Company Beren Corporation — Lease & Well No. Ballentine #1

Elevation 2078 Kelly Bushing — Formation Cherokee Sand & Mississippi — Effective Pay --- Ft. — Ticket No. 5503

Date 2/26/80 — Sec. 1 — Twp. 27S — Range 16W — County Kiowa — State Kansas

Test Approved by R. B. Gebbart, Jr. — Western Representative Vernon Wondra

Formation Test No. 1 — Interval Tested from 4460 ft. to 4517 ft. — Total Depth 4517 ft.

Packer Depth 4455 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4460 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4473 ft. — Recorder Number 10979 — Cap. 4100

Bottom Recorder Depth (Outside) 4476 ft. — Recorder Number 1563 — Cap. 4200

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

Drilling Contractor Sterling Drilling Co. Rig #1 — Drill Collar Length 291 — I. D. 2¼ in.

Mud Type premix-drispac — Viscosity 47 — Weight Pipe Length 456 — I. D. 2.7 in.

Weight 8.9 — Water Loss 10.2 cc. — Drill Pipe Length 3692 — I. D. 3.8 in.

Chlorides 6,000 P.P.M. — Test Tool Length 21 ft. — Tool Size 5½OD in.

Jars: Make -- — Serial Number -- — Anchor Length 57 ft. — Size 5½OD 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: Fair blow throughout first opening. Good blow throughout second opening.

Recovered 240 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 8:00 ~~A.M.~~ P.M. — Time Started Off Bottom 11:15 ~~A.M.~~ P.M. — Maximum Temperature 125°

Initial Hydrostatic Pressure			(A)	2109	P.S.I.	
Initial Flow Period	Minutes 30		(B)	69	P.S.I. to (C)	76 P.S.I.
Initial Closed In Period	Minutes 45		(D)	1051	P.S.I.	
Final Flow Period	Minutes 60		(E)	143	P.S.I. to (F)	117 P.S.I.
Final Closed In Period	Minutes 60		(G)	844	P.S.I.	
Final Hydrostatic Pressure			(H)	2080	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 2/26/80 Test Ticket No. 5503

Recorder No. 10979 Capacity 4100 Location 4473 Ft.

Clock No. ------ Elevation 2078 Kelly Bushing Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2109 P.S.I.	Open Tool	8:00P M	
B First Initial Flow Pressure	69 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	76 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1051 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	143 P.S.I.	Final Closed-in Pressure	60 Mins.	60 Mins.
F Second Final Flow Pressure	117 P.S.I.			
G Final Closed-in Pressure	844 P.S.I.			
H Final Hydrostatic Mud	2080 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	69
P 2 5	71
P 3 10	72
P 4 15	73
P 5 20	74
P 6 25	75
P 7 30	76
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	76
3	604
6	591
9	607
12	648
15	694
18	740
21	783
24	823
27	863
30	900
33	933
36	967
39	994
42	1023
45	1051

Second Flow Pressure
Breakdown: 12 Inc. of 5 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	143
5	122
10	117
15	116
20	116
25	116
30	116
35	116
40	116
45	116
50	116
55	116
60	117

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

Point Minutes	Press.
0	117
3	195
6	248
9	296
12	342
15	389
18	431
21	473
24	506
27	544
30	579
33	610
36	642
39	673
42	700
45	727
48	752
51	777
54	798
57	821
60	844

TKT# 5503

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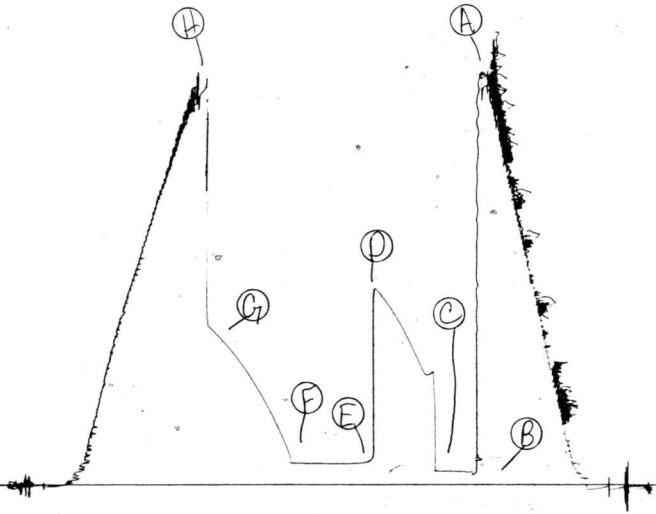

Company Beren Corporation Lease & Well No. Ballentine #1

Elevation 2078 Kelly Bushing Formation Mississippi Effective Pay ---- Ft. Ticket No. 5504

Date 2/27/80 Sec. 1 Twp. 27S Range 16W County Kiowa State Kansas

Test Approved by R. B. Gebbart, Jr. Western Representative Vernon Wondra

Formation Test No. 2 Interval Tested from 4517 ft. to 4540 ft. Total Depth 4540 ft.

Packer Depth 4512 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4517 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4530 ft. Recorder Number 10979 Cap. 4100

Bottom Recorder Depth (Outside) 4533 ft. Recorder Number 1563 Cap. 4200

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

Drilling Contractor Sterling Drilling Co. Rig #1 Drill Collar Length 291 I. D. 2¼ in.

Mud Type premix-drispac Viscosity 82 Weight Pipe Length 456 I. D. 2.7 in.

Weight 8.9 Water Loss 8.8 cc. Drill Pipe Length 3749 I. D. 3.8 in.

Chlorides 8,000 P.P.M. Test Tool Length 21 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - Anchor Length 23 ft. Size 5½OD 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: Very weak blow throughout both flow periods.

Recovered 70 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 2:45 ~~A.M.~~ P.M. Time Started Off Bottom 5:15 ~~A.M.~~ P.M. Maximum Temperature 123°

Initial Hydrostatic Pressure ..... (A) 2119 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 63 P.S.I. to (C) 24 P.S.I.

Initial Closed In Period ..... Minutes 45 (D) 227 P.S.I.

Final Flow Period ..... Minutes 30 (E) 78 P.S.I. to (F) 40 P.S.I.

Final Closed In Period ..... Minutes 45 (G) 153 P.S.I.

Final Hydrostatic Pressure ..... (H) 2080 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 2/27/80 Test Ticket No. 5504

Recorder No. 10979 Capacity 4100 Location 4530 Ft.

Clock No. - Elevation 2078 Kelly Bushing Well Temperature 123 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2119 P.S.I.	Open Tool	2:45P M	
B First Initial Flow Pressure	63 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	24 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	227 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	78 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	40 P.S.I.			
G Final Closed-in Pressure	153 P.S.I.			
H Final Hydrostatic Mud	2080 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: 6 Inc.		Breakdown: 15 Inc.		Breakdown: 6 Inc.		Breakdown: 15 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	63	0	24	0	78	0	40
P 2 5	34	3	29	5	48	3	42
P 3 10	24	6	36	10	42	6	48
P 4 15	24	9	44	15	40	9	55
P 5 20	24	12	53	20	40	12	61
P 6 25	24	15	65	25	40	15	67
P 7 30	24	18	78	30	40	18	76
P 8		21	90			21	84
P 9		24	101			24	92
P10		27	116			27	101
P11		30	130			30	109
P12		33	147			33	118
P13		36	168			36	128
P14		39	191			39	139
P15		42	216			42	149
P16		45	227			45	153
P17							
P18							
P19							
P20							

Trk # 5504

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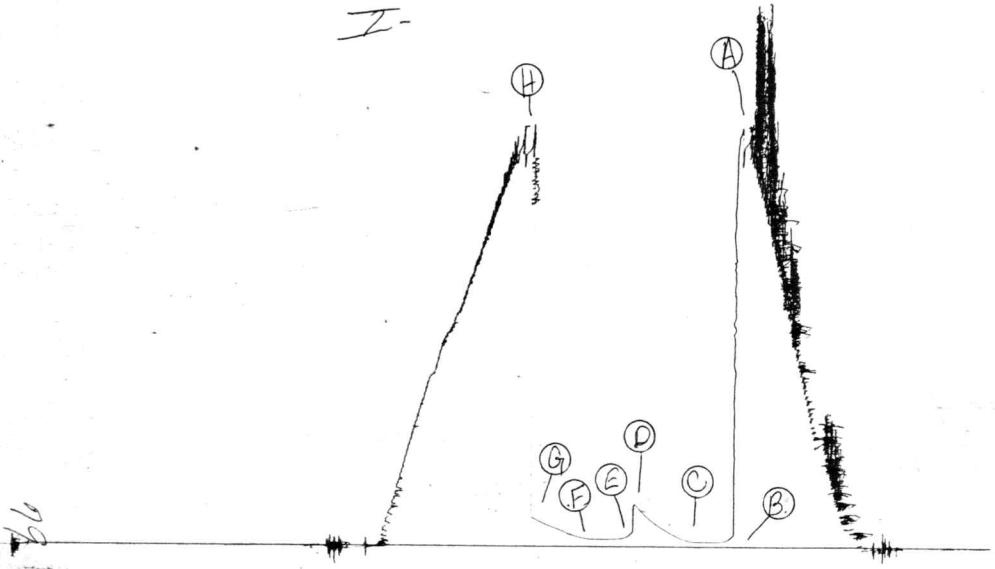

Company Beren Corporation — Lease & Well No. Ballentine #1

Elevation 2078 Kelly Bushing — Formation Kinderhook — Effective Pay --- Ft. — Ticket No. 5505

Date 2/28/80 — Sec. 1 — Twp. 27S — Range 16W — County Kiowa — State Kansas

Test Approved by R. B. Gebbart, Jr. — Western Representative Vernon Wondra

Formation Test No. 3 — Interval Tested from 4563 ft. to 4587 ft. — Total Depth 4587 ft.

Packer Depth 4558 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 4563 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4577 ft. — Recorder Number 10979 — Cap. 4100

Bottom Recorder Depth (Outside) 4580 ft. — Recorder Number 1563 — Cap. 4200

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

Drilling Contractor Sterling Drilling Co. Rig #1 — Drill Collar Length 291 I. D. 2¼ in.

Mud Type premix-drispac — Viscosity 82 — Weight Pipe Length 456 I. D. 2.7 in.

Weight 8.9 — Water Loss 8.8 cc. — Drill Pipe Length 3795 I. D. 3.8 in.

Chlorides 8,000 P.P.M. — Test Tool Length 21 ft. — Tool Size 5½OD in.

Jars: Make -- — Serial Number - — Anchor Length 24 ft. — Size 5½OD

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: Very weak blow throughout both flow periods.

Recovered 75 ft. of mud with few oil spots on top.

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Recovered ____ ft. of

Remarks:

Time Set Packer(s) 7:15 A.M. ~~P.M.~~ — Time Started Off Bottom 9:45 A.M. ~~P.M.~~ — Maximum Temperature 131°

Initial Hydrostatic Pressure			(A)	2144	P.S.I.	
Initial Flow Period	Minutes 30		(B)	61	P.S.I. to (C)	25 P.S.I.
Initial Closed In Period	Minutes 45		(D)	1035	P.S.I.	
Final Flow Period	Minutes 30		(E)	83	P.S.I. to (F)	45 P.S.I.
Final Closed In Period	Minutes 45		(G)	917	P.S.I.	
Final Hydrostatic Pressure			(H)	2130	P.S.I.	

WTC-1

WESTERN TESTING CO., INC.
Pressure Data

Date 2/28/80 Test Ticket No. 5505

Recorder No. 10979 Capacity 4100 Location 4577 Ft.

Clock No. ----- Elevation 2078 Kelly Bushing Well Temperature 131 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	2144 P.S.I.	Open Tool	7:15A M	
B First Initial Flow Pressure	61 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	25 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	1035 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	83 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	45 P.S.I.			
G Final Closed-in Pressure	917 P.S.I.			
H Final Hydrostatic Mud	2130 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	61
P 2 5	38
P 3 10	27
P 4 15	25
P 5 20	25
P 6 25	25
P 7 30	25
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	25
3	34
6	55
9	101
12	181
15	292
18	420
21	550
24	652
27	738
30	808
33	873
36	929
39	977
42	1016
45	1035

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

Point Minutes	Press.
0	83
5	59
10	48
15	45
20	45
25	45
30	45

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	45
3	58
6	90
9	134
12	197
15	288
18	399
21	492
24	573
27	644
30	708
33	760
36	810
39	852
42	890
45	917

TR#5505

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