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

WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET Nº 3608

Elevation _____ Formation Miss. Eff. Pay _____ Ft.

District Augusta Date Feb 5 1980 Customer Order No. _____

COMPANY NAME Brandt ~~Drilling~~ Co. Inc.

ADDRESS Rt. 1 103 Douglas Building Junction 67202

LEASE AND WELL NO. Edwards 1-A COUNTY Sumner STATE Ks. Sec. 30 Twp. 30S Rge. 1W

Mail Invoice To Same (Co. Name) Address _____ No. Copies Requested _____

Mail Charts To Same Address _____ No. Copies Requested _____

Formation Test No. 1 Interval Tested from 3742 ft. to 3749 ft. Total Depth 3749 ft.

Packer Depth 3742 ft. Size 6 3/4 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) 3746 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 3749 ft. Recorder Number 5666 Cap. 3950

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

Drilling Contractor Co Tools

Mud Type Chem Viscosity 47

Weight 9.4 Water Loss _____ cc.

Chlorides — P.P.M.

Jars: Make — Serial Number —

Did Well Flow? _____ Reversed Out _____

Drill Collar Length 93' I. D. _____ in.

Weight Pipe Length 300' I. D. _____ in.

Drill Pipe Length 3332' I. D. _____ in.

Test Tool Length 17' ft. Tool Size 5 1/2 in.

Anchor Length 7' 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 XH in.

Blow: fair increasing to Good blow Through First flow
Good Blow throughout Second flow

Recovered 210' ft. of Slightly Oil Cut mud, Heavy Gas Cut

Recovered _____ ft. of

Recovered _____ ft. of Misrun Packer seat leaked on both Shut in Periods

Recovered _____ ft. of

Recovered _____ ft. of

Remarks: Slid App 3' To Bottom Hole taking Some Fluid
one Chart Pack

Time Set Packer(s) 850 A.M. P.M. Time Started Off Bottom 10 50 A.M. P.M. Maximum Temperature _____

Initial Hydrostatic Pressure		(A) 1814	P.S.I.	
Initial Flow Period	Minutes 30	(B) 91	P.S.I. to (C) 114	P.S.I.
Initial Closed In Period	Minutes 30	(D) —	P.S.I.	
Final Flow Period	Minutes 30	(E) 137	P.S.I. to (F) 229	P.S.I.
Final Closed In Period	Minutes 30	(G) —	P.S.I.	
Final Hydrostatic Pressure		(H) 1814	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 Earl O Brandt
Signature of Customer or his authorized representative

Western Representative Kenny Kurkendall

RECEIVED FEB 8 - 1980

FIELD INVOICE

Open Hole Test	$ _____
Misrun	$ 275.00
Straddle Test	$ _____
Jars	$ _____
Selective Zone	$ _____
Safety Joint	$ _____
Standby	$ _____
Evaluation	$ _____
Extra Packer	$ _____
Circ. Sub.	$ _____
Mileage	$ _____
Fluid Sampler	$ _____
Extra Charts	$ _____
TOTAL	$ 275.00

WESTERN TESTING CO., INC.
Pressure Data

Date 2-5-80 Test Ticket No. 3608

Recorder No. 6234 Capacity 4500 Location 3746 Ft.

Clock No. Elevation Well Temperature °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1819 P.S.I.	Open Tool	8:50 PM	
B First Initial Flow Pressure	73 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	116 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1803 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	144 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	227 P.S.I.			
G Final Closed-in Pressure	1808 P.S.I.			
H Final Hydrostatic Mud	1809 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	73
P 2	5	73
P 3	10	73
P 4	15	116
P 5	20	
P 6	25	
P 7	30	116
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	116
3	482
6	1803
9	[illegible]
12	
15	
18	
21	
24	
27	
30	1803
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

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

Point Minutes	Press.
0	144
5	167
10	192
15	204
20	227
25	227
30	227
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	
90	

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

Point Minutes	Press.
0	227
3	1808
6	
9	
12	
15	
18	
21	
24	
27	
30	1808
33	
36	
39	
42	
45	
48	
51	
54	
57	
60	

WTC - 4

Company Brandt Oil Company,, Inc. Lease & Well No. Edwards #1-A

Elevation ------- Formation Mississippi Effective Pay --- Ft. Ticket No. 3608

Date 2/5/80 Sec. 30 Twp. 30S Range 1W County Sumner State Kansas

Test Approved by Earl O. Brandt Western Representative Kenny Kirkendall

Formation Test No. 1 Interval Tested from 3742 ft. to 3749 ft. Total Depth 3749 ft.

Packer Depth 3742 ft. Size 6 3/4 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) 3746 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 3749 ft. Recorder Number 5666 Cap. 3950

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

Drilling Contractor Brandt Drilling Drill Collar Length 93 I. D. - in.

Mud Type Chemical Viscosity 47 Weight Pipe Length 300 I. D. in.

Weight 9.4 Water Loss - cc. Drill Pipe Length 3332 I. D. in.

Chlorides -- P.P.M. Test Tool Length 17 ft. Tool Size 5½ in.

Jars: Make -- Serial Number - Anchor Length 7 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 4½XH in.

Blow: Fair increasing to good blow throughout first flow. Good blow throughout second flow.

Recovered 210 ft. of slightly oil cut mud, heavy gas cut

Recovered ft. of

Recovered ft. of

Recovered ft. of MISRUN PACKER SEAT LEAKED ON BOTH SHUT-IN PERIODS.

Recovered ft. of

Remarks: SLID APPROXIMATELY THREE FEET TO BOTTOM. HOLE TAKING SOME FLUID.

Time Set Packer(s) 8:50 ~~A.M.~~ P.M. Time Started Off Bottom 10:50 ~~A.M.~~ P.M. Maximum Temperature ?

Initial Hydrostatic Pressure ..... (A) 1819 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 73 P.S.I. to (C) 116 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 1803 P.S.I.

Final Flow Period ..... Minutes 30 (E) 144 P.S.I. to (F) 227 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 1808 P.S.I.

Final Hydrostatic Pressure ..... (H) 1809 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 2/5/80 Test Ticket No. 3608

Recorder No. 6234 Capacity 4500 Location 3746 Ft.

Clock No. ------ Elevation ------- Well Temperature -- °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1819 P.S.I.		Open Tool	8:50P M	
B	First Initial Flow Pressure	73 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	116 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1803 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	144 P.S.I.		Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	227 P.S.I.				
G	Final Closed-in Pressure	1808 P.S.I.				
H	Final Hydrostatic Mud	1809 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 10 Inc.		Breakdown: 6 Inc.		Breakdown: 10 Inc.	
of 5 mins. and a		of 3 mins. and a		of 5 mins. and a		of 3 mins. and a	
final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.		final inc. of 0 Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	73	0	116	0	144	0	227
P 2 5	73	3	482	5	167	3	1808
P 3 10	73	6	1803	10	192	6	1808
P 4 15	116	9	1803	15	024	9	1808
P 5 20	116	12	1803	20	227	12	1808
P 6 25	116	15	1803	25	227	15	1808
P 7 30	116	18	1803	30	227	18	1808
P 8		21	1830			21	1808
P 9		24	1803			24	1808
P10		27	1803			27	1808
P11		30	1803			30	1808
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

6234

THL # 3608
I