Company Brandt Oil Company — Lease & Well No. Farber #4

Elevation TIGHT HOLE — Formation Simpson — Effective Pay --- Ft. — Ticket No. 5890

Date 8/14/80 — Sec. 17 — Twp. 29S — Range 2E — County Sedgwick — State Kansas

Test Approved by Paul M. Gunzelman — Western Representative Fred G. Klaus

Formation Test No. 1 — Interval Tested from 3488 ft. to 3497 ft. — Total Depth 3497 ft.

Packer Depth 3488 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 3483 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3477 ft. — Recorder Number 1559 — Cap. 4200 PSI

Bottom Recorder Depth (Outside) 3480 ft. — Recorder Number 5666 — Cap. 3950 PSI

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

Drilling Contractor Brandt Drlg. Co. — Drill Collar Length 242 — I. D. 2¼ in — 4"H90

Mud Type chemical — Viscosity 43 — Weight Pipe Length - — I. D. - in.

Weight 9.5 — Water Loss - cc. — Drill Pipe Length 3217 — I. D. 2.8 in.

Chlorides - P.P.M. — Test Tool Length 38 ft. — Tool Size 5½ in.

Jars: Make - — Serial Number - — Anchor Length 9 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 3½FH&XH

Blow: Very weak blow on initial oppening. Died in ten minutes. Final flow no blow; flushed tool.

Recovered 1 ft. of free oil

Recovered 10 ft. of slightly oil cut slightly gassy mud

Recovered 50 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 11:45 ~~A.M.~~ P.M. — Time Started Off Bottom 2:00 ~~A.M.~~ P.M. — Maximum Temperature 104°

Initial Hydrostatic Pressure			(A)	1801	P.S.I.	
Initial Flow Period	Minutes 30		(B)	40 P.S.I.	to (C)	27 P.S.I.
Initial Closed In Period	Minutes 39		(D)	1259	P.S.I.	
Final Flow Period	Minutes 30		(E)	60 P.S.I.	to (F)	48 P.S.I.
Final Closed In Period	Minutes 27		(G)	1230	P.S.I.	
Final Hydrostatic Pressure			(H)	1774	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 8-14-80 Test Ticket No. 5890

Recorder No. 1559 Capacity 4200 Location 3477 Ft.

Clock No. Elevation - Well Temperature 104 °F

Point		Pressure		Time Given	Time Computed
A	Initial Hydrostatic Mud	1801 P.S.I.	Open Tool	11:45A M	
B	First Initial Flow Pressure	40 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	27 P.S.I.	Initial Closed-in Pressure	30 Mins.	39 Mins.
D	Initial Closed-in Pressure	1259 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	60 P.S.I.	Final Closed-in Pressure	30 Mins.	27 Mins.
F	Second Final Flow Pressure	48 P.S.I.			
G	Final Closed-in Pressure	1230 P.S.I.			
H	Final Hydrostatic Mud	1774 P.S.I.			

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	40
P 2 5	37
P 3 10	33
P 4 15	27
P 5 20	27
P 6 25	27
P 7 30	27
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 13 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	27
3	27
6	27
9	345
12	898
15	1067
18	1148
21	1184
24	1205
27	1223
30	1238
33	1248
36	1255
39	1259

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

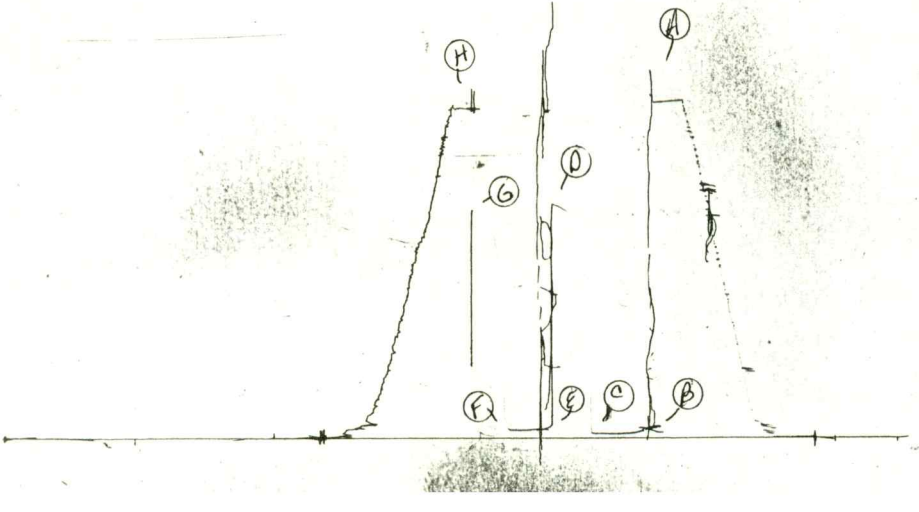
Point Minutes	Press.
0	60
5	52
10	Flushed Tool 48
15	48
20	48
25	48
30	48

Final Shut-In
Breakdown: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	48
3	407
6	845
9	1016
12	1117
15	1165
18	1186
21	1206
24	1219
27	1230

JK# #5890

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Company Brandt Oil Company — Lease & Well No. Farber # 4

Elevation ----- — Formation Simpson — Effective Pay ----- Ft. — Ticket No. 5891

Date 8 /15/80 — Sec. 17 — Twp. 29S — Range 2E — County Sedgwick — State Kansas

Test Approved by ? — Western Representative Fred G. Klaus

Formation Test No. 2 — Interval Tested from 3486 ft. to 3504 ft. — Total Depth 3504 ft.

Packer Depth 3486 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 3481 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3491 ft. — Recorder Number 1559 — Cap. 4200 PSI

Bottom Recorder Depth (Outside) 3494 ft. — Recorder Number 5666 — Cap. 3950 PSI

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

Drilling Contractor Brandt Drlg. Co. — Drill Collar Length 242 I. D. 2¼ in.

Mud Type chemical — Viscosity 40 — Weight Pipe Length - I. D. - in.

Weight 9.5 — Water Loss - cc. — Drill Pipe Length 3222 I. D. 2.8 in.

Chlorides - P.P.M. — Test Tool Length 40 ft. — Tool Size 5½ in.

Jars: Make No — Serial Number - — Anchor Length 18 ft. — Size 5½ in.

Did Well Flow? - — Reversed Out - — Surface Choke Size 3/4 in. — Bottom Choke Size 3/4 in.

Main Hole Size 7 7/8 in. — Tool Joint Size 3½FH in.

Blow: Initial flow , weak droping off to very weak blow last five minutes. Final flow very weak died after two minutes.

Recovered 2 ft. of black clean oil — Gravity 44 @ 86° corrected

Recovered 15 ft. of slightly oil and gas cut mud

Recovered ft. of

Recovered ft. of — MISRUN

Recovered ft. of

Remarks:

Time Set Packer(s) 6:55 ~~P.M.~~ A.M. — Time Started Off Bottom 8:55 A.M. P.M. — Maximum Temperature 106°

Initial Hydrostatic Pressure			(A) 1746	P.S.I.		
Initial Flow Period	Minutes 30	(B) 37	P.S.I. to	(C) 27	P.S.I.	
Initial Closed In Period	Minutes 27	(D) 772	P.S.I.			
Final Flow Period	Minutes 30	(E) 62	P.S.I. to	(F) 35	P.S.I.	
Final Closed In Period	Minutes 36	(G) 1113	P.S.I.			
Final Hydrostatic Pressure			(H) 1713	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 8/15/80 Test Ticket No. 5891

Recorder No. 1559 Capacity 4200 Location 3491 Ft.

Clock No. - Elevation - Well Temperature 106 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1746	P.S.I.	Open Tool	6:55A M	
B	First Initial Flow Pressure	27	P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	27	P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D	Initial Closed-in Pressure	772	P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	62	P.S.I.	Final Closed-in Pressure	30 Mins.	36 Mins.
F	Second Final Flow Pressure	35	P.S.I.			
G	Final Closed-in Pressure	1113	P.S.I.			
H	Final Hydrostatic Mud	1713	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: 9 Inc.
of 3 mins. and a
final inc. of 0 Min.

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

Final Shut-In
Breakdown: 12 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	37		0	27		0	62		0	35
P 2	5	29		3	27		5	50		3	42
P 3	10	27		6	40		10	41		6	79
P 4	15	27		9	90		15	39		9	177
P 5	20	27		12	209		20	35		12	380
P 6	25	27		15	282		25	35		15	556
P 7	30	27		18	512		30	35		18	656
P 8				21	716					21	758
P 9				24	864					24	850
P10				27	772					27	956
P11										30	1032
P12										33	1085
P13										36	1113
P14											
P15											
P16											
P17											
P18											
P19											
P20											

JKT #5891

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