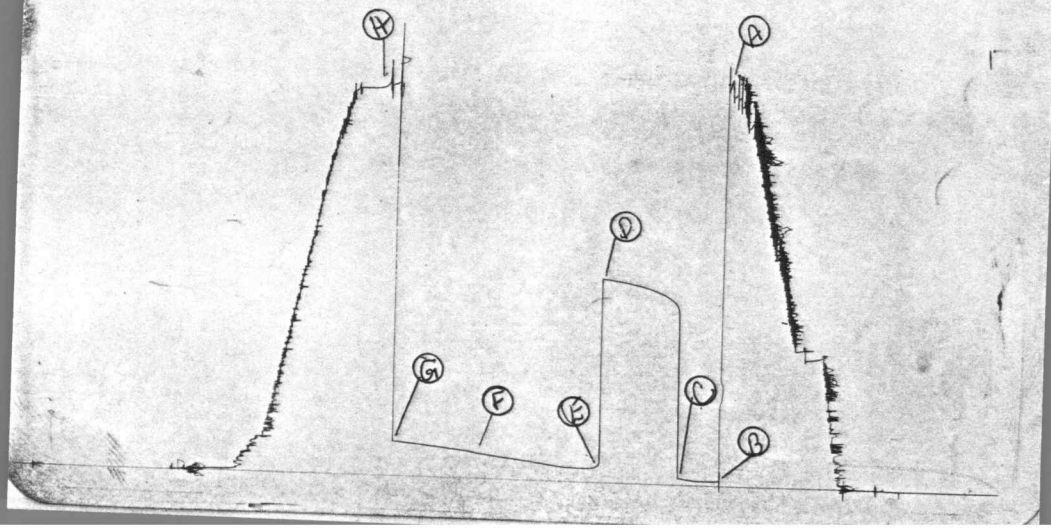
1566

IR# 22816

I.



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Voshell "B" #1

Elevation 2813 Kelly Bush Formation Kansas City Effective Pay - Ft. Ticket No. 22816

Date 2-1-78 Sec. 13 Twp. 19S Range 29W County Lane State Kansas

Test Approved by Orlin R. Phelps Western Representative Don Leiker

Formation Test No. 2 O.K. X Misrun - Interval Tested From 4334' to 4347' Total Depth 4347'

Size Main Hole 7 7/8 Rat Hole 12¼ Conv. X B.T. - Damaged - Yes X No Conv. - B.T. - Damaged - Yes - No

Top Packer Depth - Ft. Size - Bottom Packer Depth 4334 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 13 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4338 Ft. Clock No. 6774 Depth 4343 Ft. Clock No. 6806

Top Make Kuster Cap. 4300 No. 1566 ~~Outside~~ Inside Bottom Make Kuster Cap. 4500 No. 3086 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 3:55P M

Tool Open I.F.P. From 4:00 M. to 4:30 M. - Hr. 30 Min. From (B) 26 P.S.I. To (C) 39 P.S.I.

Tool Closed I.C.I.P. From 4:30 M. to 5:30 M. - Hr. 60 Min (D) 1141 P.S.I.

Tool Open F.F.P. From 5:30 M. to 7:00 M. - Hr. 90 Min. From (E) 214 P.S.I. To (F) 145 P.S.I.

Tool Closed F.C.I.P. From 7:00 M. to 8:00 M. - Hr. 60 Min. (G) 194 P.S.I.

Initial Hydrostatic Pressure (A) 2275 P.S.I. Final Hydrostatic Pressure (H) 2243 P.S.I. Maximum Temp. 125

INFORMATION

BLOW Weak steady blow throughout initial flow period. Slightly increasing very weak steady blow throughout final flow period.

Did Well Flow - Yes X No Recovery Total Ft. 310' sulfur water (29,500 PPM chlorides)

Reversed Out - Yes X No Mud Type Drispac Viscosity 46 Weight 9.5 Water Loss 12.0 cc. Chlorides 12,000 ppm

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size In. Make - Ser. No. -

Dual Packer No Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Abercrombie #8 Length Drill Pipe? 3430 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½XH In.

Length Weight Pipe 718 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 27 Ft.

Remarks:

TIGHT HOLE

WESTERN TESTING CO., INC.
Pressure Data

Date 2-1-78 Test Ticket No. 22816

Recorder No. 1566 Capacity 4300 Location 4338 Ft.

Clock No. 6774 Elevation 2813 Kelly Bushing Well Temperature 125 °F

Point		Pressure	
A	Initial Hydrostatic Mud	2275	P.S.I.
B	First Initial Flow Pressure	26	P.S.I.
C	First Final Flow Pressure	39	P.S.I.
D	Initial Closed-in Pressure	1141	P.S.I.
E	Second Initial Flow Pressure	214	P.S.I.
F	Second Final Flow Pressure	145	P.S.I.
G	Final Closed-in Pressure	194	P.S.I.
H	Final Hydrostatic Mud	2243	P.S.I.

	Time Given		Time Computed	
Open Tool	3:55P	M		
First Flow Pressure	30	Mins.	30	Mins.
Initial Closed-in Pressure	60	Mins.	60	Mins.
Second Flow Pressure	90	Mins.	90	Mins.
Final Closed-in Pressure	60	Mins.	60	Mins.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	26
P 2 5	24
P 3 10	24
P 4 15	22
P 5 20	26
P 6 25	32
P 7 30	39
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	39
3	690
6	1013
9	1034
12	1049
15	1060
18	1071
21	1079
24	1088
27	1094
30	1103
33	1107
36	1111
39	1116
42	1122
45	1124
48	1128
51	1133
54	1135
57	1137
60	1141

Second Flow Pressure
Breakdown: 18 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	214
5	76
10	76
15	76
20	76
25	76
30	82
35	86
40	91
45	97
50	104
55	108
60	112
65	117
70	123
75	130
80	134
85	140
90	145

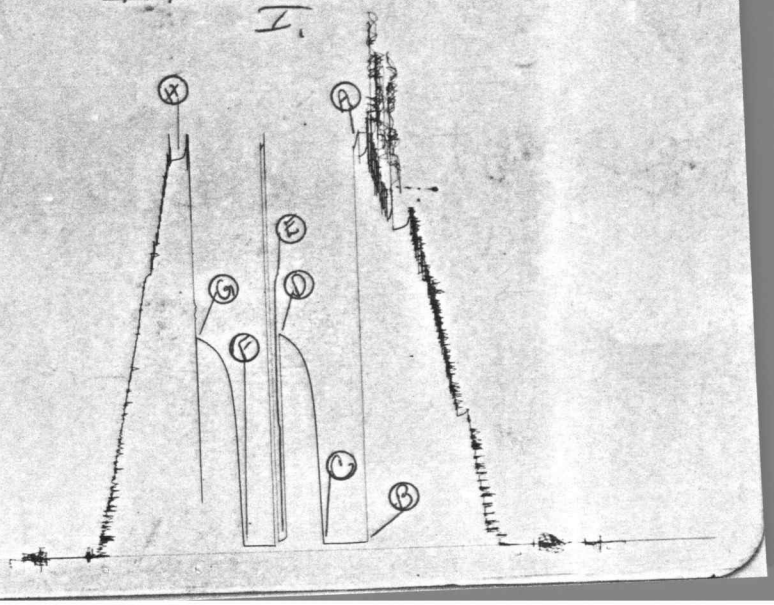
Final Shut-In
Breakdown: 20 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	145
3	147
6	151
9	153
12	156
15	158
18	162
21	166
24	168
27	171
30	173
33	175
36	177
39	179
42	181
45	184
48	186
51	188
54	190
57	192
60	194

1566

IK4# 22817

I.



Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Voshell "B" #1

Elevation 2813 Kelly Bush. Formation Kansas City Effective Pay - Ft. Ticket No. 22817

Date 2-2-78 Sec. 13 Twp. 19S Range 28W County Lane State Kansas

Test Approved by Orlin R. Phelps Western Representative Don Leiker

Formation Test No. 3 O.K. X Misrun - Interval Tested From 4382' to 4415' Total Depth 4415'

Size Main Hole 7 7/8 Rat Hole 12¼ Conv. X B.T. - Damaged - Yes X No Conv. - B.T. X Damaged - Yes X No

Top Packer Depth 4377 Ft. Size 6 3/4 Bottom Packer Depth 4382 Ft. Size 6 3/4

Straddle - Conv. - B.T. - Damaged - Yes - No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 33 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4401 Ft. Clock No. 6774 Depth 4406 Ft. Clock No. 6806

Top Make Kuster Cap. 4300 No. 1566 Inside ~~Outside~~ Bottom Make Kuster Cap. 4500 No. 3086 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 3:25P M

Tool Open I.F.P. From 3:30 M. to 4:00 M. - Hr. 30 Min. From (B) 41 P.S.I. To (C) 33 P.S.I.

Tool Closed I.C.I.P. From 4:00 M. to 4:39 M. - Hr. 30 Min (D) 1221 P.S.I.

Tool Open F.F.P. From 4:30 M. to 5:00 M. - Hr. 30 Min. From (E) 82 P.S.I. To (F) 37 P.S.I.

Tool Closed F.C.I.P. From 5:00 M. to 5:30 M. - Hr. 30 Min. (G) 1212 P.S.I.

Initial Hydrostatic Pressure (A) 2247 P.S.I. Final Hydrostatic Pressure (H) 2206 P.S.I. Maximum Temp. 121

INFORMATION

BLOW Weak blow, dead in 30 minutes, flushed tool. During 5 minutes of final flow period. No blow.

Did Well Flow - Yes X No Recovery Total Ft. 75' mud (no show)

Reversed Out - Yes X No Mud Type Drispac Viscosity 52 Weight 9.5 Water Loss 12.8 cc. Chlorides 13,000 ppm

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Abercrombie #8 Length Drill Pipe? 3713 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½XH In.

Length Weight Pipe 718 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 52 Ft.

Remarks:

TIGHT HOLE

WESTERN TESTING CO., INC.
Pressure Data

Date 2-2-78 Test Ticket No. 22817

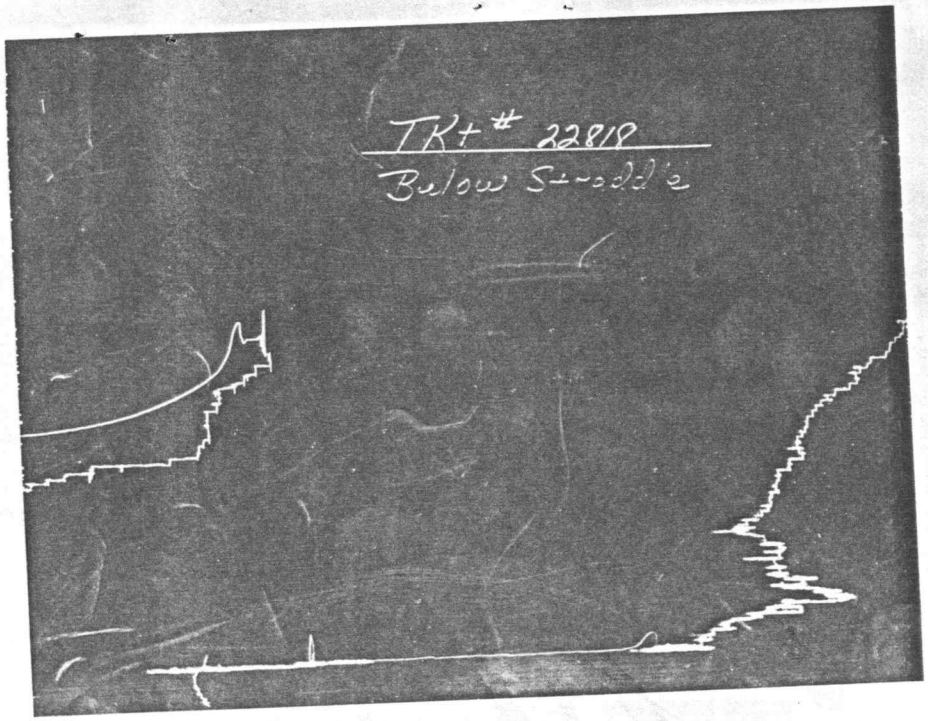
Recorder No. 1566 Capacity 4300 Location 4401 Ft.

Clock No. 6774 Elevation 2813 Kelly Bushing Well Temperature 121 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2247 P.S.I.	Open Tool	3:25P M	
B First Initial Flow Pressure	41 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	33 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1221 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	82 P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F Second Final Flow Pressure	37 P.S.I.			
G Final Closed-in Pressure	1212 P.S.I.			
H Final Hydrostatic Mud	2206 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: 11 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	41	0	33	0	82	0	37
P 2 5	35	3	437	5	56 flushed tool	3	357
P 3 10	33	6	757	10	30	6	718
P 4 15	33	9	957	15	35	9	929
P 5 20	33	12	1049	20	35	12	1034
P 6 25	33	15	1107	25	35	15	1090
P 7 30	33	18	1143	30	37	18	1128
P 8		21	1167			21	1154
P 9		24	1190			24	1173
P10		27	1208			27	1190
P11		30	1221			30	1201
P12						33	1212
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							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1566

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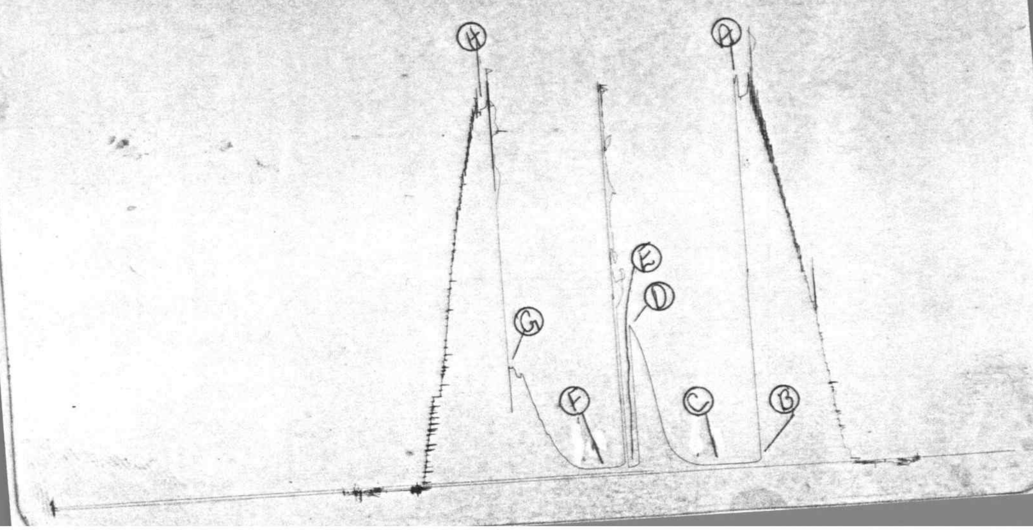

Home Office: Wichita, Kansas 67201
P. O. Box 1599 (316) 838-0601

Company Abercrombie Drilling, Inc. Lease & Well No. Voshell "B" #1

Elevation 2813 Kelly Bush. Formation Kansas City Effective Pay - Ft. Ticket No. 22818

Date 2-3-78 Sec. 13 Twp. 19S Range 28W County Lane State Kansas

Test Approved by Orlin R. Phelps Western Representative Don Leiker

Formation Test No. 4 O.K. X Misrun - Interval Tested From 4189' to 4215' Total Depth 4415'

Size Main Hole 7 7/8 Rat Hole 12¼ Conv. - B.T. X Damaged - Yes X No Conv. X B.T. - Damaged - Yes X No

Top Packer Depth 4189 Ft. Size 6 3/4 Bottom Packer Depth 4215 Ft. Size 6 3/4

Straddle Yes Conv. X B.T. - Damaged - Yes X No Packer Depth - Ft. Size -

Tool Size 5½OD Tool Joint Size 4½FH Anchor Length 26 Ft. Size 5½OD Surface Choke Size 3/4 In. Bottom Choke Size 3/4 In.

RECORDERS Depth 4205 Ft. Clock No. 6774 Depth 4208 Ft. Clock No. 6806

Top Make Kuster Cap. 4300 No. 1566 Inside ~~Outside~~ Bottom Make Kuster Cap. 4500 No. 3086 ~~Inside~~ Outside

Below Straddle: Depth - Rec. No. - Clock No. - Inside Outside Depth - Ft. Rec. No. - Clock No. - Inside Outside

Time Set Packer 4:42 A M

Tool Open I.F.P. From 4:45 M. to 5:15 M. - Hr. 30 Min. From (B) 52 P.S.I. To (C) 28 P.S.I.

Tool Closed I.C.I.P. From 5:15 M. to 6:15 M. - Hr. 60 Min (D) 841 P.S.I.

Tool Open F.F.P. From 6:15 M. to 6:45 M. - Hr. 30 Min. From (E) 71 P.S.I. To (F) 48 P.S.I.

Tool Closed F.C.I.P. From 6:45 M. to 7:45 M. - Hr. 60 Min. (G) 648 P.S.I.

Initial Hydrostatic Pressure (A) 2152 P.S.I. Final Hydrostatic Pressure (H) 2143 P.S.I. Maximum Temp. -

INFORMATION

BLOW Fair blow decreasing to dead in 30 minutes. Flushed tool in 8 minutes of final flow period, No blow.

Did Well Flow - Yes X No Recovery Total Ft. 90' mud.

Reversed Out - Yes X No Mud Type Drispac Viscosity 57 Weight 9.5 Water Loss 12.8 cc. Chlorides 13,000 ppm

EXTRA EQUIPMENT: Type Circ. Sub. Pin Safety Joint - Jars: Size - In. Make - Ser. No. -

Dual Packer Yes Did Packers Hold? Yes Did Tool Plug? No Where? -

DRILLING CONTRACTOR Abercrombie #8 Length Drill Pipe? 3493 Ft. I.D. Drill Pipe 3.8 In. Tool Joint Size 4½XH In.

Length Weight Pipe 719 Ft. I.D. Weight Pipe 2.76 In. Tool Joint Size 4½FH In. Length Drill Collars - Ft. I.D. Drill Collars - In.

Tool Joint Size - In. Length D.S.T. Tool 53 Ft.

Remarks:

Straddle Test 26' between; 200' below
TIGHT HOLE

WESTERN TESTING CO., INC.
Pressure Data

Date 2-3-78 Test Ticket No. 22818

Recorder No. 1566 Capacity 4300 Location 4205 Ft.

Clock No. 6774 Elevation 2813 Kelly Bushing Well Temperature - °F

Point	Pressure	
A Initial Hydrostatic Mud	2152	P.S.I.
B First Initial Flow Pressure	52	P.S.I.
C First Final Flow Pressure	28	P.S.I.
D Initial Closed-in Pressure	841	P.S.I.
E Second Initial Flow Pressure	71	P.S.I.
F Second Final Flow Pressure	48	P.S.I.
G Final Closed-in Pressure	648	P.S.I.
H Final Hydrostatic Mud	2143	P.S.I.

	Time Given	Time Computed
Open Tool	4:42A M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	60 Mins.	60 Mins.
Second Flow Pressure	30 Mins.	30 Mins.
Final Closed-in Pressure	60 Mins.	60 Mins.

PRESSURE BREAKDOWN

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

Point Mins.	Press.
P 1 0	52
P 2 5	28
P 3 10	27
P 4 15	27
P 5 20	27
P 6 25	28
P 7 30	28
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

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

Point Minutes	Press.
0	28
3	28
6	28
9	29
12	30
15	33
18	39
21	45
24	56
27	73
30	89
33	117
36	158
39	238
42	357
45	487
48	601
51	695
54	759
57	811
60	841

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

Point Minutes	Press.
0	71
5	48 flushed tool
10	76
15	48
20	48
25	48
30	48

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

Point Minutes	Press.
0	48
3	48
6	48
9	49
12	49
15	60
18	73
21	91
24	114
27	143
30	184
33	229
36	259
39	329
42	385
45	446
48	524
51	598
54	586
57	639
60	648