



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

WESTERN TESTING CO., INC. FORMATION TESTING

TICKET **No** **20469**

Elevation 1791 KB Formation Viola Eff. Pay — Ft.

District GREAT Bend Date 6-6-94 Customer Order No. —

COMPANY NAME WOODMAN-TANNITTI Oil Co.

ADDRESS P.O. Box 308 GREAT Bend, KS 67530-0308

LEASE AND WELL NO. Purdy-Siegrist #1 COUNTY Reno STATE Ks Sec. 20 Twp. 23 Rge. 10

Mail Invoice To SAME Co. Name #1 Siegrist - Purdy Address — No. Copies Requested Reg

Mail Charts To SAME Address — No. Copies Requested Reg

Formation Test No. 1 Interval Tested From 3605 ft. to 3660 ft. Total Depth 3660 ft.

Packer Depth 3600 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Packer Depth 3605 ft. Size 6 5/8 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3652 ft. Recorder Number 10220 Cap. 4/150

Bottom Recorder Depth (Outside) 3655 ft. Recorder Number 13550 Cap. 4/125

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

Drilling Contractor Emphasis Drilling Drill Collar Length — I. D. — in.

Mud Type Chemical Viscosity 45 Weight Pipe Length 380 I. D. 2.7 in.

Weight 9.3 Water Loss 9.6 cc. Drill Pipe Length 3205 I. D. 3.8 in.

Chlorides 5,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make — Serial Number — Anchor Length 55 ft. Size 5 1/2 in.

Did Well Flow? GAS 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 X 1 1/4 in.

Blow: IF - STRONG BLOW IN 1 min GAS TO SURFACE IN 16 min

FF - GAS TO SURFACE

Recovered 6.5 ft. of gas cut mud 5% gas 95% mud

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

Recovered — ft. of —

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

Time On Location 6:00 A.M. Time Pick Up Tool 8:15 A.M. Time Off Location 3:00 A.M.

Time Set Packer(s) 10:05 A.M. Time Started Off Bottom 1:05 A.M. Maximum Temperature 112

Initial Hydrostatic Pressure — (A) 1817 P.S.I.

Initial Flow Period 45 Minutes (B) 62 P.S.I. to (C) 62 P.S.I.

Initial Closed In Period 45 Minutes (D) 458 P.S.I.

Final Flow Period 45 Minutes (E) 72 P.S.I. to (F) 72 P.S.I.

Final Closed In Period 45 Minutes (G) 447 P.S.I.

Final Hydrostatic Pressure — (H) 1796 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 John S. Mager
Signature of Customer or his authorized representative

Western Representative Ray Schwager

THANK
you

FIELD INVOICE

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

Phone 316 262-5861

P. O. Box 1599
WICHITA, KANSAS 67201N^o 1181

GAS FLOW REPORT

Date 6-6-94 Ticket 20469 Company WOODMAN-IANNITTI OIL Co.
 Well Name and No. Purdy-Siegrist #1 Dst No. 1 Interval Tested 3605-3660
 County Reo State Ks Sec. 20 Twp. 23 Rg. 10

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
H ₂ O GAUGE PRE FLOW GAS TO SURFACE IN 16 MIN					
20	9	3/4"			42,500 CFPD
30	38	1/2"			38,600 "
40	28	1/2"			33,200 "
45	28	1/2"			33,200 "

H ₂ O GAUGE SECOND FLOW					
5	28	1/2"			33,200 CFPD
15	32	1/2"			35,500 "
25	32	1/2"			35,500 "
35	32	1/2"			35,500 "
45	32	1/2"			35,500 "

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 _____

Test Ticket No. 200169

Recorder No. _____ Capacity _____ Location _____ Ft.

Clock No. _____ Elevation _____ Well Temperature _____ °F

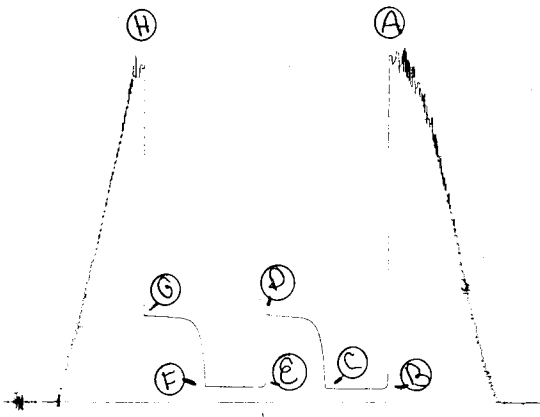
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud <u>1871</u>	P.S.I.	Open Tool	M	
B First Initial Flow Pressure _____	P.S.I.	First Flow Pressure	<u>45</u> Mins. <u>45</u> Mins.	
C First Final Flow Pressure _____	P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins. <u>42</u> Mins.	
D Initial 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. _____ Mins.	
F Second Final Flow Pressure _____	P.S.I.			
G Final Closed-in Pressure _____	P.S.I.			
H Final Hydrostatic Mud <u>1822</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>78</u> <u>74</u>	<u>0</u>	<u>74</u>	<u>0</u>	<u>78</u>	<u>0</u>	<u>78</u>
P 2 <u>5</u>	<u>74</u>	<u>3</u> <u>200</u>	<u>343</u> <u>OK</u>	<u>5</u>	<u>78</u>	<u>3</u> <u>418</u>	<u>328</u>
P 3 <u>10</u>	<u>74</u>	<u>6</u> <u>292</u>	<u>415</u>	<u>10</u>	<u>78</u>	<u>6</u> <u>384</u>	<u>402</u>
P 4 <u>15</u>	<u>74</u>	<u>9</u> <u>415</u>	<u>440</u>	<u>15</u>	<u>78</u>	<u>9</u> <u>500</u>	<u>432</u> <u>418</u>
P 5 <u>20</u>	<u>74</u>	<u>12</u> <u>443</u>	<u>459</u>	<u>20</u>	<u>78</u>	<u>12</u> <u>418</u>	<u>447</u>
P 6 <u>25</u>	<u>74</u>	<u>15</u> <u>451</u>	<u>463</u>	<u>25</u>	<u>78</u>	<u>15</u> <u>445</u>	<u>457</u>
P 7 <u>30</u>	<u>74</u>	<u>18</u> <u>456</u>	<u>470</u>	<u>30</u>	<u>78</u>	<u>18</u> <u>450</u>	<u>459</u>
P 8 <u>35</u>	<u>74</u>	<u>21</u> <u>459</u>	<u>472</u>	<u>35</u>	<u>78</u>	<u>21</u> <u>452</u>	<u>463</u>
P 9 <u>40</u>	<u>74</u>	<u>24</u> <u>461</u>	<u>472</u>	<u>40</u>	<u>78</u>	<u>24</u> <u>454</u>	<u>466</u>
P 10 <u>45</u>	<u>74</u>	<u>27</u> <u>462</u>	<u>472</u>	<u>45</u>	<u>78</u>	<u>27</u> <u>456</u>	<u>468</u>
P 11 <u>50</u>		<u>30</u> <u>462</u>	<u>476</u>	<u>50</u>		<u>30</u> <u>458</u>	<u>470</u>
P 12 <u>55</u>		<u>33</u> <u>465</u>	<u>476</u>	<u>55</u>		<u>33</u> <u>460</u>	<u>470</u>
P 13 <u>60</u>		<u>36</u> <u>467</u>	<u>478</u>	<u>60</u>		<u>36</u> <u>462</u>	<u>470</u>
P 14 <u>65</u>		<u>39</u> <u>469</u>	<u>478</u>	<u>65</u>		<u>39</u> <u>464</u>	<u>470</u>
P 15 <u>70</u>		<u>42</u> <u>471</u>	<u>480</u>	<u>70</u>		<u>42</u> <u>465</u>	<u>470</u>
P 16 <u>75</u>		<u>45</u>	<u>473</u>	<u>75</u>		<u>45</u> <u>466</u>	<u>470</u>
P 17 <u>80</u>		<u>48</u>		<u>80</u>		<u>48</u>	
P 18 <u>85</u>		<u>51</u>		<u>85</u>		<u>51</u>	
P 19 <u>90</u>		<u>54</u>		<u>90</u>		<u>54</u>	
P 20 <u>95</u>		<u>57</u>		<u>95</u>		<u>57</u>	
<u>100</u>		<u>60</u>		<u>100</u>		<u>60</u>	

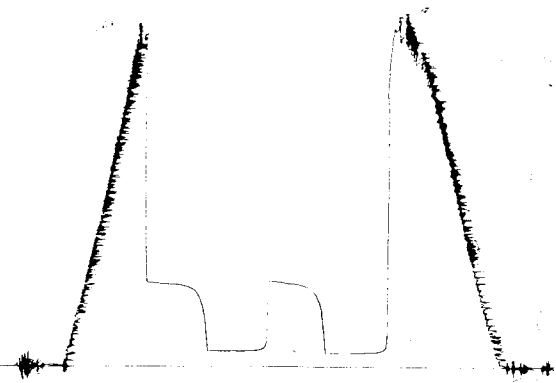
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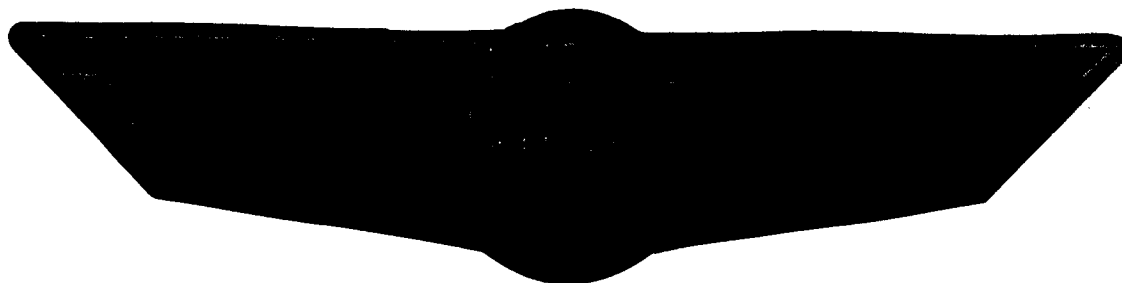


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FORMATION TEST REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone 1-800-688-7021

DST REPORT

GENERAL INFORMATION

DATE	: 6/6/94	TICKET	: 20469
CUSTOMER	: WOODMAN-IANNITTI OIL CO	LEASE	: SIEGRIST-PURDY
WELL	: #1	TEST: 1	GEOLOGIST: MORGENSTEEN
ELEVATION	: 1791 KB	FORMATION	: VIOLA
SECTION	: 20	TOWNSHIP	: 23S
RANGE	: 10W	STATE	: KS
GAUGE SN#	: 10270	RANGE	: 4150
		CLOCK	: 12

WELL INFORMATION

PERFORATION INTERVAL FROM:	3605.00 ft	TO:	3660.00 ft	TVD:	3660.0 ft
DEPTH OF SELECTIVE ZONE:				TEST TYPE:	GAS
DEPTH OF RECORDERS:	3652.0 ft		3655.0 ft		
TEMPERATURE:	112.0				
DRILL COLLAR LENGTH:	0.0 ft	I.D.:		0.000 in	
WEIGHT PIPE LENGTH :	380.0 ft	I.D.:		2.700 in	
DRILL PIPE LENGTH :	3205.0 ft	I.D.:		3.800 in	
TEST TOOL LENGTH :	20.0 ft	TOOL SIZE :		5.500 in	
ANCHOR LENGTH :	55.0 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:	3600.0 ft	SIZE:		6.630 in	
PACKER DEPTH:	3605.0 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. :	EMPHASIS RIG 5	VISCOSITY :	45.00 cp
MUD TYPE :	CHEMICAL	WATER LOSS:	9.600 cc
WEIGHT :	9.300 ppg		
CHLORIDES :	5000 ppm	SERIAL NUMBER:	
JARS-MAKE :		REVERSED OUT?:	NO
DID WELL FLOW?:	YES		

COMMENTS

Comment

INITIAL FLOW PERIOD STRONG BLOW IN 1 MINUTE. GAS
TO SURFACE IN 16 MINUTES. FINAL FLOW PERIOD GAS
TO SURFACE. SEE GAS SHEET.

DST REPORT (CONTINUED)

COMMENTS (CONTINUED)

Comment

FLUID RECOVERY

Feet of Fluid	% Oil	% Gas	% Water	% Mud	Comments
65.0	0.0	5.0	0.0	95.0	GAS CUT MUD

RATE INFORMATION

OIL VOLUME: 0.0000 STB
 GAS VOLUME: 0.1292 SCF
 MUD VOLUME: 0.4373 STB
 WATER VOLUME: 0.0000 STB
 TOTAL FLUID : 0.4373 STB

TOTAL FLOW TIME: 90.0000 min.
 AVERAGE OIL RATE: 0.0000 STB/D
 AVERAGE WATER RATE: 0.0000 STB/D

FIELD TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1817.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	62.00	62.00
INITIAL SHUT-IN	45.00		458.00
FINAL FLOW	45.00	72.00	72.00
FINAL SHUT-IN	45.00		447.00

FINAL HYDROSTATIC PRESSURE: 1796.00

DST REPORT (CONTINUED)

OFFICE TIME & PRESSURE INFORMATION

INITIAL HYDROSTATIC PRESSURE: 1871.00

Description	Duration	p1	p End
INITIAL FLOW	45.00	74.00	74.00
INITIAL SHUT-IN	45.00		473.00
FINAL FLOW	45.00	78.00	78.00
FINAL SHUT-IN	45.00		466.00

FINAL HYDROSTATIC PRESSURE: 1822.00

PRESSURE TRANSIENT REPORT

GENERAL INFORMATION

DATE	: 6/6/94	TICKET	: 20469
CUSTOMER	: WOODMAN-IANNITTI OIL CO	LEASE	: SIEGRIST-PURDY
WELL	: #1	TEST: 1	GEOLOGIST: MORGENSTEEN
ELEVATION:	1791 KB	FORMATION:	VIOLA
SECTION	: 20	TOWNSHIP	: 23S
RANGE	: 10W	COUNTY:	RENO
GAUGE SN#:	10270	RANGE	: 4150
		STATE	: KS
		CLOCK	: 12

INITIAL FLOW

Time (min)	Pressure	Delta P
0.00	74.00	74.00
5.00	74.00	0.00
10.00	74.00	0.00
15.00	74.00	0.00
20.00	74.00	0.00
25.00	74.00	0.00
30.00	74.00	0.00
35.00	74.00	0.00
40.00	74.00	0.00
45.00	74.00	0.00

INITIAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	300.00	300.00	0.00
6.00	393.00	93.00	0.00
9.00	425.00	32.00	0.00
12.00	443.00	18.00	0.00
15.00	451.00	8.00	0.00
18.00	456.00	5.00	0.00
21.00	459.00	3.00	0.00
24.00	461.00	2.00	0.00
27.00	462.00	1.00	0.00
30.00	463.00	1.00	0.00
33.00	465.00	2.00	0.00
36.00	467.00	2.00	0.00
39.00	469.00	2.00	0.00
42.00	471.00	2.00	0.00
45.00	473.00	2.00	0.00

PRESSURE TRANSIENT REPORT (CONTINUED)

FINAL FLOW

Time (min)	Pressure	Delta P
0.00	78.00	78.00
5.00	78.00	0.00
10.00	78.00	0.00
15.00	78.00	0.00
20.00	78.00	0.00
25.00	78.00	0.00
30.00	78.00	0.00
35.00	78.00	0.00
40.00	78.00	0.00
45.00	78.00	0.00

FINAL SHUT IN

Time (min)	Pressure	Delta P	Horner T
3.00	298.00	298.00	0.00
6.00	384.00	86.00	0.00
9.00	418.00	34.00	0.00
12.00	438.00	20.00	0.00
15.00	445.00	7.00	0.00
18.00	450.00	5.00	0.00
21.00	452.00	2.00	0.00
24.00	454.00	2.00	0.00
27.00	456.00	2.00	0.00
30.00	458.00	2.00	0.00
33.00	460.00	2.00	0.00
36.00	462.00	2.00	0.00
39.00	464.00	2.00	0.00
42.00	465.00	1.00	0.00
45.00	466.00	1.00	0.00