



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

No. 19613

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

Elevation 4859 ft. Formation Adairville Eff. Pay Ft.

District

Date 6-26-93

Customer Order No.

COMPANY NAME Sial Tomlinson Oil

ADDRESS 1802 Wildwalk Dr.

LEASE AND WELL NO. Gage #1 COUNTY Barton STATE Kansas Sec. 2 Twp. 17 Rge. 13W

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

Mail Charts To Same Address No. Copies Requested

Formation Test No. 3294 Interval Tested From 3294 ft. to 3334 ft. Total Depth 3334 ft.

Packer Depth 3294 ft. Size 6 5/8 in. Packer Depth 2 ft. Size 2 in.

Packer Depth 3294 ft. Size 6 5/8 in. Packer Depth 2 ft. Size 2 in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3297 ft. Recorder Number 13268 Cap. 4325

Bottom Recorder Depth (Outside) 3300 ft. Recorder Number 13265 Cap. 3975

Below Straddle Recorder Depth 7 ft. Recorder Number Cap.

Drilling Contractor Duke Drilling Rig #1 Drill Collar Length 0 I. D. in.

Mud Type Chem Viscosity 43 Weight Pipe Length 568 I. D. 2 1/3 in.

Weight 9.3 Water Loss 10.4 cc. Drill Pipe Length 2706 I. D. 3.8 in.

Chlorides 7,000 P.P.M. Test Tool Length 20 ft. Tool Size 5/32 in.

Jars: Make NO Serial Number Anchor Length 40 ft. Size 5/16 in.

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

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

Blow: Weak blow building to strong in 25 min on initial flow

Strong blow on final flow

Recovered 300 ft. of clear oil 40 grains corrected

Recovered 240 ft. of gas + mud cut oil 20% gas - 40% oil 40% mud

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

Time On Location 9:00 A.M. Time Pick Up Tool 10:00 A.M. Time Off Location 6:00 A.M.

Time Set Packer(s) 11:40 A.M. Time Started Off Bottom 4:45 A.M. Maximum Temperature 117 °F

Initial Hydrostatic Pressure (A) 1645 P.S.I.

Initial Flow Period Minutes 45 (B) 106 P.S.I. to (C) 106 P.S.I.

Initial Closed In Period Minutes 45 (D) 980 P.S.I.

Final Flow Period Minutes 45 (E) 192 P.S.I. to (F) 192 P.S.I.

Final Closed In Period Minutes 45 (G) 980 P.S.I.

Final Hydrostatic Pressure (H) 1645 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

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 6-26-93

Test Ticket No. 19613

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1632</u>	P.S.I.	Open Tool	M
B First Initial Flow Pressure		P.S.I.	First Flow Pressure	<u>45</u> Mins. <u>45</u> Mins
C First Final Flow Pressure		P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins. <u>45</u> Mins
D Initial Closed-in Pressure		P.S.I.	Second Flow Pressure	<u>45</u> Mins. <u>45</u> Mins
E Second Initial Flow Pressure		P.S.I.	Final Closed-in Pressure	<u>45</u> Mins. <u>45</u> Mins
F Second Final Flow Pressure		P.S.I.		
G Final Closed-in Pressure		P.S.I.		
H Final Hydrostatic Mud	<u>1629</u>	P.S.I.		

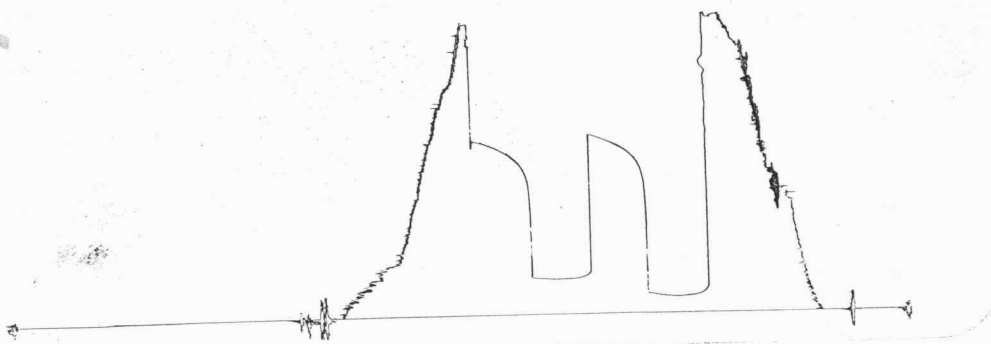
PRESSURE BREAKDOWN

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>117</u>	<u>0</u>	<u>106</u>	<u>0</u>	<u>106</u>	<u>0</u>	<u>96</u>
P 2 <u>5</u>	<u>106</u>	<u>3</u>	<u>1082</u>	<u>5</u>	<u>98</u>	<u>3</u>	<u>666</u>
P 3 <u>10</u>	<u>94</u>	<u>6</u>	<u>794</u>	<u>10</u>	<u>91</u>	<u>6</u>	<u>778</u>
P 4 <u>15</u>	<u>89</u>	<u>9</u>	<u>840</u>	<u>15</u>	<u>89</u>	<u>9</u>	<u>819</u>
P 5 <u>20</u>	<u>89</u>	<u>12</u>	<u>865</u>	<u>20</u>	<u>89</u>	<u>12</u>	<u>842</u>
P 6 <u>25</u>	<u>89</u>	<u>15</u>	<u>885</u>	<u>25</u>	<u>89</u>	<u>15</u>	<u>864</u>
P 7 <u>30</u>	<u>91</u>	<u>18</u>	<u>904</u>	<u>30</u>	<u>90</u>	<u>18</u>	<u>880</u>
P 8 <u>35</u>	<u>96</u>	<u>21</u>	<u>917</u>	<u>35</u>	<u>91</u>	<u>21</u>	<u>893</u>
P 9 <u>40</u>	<u>103</u>	<u>24</u>	<u>929</u>	<u>40</u>	<u>94</u>	<u>24</u>	<u>906</u>
P10 <u>45</u>	<u>106</u>	<u>27</u>	<u>942</u>	<u>45</u>	<u>96</u>	<u>27</u>	<u>917</u>
P11 <u>50</u>		<u>30</u>	<u>953</u>	<u>50</u>		<u>30</u>	<u>827</u>
P12 <u>55</u>		<u>33</u>	<u>959</u>	<u>55</u>		<u>33</u>	<u>834</u>
P13 <u>60</u>		<u>36</u>	<u>970</u>	<u>60</u>		<u>36</u>	<u>946</u>
P14 <u>65</u>		<u>39</u>	<u>978</u>	<u>65</u>		<u>39</u>	<u>953</u>
P15 <u>70</u>		<u>42</u>	<u>985</u>	<u>70</u>		<u>42</u>	<u>959</u>
P16 <u>75</u>		<u>45</u>	<u>991</u>	<u>75</u>		<u>45</u>	<u>963</u>
P17 <u>80</u>		<u>48</u>		<u>80</u>		<u>48</u>	
P18 <u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	
P19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	
P20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	
100		60		100		60	

13268 DST #1

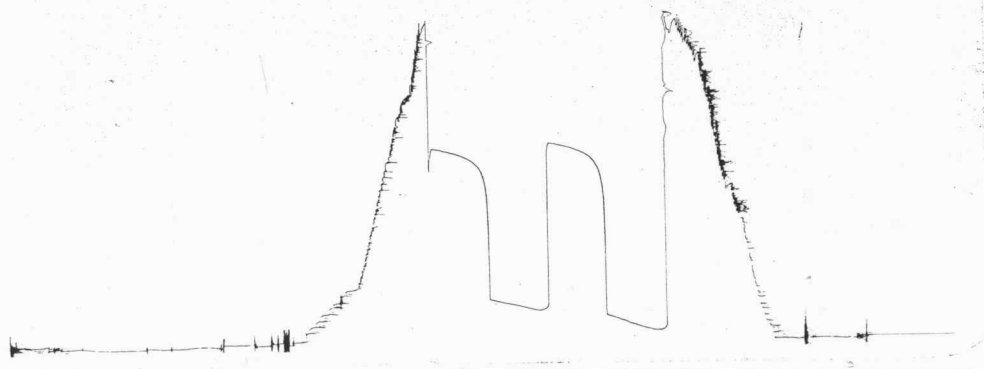
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13265 DST #1

19613
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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1 - 800-688-7021

COMPANY SID TOMLINSON OIL LEASE & WELL NO. GAGE #1 SEC. 26 TWP. 17 RGE. 13W TEST NO. 1 DATE 6-26-93

DST REPORT

GENERAL INFORMATION

DATE : 6-26-93
CUSTOMER : SID TOMLINSON OIL
WELL : 1 TEST: 1
ELEVATION: 1859 G.L.
SECTION : 26
RANGE : 13W COUNTY: BARTON
GAUGE SN#: 13268 RANGE : 4225

TICKET : 19613
LEASE : GAGE
GEOLOGIST: HONAS
FORMATION: ARBUCKLE
TOWNSHIP : 17
STATE : KS
CLOCK : 12HR

WELL INFORMATION

PERFORATION INTERVAL FROM: 3294.00 ft TO: 3334.00 ft TVD: 3334.0 ft
DEPTH OF SELECTIVE ZONE: TEST TYPE: OIL
DEPTH OF RECORDERS: 3297.0 ft 3300.0 ft
TEMPERATURE: 117.0

DRILL COLLAR LENGTH:	0.0 ft	I.D.:	0.000 in
WEIGHT PIPE LENGTH :	568.0 ft	I.D.:	2.500 in
DRILL PIPE LENGTH :	2706.0 ft	I.D.:	3.800 in
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :	5.500 in
ANCHOR LENGTH :	40.0 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:	3289.0 ft	SIZE:	6.625 in
PACKER DEPTH:	3294.0 ft	SIZE:	6.625 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in
PACKER DEPTH:	0.0 ft	SIZE:	0.000 in

MUD INFORMATION

DRILLING CON. :	ALLEN RIG #2	VISCOSITY :	43.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	10.400 cc
WEIGHT :	9.300 ppg	SERIAL NUMBER:	
CHLORIDES :	7000 ppm	REVERSED OUT?:	NO
JARS-MAKE :	NONE		
DID WELL FLOW?:	NO		

COMMENTS

Comment

INITIAL FLOW PERIOD WEAK BLOW BUILDING TO STRONG
IN 25 MIN.BOTTOM OF BUCKET
FINAL FLOW PERIOD STRONG BLOW

DST REPORT (CONTINUED)

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
300.0	100.0	0.0	0.0	0.0	CLEAN OIL
240.0	40.0	20.0	0.0	40.0	GAS AND MUD CUT OIL

RATE INFORMATION

OIL VOLUME:	2.4041	STB		
GAS VOLUME:	1.6362	SCF		
MUD VOLUME:	0.5828	STB		
WATER VOLUME:	0.0000	STB		
TOTAL FLUID :	2.9869	STB		
			TOTAL FLOW TIME:	90.0000 min.
			AVERAGE OIL RATE:	47.7906 STB/D
			AVERAGE WATER RATE:	0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1645.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	106.00	106.00
INITIAL SHUT-IN	45.00		980.00
FINAL FLOW	45.00	192.00	192.00
FINAL SHUT-IN	45.00		980.00

FINAL HYDROSTATIC PRESSURE: 1645.00

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1632.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	117.00	106.00
INITIAL SHUT-IN	45.00		991.00
FINAL FLOW	45.00	106.00	96.00
FINAL SHUT-IN	45.00		963.00

FINAL HYDROSTATIC PRESSURE: 1629.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE : 6-26-93	TICKET : 19613
CUSTOMER : SID TOMLINSON OIL	LEASE : GAGE
WELL : 1 TEST: 1	GEOLOGIST: HONAS
ELEVATION: 1859 G.L.	FORMATION: ARBUCKLE
SECTION : 26	TOWNSHIP : 17
RANGE : 13W	STATE : KS
GAUGE SN#: 13268	CLOCK : 12HR
COUNTY: BARTON	
RANGE : 4225	

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	117.00	117.00
5.00	106.00	-11.00
10.00	94.00	-12.00
15.00	89.00	-5.00
20.00	89.00	0.00
25.00	89.00	0.00
30.00	91.00	2.00
35.00	96.00	5.00
40.00	103.00	7.00
45.00	106.00	3.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	682.00	682.00	0.00
6.00	794.00	112.00	0.00
9.00	840.00	46.00	0.00
12.00	865.00	25.00	0.00
15.00	885.00	20.00	0.00
18.00	904.00	19.00	0.00
21.00	917.00	13.00	0.00
24.00	929.00	12.00	0.00
27.00	942.00	13.00	0.00
30.00	953.00	11.00	0.00
33.00	959.00	6.00	0.00
36.00	970.00	11.00	0.00
39.00	978.00	8.00	0.00
42.00	985.00	7.00	0.00
45.00	991.00	6.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	106.00	106.00
5.00	98.00	-8.00
10.00	91.00	-7.00
15.00	89.00	-2.00
20.00	89.00	0.00
25.00	89.00	0.00
30.00	90.00	1.00
35.00	91.00	1.00
40.00	94.00	3.00
45.00	96.00	2.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	666.00	666.00	0.00
6.00	778.00	112.00	0.00
9.00	819.00	41.00	0.00
12.00	842.00	23.00	0.00
15.00	864.00	22.00	0.00
18.00	880.00	16.00	0.00
21.00	893.00	13.00	0.00
24.00	906.00	13.00	0.00
27.00	917.00	11.00	0.00
30.00	927.00	10.00	0.00
33.00	934.00	7.00	0.00
36.00	946.00	12.00	0.00
39.00	953.00	7.00	0.00
42.00	959.00	6.00	0.00
45.00	963.00	4.00	0.00