow Pressure	<u>32</u> P.S.I.		Mins _____ Mins
G Final Closed-in Pressure	_____ P.S.I.		
H Final Hydrostatic Mud	<u>1952</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>46</u>	0	<u>29</u>	0	<u>52</u>	0	
P 2 5	<u>29</u>	3	<u>29</u>	5	<u>52</u>	3	
P 3 10	<u>28</u>	6	<u>29</u>	10		6	
P 4 15	<u>29</u>	9	<u>29</u>	15		9	
P 5 20	<u>29</u>	12	<u>29</u>	20		12	
P 6 25	<u>29</u>	15	<u>36</u>	25		15	
P 7 30	<u>29</u>	18	<u>48</u>	30		18	
P 8 35		21	<u>67</u>	35		21	
P 9 40		24	<u>102</u>	40		24	
P10 45		27	<u>139</u>	45		27	
P11 50		30	<u>202</u>	50		30	
P12 55		33	<u>239</u>	55		33	
P13 60		36	<u>283</u>	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	

DST REPORT

GENERAL INFORMATION

DATE : 7/16/93
CUSTOMER : BRITO OIL COMPANY
WELL : #1-4 TEST: 1
ELEVATION: 2114 K.B.
SECTION : 4
RANGE : 17W COUNTY: RUSH
GAUGE SN#: 11018 RANGE : 4400

TICKET : 19127
LEASE : OWENS
GEOLOGIST: BRITO
FORMATION: ARBUCKLE
TOWNSHIP : 19S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3824.00 ft TO: 3865.00 ft TVD: 3865.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3812.0 ft 3862.0 ft
TEMPERATURE: 110.0

DRILL COLLAR LENGTH:	350.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3450.0 ft	I.D.:	3.500 in
TEST TOOL LENGTH :	24.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	41.0 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:	3819.0 ft	SIZE:	6.750 in
PACKER DEPTH:	3824.0 ft	SIZE:	6.750 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN DRILLING #20
MUD TYPE : CHEMICAL
WEIGHT : 9.400 ppg
CHLORIDES : 0 ppm
JARS-MAKE : NO
DID WELL FLOW?: NO

VISCOSITY : 47.00 cp
WATER LOSS: 0.000 cc

SERIAL NUMBER: NO
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW - DEAD IN 1 MINUTE
FLUSHED TOOL - RECEIVED WEAK SURGE.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
2.0	10.0	0.0	0.0	90.0	OIL CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0010	STB	TOTAL FLOW TIME:	35.0000	min.
GAS VOLUME:	0.0000	SCF	AVERAGE OIL RATE:	0.4046	STB/D
MUD VOLUME:	0.0089	STB	AVERAGE WATER RATE:	0.0000	STB/D
WATER VOLUME:	0.0000	STB			
TOTAL FLUID :	0.0098	STB			

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1922.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	22.00	22.00
INITIAL SHUT-IN	30.00		278.00
FINAL FLOW	0.00	0.00	0.00
FINAL SHUT-IN	0.00		0.00

FINAL HYDROSTATIC PRESSURE: 1894.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1971.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	46.00	29.00
INITIAL SHUT-IN	36.00		283.00
FINAL FLOW	5.00	52.00	33.00

FINAL HYDROSTATIC PRESSURE: 1952.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 7/16/93	TICKET : 19127
CUSTOMER : BRITO OIL COMPANY	LEASE : OWENS
WELL : #1-4 TEST: 1	GEOLOGIST: BRITO
ELEVATION: 2114 K.B.	FORMATION: ARBUCKLE
SECTION : 4	TOWNSHIP : 19S
RANGE : 17W COUNTY: RUSH	STATE : KS
GAUGE SN#: 11018 RANGE : 4400	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	46.00	46.00
5.00	29.00	-17.00
10.00	28.00	-1.00
15.00	29.00	1.00
20.00	29.00	0.00
25.00	29.00	0.00
30.00	29.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	29.00	29.00	0.00
6.00	29.00	0.00	0.00
9.00	29.00	0.00	0.00
12.00	29.00	0.00	0.00
15.00	36.00	7.00	0.00
18.00	48.00	12.00	0.00
21.00	67.00	19.00	0.00
24.00	107.00	40.00	0.00
27.00	139.00	32.00	0.00
30.00	202.00	63.00	0.00
33.00	239.00	37.00	0.00
36.00	283.00	44.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	52.00	52.00
5.00	33.00	-19.00

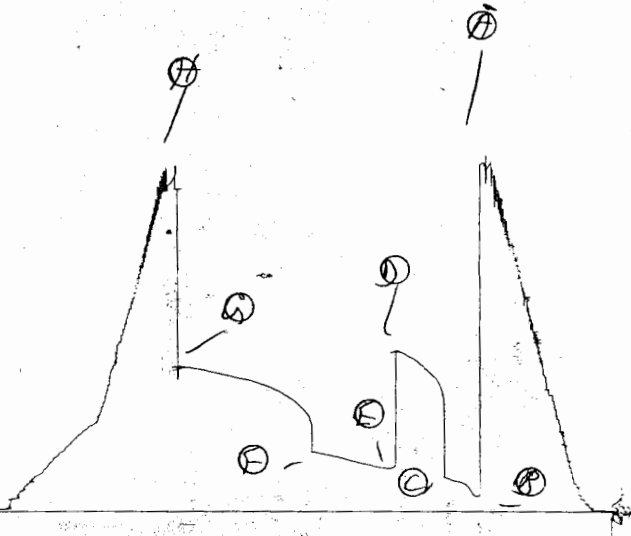
FINAL SHUT IN

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

REC #1100 DST #2 INSIDE

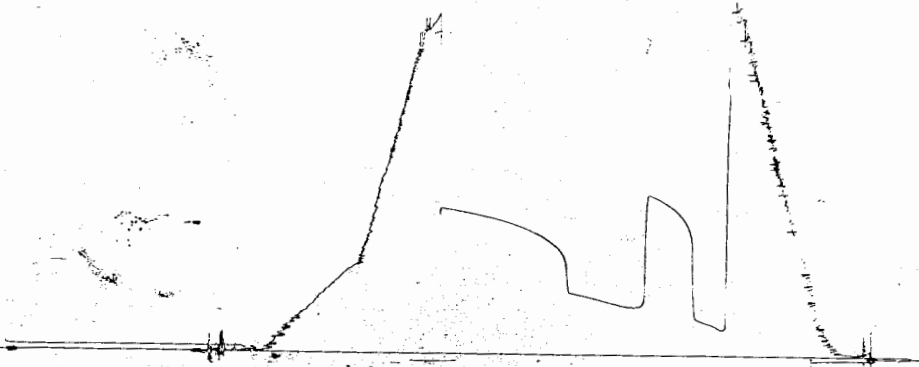
KT 19/28

I

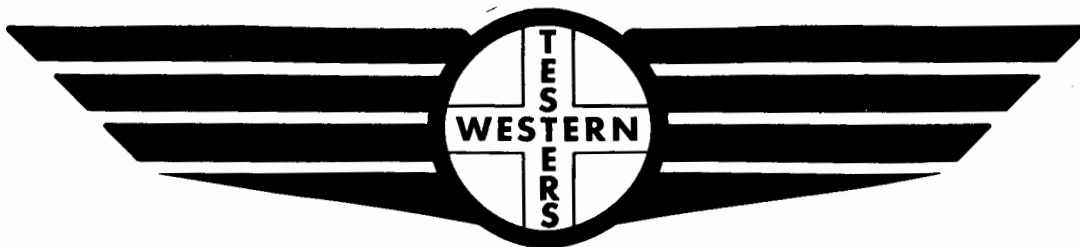


KT 19/28

①



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

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

COMPANY BRITO OIL COMPANY

LEASE & WELL NO. #1-4 OWENS

SEC. 4 TWP. 19S RGE. 17W TEST NO. 2 DATE 7/17/93

DST REPORT

GENERAL INFORMATION

DATE : 7-17-93
CUSTOMER : BRITO OIL COMPANY
WELL : #1-4 TEST: 2
ELEVATION: 2114 K.B.
SECTION : 4
RANGE : 17W COUNTY: RUSH
GAUGE SN#: 11018 RANGE : 4400

TICKET : 19128
LEASE : OWENS
GEOLOGIST:
FORMATION: ARBUCKLE
TOWNSHIP : 19S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3825.00 ft TO: 3872.00 ft TVD: 3872.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3828.0 ft 3869.0 ft
TEMPERATURE: 112.0

DRILL COLLAR LENGTH:	350.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3451.0 ft	I.D.:	3.500 in
TEST TOOL LENGTH :	24.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	47.0 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:	3820.0 ft	SIZE:	6.750 in
PACKER DEPTH:	3825.0 ft	SIZE:	6.750 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN DRILLING #20
MUD TYPE : CHEMICAL
WEIGHT : 9.400 ppg
CHLORIDES : 2000 ppm
JARS-MAKE : NO
DID WELL FLOW?: NO

VISCOSITY : 44.00 cp
WATER LOSS: 12.400 cc
SERIAL NUMBER: NO
REVERSED OUT?: NO

COMMENTS

Comment

STRONG BLOW BOTTOM OF BUCKET IN 6 MINUTES - 2"
BLOWBACK ON INITIAL FLOW PERIOD. STRONG BLOW OFF
BOTTOM OF BUCKET IN 9 MINUTES DECREASING TO 1" BY

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

END OF FINAL FLOW PERIOD-NO BLOW BACK.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
550.0	100.0	0.0	0.0	0.0	CLEAN OIL
360.0	70.0	10.0	0.0	20.0	MUD & GAS CUT OIL
0.0	0.0	0.0	0.0	0.0	37 GRAVITY AT 60 DEG. F.
0.0	0.0	0.0	0.0	0.0	300 FT GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	7.8326 STB	
GAS VOLUME:	1.0332 SCF	
MUD VOLUME:	0.3680 STB	
WATER VOLUME:	0.0000 STB	
TOTAL FLUID :	8.2006 STB	
		TOTAL FLOW TIME: 90.0000 min.
		AVERAGE OIL RATE: 131.2096 STB/D
		AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1944.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	67.00	187.00
INITIAL SHUT-IN	45.00		914.00
FINAL FLOW	60.00	226.00	338.00
FINAL SHUT-IN	90.00		825.00

FINAL HYDROSTATIC PRESSURE: 1890.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1941.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	97.00	199.00
INITIAL SHUT-IN	45.00		925.00
FINAL FLOW	60.00	260.00	342.00
FINAL SHUT-IN	90.00		821.00

FINAL HYDROSTATIC PRESSURE: 1894.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 7-17-93	TICKET : 19128
CUSTOMER : BRITO OIL COMPANY	LEASE : OWENS
WELL : #1-4 TEST: 2	GEOLOGIST:
ELEVATION: 2114 K.B.	FORMATION: ARBUCKLE
SECTION : 4	TOWNSHIP : 19S
RANGE : 17W COUNTY: RUSH	STATE : KS
GAUGE SN#: 11018 RANGE : 4400	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	97.00	97.00
5.00	86.00	-11.00
10.00	132.00	46.00
15.00	166.00	34.00
20.00	181.00	15.00
25.00	188.00	7.00
30.00	199.00	11.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	673.00	673.00	11.00
6.00	744.00	71.00	6.00
9.00	766.00	22.00	4.33
12.00	798.00	32.00	3.50
15.00	806.00	8.00	3.00
18.00	832.00	26.00	2.67
21.00	845.00	13.00	2.43
24.00	869.00	24.00	2.25
27.00	878.00	9.00	2.11
30.00	887.00	9.00	2.00
33.00	895.00	8.00	1.91
36.00	907.00	12.00	1.83
39.00	914.00	7.00	1.77
42.00	920.00	6.00	1.71
45.00	925.00	5.00	1.67

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	260.00	260.00
5.00	248.00	-12.00
10.00	253.00	5.00
15.00	258.00	5.00
20.00	268.00	10.00
25.00	275.00	7.00
30.00	283.00	8.00
35.00	296.00	13.00
40.00	304.00	8.00
45.00	320.00	16.00
50.00	331.00	11.00
55.00	335.00	4.00
60.00	342.00	7.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	430.00	430.00	21.00
6.00	558.00	128.00	11.00
9.00	630.00	72.00	7.67
12.00	652.00	22.00	6.00
15.00	662.00	10.00	5.00
18.00	681.00	19.00	4.33
21.00	695.00	14.00	3.86
24.00	700.00	5.00	3.50
27.00	706.00	6.00	3.22
30.00	714.00	8.00	3.00
33.00	723.00	9.00	2.82
36.00	732.00	9.00	2.67
39.00	740.00	8.00	2.54
42.00	748.00	8.00	2.43
45.00	756.00	8.00	2.33
48.00	763.00	7.00	2.25
51.00	769.00	6.00	2.18
54.00	775.00	6.00	2.11
57.00	780.00	5.00	2.05
60.00	785.00	5.00	2.00
63.00	790.00	5.00	1.95
66.00	795.00	5.00	1.91
69.00	798.00	3.00	1.87
72.00	802.00	4.00	1.83
75.00	805.00	3.00	1.80

PRESSURE TRANSIENT REPORT (CONTINUED)

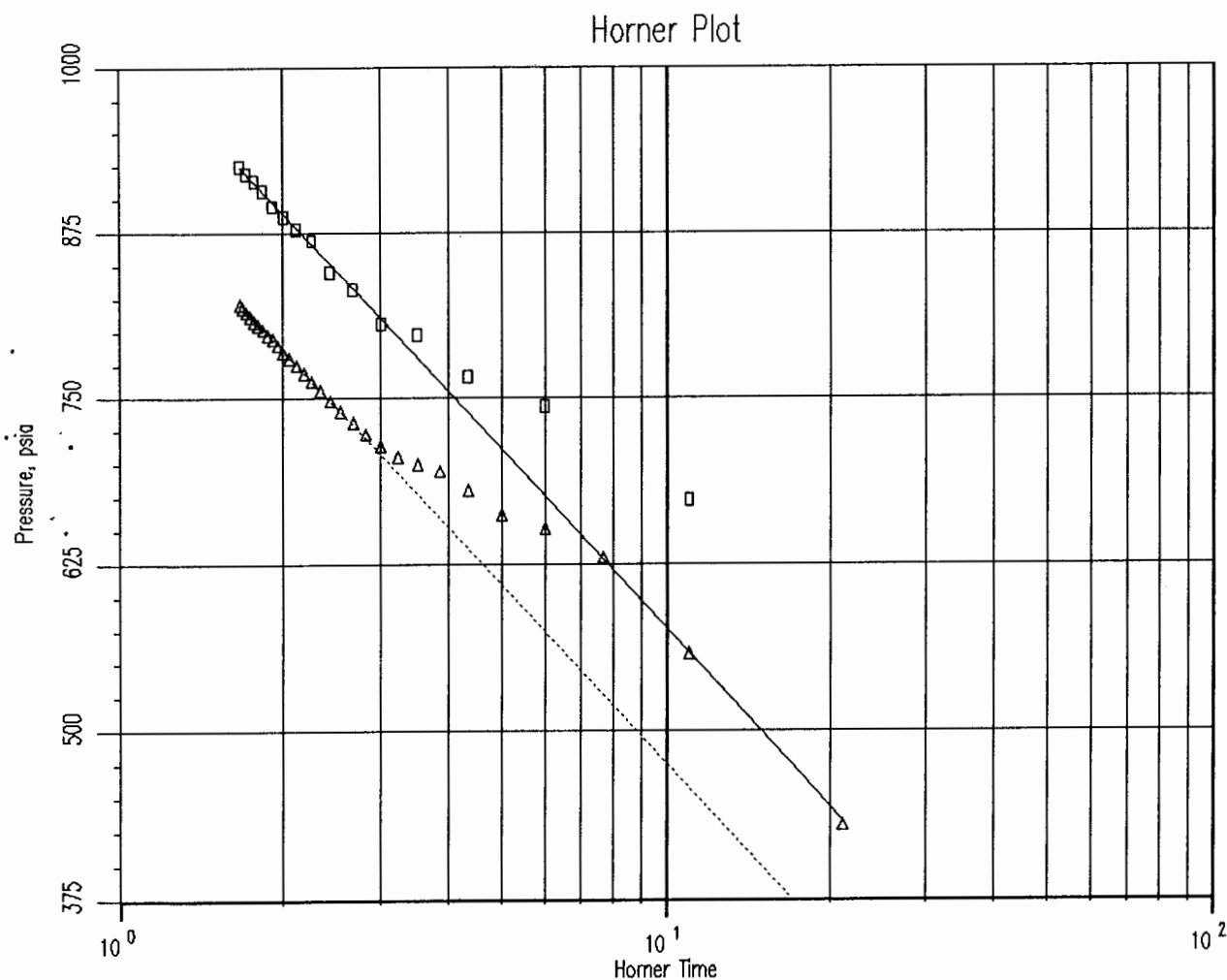
FINAL SHUT IN (CONTINUED)

<u>Time</u> <u>(min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
78.00	808.00	3.00	1.77
81.00	812.00	4.00	1.74
84.00	815.00	3.00	1.71
87.00	818.00	3.00	1.69
90.00	821.00	3.00	1.67

DATE 7-17-93
 CUSTOMER BRITO OIL COMPANY
 WELL #1-4
 ELEVATION 2114 K.B.
 SECTION 4
 RANGE 17W
 GAUGE SN# 11018

TEST 2
 COUNTY RUSH
 RANGE 4400

TICKET 19128
 LEASE OWENS
 GEOLOGIST
 FORMATION ARBUCKLE
 TOWNSHIP 19S
 STATE KS
 CLOCK 12



Result

	#1	#2
tp, hrs	0.50	1.00
Slope	-446.97	-442.67
Pstar, psig	1023.72	918.55
P1hr, psig	945.01	785.29
Skin	4.05	3.07
k, md	8.89	8.97
kh/u, md-ft/cp	48.18	48.65
ri, ft	0.06	0.09
DR, %	-1.22	-0.73
Drawdown Factor, %		11.243
Drawdown P*, %		10.273

— BUILD 1

..... BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 7-17-93	TICKET : 19128
CUSTOMER : BRITO OIL COMPANY	LEASE : OWENS
WELL : #1-4 TEST: 2	GEOLOGIST:
ELEVATION: 2114 K.B.	FORMATION: ARBUCKLE
SECTION : 4	TOWNSHIP : 19S
RANGE : 17W COUNTY: RUSH	STATE : KS
GAUGE SN#: 11018 RANGE : 4400	CLOCK : 12

Input Data

Porosity 0.800 Rw: 0.328 ft h: 7.000 ft

qo 120.7 STB GOR 202.7 SCF/STB

Pvt Data

Evalutation Pressure : 925.0

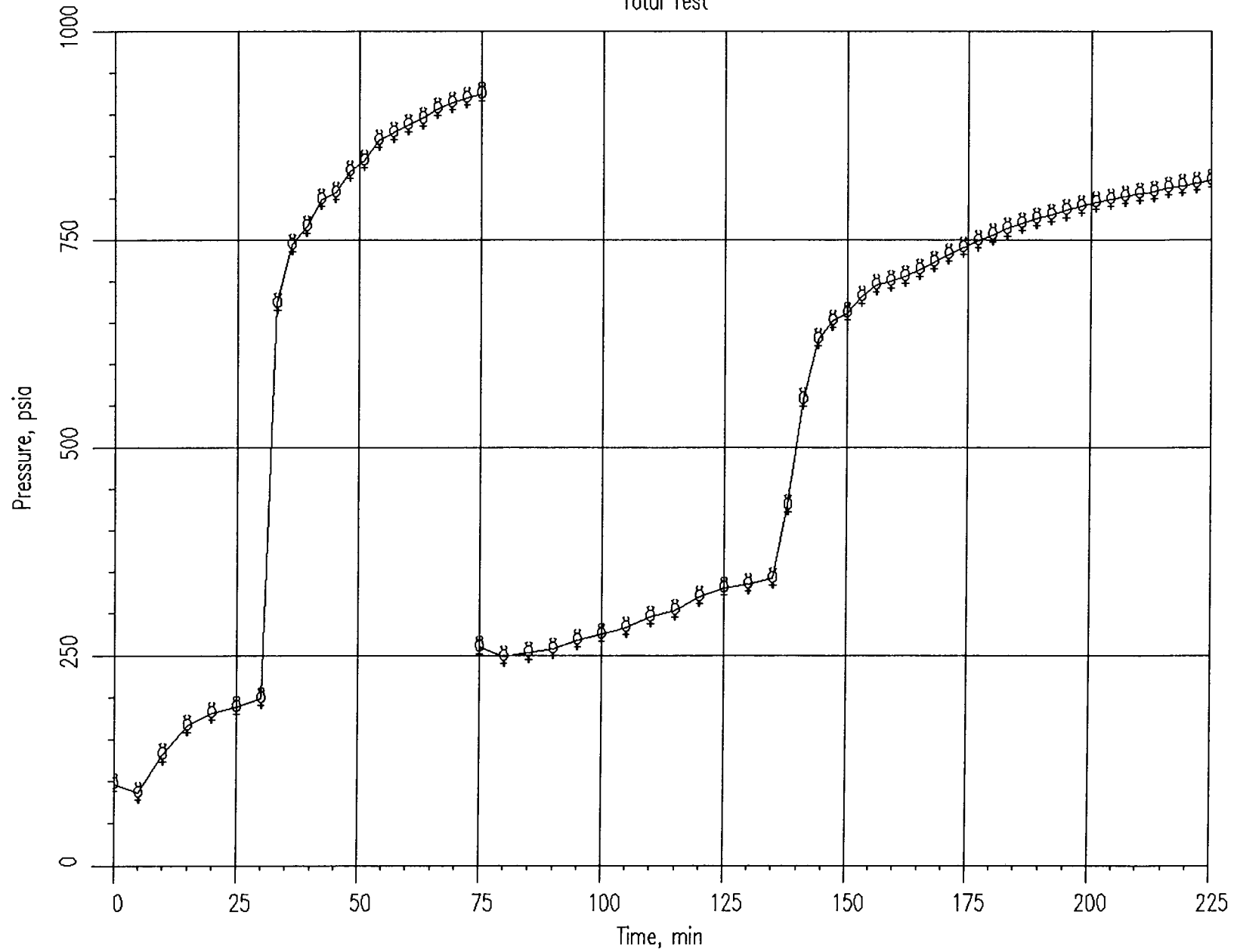
Evalutation Temperature: 112.0

Oil Grav 37.00 API	Gas Grav 0.65 API	Pb 925.00 PSIA
Bo 1.097 RBL/STB	Vis 1.000 cp	Ct 1.0986E+000 1/PSI

Horner Results

	Initial Shut-In	Final Shut-In
pseudo pressure time	0.50 hrs	1.00 hrs
slope	-446.97	-442.67
pstar	1023.72 psig	918.55 psig
plhr	945.01 psig	785.29 psig
skin	4.05	3.07
permeability	8.89 md	8.97 md
transmisability	48.18 md-ft/cp	48.65 md-ft/cp
radius of investigation	0.06 ft	0.09 ft
Damage-Ratio	-1.2 percent	-0.73 percent
Drawdown Factor		11.243 percent
Drawdown P*		10.273 percent

Profile Plot
Total Test





WESTERN TESTING CO., INC.
FORMATION TESTING

No 19128

TICKET

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

Elevation 2114 K.B Formation ARBUCKLE Eff. Pay _____ Ft.

District GREAT BOND Date 7/17/93 Customer Order No. _____

COMPANY NAME BRIND OIL CO.

ADDRESS _____

LEASE AND WELL NO. OWENS #1-4 COUNTY RUSH STATE KS Sec. 4 Twp. 19S Rge. 17W

Mail Invoice To SAMR #1-4 OWENS No. Copies Requested ROC
Co. Name SAMR Address _____

Mail Charts To _____ No. Copies Requested ROC
Address _____

Formation Test No. 2 Interval Tested From 3825 ft. to 3822 ft. Total Depth 3822 ft.

Packer Depth 3820 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3825 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3828 ft. Recorder Number 11018 Cap. 4408

Bottom Recorder Depth (Outside) 3849 ft. Recorder Number 13629 Cap. 4425

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

Drilling Contractor MURFIN DRILLING #20 Drill Collar Length 350 I. D. 2.25 in.

Mud Type CHEMICAL Viscosity 44 Weight Pipe Length _____ I. D. _____ in.

Weight 9.4 Water Loss 12.4 cc. Drill Pipe Length 3451 I. D. 3.5 in.

Chlorides 2,000 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 in.

Jars: Make NOT RUN Serial Number _____ Anchor Length 47 ft. Size 5 1/2 in.

Did Well Flow? NO 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 in.

Blow: 1ST FLOW: STRONG BLOW RTM BUCKET IN 4 MINUTES (2" BLOWBACK)
2ND FLOW: STRONG BLOW RTM BUCKET IN 9 MINUTES REC TO 1" BY END (NO BLOWBACK)

Recovered 550 ft. of CLEAN OIL (37% GRAVITY @ 60")

Recovered 360 ft. of MURTBAS CUT OIL (20% MVR 10% GAS 70% OIL)

Recovered 361 ft. of GAS IN FIRM AROMATIC FLUID

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used 4 Remarks: TOTAL FLOW REC 910'

JUL 20 1993

Time On Location 9:00 A.M. Time Pick Up Tool 10:30 A.M. Time Off Location 8:00 P.M.

Time Set Packer(s) 11:50 A.M. Time Started Off Bottom 3:35 A.M. Maximum Temperature 112

Initial Hydrostatic Pressure _____ (A) 1944 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 67 P.S.I. to (C) 187 P.S.I.

Initial Closed In Period _____ Minutes 45 (D) 914 P.S.I.

Final Flow Period _____ Minutes 60 (E) 226 P.S.I. to (F) 338 P.S.I.

Final Closed In Period _____ Minutes 80 (G) 825 P.S.I.

Final Hydrostatic Pressure _____ (H) 1890 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 [Signature]
Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

Open Hole Test	\$ <u>✓</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ _____
Selective Zone	\$ _____
Safety Joint	\$ _____
Standby	\$ _____
Evaluation	\$ <u>✓</u>
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage	\$ _____
Fluid Sampler	\$ _____
Extra Charts	\$ _____
Insurance	\$ _____
Telecopier	\$ <u>✓</u>
TOTAL	\$ _____

CALL ANSWERING SERVICE

WESTERN TESTING CO., INC.

Pressure Data

Date 7/17/93 CALL ANSWERING SERVICE Test Ticket No. 79128
 Recorder No. 11018 Capacity 4400 Location 3828 Ft.
 Clock No. — Elevation 2114 K.B. Well Temperature 112 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1941</u> P.S.I.	<u>50</u> Mins.	<u>30</u> Mins.
B First Initial Flow Pressure	<u>86</u> P.S.I.	<u>45</u> Mins.	<u>45</u> Mins.
C First Final Flow Pressure	<u>199</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
D Initial Closed-in Pressure	<u>925</u> P.S.I.	<u>90</u> Mins.	<u>90</u> Mins.
E Second Initial Flow Pressure	<u>248</u> P.S.I.		
F Second Final Flow Pressure	<u>342</u> P.S.I.		
G Final Closed-in Pressure	<u>821</u> P.S.I.		
H Final Hydrostatic Mud	<u>1894</u> P.S.I.		

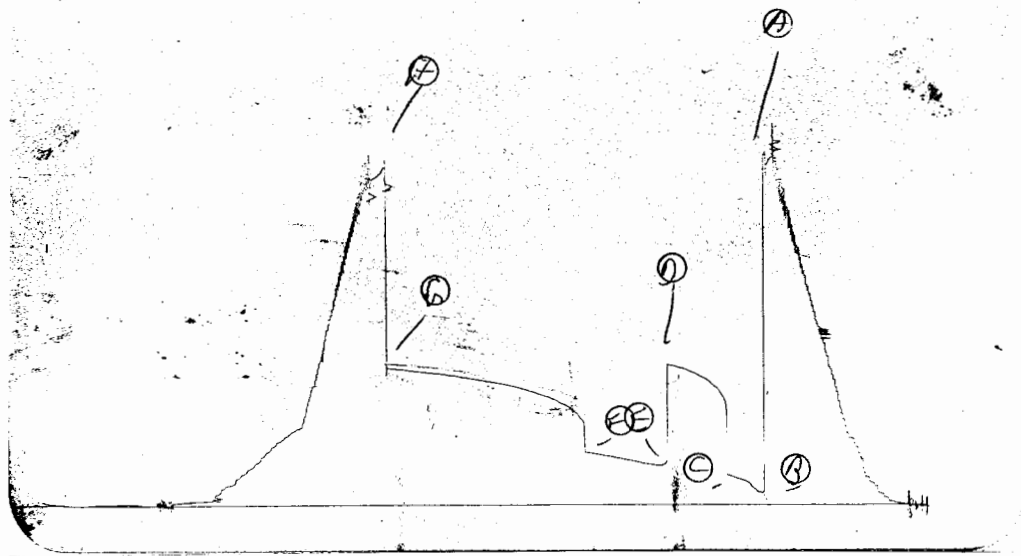
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>97</u>	<u>0</u>	<u>199</u>	<u>0</u>	<u>260</u>	<u>0</u>	<u>342</u>
P 2 <u>5</u>	<u>86</u>	<u>3</u>	<u>623</u>	<u>5</u>	<u>248</u>	<u>3</u>	<u>430</u>
P 3 <u>10</u>	<u>132</u>	<u>6</u>	<u>744</u>	<u>10</u>	<u>253</u>	<u>6</u>	<u>558</u>
P 4 <u>15</u>	<u>166</u>	<u>9</u>	<u>766</u>	<u>15</u>	<u>258</u>	<u>9</u>	<u>630</u>
P 5 <u>20</u>	<u>181</u>	<u>12</u>	<u>798</u>	<u>20</u>	<u>268</u>	<u>12</u>	<u>652</u>
P 6 <u>25</u>	<u>188</u>	<u>15</u>	<u>806</u>	<u>25</u>	<u>275</u>	<u>15</u>	<u>662</u>
P 7 <u>30</u>	<u>199</u>	<u>18</u>	<u>832</u>	<u>30</u>	<u>283</u>	<u>18</u>	<u>681</u>
P 8		<u>21</u>	<u>845</u>	<u>35</u>	<u>296</u>	<u>21</u>	<u>695</u>
P 9		<u>24</u>	<u>864</u>	<u>40</u>	<u>304</u>	<u>24</u>	<u>700</u>
P10		<u>27</u>	<u>878</u>	<u>45</u>	<u>320</u>	<u>27</u>	<u>706</u>
P11		<u>30</u>	<u>887</u>	<u>50</u>	<u>331</u>	<u>30</u>	<u>714</u>
P12		<u>33</u>	<u>895</u>	<u>55</u>	<u>335</u>	<u>33</u>	<u>723</u>
P13		<u>36</u>	<u>907</u>	<u>60</u>	<u>342</u>	<u>36</u>	<u>732</u>
P14		<u>39</u>	<u>914</u>			<u>39</u>	<u>740</u>
P15		<u>42</u>	<u>920</u>			<u>42</u>	<u>748</u>
P16		<u>45</u>	<u>925</u>			<u>45</u>	<u>756</u>
P17						<u>48</u>	<u>763</u>
P18						<u>51</u>	<u>769</u>
P19						<u>54</u>	<u>775</u>
P20						<u>57</u>	<u>780</u>
						<u>60</u>	<u>785</u>

DST # 3 REC # 11018 125100

JKT 19/29

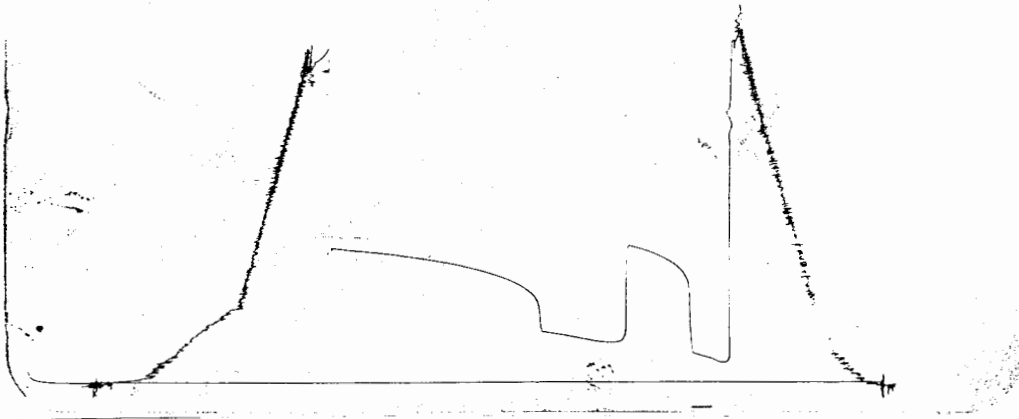
I



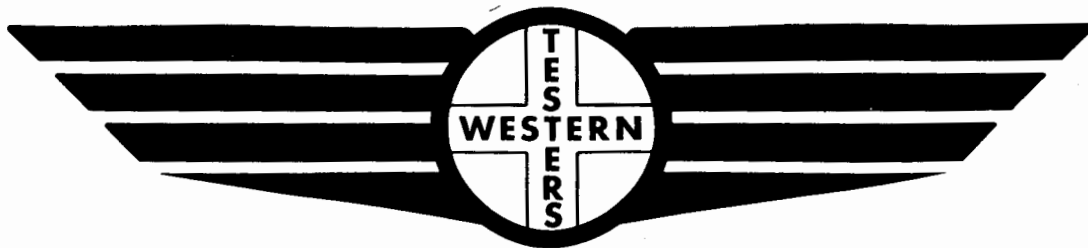
DST # 3 REC # 13629 OUTSIDE

JK4 19/29

O



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY BRITTO OIL COMPANY

LEASE & WELL NO. #1-4 OWENS

SEC. 4 TWP. 19S RGE. 17W TEST NO. 3 DATE 7/17/93

DST REPORT

GENERAL INFORMATION

DATE : 7/17/93
CUSTOMER : BRITO OIL COMPANY
WELL : #1-4 TEST: 3
ELEVATION: 2114 K.B.
SECTION : 4
RANGE : 17W COUNTY: RUSH
GAUGE SN#: 11018 RANGE : 4400

TICKET : 19129
LEASE : OWENS
GEOLOGIST: BRITO
FORMATION: ARBUCKLE
TOWNSHIP : 19S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3825.00 ft TO: 3872.00 ft TVD: 3872.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3828.0 ft 3869.0 ft
TEMPERATURE: 112.0

DRILL COLLAR LENGTH:	350.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3451.0 ft	I.D.:	3.500 in
TEST TOOL LENGTH :	24.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	47.0 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:	3820.0 ft	SIZE:	6.750 in
PACKER DEPTH:	3825.0 ft	SIZE:	6.750 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. : MURFIN DRILLING #20
MUD TYPE : CHEMICAL
WEIGHT : 9.400 ppg
CHLORIDES : 7000 ppm
JARS-MAKE : NO
DID WELL FLOW?: NO

VISCOSITY : 44.00 cp
WATER LOSS: 12.400 cc

SERIAL NUMBER: NO
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - BOTTOM OF BUCKET
IN 10 MINUTES - WEAK BLOW BACK. FINAL FLOW PERIOD
WEAK 2 INCH BLOW - DECREASING TO A 1 INCH BLOW AT

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

END.

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
570.0	90.0	10.0	0.0	0.0	CLEAN GASSY OIL
0.0	0.0	0.0	0.0	0.0	37 GRAVITY @ 60 DEGREES F
240.0	65.0	10.0	0.0	25.0	MUD & GAS CUT OIL
0.0	0.0	0.0	0.0	0.0	60 FT GAS ABOVE FLUID

RATE INFORMATION

OIL VOLUME:	6.1802 STB	
GAS VOLUME:	4.0398 SCF	
MUD VOLUME:	0.2950 STB	
WATER VOLUME:	0.0000 STB	
TOTAL FLUID :	6.4752 STB	
		TOTAL FLOW TIME: 90.0000 min.
		AVERAGE OIL RATE: 103.6037 STB/D
		AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1940.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	55.00	178.00
INITIAL SHUT-IN	45.00		800.00
FINAL FLOW	60.00	214.00	304.00
FINAL SHUT-IN	150.00		790.00

FINAL HYDROSTATIC PRESSURE: 1912.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1995.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	69.00	171.00
INITIAL SHUT-IN	45.00		807.00
FINAL FLOW	60.00	229.00	304.00
FINAL SHUT-IN	150.00		791.00

FINAL HYDROSTATIC PRESSURE: 1938.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 7/17/93	TICKET : 19129
CUSTOMER : BRITO OIL COMPANY	LEASE : OWENS
WELL : #1-4 TEST: 3	GEOLOGIST: BRITO
ELEVATION: 2114 K.B.	FORMATION: ARBUCKLE
SECTION : 4	TOWNSHIP : 19S
RANGE : 17W COUNTY: RUSH	STATE : KS
GAUGE SN#: 11018 RANGE : 4400	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	69.00	69.00
5.00	76.00	7.00
10.00	107.00	31.00
15.00	138.00	31.00
20.00	151.00	13.00
25.00	164.00	13.00
30.00	171.00	7.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	613.00	613.00	0.00
6.00	649.00	36.00	0.00
9.00	675.00	26.00	0.00
12.00	694.00	19.00	0.00
15.00	717.00	23.00	0.00
18.00	729.00	12.00	0.00
21.00	740.00	11.00	0.00
24.00	756.00	16.00	0.00
27.00	763.00	7.00	0.00
30.00	774.00	11.00	0.00
33.00	783.00	9.00	0.00
36.00	790.00	7.00	0.00
39.00	796.00	6.00	0.00
42.00	802.00	6.00	0.00
45.00	807.00	5.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	229.00	229.00
5.00	229.00	0.00
10.00	232.00	3.00
15.00	238.00	6.00
20.00	243.00	5.00
25.00	255.00	12.00
30.00	262.00	7.00
35.00	269.00	7.00
40.00	278.00	9.00
45.00	283.00	5.00
50.00	291.00	8.00
55.00	297.00	6.00
60.00	304.00	7.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	493.00	493.00	0.00
6.00	526.00	33.00	0.00
9.00	546.00	20.00	0.00
12.00	562.00	16.00	0.00
15.00	577.00	15.00	0.00
18.00	586.00	9.00	0.00
21.00	600.00	14.00	0.00
24.00	614.00	14.00	0.00
27.00	623.00	9.00	0.00
30.00	630.00	7.00	0.00
33.00	636.00	6.00	0.00
36.00	645.00	9.00	0.00
39.00	653.00	8.00	0.00
42.00	661.00	8.00	0.00
45.00	666.00	5.00	0.00
48.00	674.00	8.00	0.00
51.00	680.00	6.00	0.00
54.00	687.00	7.00	0.00
57.00	692.00	5.00	0.00
60.00	697.00	5.00	0.00
63.00	702.00	5.00	0.00
66.00	706.00	4.00	0.00
69.00	710.00	4.00	0.00
72.00	714.00	4.00	0.00
75.00	717.00	3.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL SHUT IN (CONTINUED)

Time (min)	Pressure	Delta P	Horner T
78.00	721.00	4.00	0.00
81.00	724.00	3.00	0.00
84.00	728.00	4.00	0.00
87.00	732.00	4.00	0.00
90.00	735.00	3.00	0.00
93.00	739.00	4.00	0.00
96.00	743.00	4.00	0.00
99.00	747.00	4.00	0.00
102.00	750.00	3.00	0.00
105.00	753.00	3.00	0.00
108.00	756.00	3.00	0.00
111.00	759.00	3.00	0.00
114.00	762.00	3.00	0.00
117.00	765.00	3.00	0.00
120.00	767.00	2.00	0.00
123.00	770.00	3.00	0.00
126.00	773.00	3.00	0.00
129.00	776.00	3.00	0.00
132.00	779.00	3.00	0.00
135.00	782.00	3.00	0.00
138.00	784.00	2.00	0.00
141.00	786.00	2.00	0.00
144.00	788.00	2.00	0.00
147.00	790.00	2.00	0.00
150.00	791.00	1.00	0.00



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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. 19129

Elevation 2114 K.B. Formation ARBuckle Eff. Pay 198 Ft.

District GREAT BEND Date 7/17/93 Customer Order No. —

COMPANY NAME BRITO OIL CO

ADDRESS 198

LEASE AND WELL NO. OWENS #1-4 COUNTY RUSH STATE KS Sec. 4 Twp. 9S Rge. 12W

Mail Invoice To SAME # 1-4 OWENS No. Copies Requested 166

Co. Name SAME Address — No. Copies Requested 166

Mail Charts To — Address —

Formation Test No. 3 Interval Tested From 3825 ft. to 3812 ft. Total Depth 3812 ft.

Packer Depth 3820 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 3825 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3828 ft. Recorder Number 11017 Cap. 4400

Bottom Recorder Depth (Outside) 3869 ft. Recorder Number 13629 Cap. 4425

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

Drilling Contractor MURFIN DRILL RIG 20 Drill Collar Length 350 I. D. 2.25 in.

Mud Type CHEMICAL Viscosity 44 Weight Pipe Length — I. D. — in.

Weight 9.4 Water Loss 12.4 cc. Drill Pipe Length 3451 I. D. 3.5 in.

Chlorides 7.000 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 in.

Jars: Make NOT KAR Serial Number — Anchor Length 47 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 7/8 in. Tool Joint Size 4 1/2 in.

Blow: 1ST FLOW: STRONG BLOW WITH BUCKET IN 10 MINUTES (W/ BLOWBACK)

2ND FLOW: WEAK BLOW 2" DECREASING TO A 1" BLOW AT END

Recovered 570 ft. of CLAN GAS & OIL (1020 GAS 9020 OIL) (37° @ 66°)

Recovered 240 ft. of MUD + GAS CUT OIL (2520 MUD (1020 GAS 6520 OIL))

Recovered 60 ft. of GAS IN PIPE ABOVE FLUID

Recovered — ft. of —

Recovered — ft. of —

Chlorides — P.P.M. Sample Jars used 0 Remarks: TOTAL FLUID RECOVERY 810'

JUL 20 1993

Time On Location 7:00 A.M. Time Pick Up Tool 7:30 A.M. Time Off Location 6:00 A.M.

Time Set Packer(s) 8:50 A.M. Time Started Off Bottom 12:35 A.M. Maximum Temperature 112°

Initial Hydrostatic Pressure 1940 P.S.I.

Initial Flow Period 30 Minutes (B) 55 P.S.I. to (C) 178 P.S.I.

Initial Closed In Period 45 Minutes (D) 800 P.S.I.

Final Flow Period 60 Minutes (E) 214 P.S.I. to (F) 304 P.S.I.

Final Closed In Period 150 Minutes (G) 790 P.S.I.

Final Hydrostatic Pressure 1912 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 10% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By [Signature]
Signature of Customer or his authorized representative

Western Representative [Signature]

FIELD INVOICE

Open Hole Test	\$ <u>✓</u>
Misrun	\$ <u>—</u>
Straddle Test	\$ <u>—</u>
Jars	\$ <u>—</u>
Selective Zone	\$ <u>—</u>
Safety Joint	\$ <u>—</u>
Standby	\$ <u>—</u>
Evaluation	\$ <u>—</u>
Extra Packer	\$ <u>—</u>
Circ. Sub.	\$ <u>—</u>
Mileage	\$ <u>—</u>
Fluid Sampler	\$ <u>—</u>
Extra Charts	\$ <u>—</u>
Insurance	\$ <u>—</u>
Telecopier	\$ <u>—</u>
TOTAL	\$ <u>—</u>

WESTERN TESTING CO., INC.

Pressure Data

Date 7-17-92

Test Ticket No. 19149

Recorder No. 11018

Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1995</u> P.S.I.	_____ M		
B First Initial Flow Pressure	<u>69</u> P.S.I.	First Flow Pressure	_____ Mins	_____ Mins
C First Final Flow Pressure	<u>121</u> P.S.I.	Initial Closed-in Pressure	_____ Mins	_____ Mins
D Initial Closed-in Pressure	<u>807</u> P.S.I.	Second Flow Pressure	_____ Mins	_____ Mins
E Second Initial Flow Pressure	<u>229</u> P.S.I.	Final Closed-in Pressure	_____ Mins	_____ Mins
F Second Final Flow Pressure	<u>304</u> P.S.I.			
G Final Closed-in Pressure	<u>791</u> P.S.I.			
H Final Hydrostatic Mud	<u>1938</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>69</u>	0	<u>171</u>	0	<u>229</u>	0	<u>304</u>
P 2 5	<u>76</u>	3	<u>613</u>	5	<u>229</u>	3	<u>492</u>
P 3 10	<u>107</u>	6	<u>649</u>	10	<u>232</u>	6	<u>546</u>
P 4 15	<u>138</u>	9	<u>625</u>	15	<u>238</u>	9	<u>546</u>
P 5 20	<u>151</u>	12	<u>674</u>	20	<u>242</u>	12	<u>562</u>
P 6 25	<u>164</u>	15	<u>717</u>	25	<u>255</u>	15	<u>527</u>
P 7 30	<u>171</u>	18	<u>729</u>	30	<u>262</u>	18	<u>586</u>
P 8 35		21	<u>740</u>	35	<u>269</u>	21	<u>609</u>
P 9 40		24	<u>756</u>	40	<u>278</u>	24	<u>614</u>
P10 45		27	<u>762</u>	45	<u>282</u>	27	<u>622</u>
P11 50		30	<u>774</u>	50	<u>291</u>	30	<u>630</u>
P12 55		33	<u>782</u>	55	<u>297</u>	33	<u>636</u>
P13 60		36	<u>790</u>	60	<u>304</u>	36	<u>645</u>
P14 65		39	<u>796</u>	65		39	<u>652</u>
P15 70		42	<u>802</u>	70		42	<u>661</u>
P16 75		45	<u>807</u>	75		45	<u>666</u>
P17 80		48		80		48	<u>674</u>
P18 85		51		85		51	<u>680</u>
P19 90		54		90		54	<u>687</u>
P20 95		57		95		57	<u>692</u>
100		60		100		60	<u>697</u>

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 19129

Recorder No. _____ Capacity _____ Location _____ Ft. _____

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure	Open Tool	Time Given	Time Computed
A Initial Hydrostatic Mud _____	P.S.I. _____	_____	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

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of _____ mins. and a		of _____ mins. and a		of _____ mins. and a		of _____ mins. and a	
final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.		final inc. of _____ Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 105		63		105		63	206
P 2 110		66		110		66	210
P 3 115		69		115		69	214
P 4 120		72		120		72	217
P 5 125		75		125		75	221
P 6 130		78		130		78	224
P 7 135		81		135		81	228
P 8 140		84		140		84	232
P 9 145		87		145		87	235
P10 150		90		150		90	239
P11 155		93		155		93	242
P12 160		96		160		96	247
P13 165		99		165		99	250
P14 170		102		170		102	253
P15 175		105		175		105	256
P16 180		108		180		108	259
P17 185		111		185		111	265
P18 190		114		190		114	265
P19 195		117		195		117	265
P20 200		120		200		120	267

WESTERN TESTING CO., INC.

Pressure Data

Date _____

Test Ticket No. 19129

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

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 1 205		123		205		123	270
P 2 210		126		210		126	273
P 3 215		129		215		129	276
P 4 220		132		220		132	279
P 5 225		135		225		135	282
P 6 230		138		230		138	284
P 7 235		141		235		141	286
P 8 240		144		240		144	288
P 9 245		147		245		147	290
P10 250		150		250		150	291
P11 255		153		255		153	
P12 260		156		260		156	
P13 265		159		265		159	
P14 270		162		270		162	
P15 275		165		275		165	
P16 280		168		280		168	
P17 285		171		285		171	
P18 290		174		290		174	
P19 295		177		295		177	
P20 300		180		300		180	