



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 16162

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

Elevation 16168 KB Formation MISS Eff. Pay Ft.

District 9-26-93 Date DIST PRATT Customer Order No.

COMPANY NAME Stelbae Oil Corp

ADDRESS 155 N. Market Suite 500 Wichita, Kansas

LEASE AND WELL NO. meeks 1-21 COUNTY Reno STATE Kans Sec. 21 Twp. 24S Rge. 9W

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

Mail Charts To SAME Address No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 3766 ft. to 3790 ft. Total Depth 3790 ft.

Packer Depth 3761 ft. Size 6 5/8 in. Packer Depth 3790 ft. Size 6 5/8 in.

Packer Depth 3766 ft. Size 6 5/8 in. Packer Depth 3790 ft. Size 6 5/8 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3780 ft. Recorder Number 1057 Cap. 4250

Bottom Recorder Depth (Outside) 3783 ft. Recorder Number 4332 Cap. 4200

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor Sterling Drilling Rig #4 Drill Collar Length 428 I. D. 2 1/4 in.

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

Weight 1.2 Water Loss 7.6 cc. Drill Pipe Length 3316 I. D. 3.8 in.

Chlorides 7,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number Anchor Length 24 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 1/8 in. Tool Joint Size 4 1/2 in.

Blow: Strong flow on initial flow - gas to surface 1 minute - See flow chart

Recovered 65 ft. of Gas cut mud 25% gas - 75% mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

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

Time On Location 5:15 A.M. Time Pick Up Tool 6:20 A.M. Time Off Location 2:00 A.M.

Time Set Packer(s) 7:50 P.M. Time Started Off Bottom 10:40 P.M. Maximum Temperature 117 SF

Initial Hydrostatic Pressure (A) 1813 P.S.I.

Initial Flow Period Minutes 20 (B) 1122 P.S.I. to (C) 1069 P.S.I.

Initial Closed In Period Minutes 60 (D) 1366 P.S.I.

Final Flow Period Minutes 30 (E) 1122 P.S.I. to (F) 1069 P.S.I.

Final Closed In Period Minutes 60 (G) 1366 P.S.I.

Final Hydrostatic Pressure (H) 1813 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 Rod Grist - Thank you

FIELD INVOICE

Open Hole Test \$
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$ 50
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$



GAS FLOW REPORT

No. 5320

Date 9-26-93 Ticket _____ Company Stellar Oil Corp
 Well Name and No. Meeks 1-21 Dst No. 1 Interval Tested _____
 County Leno State Kansas Sec. 21 Twp. 24S Rg. 9W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

01	-	1 1/4			Gas to surface
05	80 psi	{			3,424,000 M.C.F.P.D.
10	82 "				3,496,000
20	84 "				3,568,000

SECOND FLOW

10	48 psi	1 1/2			3633,000 M.C.F.P.D.
20	50 "	{			3752,000
30	50 "				3752,000

GAS BOTTLE

Serial No. #90 Date Bottle Filled 9-26-93 Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME Stellar Oil CorpAuthorized by [Signature]

WESTERN TESTING CO., INC.

Pressure Data

Date 9-27-93

Test Ticket No. 16142

Recorder No. 1051

Capacity 4250

Location _____ Ft.

Clock No. _____

Elevation 1668 RB

Well Temperature 117 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud <u>1885</u>	P.S.I.		M
B First Initial Flow Pressure _____	P.S.I.	<u>30</u> Mins.	Mins.
C First Final Flow Pressure _____	P.S.I.	<u>60</u> Mins.	Mins.
D Initial Closed-in Pressure _____	P.S.I.	<u>30</u> Mins.	Mins.
E Second Initial Flow Pressure _____	P.S.I.	<u>60</u> Mins.	Mins.
F Second Final Flow Pressure _____	P.S.I.		
G Final Closed-in Pressure _____	P.S.I.		
H Final Hydrostatic Mud <u>1835</u>	P.S.I.		

PRESSURE BREAKDOWN

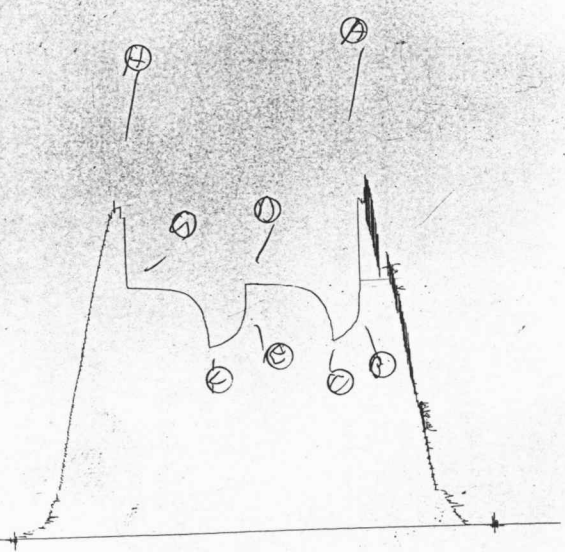
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final 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 <u>0</u>	<u>1228</u>	<u>0</u>	<u>1058</u>	<u>0</u>	<u>1344</u>	<u>0</u>	<u>1033</u>
P 2 <u>5</u>	<u>1143</u>	<u>3</u>	<u>1058</u>	<u>5</u>	<u>1213</u>	<u>3</u>	<u>1234</u>
P 3 <u>10</u>	<u>1101</u>	<u>4</u>	<u>1186</u>	<u>10</u>	<u>1122</u>	<u>6</u>	<u>1281</u>
P 4 <u>15</u>	<u>1069</u>	<u>9</u>	<u>1239</u>	<u>15</u>	<u>1058</u>	<u>9</u>	<u>1313</u>
P 5 <u>20</u>	<u>1058</u>	<u>12</u>	<u>1277</u>	<u>20</u>	<u>1043</u>	<u>12</u>	<u>1328</u>
P 6 <u>25</u>		<u>15</u>	<u>1302</u>	<u>25</u>	<u>1033</u>	<u>15</u>	<u>1334</u>
P 7 <u>30</u>		<u>18</u>	<u>1319</u>	<u>30</u>	<u>1033</u>	<u>18</u>	<u>1345</u>
P 8 _____		<u>21</u>	<u>1334</u>			<u>21</u>	<u>1347</u>
P 9 _____		<u>24</u>	<u>1345</u>			<u>24</u>	<u>1349</u>
P10 _____		<u>27</u>	<u>1355</u>			<u>27</u>	<u>1355</u>
P11 _____		<u>30</u>	<u>1358</u>			<u>30</u>	<u>1358</u>
P12 _____		<u>33</u>	<u>1360</u>			<u>33</u>	<u>1360</u>
P13 _____		<u>36</u>	<u>1366</u>			<u>36</u>	<u>1360</u>
P14 _____		<u>39</u>	<u>1366</u>			<u>39</u>	<u>1364</u>
P15 _____		<u>42</u>	<u>1366</u>			<u>42</u>	<u>1366</u>
P16 _____		<u>45</u>	<u>1366</u>			<u>45</u>	<u>1368</u>
P17 _____		<u>48</u>	<u>1366</u>			<u>48</u>	<u>1370</u>
P18 _____		<u>51</u>	<u>1366</u>			<u>51</u>	<u>1370</u>
P19 _____		<u>54</u>	<u>1366</u>			<u>54</u>	<u>1370</u>
P20 _____		<u>57</u>	<u>1366</u>			<u>57</u>	<u>1370</u>
		<u>60</u>				<u>60</u>	<u>1370</u>

1057 DST#1

A

KT 10/65

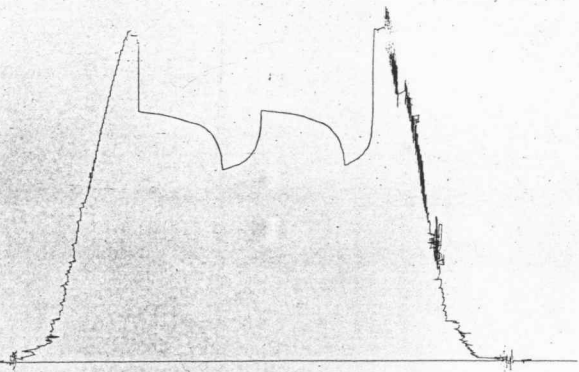
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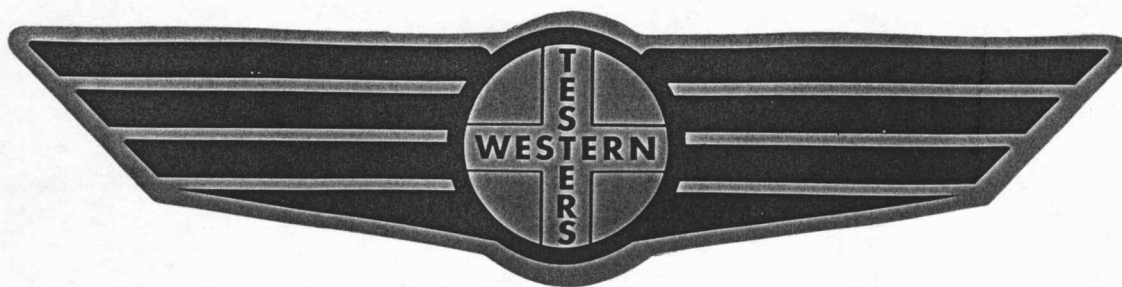
4332 DST#1

KT 10/65

O



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

DATE : 9/26/93
CUSTOMER : STELBAR OIL CORPORATION
WELL : #1-21 TEST: 1
ELEVATION: 1668 KB
SECTION : 21
RANGE : 9W COUNTY: RENO
GAUGE SN#: 1051 RANGE : 4250

TICKET : 16162
LEASE : MEEKS
GEOLOGIST:
FORMATION: MISSISSIPPI
TOWNSHIP : 24S
STATE : KS
CLOCK : 12

WELL INFORMATION

PERFORATION INTERVAL FROM: 3766.00 ft TO: 3790.00 ft TVD: 3790.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: GAS
DEPTH OF RECORDERS: 3780.0 ft 3783.0 ft
TEMPERATURE: 117.0

DRILL COLLAR LENGTH:	428.0 ft	I.D.:	2.250 in
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in
DRILL PIPE LENGTH :	3316.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	22.0 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:	3761.0 ft	SIZE:	6.630 in
PACKER DEPTH:	3766.0 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. : STERLING DRLG RIG 4
MUD TYPE : CHEMICAL
WEIGHT : 9.200 ppg
CHLORIDES : 7000 ppm
JARS-MAKE :
DID WELL FLOW?: NO

VISCOSITY : 47.00 cp
WATER LOSS: 7.600 cc

SERIAL NUMBER:
REVERSED OUT?: NO

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - GAS TO SURFACE
IN 1 MINUTE. SEE GAS SHEET ATTACHED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
65.0	0.0	25.0	0.0	75.0	GAS CUT MUD

RATE INFORMATION

OIL VOLUME:	0.0000	STB		
GAS VOLUME:	0.4487	SCF	TOTAL FLOW TIME:	50.0000 min.
MUD VOLUME:	0.2397	STB	AVERAGE OIL RATE:	0.0000 STB/D
WATER VOLUME:	0.0000	STB	AVERAGE WATER RATE:	0.0000 STB/D
TOTAL FLUID :	0.2397	STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1813.00

Description	Duration	p1	p End
INITIAL FLOW	20.00	1122.00	1069.00
INITIAL SHUT-IN	60.00		1366.00
FINAL FLOW	30.00	1122.00	1069.00
FINAL SHUT-IN	60.00		1366.00

FINAL HYDROSTATIC PRESSURE: 1813.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1885.00

Description	Duration	p1	p End
INITIAL FLOW	20.00	1228.00	1058.00
INITIAL SHUT-IN	57.00		1366.00
FINAL FLOW	30.00	1366.00	1033.00
FINAL SHUT-IN	60.00		1370.00

FINAL HYDROSTATIC PRESSURE: 1835.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 9/26/93	TICKET : 16162
CUSTOMER : STELBAR OIL CORPORATION	LEASE : MEEKS
WELL : #1-21 TEST: 1	GEOLOGIST:
ELEVATION: 1668 KB	FORMATION: MISSISSIPPI
SECTION : 21	TOWNSHIP : 24S
RANGE : 9W COUNTY: RENO	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
5 MIN	MERLA	1.250	80 PSIG	3424000
10 MIN	MERLA	1.250	82 PSIG	3496000 SCF/D
20 MIN	MERLA	1.250	84 PSIG	3568000 SCF/D

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.250	48 PSIG	3633000 SCF/D
20 MIN	MERLA	1.250	50 PSIG	3752000 SCF/D
30 MIN	MERLA	1.250	50 PSIG	3752000 SCF/D

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/26/93	TICKET : 16162
CUSTOMER : STELBAR OIL CORPORATION	LEASE : MEEKS
WELL : #1-21 TEST: 1	GEOLOGIST:
ELEVATION: 1668 KB	FORMATION: MISSISSIPPI
SECTION : 21	TOWNSHIP : 24S
RANGE : 9W COUNTY: RENO	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	1228.00	1228.00
5.00	1143.00	-85.00
10.00	1101.00	-42.00
15.00	1069.00	-32.00
20.00	1058.00	-11.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1058.00	1058.00	7.67
6.00	1186.00	128.00	4.33
9.00	1239.00	53.00	3.22
12.00	1277.00	38.00	2.67
15.00	1302.00	25.00	2.33
18.00	1319.00	17.00	2.11
21.00	1334.00	15.00	1.95
24.00	1345.00	11.00	1.83
27.00	1355.00	10.00	1.74
30.00	1358.00	3.00	1.67
33.00	1360.00	2.00	1.61
36.00	1363.00	3.00	1.56
39.00	1366.00	3.00	1.51
42.00	1366.00	0.00	1.48
45.00	1366.00	0.00	1.44
48.00	1366.00	0.00	1.42
51.00	1366.00	0.00	1.39
54.00	1366.00	0.00	1.37
57.00	1366.00	0.00	1.35

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

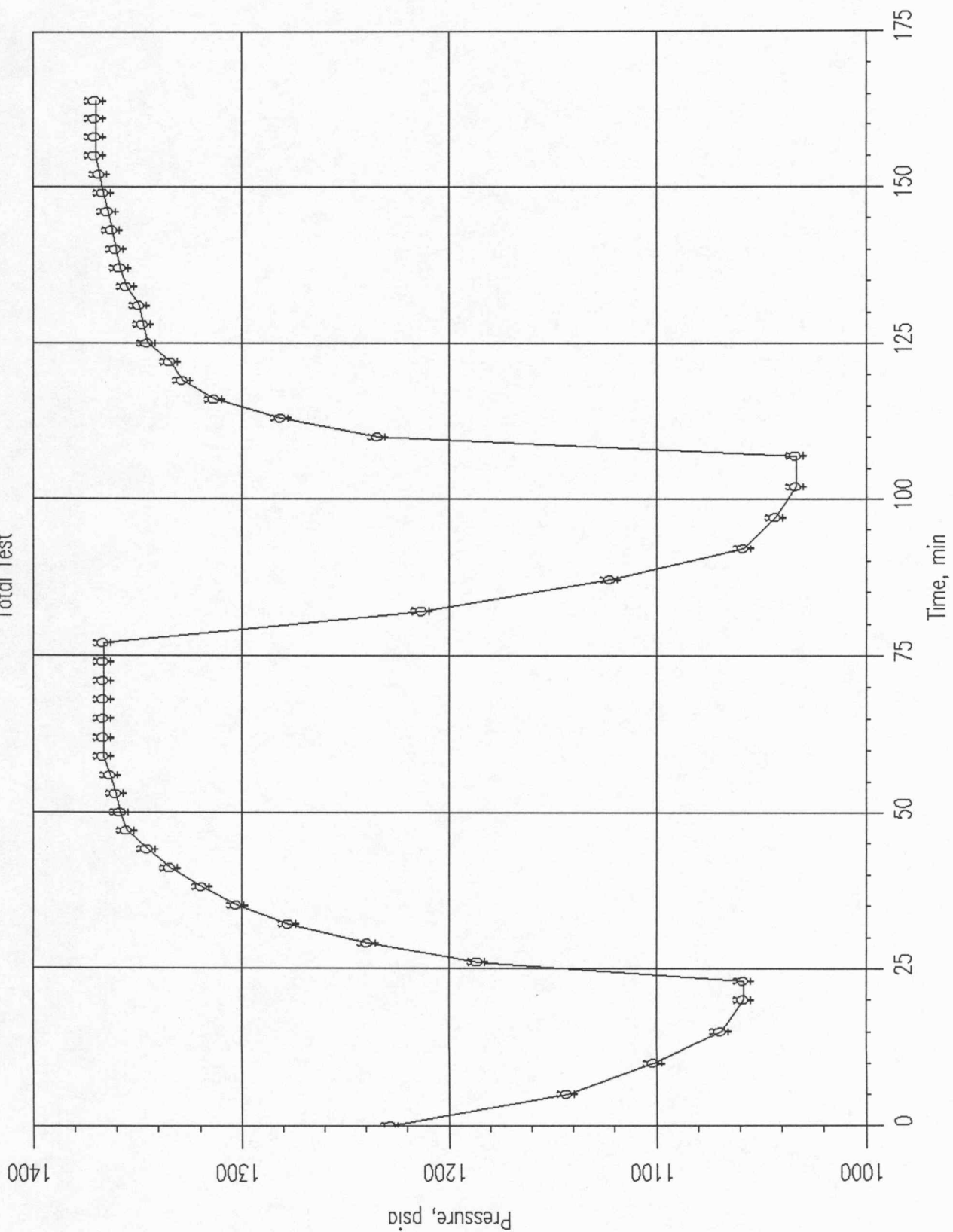
Time (min)	Pressure	Delta P
0.00	1366.00	1366.00
5.00	1213.00	-153.00
10.00	1122.00	-91.00
15.00	1058.00	-64.00
20.00	1043.00	-15.00
25.00	1033.00	-10.00
30.00	1033.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1234.00	1234.00	11.00
6.00	1281.00	47.00	6.00
9.00	1313.00	32.00	4.33
12.00	1328.00	15.00	3.50
15.00	1334.00	6.00	3.00
18.00	1345.00	11.00	2.67
21.00	1347.00	2.00	2.43
24.00	1349.00	2.00	2.25
27.00	1355.00	6.00	2.11
30.00	1358.00	3.00	2.00
33.00	1360.00	2.00	1.91
36.00	1362.00	2.00	1.83
39.00	1364.00	2.00	1.77
42.00	1366.00	2.00	1.71
45.00	1368.00	2.00	1.67
48.00	1370.00	2.00	1.63
51.00	1370.00	0.00	1.59
54.00	1370.00	0.00	1.56
57.00	1370.00	0.00	1.53
60.00	1370.00	0.00	1.50

Profile Plot

Total Test

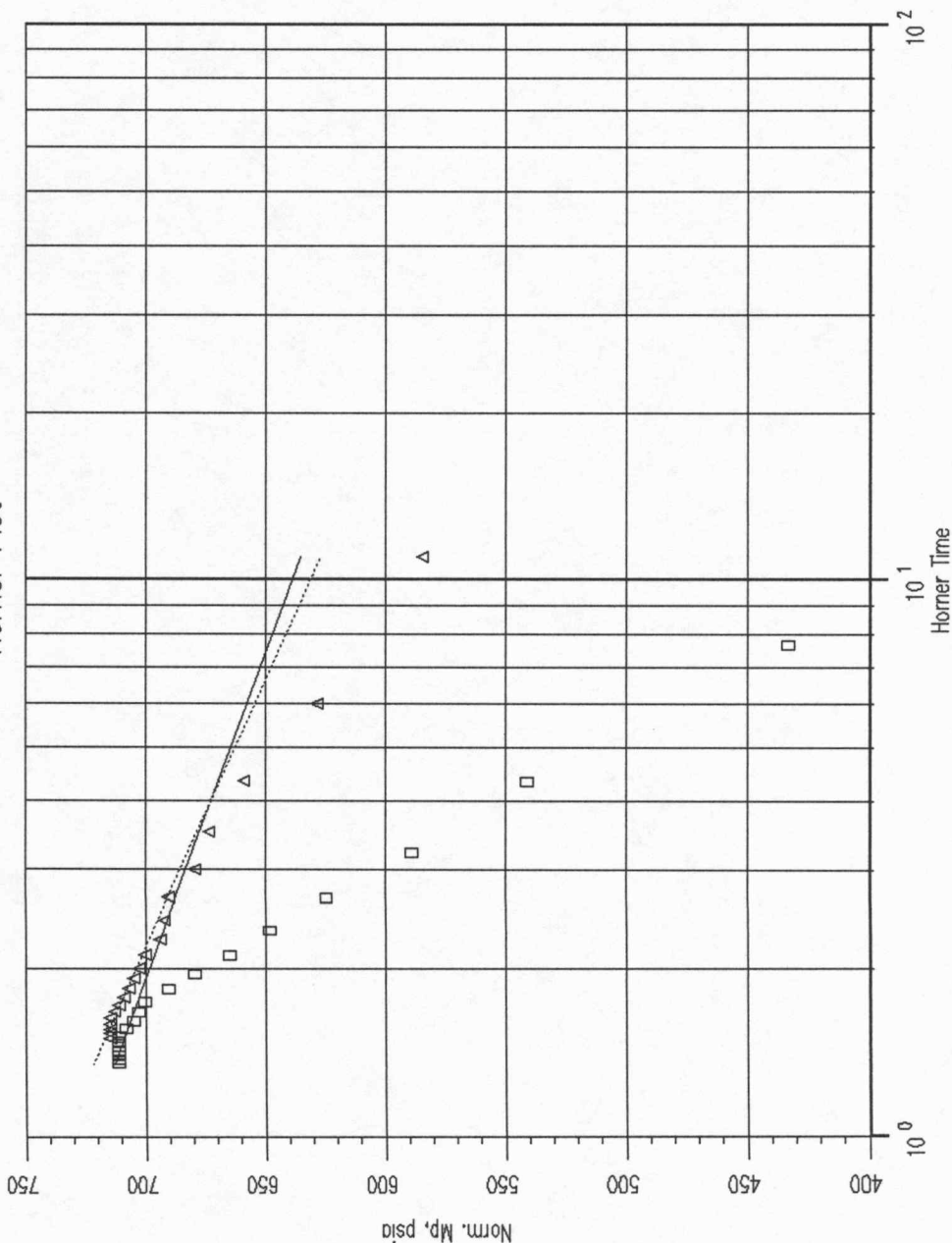


DATE 9/26/93
 CUSTOMER STEELBAR OIL CORPORATION
 WELL #1-21
 ELEVATION 1668 KB
 SECTION 21
 RANGE 9W
 GAUGE SN# 1051

TEST 1
 COUNTY RENO
 RANGE 4250

TICKET 16162
 LEASE MECKS
 GEOLOGIST
 FORMATION MISSISSIPPI
 TOWNSHIP 24S
 STATE KS
 CLOCK 12

Horner Plot



Result

	#1	#2
tp, hrs	0.33	0.50
Slope	-85.11	-104.09
Pstar, psig	1378.64	1389.85
P1hr, psig	713.19	716.82
Skin	-0.33	-0.80
k, md	9.88	8.08
kh/u, md-ft/cp	12947.31	10586.73
ri, ft	31.08	34.43
DR, %	0.79	0.71
Drawdown Factor, %	-0.003	-0.003
Drawdown P*	-0.008	-0.008

— BUILD 1
 BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 9/26/93	TICKET : 16162
CUSTOMER : STELBAR OIL CORPORATION	LEASE : MEEKS
WELL : #1-21 TEST: 1	GEOLOGIST:
ELEVATION: 1668 KB	FORMATION: MISSISSIPPI
SECTION : 21	TOWNSHIP : 24S
RANGE : 9W COUNTY: RENO	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

Input Data

Porosity 0.300 Rw: 0.328 ft h: 19.000 ft

qg 3752000.0 STB

Pvt Data

 Evaluation Pressure : 1366.0

 Evaluation Temperature: 117.0

Gas Grav 0.65 API

Bg 0.002 RBL/STB Vis 0.015 cp Ct 8.2659E-004 1/PSI

Horner Results

	Initial Shut-In	Final Shut-In
pseudo pressure time	0.33 hrs	0.50 hrs
slope	-85.11	-104.09
pstar	1378.64 psig	1389.85 psig
plhr	713.19 psig	716.82 psig
skin	-0.33	-0.80
permeability	9.88 md	8.08 md
transmissability	12947.31 md-ft/cp	10586.73 md-ft/cp
radius of investigation	31.08 ft	34.43 ft
Damage-Ratio	0.79 percent	0.71 percent
Drawdown Factor		-0.003 percent
Drawdown P*		-0.008 percent



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 16163

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

Elevation 1668 LB Formation Miss Eff. Pay _____ Ft.

District Pratt Date 9-27-93 Customer Order No. _____

COMPANY NAME Stellar Oil Corp

ADDRESS 155 North Market - Suite 500 - Wichita, Kansas 67202

LEASE AND WELL NO. Meeks #1-21 COUNTY Reno STATE Kans Sec. 21 Twp. 24 Rge. 9W

Mail Invoice To SAME Co. Name Address No. Copies Requested 12

Mail Charts To SAME Address No. Copies Requested 12

Formation Test No. 2 Interval Tested From 3791 ft. to 3816 ft. Total Depth 3816 ft.

Packer Depth 3780 ft. Size 6 5/8 in. Packer Depth 3791 ft. Size 6 5/8 in.

Packer Depth 3791 ft. Size 6 5/8 in. Packer Depth 3791 ft. Size 6 5/8 in.

Depth of Selective Zone Set 1

Top Recorder Depth (Inside) 3806 ft. Recorder Number 1051 Cap. 4250

Bottom Recorder Depth (Outside) 3809 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor Sterling Drilling Rig 4 Drill Collar Length 428 I. D. 2 1/4 in.

Mud Type Chem Viscosity 57 Weight Pipe Length 0 I. D. _____ in.

Weight 9.2 Water Loss 2.6 cc. Drill Pipe Length 3341 I. D. 3.8 in.

Chlorides 2,000 P.P.M. Test Tool Length 22 ft. Tool Size 5/200 in.

Jars: Make No Serial Number No Anchor Length 28 ft. Size 5/200 in.

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

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

Blow: Strong flow on initial flow - gas to surface 1 minute
See flow chart

Recovered _____ ft. of _____

Recovered 75 ft. of slightly oil cut gassy water 5% oil - 20% gas - 75% water

Recovered 428 ft. of gassy water 15% gas 85% water

Recovered _____ ft. of _____ 92,000 P.P.M.

Recovered _____ ft. of _____

Recovered _____ ft. of _____

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

Time On Location 2:00 A.M. Time Pick Up Tool 4:30 P.M. Time Off Location 1:00 A.M.

Time Set Packer(s) 7:50 A.M. Time Started Off Bottom 10:50 P.M. Maximum Temperature 118 °F

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

Initial Flow Period Minutes 30 (B) 1067 P.S.I. to (C) 1067 P.S.I.

Initial Closed In Period Minutes 60 (D) 1387 P.S.I.

Final Flow Period Minutes 30 (E) 963 P.S.I. to (F) 1067 P.S.I.

Final Closed In Period Minutes 60 (G) 1387 P.S.I.

Final Hydrostatic Pressure (H) 1845 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 _____ Signature of Customer or his authorized representative

Western Representative Rod Britt - Thank you

FIELD INVOICE

Open Hole Test \$
Misrun \$
Straddle Test \$
Jars \$
Selective Zone \$
Safety Joint \$
Standby \$
Evaluation \$50
Extra Packer \$
Circ. Sub. \$
Mileage \$
Fluid Sampler \$
Extra Charts \$
Insurance \$
Telecopier \$
TOTAL \$



GAS FLOW REPORT

No 5321

Date 9-27-93 Ticket 16163 Company Stelbar Oil Corp
 Well Name and No. Meek 1-21 Dst No. 2 Interval Tested
 County Reno State Kans Sec. 21 Twp. 24S Rg. 9W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

01	—	1 1/4			GAS to surface
10	40 psi	}			1,980,000 McEPD
20	42 psi				2,056,000
30	—				flooded gassy water no gage

SECOND FLOW

10	—	1 1/4			flooded gassy water
20	—				
30	—				

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 9-26-93

Test Ticket No. 16168

Recorder No. 1051 Capacity 42.50 Location _____ Ft.

Clock No. - Elevation 1668 KB Well Temperature 118 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1863</u> P.S.I.		M
B First Initial Flow Pressure	P.S.I.	<u>30</u> Mins.	Mins.
C First Final Flow Pressure	P.S.I.	<u>60</u> Mins.	Mins.
D Initial Closed-in Pressure	P.S.I.	<u>30</u> Mins.	Mins.
E Second Initial Flow Pressure	P.S.I.	<u>60</u> Mins.	Mins.
F Second Final Flow Pressure	P.S.I.		
G Final Closed-in Pressure	P.S.I.		
H Final Hydrostatic Mud	<u>1820</u> P.S.I.		

PRESSURE BREAKDOWN

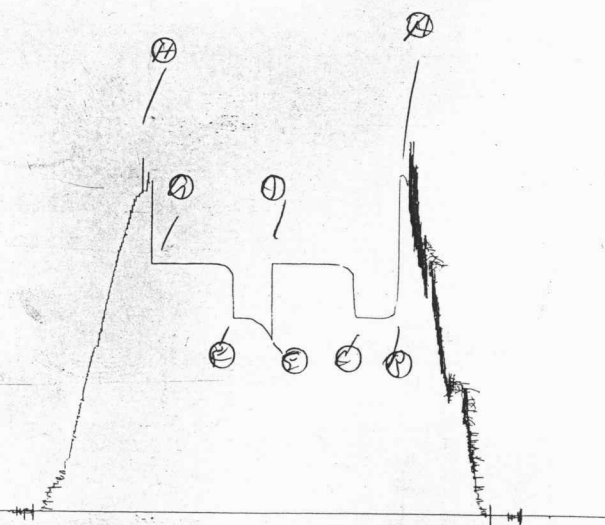
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.		Breakdown: _____ Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final 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 <u>0</u>	<u>1069</u>	<u>0</u>	<u>1069</u>	<u>0</u>	<u>942</u>	<u>0</u>	<u>1058</u>
P 2 <u>5</u>	<u>1069</u>	<u>3</u>	<u>1069</u>	<u>5</u>	<u>942</u>	<u>3</u>	<u>1328</u>
P 3 <u>10</u>	<u>1069</u>	<u>6</u>	<u>1315</u>	<u>10</u>	<u>1008</u>	<u>6</u>	<u>1349</u>
P 4 <u>15</u>	<u>1069</u>	<u>9</u>	<u>1344</u>	<u>15</u>	<u>1038</u>	<u>9</u>	<u>1351</u>
P 5 <u>20</u>	<u>1069</u>	<u>12</u>	<u>1355</u>	<u>20</u>	<u>1058</u>	<u>12</u>	<u>1351</u>
P 6 <u>25</u>	<u>1069</u>	<u>15</u>	<u>1366</u>	<u>25</u>	<u>1058</u>	<u>15</u>	<u>1353</u>
P 7 <u>30</u>	<u>1069</u>	<u>18</u>	<u>1366</u>	<u>30</u>	<u>1058</u>	<u>18</u>	<u>1355</u>
P 8 _____		<u>21</u>	<u>1366</u>			<u>21</u>	<u>1358</u>
P 9 _____		<u>24</u>	<u>1366</u>			<u>24</u>	<u>1358</u>
P10 _____		<u>27</u>	<u>1366</u>			<u>27</u>	<u>1358</u>
P11 _____		<u>30</u>	<u>1366</u>			<u>30</u>	<u>1358</u>
P12 _____		<u>33</u>	<u>1366</u>			<u>33</u>	<u>1358</u>
P13 _____		<u>36</u>	<u>1366</u>			<u>36</u>	<u>1358</u>
P14 _____		<u>39</u>	<u>1366</u>			<u>39</u>	<u>1358</u>
P15 _____		<u>42</u>	<u>1366</u>			<u>42</u>	<u>1358</u>
P16 _____		<u>45</u>	<u>1366</u>			<u>45</u>	<u>1358</u>
P17 _____		<u>48</u>	<u>1366</u>			<u>48</u>	<u>1358</u>
P18 _____		<u>51</u>	<u>1366</u>			<u>51</u>	<u>1358</u>
P19 _____		<u>54</u>	<u>1366</u>			<u>54</u>	<u>1358</u>
P20 _____		<u>57</u>	<u>1366</u>			<u>57</u>	<u>1358</u>
		<u>60</u>	<u>1366</u>			<u>60</u>	<u>1358</u>

1051 DST #2

A

KT 16/65

7



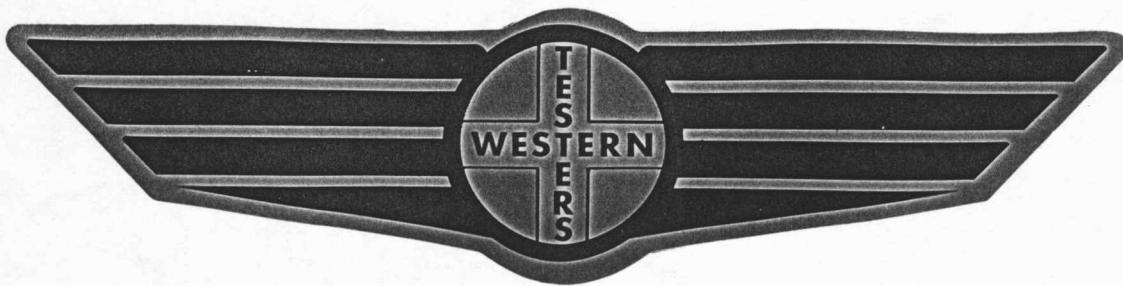
4332 DST #2

KT 16/65

0



FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 80 - 688 - 7021

DST REPORT

GENERAL INFORMATION

DATE	: 9/27/93	TICKET	: 16163
CUSTOMER	: STELBAR OIL CORPORATION	LEASE	: MEEKS
WELL	: #1-21	TEST:	2
ELEVATION	: 1668 KB	GEOLOGIST:	
SECTION	: 21	FORMATION:	MISSISSIPPI
RANGE	: 9W	TOWNSHIP	: 24S
Gauge SN#	: 1051	STATE	: KS
COUNTY	: RENO	CLOCK	: 12
RANGE	: 4250		

WELL INFORMATION

PERFORATION INTERVAL FROM:	3791.00 ft	TO:	3816.00 ft	TVD:	3816.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	3806.0 ft		3809.0 ft		
TEMPERATURE:	118.0				
DRILL COLLAR LENGTH:	428.0 ft	I.D.:	2.250 in		
WEIGHT PIPE LENGTH :	0.0 ft	I.D.:	0.000 in		
DRILL PIPE LENGTH :	3341.0 ft	I.D.:	3.800 in		
TEST TOOL LENGTH :	22.0 ft	TOOL SIZE :	5.500 in		
ANCHOR LENGTH :	25.0 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:	3786.0 ft	SIZE:	6.630 in		
PACKER DEPTH:	3791.0 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. :	STERLING DRLG RIG 4	VISCOSITY :	57.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	7.600 cc
WEIGHT :	9.200 ppg		
CHLORIDES :	7000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	YES		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW - GAS TO SURFACE
IN 1 MINUTE. SEE GAS SHEET ATTACHED.

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
75.0	5.0	20.0	75.0	0.0	SLIGHTLY OIL CUT GASSY
0.0	0.0	0.0	0.0	0.0	WATER
428.0	0.0	15.0	85.0	0.0	GASSY WATER
0.0	0.0	0.0	0.0	0.0	CHLORIDES 98,000 P.P.M.

RATE INFORMATION

OIL VOLUME:	0.0526 STB	TOTAL FLOW TIME:	60.0000 min.
GAS VOLUME:	2.9540 SCF	AVERAGE OIL RATE:	1.2624 STB/D
MUD VOLUME:	0.0000 STB	AVERAGE WATER RATE:	61.8711 STB/D
WATER VOLUME:	2.5780 STB		
TOTAL FLUID :	2.6306 STB		

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1867.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	1069.00	1069.00
INITIAL SHUT-IN	60.00		1387.00
FINAL FLOW	30.00	963.00	1069.00
FINAL SHUT-IN	60.00		1387.00

FINAL HYDROSTATIC PRESSURE: 1845.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1863.00

Description	Duration	p1	p End
INITIAL FLOW	30.00	1069.00	1069.00
INITIAL SHUT-IN	60.00		1366.00
FINAL FLOW	30.00	942.00	1058.00
FINAL SHUT-IN	60.00		1358.00

FINAL HYDROSTATIC PRESSURE: 1820.00

GAS FLOW REPORT

GENERAL INFORMATION

DATE : 9/27/93	TICKET : 16163
CUSTOMER : STELBAR OIL CORPORATION	LEASE : MEEKS
WELL : #1-21 TEST: 2	GEOLOGIST:
ELEVATION: 1668 KB	FORMATION: MISSISSIPPI
SECTION : 21	TOWNSHIP : 24S
RANGE : 9W COUNTY: RENO	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

PRE FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.250	40 PSIG	1980000 SCF/D
20 MIN	MERLA	1.250	42 PSIG	2056000 SCF/D
30 MIN	MERLA	1.250	FLOWED GASSY WATER - NO GUAGE	

SECOND FLOW

Time Guage (min)	Tester Type	Orifice Size	Pressure	Flow Desc.
10 MIN	MERLA	1.250	FLOWED GASSY WATER	
20 MIN	MERLA	1.250		
30 MIN	MERLA	1.250		

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 9/27/93	TICKET : 16163
CUSTOMER : STELBAR OIL CORPORATION	LEASE : MEEKS
WELL : #1-21 TEST: 2	GEOLOGIST:
ELEVATION: 1668 KB	FORMATION: MISSISSIPPI
SECTION : 21	TOWNSHIP : 24S
RANGE : 9W COUNTY: RENO	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	1069.00	1069.00
5.00	1069.00	0.00
10.00	1069.00	0.00
15.00	1069.00	0.00
20.00	1069.00	0.00
25.00	1069.00	0.00
30.00	1069.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	1069.00	1069.00	11.00
6.00	1315.00	246.00	6.00
9.00	1344.00	29.00	4.33
12.00	1355.00	11.00	3.50
15.00	1366.00	11.00	3.00
18.00	1366.00	0.00	2.67
21.00	1366.00	0.00	2.43
24.00	1366.00	0.00	2.25
27.00	1366.00	0.00	2.11
30.00	1366.00	0.00	2.00
33.00	1366.00	0.00	1.91
36.00	1366.00	0.00	1.83
39.00	1366.00	0.00	1.77
42.00	1366.00	0.00	1.71
45.00	1366.00	0.00	1.67
48.00	1366.00	0.00	1.63
51.00	1366.00	0.00	1.59
54.00	1366.00	0.00	1.56
57.00	1366.00	0.00	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	1366.00	0.00	1.50

FINAL FLOW

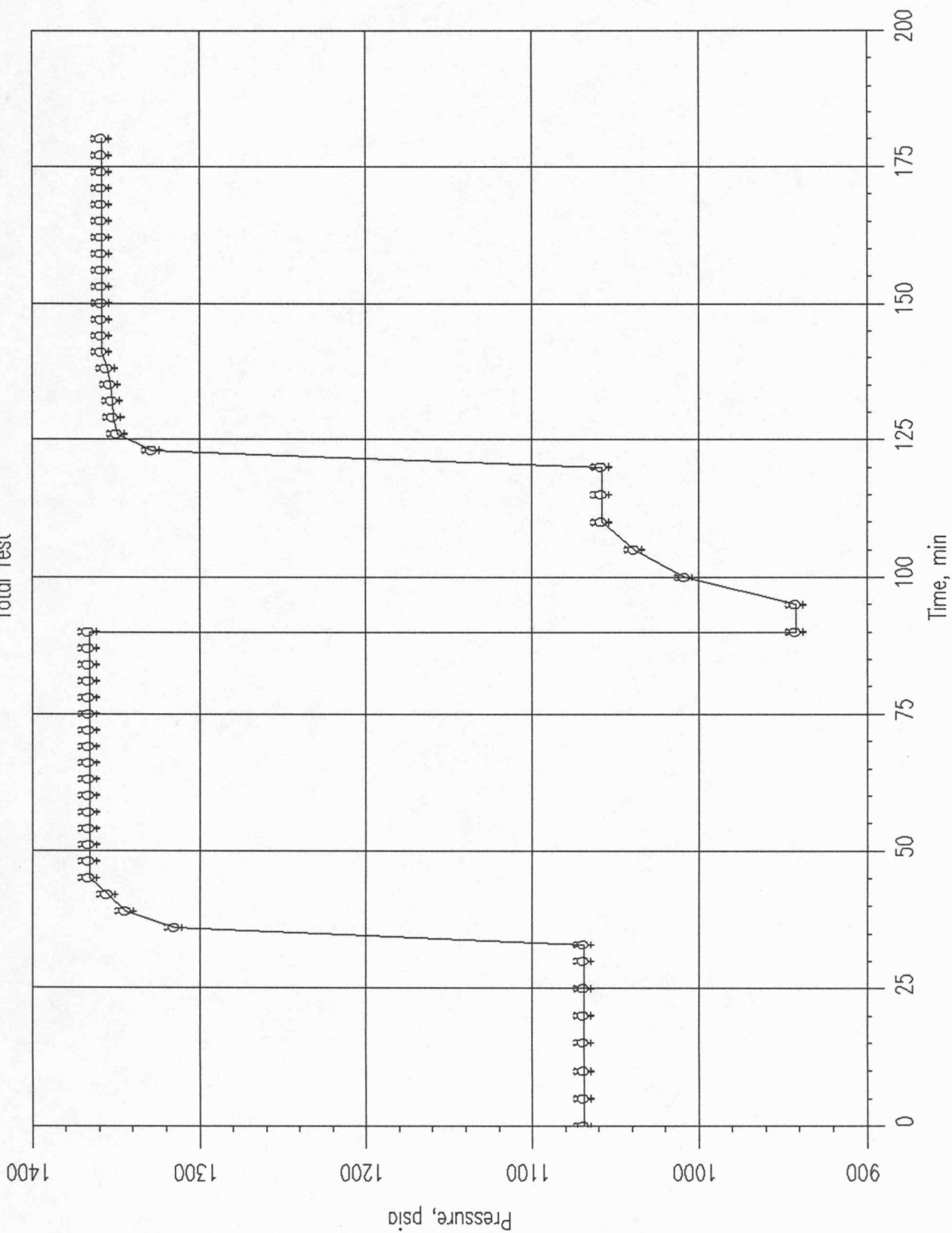
<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>
0.00	942.00	942.00
5.00	942.00	0.00
10.00	1008.00	66.00
15.00	1038.00	30.00
20.00	1058.00	20.00
25.00	1058.00	0.00
30.00	1058.00	0.00

FINAL SHUT IN

<u>Time (min)</u>	<u>Pressure</u>	<u>Delta P</u>	<u>Horner T</u>
3.00	1328.00	1328.00	11.00
6.00	1349.00	21.00	6.00
9.00	1351.00	2.00	4.33
12.00	1352.00	1.00	3.50
15.00	1353.00	1.00	3.00
18.00	1355.00	2.00	2.67
21.00	1358.00	3.00	2.43
24.00	1358.00	0.00	2.25
27.00	1358.00	0.00	2.11
30.00	1358.00	0.00	2.00
33.00	1358.00	0.00	1.91
36.00	1358.00	0.00	1.83
39.00	1358.00	0.00	1.77
42.00	1358.00	0.00	1.71
45.00	1358.00	0.00	1.67
48.00	1358.00	0.00	1.63
51.00	1358.00	0.00	1.59
54.00	1358.00	0.00	1.56
57.00	1358.00	0.00	1.53
60.00	1358.00	0.00	1.50

Profile Plot

Total Test

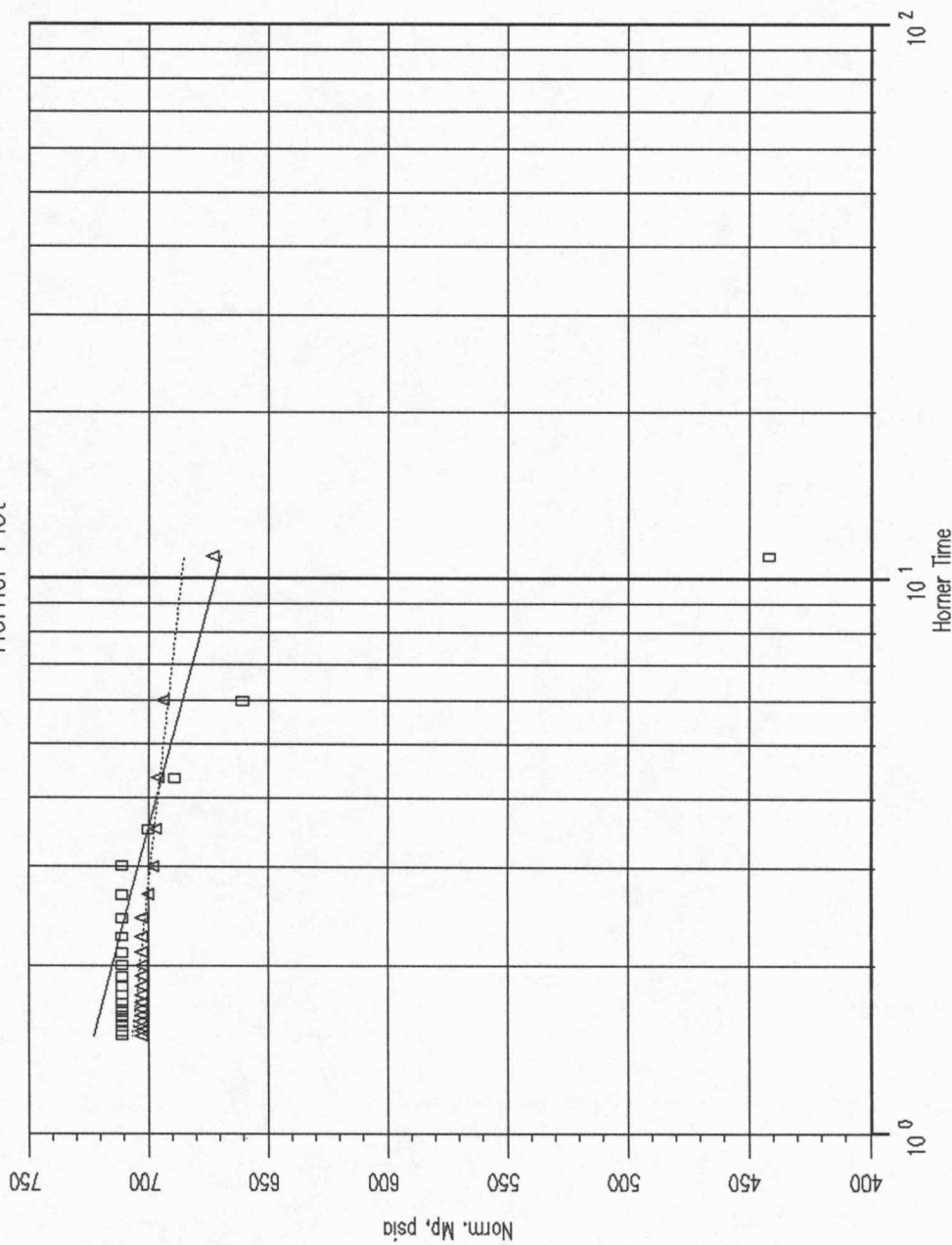


DATE 9/27/93
 CUSTOMER STELBAR OIL CORPORATION
 WELL #1-21
 ELEVATION 1668 KB
 SECTION 21
 RANGE 9W
 GAUGE SN# 1051

TEST 2
 COUNTY RENO
 RANGE 4250

TICKET 16163
 LEASE WEEKS
 GEOLOGIST
 FORMATION MISSISSIPPI
 TOWNSHIP 24S
 STATE KS
 CLOCK 12

Horner Plot



Result

	#1	#2
tp, hrs	0.50	0.50
Slope	-61.19	-24.75
Pstar, psig	1388.12	1366.08
P1hr, psig	722.52	706.76
Skin	1.16	8.16
k, md	5.74	14.20
kh/u, md-ft/cp	9897.42	24469.19
ri, ft	33.16	52.14
DR, %	1.13	2.49
Drawdown Factor, %		0.006
Drawdown P*		0.016

— BUILD 1
 BUILD 2

HORNER ANALYSIS REPORT

GENERAL INFORMATION

DATE : 9/27/93	TICKET : 16163
CUSTOMER : STELBAR OIL CORPORATION	LEASE : MEEKS
WELL : #1-21 TEST: 2	GEOLOGIST:
ELEVATION: 1668 KB	FORMATION: MISSISSIPPI
SECTION : 21	TOWNSHIP : 24S
RANGE : 9W COUNTY: RENO	STATE : KS
GAUGE SN#: 1051 RANGE : 4250	CLOCK : 12

Input Data

Porosity 0.230 Rw: 0.328 ft h: 25.000 ft

qg 2056000.0 STB

Pvt Data

Evalutation Pressure : 1366.0
Evalutation Temperature: 118.0

Gas Grav 0.65 API
Bg 0.002 RBL/STB Vis 0.015 cp Ct 8.2568E-004 1/PSI

Horner Results

	Inital Shut-In	Final Shut-In
pseudo pressure time	0.50 hrs	0.50 hrs
slope	-61.19	-24.75
pstar	1388.12 psig	1366.08 psig
plhr	722.52 psig	706.76 psig
skin	1.16	8.16
permeability	5.74 md	14.20 md
transmisability	9897.42 md-ft/cp	24469.19 md-ft/cp
radius of investigation	33.16 ft	52.14 ft
Damage-Ratio	1.1 percent	2.5 percent
Drawdown Factor		0.006 percent
Drawdown P*		0.016 percent