



P. O. BOX 1599 PHONE (316) 838-0601  
WICHITA, KANSAS 67201

WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET N<sup>o</sup> 4700

Elevation 2413 KB Formation K.C. Eff. Pay      Ft.

District Wakeeney Date 6-17-80 Customer Order No.     

COMPANY NAME Oxford Exploration Company, Inc.  
ADDRESS 1030 Denver Club Bldg, Denver, Co. 80202

LEASE AND WELL NO. Richards 22-4 COUNTY Decatur STATE Ks Sec. 22 Twp 1s Rge 26w

Mail Invoice To Sam Co. Name Sam Address      No. Copies Requested 5

Mail Charts To Sam Address      No. Copies Requested 5

Formation Test No. 1 Interval Tested from 3194 ft. to 3210 ft. Total Depth 3528 ft.

Packer Depth 3194 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Packer Depth 3210 ft. Size 6 3/4 in. Packer Depth      ft. Size      in.

Depth of Selective Zone Set     

Top Recorder Depth (Inside) 3197 ft.

Recorder Number 1564 Cap. 3150

Bottom Recorder Depth (Outside) 3200 ft.

Recorder Number 3085 Cap. 4500

Below Straddle Recorder Depth 3528 ft.

Recorder Number 41 Cap.     

Drilling Contractor Murfin Rig #7

Drill Collar Length 174 I. D. 2.26 in.

Mud Type Chen Viscosity 37

Weight Pipe Length 953 I. D. 2.76 in.

Weight 9.5 Water Loss 20.8 cc.

Drill Pipe Length 2390 I. D. 3.8 in.

Chlorides 3,000 P.P.M.

Test Tool Length 14 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number     

Anchor Length 16 Between 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 7/8 in. Tool Joint Size 4 1/2 F4 in.

Blow: Misrun - Packer Failure

Recovered 200 ft. of Drilling mud.

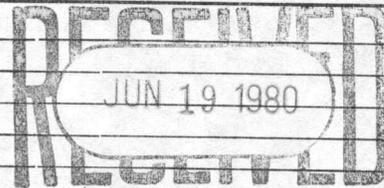
Recovered      ft. of     

Recovered      ft. of     

Recovered      ft. of     

Recovered      ft. of     

Remarks: On Loc. 2:30 Pick up Tool 3:45  
318' Tail Pipe 16' Between Packers



Time Set Packer(s) 5:27 ~~P.M.~~ <sup>A.M.</sup> Time Started Off Bottom 5:45 ~~P.M.~~ <sup>A.M.</sup> Maximum Temperature     

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

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

Initial Closed In Period      Minutes (D)      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)      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      A.E. Park  
Signature of Customer or his authorized representative

Western Representative Ken Mehta

Thank You!

FIELD INVOICE

Open Hole Test \$     

Misrun \$ 300.00

Straddle Test \$ 250.00

Jars \$     

Selective Zone \$     

Safety Joint \$     

Standby \$     

Evaluation \$     

Extra Packer \$     

Circ. Sub. \$     

X.75¢ Mileage 85 mi \$ 63.75

Fluid Sampler \$     

Extra Charts \$     

TOTAL \$ 613.75

.1564

Kit # 4700

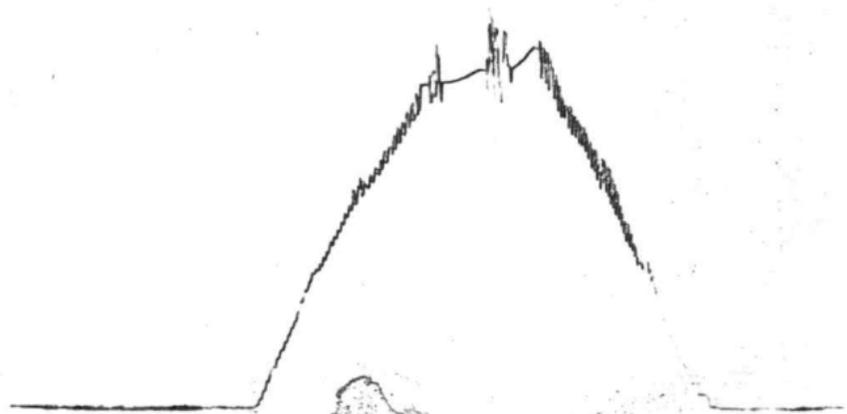
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Plot # 4700

Below Straddle







WESTERN TESTING CO., INC.  
FORMATION TESTING

TICKET No 5001

P. O. BOX 1599 PHONE (316) 838-0601  
WICHITA, KANSAS 67201

Elevation 2413 KB Formation K.C. Eff. Pay  Ft.

District Waukeaney Date 6-17-80 Customer Order No.

COMPANY NAME Oxford Exploration Company Inc.

ADDRESS 1030 Denver Club Bldg., Denver, Co. 80202

LEASE AND WELL NO. Richards #224 COUNTY Decatur STATE Ks Sec. 22 Twp 1s Rge 26w

Mail Invoice To Same Co. Name Same Address Same No. Copies Requested 5

Mail Charts To Same Address Same No. Copies Requested 5

Formation Test No. 2 Interval Tested from 3197 ft. to 3210 ft. Total Depth 3528 ft.  
Packer Depth 3197 ft. Size 6 3/4 in. Packer Depth 3210 ft. Size 6 3/4 in.  
Packer Depth 3210 ft. Size 6 3/4 in. Packer Depth 3210 ft. Size 6 3/4 in.  
Depth of Selective Zone Set ✓

Top Recorder Depth (Inside) 3201 ft. Recorder Number 1564 Cap. 3150  
Bottom Recorder Depth (Outside) 3204 ft. Recorder Number 3085 Cap. 4500  
Below Straddle Recorder Depth 3528 ft. Recorder Number 41 Cap. ?

Drilling Contractor Murphy Rig #7 Drill Collar Length 174 I. D. 2.26 in.  
Mud Type Chem Viscosity 43 Weight Pipe Length 953 I. D. 2.76 in.  
Weight 9.5 Water Loss 20.8 cc. Drill Pipe Length 2390 I. D. 3.8 in.  
Chlorides 3,000 P.P.M. Test Tool Length 14 ft. Tool Size 5 1/2 in.  
Jars: Make NO Serial Number ✓ Anchor Length 13' Between 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 F 4 in.

Blow: Very Weak Building to Fair Blow 1st Open Same 2nd Open

Recovered 190 ft. of Slightly Oil Cut Muddy Salt Water  
Recovered        ft. of (1800 Chlorides)  
Recovered        ft. of         
Recovered        ft. of         
Recovered        ft. of       

Remarks: On Loc. 2:30 AM Pick up Tool 7:45 Left Loc.  
318' Tail Pipe - 13' Between Packers

Time Set Packer(s) 9:27 A.M. P.M. Time Started Off Bottom 12:30 A.M. P.M. Maximum Temperature         
Initial Hydrostatic Pressure        (A) 2113 P.S.I.  
Initial Flow Period 30 Minutes (B) 47 P.S.I. to (C) 70 P.S.I.  
Initial Closed In Period 60 Minutes (D) 623 P.S.I.  
Final Flow Period 30 Minutes (E) 93 P.S.I. to (F) 93 P.S.I.  
Final Closed In Period 60 Minutes (G) 608 P.S.I.  
Final Hydrostatic Pressure        (H) 2097 P.S.I.

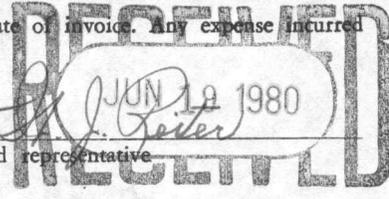
COMPANY TERMS

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 of 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 Ken M. [Signature]  
Thank You!



FIELD INVOICE

Open Hole Test \$ 550.00  
Misrun \$         
Straddle Test \$ 250.00  
Jars \$         
Selective Zone \$         
Safety Joint \$         
Standby \$         
Evaluation \$         
Extra Packer 200.00 \$         
Circ. Sub. \$         
Mileage \$         
Fluid Sampler \$         
Extra Charts \$         
TOTAL \$ 1,000.00

**WESTERN TESTING CO., INC.**  
**Pressure Data**

Date 6-17- Test Ticket No. 5001  
 Recorder No. 1564 Capacity 3150 Location 3201 Ft.  
 Clock No. - Elevation 2413 KB Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A. Initial Hydrostatic Mud	<u>2114</u> P.S.I.	Open Tool	<u>9:27 A.M.</u>	
B. First Initial Flow Pressure	<u>58</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C. First Final Flow Pressure	<u>70</u> P.S.I.	Initial Closed-in Pressure	<u>40</u> Mins.	<u>60</u> Mins.
D. Initial Closed-in Pressure	<u>621</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>25</u> Mins.
E. Second Initial Flow Pressure	<u>93</u> P.S.I.	Final Closed-in Pressure	<u>40</u> Mins.	
F. Second Final Flow Pressure	<u>97</u> P.S.I.			
G. Final Closed-in Pressure	<u>600</u> P.S.I.			
H. Final Hydrostatic Mud	<u>1777</u> P.S.I.			

**PRESSURE BREAKDOWN**

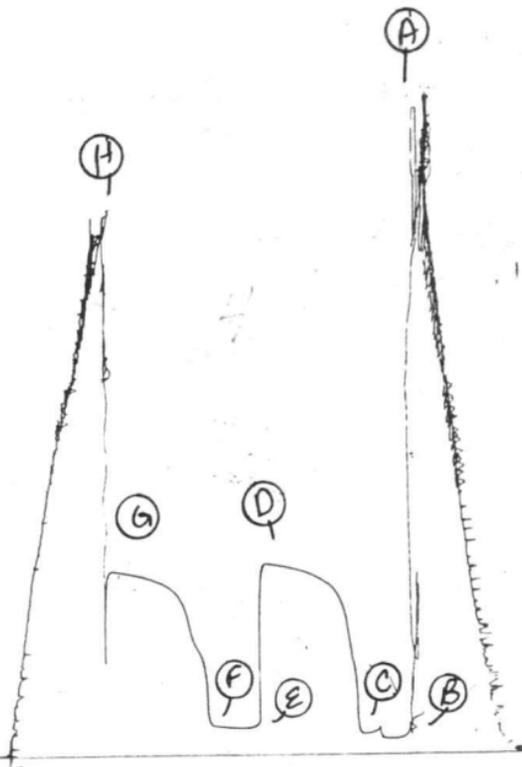
Point Mins.	First Flow Pressure	Initial Shut-In	Second Flow Pressure	Final Shut-In			
	Breakdown: <u>6</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>20</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>5</u> Inc. of <u>5</u> mins. and a final inc. of <u>0</u> Min.	Breakdown: <u>30</u> Inc. of <u>3</u> mins. and a final inc. of <u>0</u> Min.			
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>58</u>	0	<u>70</u>	0	<u>93</u>	0	<u>97</u>
P 2	<u>54</u>	3	<u>264</u>	5	<u>90</u>	3	<u>255</u>
P 3	<u>52</u>	6	<u>335</u>	10	<u>91</u>	6	<u>329</u>
P 4	<u>59</u>	9	<u>427</u>	15	<u>93</u>	9	<u>355</u>
P 5	<u>74</u>	12	<u>481</u>	20	<u>96</u>	12	<u>399</u>
P 6	<u>70</u>	15	<u>515</u>	25	<u>97</u>	15	<u>456</u>
P 7	<u>70</u>	18	<u>542</u>	30		18	<u>498</u>
P 8		21	<u>556</u>	35		21	<u>523</u>
P 9		24	<u>564</u>	40		24	<u>539</u>
P 10		27	<u>574</u>	45		27	<u>551</u>
P 11		30	<u>584</u>	50		30	<u>561</u>
P 12		33	<u>590</u>	55		33	<u>569</u>
P 13		36	<u>598</u>	60		36	<u>575</u>
P 14		39	<u>601</u>	65		39	<u>580</u>
P 15		42	<u>604</u>	70		42	<u>584</u>
P 16		45	<u>611</u>	75		45	<u>588</u>
P 17		48	<u>613</u>	80		48	<u>591</u>
P 18		51	<u>617</u>	85		51	<u>592</u>
P 19		54	<u>619</u>	90		54	<u>596</u>
P 20		57	<u>620</u>			57	<u>600</u>
		60	<u>621</u>			60	<u>600</u>

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1564

Jkt. # 5001

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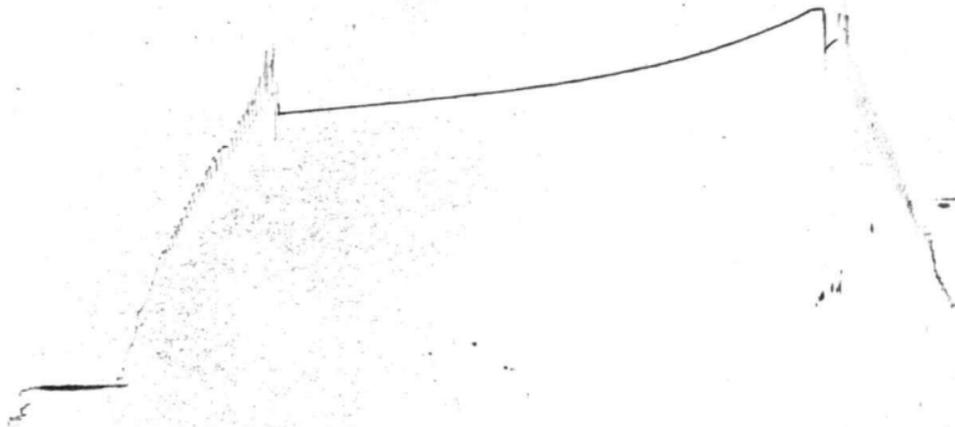


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Jkt # 5001

Below Straddle



Company Oxford Exploration Company, Inc. Lease & Well No. Richards #22-4  
 Elevation 2413 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 5001  
 Date 6-17-80 Sec. 22 Twp. 1S Range 26W County Decature State Kansas  
 Test Approved by W.J. Reiter Western Representative Ken Metzler

Formation Test No. 2 Interval Tested from 3197 ft. to 3210 ft. Total Depth 3528 ft.  
 Packer Depth 3197 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.  
 Packer Depth 3210 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set \_\_\_\_\_  
 Top Recorder Depth (Inside) 3201 ft. Recorder Number 1564 Cap. 3150  
 Bottom Recorder Depth (Outside) 3204 ft. Recorder Number 3085 Cap. 4500  
 Below Straddle Recorder Depth 3528 ft. Recorder Number 41 Cap. -  
 Drilling Contractor Murfin Drlg. Co. Rig #7 Drill Collar Length 174 I. D. 2.26 in.  
 Mud Type Chemical Viscosity 43 Weight Pipe Length 953 I. D. 2.76 in.  
 Weight 9.5 Water Loss 20.8 cc. Drill Pipe Length 2390 I. D. 3.8 in.  
 Chlorides 3,000 P.P.M. Test Tool Length 14 ft. Tool Size 5 1/2 in.  
 Jars: Make No Serial Number - Anchor Length 13 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 FH in.

Blow: Very weak building to fair blow on first and second openings.

Recovered 190 ft. of slightly oil cut muddy salt water (1,800 clorides)  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
 Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Remarks: \_\_\_\_\_

Time Set Packer(s) 9:27 A.M. Time Started Off Bottom 12:30 P.M. Maximum Temperature \_\_\_\_\_  
 Initial Hydrostatic Pressure ..... (A) 2114 P.S.I.  
 Initial Flow Period ..... Minutes 30 (B) 58 P.S.I. to (C) 70 P.S.I.  
 Initial Closed In Period ..... Minutes 60 (D) 621 P.S.I.  
 Final Flow Period ..... Minutes 25 (E) 93 P.S.I. to (F) 97 P.S.I.  
 Final Closed In Period ..... Minutes 60 (G) 600 P.S.I.  
 Final Hydrostatic Pressure ..... (H) 1777 P.S.I.

**WESTERN TESTING CO., INC.**  
Pressure Data

Date 6-17-80 Recorder No. 1564 Capacity 3150 Test Ticket No. 5001  
 Clock No. \_\_\_\_\_ Elevation 2413 Kelly Bushing Location 3201 Ft. \_\_\_\_\_  
 Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2114	P.S.I.	9:27 A M	
B First Initial Flow Pressure	58	P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	70	P.S.I.	60 Mins.	60 Mins.
D Initial Closed-in Pressure	621	P.S.I.	30 Mins.	25 Mins.
E Second Initial Flow Pressure	93	P.S.I.	60 Mins.	60 Mins.
F Second Final Flow Pressure	97	P.S.I.		
G Final Closed-in Pressure	600	P.S.I.		
H Final Hydrostatic Mud	1777	P.S.I.		

**PRESSURE BREAKDOWN**

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes
P 1 0	58	0	70	0	93	0	97	0
P 2 5	54	3	264	3	90	3	255	3
P 3 10	52	6	335	6	91	6	329	6
P 4 15	59	9	427	9	93	9	355	9
P 5 20	76	12	481	12	96	12	399	12
P 6 25	70	15	515	15	97	15	456	15
P 7 30	70	18	542	18		18	498	18
P 8		21	556	21		21	523	21
P 9		24	566	24		24	539	24
P10		27	576	27		27	551	27
P11		30	584	30		30	561	30
P12		33	590	33		33	569	33
P13		36	598	36		36	575	36
P14		39	601	39		39	580	39
P15		42	606	42		42	584	42
P16		45	611	45		45	588	45
P17		48	613	48		48	591	48
P18		51	617	51		51	592	51
P19		54	619	54		54	596	54
P20		57	620	57		57	600	57
WTC - 4		60	621	60		60	600	60