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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 4089

Elevation 2120 K.B. Formation MARMATON Eff. Pay ___ Ft.

District Wakeeney, Ks. Date 5-9-80 Customer Order No. —

COMPANY NAME OXFORD EXPLORATION CO

ADDRESS OK 1030 Denver Club Building, Denver Colo. 80202

LEASE AND WELL NO. #6-13 ~~DUETSCHER~~ COUNTY Trego STATE KS Sec. 6 Twp. 11S Rge. 21W

Mail Invoice To Deutscher #6-13 Same No. Copies Requested 5
Co. Name Address

Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 1 Interval Tested from 3714 ft. to 3735 ft. Total Depth 3735 ft.

Packer Depth 3709 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 3714 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3717 ft. Recorder Number 2608 Cap. 2/1500

Bottom Recorder Depth (Outside) 3720 ft. Recorder Number 3473 Cap. 2/1000

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

Drilling Contractor EMPHASES OIL

Mud Type STARCH-SALT GEL Viscosity 41

Weight 10.0 Water Loss 11.6 cc.

Chlorides 44,000 P.P.M.

Jars: Make NO Serial Number —

Did Well Flow? NO Reversed Out —

Drill Collar Length — I. D. — in.

Weight Pipe Length — I. D. — in.

Drill Pipe Length 3654 I. D. 3.8 in.

Test Tool Length 20 ft. Tool Size 5-1/2 in.

Anchor Length 21 ft. Size 5 1/2 in.

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: WEAK blow building to FAIR blow by end of first opening. WEAK blow building to FAIR blow 27 minutes after second opening.

Recovered 1200 ft. of mud.

Recovered ___ ft. of

Recovered ___ ft. of

Recovered ___ ft. of

Recovered ___ ft. of

Remarks:

Arrived on Loc. at 2:30 PM Left Loc. at 3:30 AM
Found hole in Drill Pipe. THANK YOU!

Time Set Packer(s) 7:35 ~~A.M.~~ P.M. Time Started Off Bottom 10:45 ~~A.M.~~ P.M. Maximum Temperature 116

Initial Hydrostatic Pressure			(A) 2067	P.S.I.		
Initial Flow Period	Minutes 30		(B) 737	P.S.I. to	(C) 706	P.S.I.
Initial Closed In Period	Minutes 30		(D) 1162	P.S.I.		
Final Flow Period	Minutes 45		(E) 737	P.S.I. to	(F) 737	P.S.I.
Final Closed In Period	Minutes 90		(G) 1110	P.S.I.		
Final Hydrostatic Pressure			(H) 2035	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 Harvey Gough
Signature of Customer or his authorized representative

Western Representative David C. Whitfield

RECEIVED
MAY 19 1980

FIELD INVOICE

Open Hole Test	$
Misrun	$ 300.00
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$ 200.00
Circ. Sub.	$
Mileage 17 x 2 x 3.75	$ 12.75
Fluid Sampler	$
Extra Charts	$
TOTAL	$ 512.75

WESTERN TESTING CO., INC.
Pressure Data

Date 5-9-80 Test Ticket No. 4089

Recorder No. 2608 Capacity 4150 Location 3735 Ft.

Clock No. Elevation 2120 KB Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	2017 P.S.I.	Open Tool	7:35 PM	
First Initial Flow Pressure	721 P.S.I.	First Flow Pressure	30 Mins.	15 Mins.
First Final Flow Pressure	706 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
Initial Closed-in Pressure	1195 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
Second Initial Flow Pressure	762 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
Second Final Flow Pressure	750 P.S.I.			
Final Closed-in Pressure	1265 P.S.I.			
Final Hydrostatic Mud	2010 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
P1	0	721
P2	5	Plugging action
P3	10	
P4	15	706
P5	20	
P6	25	
P7	30	
P8	35	
P9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

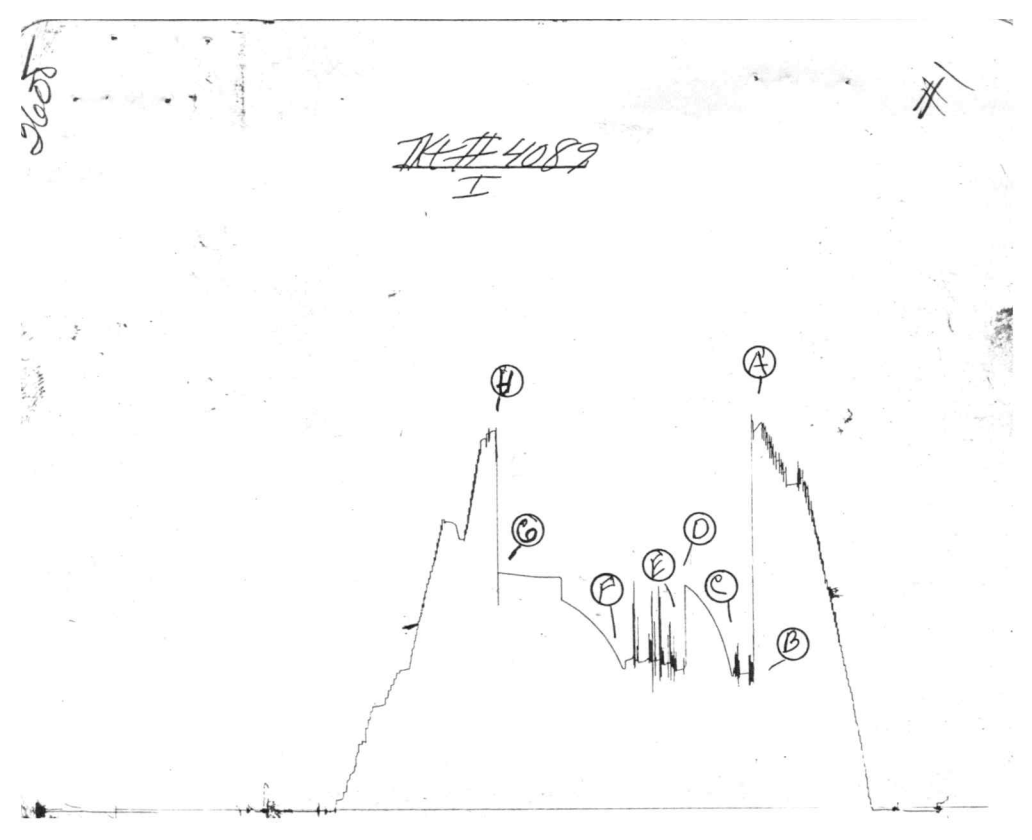
Point	Minutes	Press.
	0	706
	3	810
	6	880
	9	948
	12	996
	15	1041
	18	1072
	21	1104
	24	1130
	27	1155
	30	1176
	33	1195
	36	
	39	
	42	
	45	
	48	
	51	
	54	
	57	
	60	

Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	762
	5	Plugging action
	10	" "
	15	" "
	20	" "
	25	" "
	30	" "
	35	" "
	40	" "
	45	750
	50	
	55	
	60	
	65	
	70	
	75	
	80	
	85	
	90	

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	750
	3	787
	6	836
	9	874
	12	909
	15	938
	18	961
	21	990
	24	1012
	27	1031
	30	1050
	33	1070
	36	1084
	39	1097
	42	1108
	45	1118
	48	1240
	51	1240
	54	1240
	57	1240
	60	1240


H
A
G
F
E
D
C
B

WESTERN TESTING CO., INC.
Pressure Data

ate _____ Test Ticket No. 4089

corder No. _____ Capacity _____ Location _____

ock No. _____ Elevation _____ Well Temperature _____

Point	Pressure		Time Given	Time Computed
Initial Hydrostatic Mud	P.S.I.	Open Tool	M	
First Initial Flow Pressure	P.S.I.	First Flow Pressure	Mins	Mi
First Final Flow Pressure	P.S.I.	Initial Closed-in Pressure	Mins	Mi
Initial Closed-in Pressure	P.S.I.	Second Flow Pressure	Mins	Mi
Second Initial Flow Pressure	P.S.I.	Final Closed-in Pressure	Mins	Mi
Second Final Flow Pressure	P.S.I.			
Final Closed-in Pressure	P.S.I.			
Final Hydrostatic Mud	P.S.I.			

PRESSURE BREAKDOWN

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

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

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

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
1		63				63	1242
2		66				66	1244
3		69				69	1246
4		72				72	1248
5		75				75	1250
6		78				78	1253
7		81				81	1256
8		84				84	1259
9		87				87	1261
10		90				90	1265
11		93				93	
12		96				96	
13		99				99	
14		102				102	
15		105				105	
16		108				108	
17		111				111	
18		114				114	
19		117				117	
20		120				120	

Company Oxford Exploration Company — Lease & Well No. Deutscher # 6-13

Elevation 2120 Kelly Bushing — Formation Marmaton — Effective Pay ---- Ft. — Ticket No. 4089

Date 5/9/80 — Sec. 6 — Twp. 11S — Range 21W — County Trego — State Kansas

Test Approved by Harvey Gough — Western Representative David A. Whitefield

Formation Test No. 1 — Interval Tested from 3714 ft. to 3735 ft. — Total Depth 3735 ft.

Packer Depth 3709 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 3714 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3717 ft. — Recorder Number 2608 — Cap. 4150

Bottom Recorder Depth (Outside) 3720 ft. — Recorder Number 3473 — Cap. 4000

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

Drilling Contractor Emphases OIl — Drill Collar Length - — I. D. - in.

Mud Type starch-salt-clay — Viscosity 41 — Weight Pipe Length - — I. D. - in.

Weight 10.0 — Water Loss 11.6 cc. — Drill Pipe Length 3654 — I. D. 3.8 in.

Chlorides 44,000 P.P.M. — Test Tool Length 20 — Tool Size 5½ in.

Jars: Make No — Serial Number - — Anchor Length 21 ft. — Size 5½ in.

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

Main Hole Size 7 7/8 in. — Tool Joint Size 4½FH in.

Blow: Weak blow building to fair blow by end of first opening. Weak blow building to fair blow twenty-seven minutes after second opening.

Recovered 1200 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Found hole in drill pipe

Time Set Packer(s) 7:35 ~~A.M.~~ P.M. — Time Started Off Bottom 10:45 ~~A.M.~~ P.M. — Maximum Temperature 116°

Initial Hydrostatic Pressure			(A)	2017	P.S.I.	
Initial Flow Period	Minutes 15		(B)	721	P.S.I. to (C)	706 P.S.I.
Initial Closed In Period	Minutes 33		(D)	1195	P.S.I.	
Final Flow Period	Minutes 45		(E)	762	P.S.I. to (F)	750 P.S.I.
Final Closed In Period	Minutes 90		(G)	1265	P.S.I.	
Final Hydrostatic Pressure			(H)	2010	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 5/9/80 Test Ticket No. 4089

Recorder No. 2608 Capacity 4150 Location 3735 Ft.

Clock No. ----- Elevation 2120 Kelly Bushing Well Temperature 116 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2017 P.S.I.	Open Tool	7:35P M	•
B First Initial Flow Pressure	721 P.S.I.	First Flow Pressure	30 Mins.	15 Mins.
C First Final Flow Pressure	706 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D Initial Closed-in Pressure	1195 P.S.I.	Second Flow Pressure	45 Mins.	45 Mins.
E Second Initial Flow Pressure	762 P.S.I.	Final Closed-in Pressure	90 Mins.	90 Mins.
F Second Final Flow Pressure	750 P.S.I.			
G Final Closed-in Pressure	1265 P.S.I.			
H Final Hydrostatic Mud	2010 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Initial Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Final Shut-In
Breakdown: 30 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 0	721	0	706	0	762	0	750
P 2 5	Plugging action	3	810	5	plugging action	3	787
P 3 10	Plugging action	6	880	10	plugging action	6	836
P 4 15	706	9	948	15	plugging action	9	874
P 5		12	996	20	plugging action	12	909
P 6		15	1041	25	plugging action	15	938
P 7		18	1072	30	plugging action	18	961
P 8		21	1104	35	plugging action	21	990
P 9		24	1130	40	plugging action	24	1012
P10		27	1155	45	750	27	1031
P11		30	1176			30	1050
P12		33	1195			33	1070
P13						36	1084
P14						39	1097
P15						42	1108
P16						45	1118
P17						48	1240
P18						51	1240
P19						54	1240
P20						57	1240
						60	1240

WTC - 4

continued next page

WESTERN TESTING CO., INC.
Pressure Data

Date 5/9/80 Test Ticket No. 4089

Recorder No. 2608 Capacity 4150 Location 3735 Ft.

Clock No. ----- Elevation 2120 Kelly Bushing Well Temperature 116 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	2017 P.S.I.		Open Tool	7:35P M	
B	First Initial Flow Pressure	721 P.S.I.		First Flow Pressure	30 Mins.	15 Mins.
C	First Final Flow Pressure	706 P.S.I.		Initial Closed-in Pressure	30 Mins.	33 Mins.
D	Initial Closed-in Pressure	1195 P.S.I.		Second Flow Pressure	45 Mins.	45 Mins.
E	Second Initial Flow Pressure	762 P.S.I.		Final Closed-in Pressure	90 Mins.	90 Mins.
F	Second Final Flow Pressure	750 P.S.I.				
G	Final Closed-in Pressure	1265 P.S.I.				
H	Final Hydrostatic Mud	2010 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Initial Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

Second Flow Pressure
Breakdown: 9 Inc. of 5 mins. and a final inc. of 0 Min.

Final Shut-In
Breakdown: 30 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						63	1242
P 2						66	1244
P 3						69	1246
P 4						72	1248
P 5						75	1250
P 6						78	1253
P 7						81	1256
P 8						84	1259
P 9						87	1261
P10						90	2165
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 4090

Elevation 3120 K.B. Formation MARMATON Eff. Pay — Ft.

District Wakeeney, Ks Date 5-10-80 Customer Order No. —

COMPANY NAME Oxford Exploration Co.

ADDRESS 1030 Denver Club Building, Denver, Colo. 80202

LEASE AND WELL NO. #6-13 Duetscher COUNTY Trego STATE Ks. Sec. 6 Twp. 11S Rge. 27W

Mail Invoice To SAME Deutscher #6-13 No. Copies Requested 5
Co. Name Address

Mail Charts To SAME No. Copies Requested 5
Address

Formation Test No. #2 Interval Tested from 3714 ft. to 3735 ft. Total Depth 3735 ft.

Packer Depth 3709 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Packer Depth 3714 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3717 ft. Recorder Number 2608 Cap. 4150

Bottom Recorder Depth (Outside) 3720 ft. Recorder Number 3473 Cap. 4000

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

Drilling Contractor EMPHASES OIL Drill Collar Length — I. D. — in.

Mud Type Starch Viscosity 48 Weight Pipe Length — I. D. — in.

Weight 10.1 Water Loss 12.2 cc. Drill Pipe Length 3654 I. D. 3.8 in.

Chlorides 38,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.

Jars: Make NO Serial Number — Anchor Length 21 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: Had FAIR blow cause of packer failure. In first opening

Recovered 590 ft. of Mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: ARived on Loc. At. 12:30 did not bother with charts cause of packer failure & did not stay on bottom but 35 minutes,

Time Set Packer(s) 2.35 A.M. P.M. Time Started Off Bottom 3:10 A.M. P.M. Maximum Temperature 114

Initial Hydrostatic Pressure		(A) 2040	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) 2040	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.

RECEIVED MAY 14 1980

Test Approved By Harvey Gough
Signature of Customer or his authorized representative

Western Representative David A. Whitefield

FIELD INVOICE

Open Hole Test	$
Misrun	$ 300.00
Straddle Test	$
Jars	$
Selective Zone	$
Safety Joint	$
Standby	$
Evaluation	$
Extra Packer	$
Circ. Sub.	$
Mileage	$
Fluid Sampler	$
Extra Charts	$
TOTAL	$ 300.00

1608

Tkt#4090
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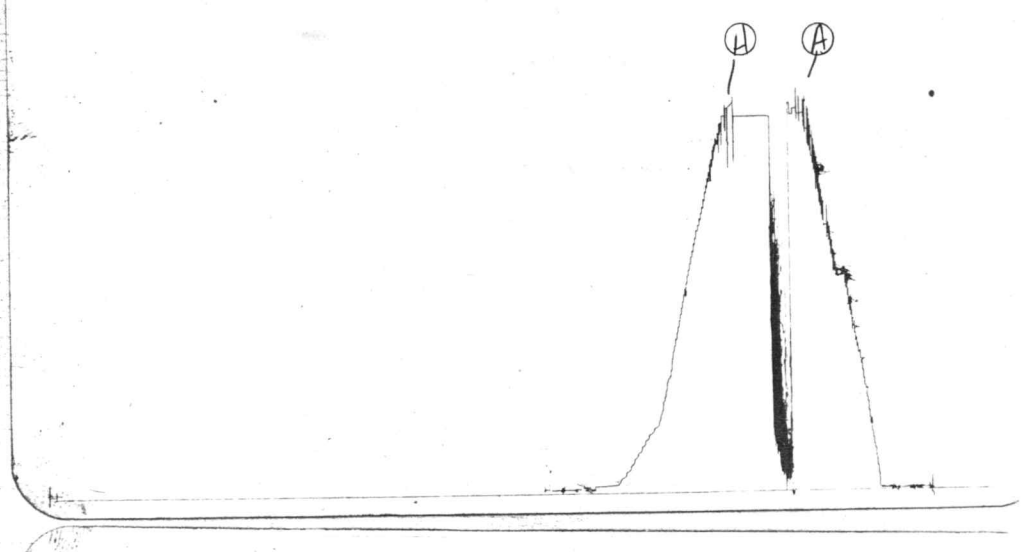

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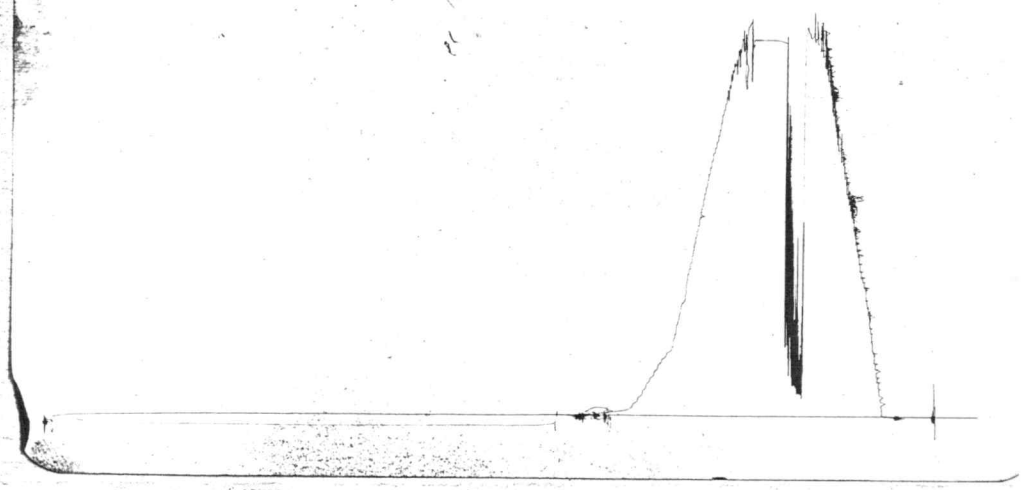


Company: Oxford Exploration Company — Lease & Well No.: Deutscher #6-13

Elevation: 2120 Kelly Bushing — Formation: Marmaton — Effective Pay: ---- Ft. — Ticket No.: 4090

Date: 5/10/80 — Sec.: 6 — Twp.: 11S — Range: 27W — County: Trego — State: Kansas

Test Approved by: Harvey Gough — Western Representative: David A. Whitefield

Formation Test No.: 2 — Interval Tested from: 3714 ft. to: 3735 ft. — Total Depth: 3735 ft.

Packer Depth: 3709 ft. — Size: 6 3/4 in. — Packer Depth: - ft. — Size: - in.

Packer Depth: 3714 ft. — Size: 6 3/4 in. — Packer Depth: - ft. — Size: - in.

Depth of Selective Zone Set: -

Top Recorder Depth (Inside): 3717 ft. — Recorder Number: 2608 — Cap.: 4150

Bottom Recorder Depth (Outside): 3720 ft. — Recorder Number: 3473 — Cap.: 4000

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

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

Mud Type: starch — Viscosity: 48 — Weight Pipe Length: -- — I. D.: - in.

Weight: 10.1 — Water Loss: 12.2 cc. — Drill Pipe Length: 3654 — I. D.: 3.8 in.

Chlorides: 38,000 P.P.M. — Test Tool Length: 20 ft. — Tool Size: 5½ in.

Jars: Make: No — Serial Number: - — Anchor Length: 21 ft. — Size: 5½ 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: 4½FH in.

Blow: Had fair blow because of packer failure in first opening.

Recovered: 590 ft. of: mud

Recovered: ft. of: MISRUN

Recovered: ft. of:

Recovered: ft. of:

Recovered: ft. of:

Remarks: Did not use charts because of packer failure and did not stay on bottom but thirty-five minutes.

Time Set Packer(s): 2:35 ~~A.M.~~ P.M. — Time Started Off Bottom: 3:10 ~~A.M.~~ P.M. — Maximum Temperature: 114°

Initial Hydrostatic Pressure ..... (A): 2040 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): 2040 P.S.I.

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 4091

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

Elevation 2120 K.B. Formation MARMATON Eff. Pay — Ft.

District WAKEENEY KS Date 3-10-80 Customer Order No. —

COMPANY NAME Oxford Exploration Co.

ADDRESS 1030 Denver Club Building, Denver, Colo. 80202

LEASE AND WELL NO. #6-13 Duetscher COUNTY Trego STATE KS Sec. 6 Twp. 11S Rge. 21W

Mail Invoice To Deutscher #6-13 Same No. Copies Requested 5
Co. Name Address

Mail Charts To Same No. Copies Requested 5
Address

Formation Test No. 3 Interval Tested from 3719 ft. to 3735 ft. Total Depth 3735 ft.
Packer Depth 3714 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.
Packer Depth 3719 ft. Size 6 3/4 in. Packer Depth — ft. Size — in.
Depth of Selective Zone Set —

Top Recorder Depth (Inside) 3702 ft. Recorder Number 2608 Cap. 4/1500 psi
Bottom Recorder Depth (Outside) 3734 ft. Recorder Number 3473 Cap. 4000 psi
Below Straddle Recorder Depth — ft. Recorder Number — Cap. —

Drilling Contractor Emphasis Oil Oper. Drill Collar Length — I. D. — in.
Mud Type Starch Viscosity 48 Weight Pipe Length — I. D. — in.
Weight 10.1 Water Loss 12.2 cc. Drill Pipe Length 3654 I. D. 3.8 in.
Chlorides 38,000 P.P.M. Test Tool Length 20 ft. Tool Size 5 1/2 in.
Jars: Make NO Serial Number — Anchor Length 16 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: had no blow in first opening - flush tool - had weak blow dieing in 5 minutes.

Recovered 30 ft. of mud with specks of oil
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks: Arrived on Loc. At 12:30 - slide 10 ft. to bottom
Left Loc 2:00 Thank You!

Time Set Packer(s) 7:35 ~~A.M.~~ P.M. Time Started Off Bottom 10:05 ~~A.M.~~ P.M. Maximum Temperature 116

Initial Hydrostatic Pressure			(A)	1983	P.S.I.	
Initial Flow Period	Minutes	15	(B)	42	P.S.I. to (C)	62 P.S.I.
Initial Closed In Period	Minutes	30	(D)	562	P.S.I.	
Final Flow Period	Minutes	30	(E)	52	P.S.I. to (F)	52 P.S.I.
Final Closed In Period	Minutes	60	(G)	809	P.S.I.	
Final Hydrostatic Pressure			(H)	1952	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 Harvey Gough
Signature of Customer or his authorized representative

RECEIVED
MAY 14 1980

Western Representative David A. Whitfield

FIELD INVOICE

Open Hole Test	$ 550.00
Misrun	$ —
Straddle Test	$ —
Jars	$ —
Selective Zone	$ —
Safety Joint	$ —
Standby	$ —
Evaluation	$ —
Extra Packer	$ —
Circ. Sub.	$ —
Mileage	$ —
Fluid Sampler	$ —
Extra Charts	$ —
TOTAL	$ 550.00

WESTERN TESTING CO., INC.
Pressure Data

Date 5-10-80 Test Ticket No. 4091

Recorder No. 2608 Capacity 4150 Location 3735 Ft.

Clock No. Elevation 2120 KB Well Temperature 116 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1983	P.S.I.			
B	First Initial Flow Pressure	48	P.S.I.	Open Tool	7:35 PM	
C	First Final Flow Pressure	60	P.S.I.	First Flow Pressure	15 Mins.	15 Mins.
D	Initial Closed-in Pressure	591	P.S.I.	Initial Closed-in Pressure	38 Mins.	30 Mins.
E	Second Initial Flow Pressure	40	P.S.I.	Second Flow Pressure	30 Mins.	35 Mins.
F	Second Final Flow Pressure	71	P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
G	Final Closed-in Pressure	814	P.S.I.			
H	Final Hydrostatic Mud	1958	P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.		Press.
P 1	0	48
P 2	5	Plugging Action
P 3	10	
P 4	15	60
P 5	20	
P 6	25	
P 7	30	
P 8	35	
P 9	40	
P10	45	
P11	50	
P12	55	
P13	60	
P14		
P15		
P16		
P17		
P18		
P19		
P20		

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

Point Minutes	Press.
0	60
3	44
6	46
9	64
12	96
15	168
18	254
21	337
24	412
27	496
30	591
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

Second Flow Pressure
Breakdown: 7 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	40 fluid level
5	23
10	33
15	24
20	34
25	47
30	59
35	71
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

Final Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	71
3	46
6	46
9	46
12	54
15	73
18	106
21	139
24	196
27	260
30	331
33	410
36	475
39	538
42	589
45	640
48	681
51	721 ~~808~~
54	760
57	795
60	814

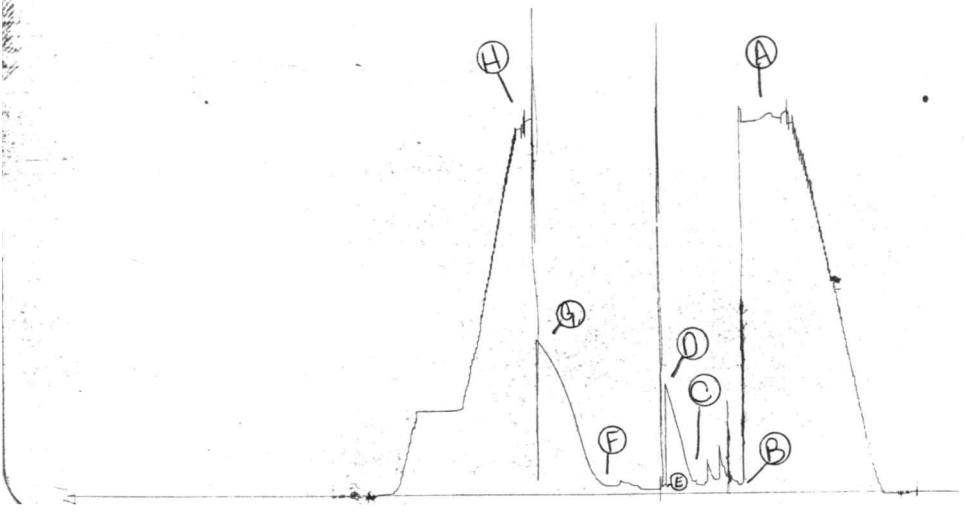
WTC - 4

2.60

#3

Tk# 4091

I.



Company: Oxford Exploration Company | Lease & Well No.: Deutscher #6-13

Elevation: 2120 Kelly Bushing | Formation: Marmaton | Effective Pay: -- | Ft. | Ticket No.: 4091

Date: 5/10/80 | Sec.: 6 | Twp.: 11S | Range: 21W | County: Trego | State: Kansas

Test Approved by: Harvey Gough | Western Representative: David Whitefield

Formation Test No.: 3 | Interval Tested from: 3719 ft. to: 3735 ft. | Total Depth: 3735 ft.

Packer Depth: 3714 ft. | Size: 6 3/4 in. | Packer Depth: - ft. | Size: - in.

Packer Depth: 3719 ft. | Size: 6 3/4 in. | Packer Depth: - ft. | Size: - in.

Depth of Selective Zone Set: -

Top Recorder Depth (Inside): 3722 ft. | Recorder Number: 2608 | Cap.: 4150 PSI

Bottom Recorder Depth (Outside): 3734 ft. | Recorder Number: 3473 | Cap.: 4000 PSI

Below Straddle Recorder Depth: - ft. | Recorder Number: - | Cap.: -

Drilling Contractor: Emphasis Oil Operations | Drill Collar Length: - | I. D.: - in.

Mud Type: starch | Viscosity: 48 | Weight Pipe Length: - | I. D.: - in.

Weight: 10.1 | Water Loss: 12.2 cc. | Drill Pipe Length: 3654 | I. D.: 3.8 in.

Chlorides: 38,000 P.P.M. | Test Tool Length: 20 ft. | Tool Size: 5½ in.

Jars: Make: No | Serial Number: - | Anchor Length: 16 ft. | Size: 5½ 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: 4½FH in.

Blow: Had no blow on first opening. Flushed tool - had weak blow dying in eight minutes.

Recovered: 30 ft. of mud with specks of oil

Recovered: ft. of

Recovered: ft. of

Recovered: ft. of

Recovered: ft. of

Remarks: Slid ten feet to bottom

Time Set Packer(s): 7:35 A.M. P.M. | Time Started Off Bottom: 10:05 A.M. P.M. | Maximum Temperature: 116

Initial Hydrostatic Pressure			(A)	1983	P.S.I.	
Initial Flow Period	Minutes 15	(B)	48	P.S.I. to (C)	60	P.S.I.
Initial Closed In Period	Minutes 30	(D)	591	P.S.I.		
Final Flow Period	Minutes 35	(E)	40	P.S.I. to (F)	71	P.S.I.
Final Closed In Period	Minutes 60	(G)	814	P.S.I.		
Final Hydrostatic Pressure			(H)	1958	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 5/10/80 Test Ticket No. 4091

Recorder No. 2608 Capacity 4150 Location 3735 Ft.

Clock No. - Elevation 2125 Kelly Bushing Well Temperature 116 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1983	P.S.I.
B	First Initial Flow Pressure	48	P.S.I.
C	First Final Flow Pressure	60	P.S.I.
D	Initial Closed-in Pressure	591	P.S.I.
E	Second Initial Flow Pressure	40	P.S.I.
F	Second Final Flow Pressure	71	P.S.I.
G	Final Closed-in Pressure	814	P.S.I.
H	Final Hydrostatic Mud	1958	P.S.I.

	Time Given	Time Computed
Open Tool	7:35P M	
First Flow Pressure	15 Mins.	15 Mins.
Initial Closed-in Pressure	30 Mins.	30 Mins.
Second Flow Pressure	30 Mins.	35 Mins.
Final Closed-in Pressure	60 Mins.	60 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 3 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	48
P 2 5	Plugging action
P 3 10	Plugging action
P 4 15	60
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	60
3	44
6	46
9	64
12	96
15	168
18	254
21	337
24	412
27	496
30	591

Second Flow Pressure
Breakdown: 7 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	40 flushed tool
5	23
10	23
15	24
20	34
25	47
30	59
35	71

Final Shut-In
Breakdown: 20 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	71
3	46
6	46
9	46
12	54
15	73
18	106
21	139
24	196
27	260
30	331
33	410
36	475
39	533
42	589
45	640
48	681
51	727
54	760
57	795
60	814