



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No 3278

P. O. BOX 1599 PHONE (316) 838-0601

WICHITA, KANSAS 67201

Elevation Est 1249 KB Formation Miss. Eff. Pay - Ft.District Augusta Date 8-26-79 Customer Order No. -COMPANY NAME Griggs Oil Inc.ADDRESS 1625 Richards K B S B S T Wichita KsLEASE AND WELL NO. Lloyd #1 COUNTY Elk STATE Ks Sec. 14 Twp 31S Rge 9EMail Invoice To Same Co. Name - Address - No. Copies Requested 1Mail Charts To Same Co. Name - Address - No. Copies Requested 5Formation Test No. 1 Interval Tested from 2297 ft. to 2312 ft. Total Depth 2312 ft.Packer Depth 2297 ft. Size 5 1/2 in. Packer Depth - ft. Size - in.Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.Depth of Selective Zone Set -Top Recorder Depth (Inside) 2305 ft. Recorder Number 1564 Cap. 3150Bottom Recorder Depth (Outside) 2308 ft. Recorder Number 10980 Cap. 4200Below Straddle Recorder Depth - ft. Recorder Number - Cap. -Drilling Contractor Edco Drilling Co #1 Drill Collar Length 234 I. D. 2 in.Mud Type Chem Viscosity 42 Weight Pipe Length - I. D. - in.Weight 9.9 Water Loss 12.8 cc. Drill Pipe Length 2048 I. D. 2.7 in.Chlorides 1400 P.P.M. Test Tool Length 30 ft. Tool Size 4 1/2 00 in.Jars: Make - Serial Number - Anchor Length 15 ft. Size 4 1/2 00 in.Did Well Flow? Gas Reversed Out 76 Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.Main Hole Size 6 1/4 in. Tool Joint Size 3 1/2 IF in.Blow: Strong thruout test - Gas to surface 50 minutes (See Remarks)Recovered 55 ft. of Heavy oil & gas cut mud (Fluid Recovery) 40% oil - 60% mudRecovered - ft. of -Recovered - ft. of -Recovered - ft. of -Recovered - ft. of -Remarks: Gas gauged 6,550 CFPD down to 5,320 CFPD at end of test70 miles from Augusta to location 20 miles @ 60¢ per mile = \$12.00Time Set Packer(s) 2:15 A.M. Time Started Off Bottom 5:00 A.M. Maximum Temperature 106Initial Hydrostatic Pressure 1200 P.S.I. (A) 1200 P.S.I.Initial Flow Period 30 Minutes (B) 30 P.S.I. to (C) 40 P.S.I.Initial Closed In Period 30 Minutes (D) 450 P.S.I.Final Flow Period 60 Minutes (E) 45 P.S.I. to (F) 45 P.S.I.Final Closed In Period 45 Minutes (G) 460 P.S.I.Final Hydrostatic Pressure 1195 P.S.I. (H) 1195 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] J.G. Wright
Signature of Customer or his authorized representativeWestern Representative Norman Allen

FIELD INVOICE

Open Hole Test	\$ <u>440.00</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>12.00</u>
Fluid Sampler	\$ <u>-</u>
Extra Charts	\$ <u>-</u>

TOTAL \$ 452.00

WESTERN TESTING CO., INC.

Pressure Data

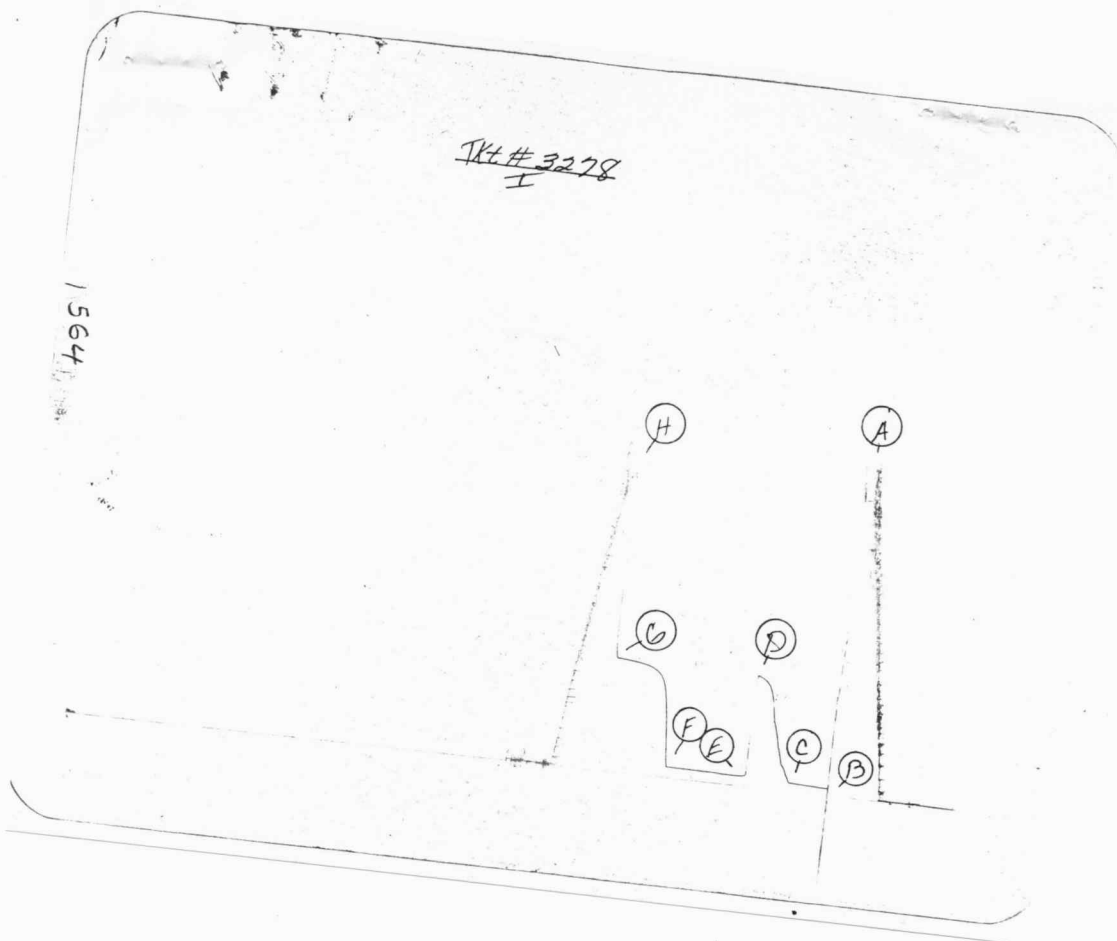
Date 8-26-79 Test Ticket No. 3278
 Recorder No. 1564 Capacity 3/50 Location 2305 Ft.
 Block No. — Elevation Est. 1249 KLB Well Temperature 106 °F
 Point Pressure Time Given Time Computed
 Initial Hydrostatic Mud 1204 P.S.I. Open Tool 2:15 P.M.
 First Initial Flow Pressure 29 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 First Final Flow Pressure 37 P.S.I. Initial Closed-in Pressure 30 Mins. 30 Mins.
 Initial Closed-in Pressure 449 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 Second Initial Flow Pressure 40 P.S.I. Final Closed-in Pressure 45 Mins. 45 Mins.
 Second Final Flow Pressure 40 P.S.I.
 Final Closed-in Pressure 459 P.S.I.
 Final Hydrostatic Mud 1191 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>15</u> 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 ins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1 0	<u>29</u>	0	<u>37</u>	0	<u>40</u>	0	<u>40</u>
2 5	<u>33</u>	3	<u>62</u>	5		3	<u>168</u>
3 10	<u>34</u>	6	<u>96</u>	10		6	<u>302</u>
4 15	<u>34</u>	9	<u>132</u>	15		9	<u>385</u>
5 20	<u>35</u>	12	<u>193</u>	20		12	<u>411</u>
6 25	<u>36</u>	15	<u>263</u>	25		15	<u>428</u>
7 30	<u>37</u>	18	<u>341</u>	30		18	<u>437</u>
8 35		21	<u>405</u>	35		21	<u>441</u>
9 40		24	<u>431</u>	40		24	<u>447</u>
0 45		27	<u>436</u>	45		27	<u>452</u>
1 50		30	<u>449</u>	50		30	<u>453</u>
2 55		33		55		33	<u>454</u>
3 60		36		60	<u>40</u>	36	<u>456</u>
4		39		65		39	<u>457</u>
5		42		70		42	<u>458</u>
6		45		75		45	<u>459</u>
7		48		80		48	
8		51		85		51	
9		54		90		54	
0		57				57	
1		60				60	

TK# 3228
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1564



Company Griggs Oil, Inc. Lease & Well No. Lloyd #1

Elevation Est. 1249 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 3278

Date 8/26/79 Sec. 14 Twp. 31S Range 9E County Elk State Kansas

Test Approved by T. G. Wright Western Representative Norman Allen

Formation Test No. 1 Interval Tested from 2297 ft. to 2312 ft. Total Depth 2312 ft.

Packer Depth 2297 ft. Size 5½ in. Packer Depth - ft. Size - in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2305 ft. Recorder Number 1564 Cap. 3150

Bottom Recorder Depth (Outside) 2308 ft. Recorder Number 10980 Cap. 4200

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

Drilling Contractor Edco Drilling Co. #1 Drill Collar Length 234 I. D. 2 in.

Mud Type chemical Viscosity 42 Weight Pipe Length - I. D. - in.

Weight 9.9 Water Loss 12.8 cc. Drill Pipe Length 2048 I. D. 2.7 in.

Chlorides 1,400 P.P.M. Test Tool Length 30 ft. Tool Size 4½ OD in.

Jars: Make -- Serial Number -- Anchor Length 15 ft. Size 4½ OD in.

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

Main Hole Size 6¼ in. Tool Joint Size 3½ IF in.

Blow: Strong throughout test. Gas to surface fifty minutes. Hsd gauged 6,550 CFPD down to 5,320 CFPD at end of test.

Recovered 55 ft. of heavy oil and gas cut mud (fluid recovery 40% oil; 60% mud)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:15 ~~A.M.~~ P.M. Time Started Off Bottom 5:00 ~~A.M.~~ P.M. Maximum Temperature 106

Initial Hydrostatic Pressure 1204 P.S.I. (A)

Initial Flow Period 30 Minutes (B) 29 P.S.I. to (C) 37 P.S.I.

Initial Closed In Period 30 Minutes (D) 449 P.S.I.

Final Flow Period 60 Minutes (E) 40 P.S.I. to (F) 40 P.S.I.

Final Closed In Period 45 Minutes (G) 459 P.S.I.

Final Hydrostatic Pressure 1191 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 8/26/79 Test Ticket No. 3278
 Recorder No. 1564 Capacity 3150 Location 2305 Ft.
 Clock No. -- Elevation Est. 1249 Kelly Bushing Well Temperature 106 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1204	P.S.I.	2:15P	M
B First Initial Flow Pressure	29	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	37	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	449	P.S.I.	60	Mins. 60 Mins.
E Second Initial Flow Pressure	40	P.S.I.	45	Mins. 45 Mins.
F Second Final Flow Pressure	40	P.S.I.		
G Final Closed-in Pressure	459	P.S.I.		
H Final Hydrostatic Mud	1191	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 15 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>29</u>	<u>0</u>	<u>37</u>	<u>0</u>	<u>40</u>	<u>0</u>	<u>40</u>
P 2 <u>5</u>	<u>33</u>	<u>3</u>	<u>62</u>	<u>5</u>	<u>40</u>	<u>3</u>	<u>168</u>
P 3 <u>10</u>	<u>34</u>	<u>6</u>	<u>96</u>	<u>10</u>	<u>40</u>	<u>6</u>	<u>302</u>
P 4 <u>15</u>	<u>34</u>	<u>9</u>	<u>132</u>	<u>15</u>	<u>40</u>	<u>9</u>	<u>385</u>
P 5 <u>20</u>	<u>35</u>	<u>12</u>	<u>193</u>	<u>20</u>	<u>40</u>	<u>12</u>	<u>411</u>
P 6 <u>25</u>	<u>36</u>	<u>15</u>	<u>263</u>	<u>25</u>	<u>40</u>	<u>15</u>	<u>428</u>
P 7 <u>30</u>	<u>37</u>	<u>18</u>	<u>341</u>	<u>30</u>	<u>40</u>	<u>18</u>	<u>437</u>
P 8		<u>21</u>	<u>405</u>	<u>35</u>	<u>40</u>	<u>21</u>	<u>441</u>
P 9		<u>24</u>	<u>431</u>	<u>40</u>	<u>40</u>	<u>24</u>	<u>447</u>
P10		<u>27</u>	<u>436</u>	<u>45</u>	<u>40</u>	<u>27</u>	<u>452</u>
P11		<u>30</u>	<u>449</u>	<u>50</u>	<u>40</u>	<u>30</u>	<u>453</u>
P12				<u>55</u>	<u>40</u>	<u>33</u>	<u>454</u>
P13				<u>60</u>	<u>40</u>	<u>36</u>	<u>456</u>
P14						<u>39</u>	<u>457</u>
P15						<u>42</u>	<u>458</u>
P16						<u>45</u>	<u>459</u>
P17							
P18							
P19							
P20							