Company: Pickrell Drilling Company | Lease & Well No.: Kostner #3-A

Elevation: 1563 Kelly Bushing | Formation: Swope | Effective Pay: -- Ft. | Ticket No.: 1721

Date: 7/22/79 | Sec.: 14 | Twp.: 29S | Range: 7W | County: Kingman | State: Kansas

Test Approved by: Jay C. McNeil | Western Representative: Rod Tritt

Formation Test No.: 1 | Interval Tested from: 3742 ft. to: 3762 ft. | Total Depth: 3762 ft.

Packer Depth: 3737 ft. | Size: 6 3/4 in. | Packer Depth: - ft. | Size: - in.

Packer Depth: 3742 ft. | Size: 6 3/4 in. | Packer Depth: = ft. | Size: - in.

Depth of Selective Zone Set: -

Top Recorder Depth (Inside): 3746 ft. | Recorder Number: 2604 | Cap.: 4150

Bottom Recorder Depth (Outside): 3749 ft. | Recorder Number: 2606 | Cap.: 4150

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

Drilling Contractor: Pickrell Drilling | Drill Collar Length: - | I. D.: - in.

Mud Type: starch | Viscosity: 36 | Weight Pipe Length: 440 | I. D.: 2½ in.

Weight: 9.2 | Water Loss: 15.2 cc. | Drill Pipe Length: 3282 | I. D.: 3.8 in.

Chlorides: 41,000 P.P.M. | Test Tool Length: 20 ft. | Tool Size: 5½OD in.

Jars: Make: No | Serial Number: - | Anchor Length: 20 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: Weak building to strong blow 20 minutes on initial flow period. Fair blow building to strong blow in 15 minutes on final flow period.

Recovered 60 ft. of gas in pipe

Recovered 180 ft. of gas and slightly oil cut muddy water

Recovered 420 ft. of water chlorides 120,000 ppm

Recovered ____ ft. of

Recovered ____ ft. of

Remarks:

Time Set Packer(s): 9:00 A.M. ~~P.M.~~ | Time Started Off Bottom: 12:30 ~~A.M.~~ P.M. | Maximum Temperature: 125

Initial Hydrostatic Pressure			(A) 1870	P.S.I.		
Initial Flow Period	Minutes 30	(B) 83	P.S.I. to	(C) 102	P.S.I.	
Initial Closed In Period	Minutes 30	(D) 1067	P.S.I.			
Final Flow Period	Minutes 90	(E) 192	P.S.I. to	(F) 314	P.S.I.	
Final Closed In Period	Minutes 60	(G) 1074	P.S.I.			
Final Hydrostatic Pressure		(H) 1853	P.S.I.			

WESTERN TESTING CO., INC.
Pressure Data

Date 7/22/79

Test Ticket No. 1721

Recorder No. 2604 Capacity 4150 Location 3746 Ft.

Clock No. -- Elevation 1563 Kelly Bushing Well Temperature 125 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1870	P.S.I.
B	First Initial Flow Pressure	83	P.S.I.
C	First Final Flow Pressure	102	P.S.I.
D	Initial Closed-in Pressure	1067	P.S.I.
E	Second Initial Flow Pressure	192	P.S.I.
F	Second Final Flow Pressure	314	P.S.I.
G	Final Closed-in Pressure	1074	P.S.I.
H	Final Hydrostatic Mud	1853	P.S.I.

	Time Given	Time Computed
Open Tool	9:00A M	
First Flow Pressure	30 Mins.	30 Mins.
Initial Closed-in Pressure	30 Mins.	30 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	83
P 2 5	70
P 3 10	72
P 4 15	79
P 5 20	83
P 6 25	96
P 7 30	102
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	102
3	185
6	889
9	960
12	994
15	1019
18	1033
21	1046
24	1052
27	1061
30	1067

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

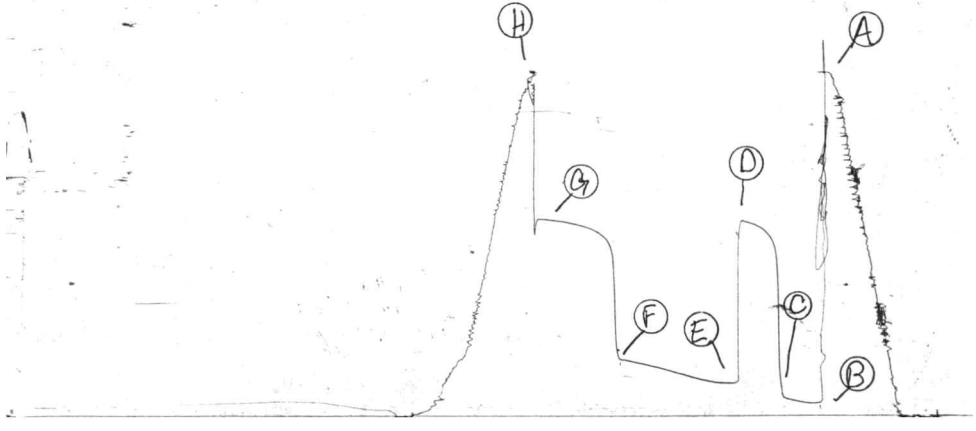
Point Minutes	Press.
0	192
5	177
10	177
15	181
20	188
25	194
30	207
35	218
40	230
45	239
50	251
55	262
60	271
65	280
70	288
75	295
80	303
85	310
90	314

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

Point Minutes	Press.
0	314
3	523
6	918
9	966
12	987
15	1006
18	1017
21	1025
24	1036
27	1040
30	1046
33	1051
36	1056
39	1061
42	1065
45	1067
48	1069
51	1071
54	1072
57	1073
60	1074

2604 DST#1

TK#1721
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Company Pickrell Drilling Company — Lease & Well No. Kostner #3-A

Elevation 1563 Kelly Bushing — Formation Hertha — Effective Pay -- Ft. — Ticket No. 1722

Date 7/23/79 — Sec. 14 — Twp. 29S — Range 7W — County Kingman — State Kansas

Test Approved by Jay C. McNeil — Western Representative Rod Tritt

Formation Test No. 2 — Interval Tested from 3781 ft. to 3793 ft. — Total Depth 3793 ft.

Packer Depth 3776 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Packer Depth 3781 ft. — Size 6 3/4 in. — Packer Depth - ft. — Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3784 ft. — Recorder Number 2604 — Cap. 4150

Bottom Recorder Depth (Outside) 3787 ft. — Recorder Number 2606 — Cap. 4150

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

Drilling Contractor Pickrell Drilling — Drill Collar Length - — I. D. - in.

Mud Type starch — Viscosity 38.0 — Weight Pipe Length 440 — I. D. 2½ in.

Weight 92 — Water Loss 15.2 cc. — Drill Pipe Length 3321 — I. D. 3.8 in.

Chlorides 41,000 P.P.M. — Test Tool Length 20 ft. — Tool Size 5½OD in.

Jars: Make No — Serial Number -- — Anchor Length 12 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: Weak building to strong blow in twenty minutes on initial flow period. Strong blow depleating to fair blow last thirty minutes.

Recovered 60 ft. of gas and oil cut watery mud (15% oil;20% gas;15% water;50% mud)

Recovered 60 ft. of water chlorides 115,000 ppm

Recovered ft. of

Recovered 240 ft. of gas in pipe

Recovered ft. of

Remarks:

Time Set Packer(s) 12:10 A.M. P.M. — Time Started Off Bottom 3:40 A.M. P.M. — Maximum Temperature 128

Initial Hydrostatic Pressure		(A)	1891	P.S.I.		
Initial Flow Period	Minutes 30	(B)	72	P.S.I. to (C)	37	P.S.I.
Initial Closed In Period	Minutes 30	(D)	736	P.S.I.		
Final Flow Period	Minutes 90	(E)	89	P.S.I. to (F)	58	P.S.I.
Final Closed In Period	Minutes 60	(G)	822	P.S.I.		
Final Hydrostatic Pressure		(H)	1853	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 7/23/79 Test Ticket No. 1722

Recorder No. 2604 Capacity 4150 Location 3784 Ft.

Clock No. -- Elevation 1563 Kelly Bushing Well Temperature 128 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1891 P.S.I.		Open Tool	12:10A M	
B	First Initial Flow Pressure	72 P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	37 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	736 P.S.I.		Second Flow Pressure	90 Mins.	90 Mins.
E	Second Initial Flow Pressure	89 P.S.I.		Final Closed-in Pressure	60 Mins.	60 Mins.
F	Second Final Flow Pressure	58 P.S.I.				
G	Final Closed-in Pressure	822 P.S.I.				
H	Final Hydrostatic Mud	1853 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	72
P 2	5	47
P 3	10	41
P 4	15	38
P 5	20	37
P 6	25	37
P 7	30	37
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	37
	3	45
	6	62
	9	126
	12	271
	15	395
	18	491
	21	584
	24	650
	27	699
	30	736

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

Point	Minutes	Press.
	0	89
	5	64
	10	58
	15	58
	20	58
	25	58
	30	58
	35	58
	40	58
	45	58
	50	58
	55	58
	60	58
	65	58
	70	58
	75	58
	80	58
	85	58
	90	58

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

Point	Minutes	Press.
	0	58
	3	70
	6	111
	9	207
	12	252
	15	447
	18	533
	21	590
	24	640
	27	680
	30	709
	33	728
	36	747
	39	761
	42	776
	45	784
	48	795
	51	801
	54	809
	57	816
	60	822

TK# 1722

