Company Horizon Resources, Inc. Lease & Well No. #1 Salt Ford #1-2

Elevation 1533 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 18357

Date 12/20/82 Sec. 2 Twp. 35S Range 15W County Barber State Kansas

Test Approved by Paul W. Lemming Western Representative Mike Rogers

Formation Test No. 1 Interval Tested from 4886 ft. to 4936 ft. Total Depth 4936 ft.

Packer Depth 4881 ft. Size 6 5/8 in. Packer Depth -- ft. Size - in.

Packer Depth 4886 ft. Size 6 5/8 in. Packer Depth -- ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4923 ft. Recorder Number 1566 Cap. 4300

Bottom Recorder Depth (Outside) 4927 ft. Recorder Number 3086 Cap. 4500

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

Drilling Contractor Big Horn Drilling Drill Collar Length 560 I. D. 2.2 in.

Mud Type salt mud Viscosity 49 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 13.2 cc. Drill Pipe Length 4296 I. D. 3.2 in.

Chlorides 32,500 P.P.M. Test Tool Length 30 ft. Tool Size 5½ in.

Jars: Make WTC Serial Number 3660 DC in anchor 31' Anchor Length 18' 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 4" in.

Blow: Fair four inch depleateing to one and one half inches on initial flow period. Dead on final flow period. Flushed tool had a four inch blow building to strong then depleating;

Recovered ft. of Flushed tool with six minutes left in final flow period.

Recovered 1015 ft. of drilling mud

Recovered ft. of with 30% water with 34,000 ppm chlorides

Recovered ft. of

Recovered ft. of

Remarks: MISRUN

Tool slid twenty feet to bottom.

Time Set Packer(s) 2:00 ~~A.M.~~ P.M. Time Started Off Bottom 6:00 ~~A.M.~~ P.M. Maximum Temperature ----

Initial Hydrostatic Pressure ..... (A) 2474 P.S.I.

Initial Flow Period ..... Minutes (B) - P.S.I. to (C) - P.S.I.

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

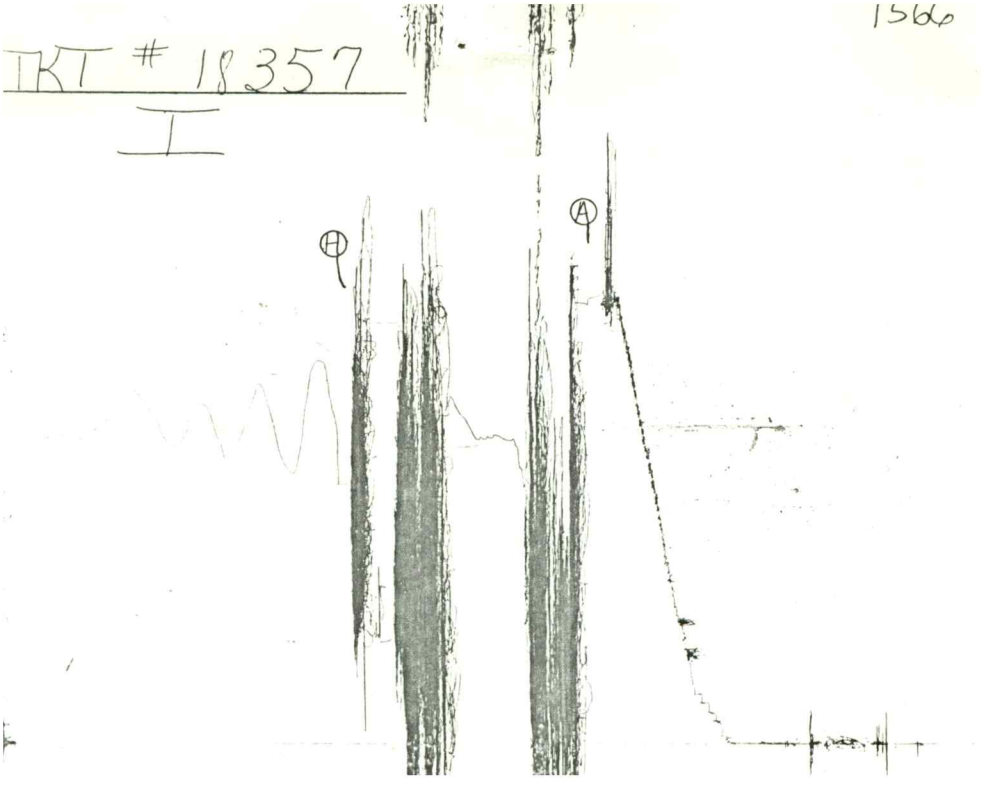
Final Flow Period ..... Minutes (E) - P.S.I. to (F) - P.S.I.

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

Final Hydrostatic Pressure ..... (H) 2374 P.S.I.

IKT # 18357

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Company Horizon Resources, Inc. Lease & Well No. #1 Salt Fork #1-2

Elevation 1532 Kelly Bushing Formation Mississippi Effective Pay -- Ft. Ticket No. 13899

Date 12/24/82 Sec. 2 Twp. 35S Range 15W County Barber State Kansas

Test Approved by James G. Collins Western Representative Allen Edgington

Formation Test No. 2 Interval Tested from 4886 ft. to 4952 ft. Total Depth 4995 ft.

Packer Depth 4880 ft. Size 6 3/4 in. Packer Depth 4852 ft. Size 6 3/4 in.

Packer Depth 4886 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4899 ft. Recorder Number 5666 Cap. 3950

Bottom Recorder Depth (Outside) 4902 ft. Recorder Number 3354 Cap. 4200

Below Straddle Recorder Depth 4992 ft. Recorder Number 11019 Cap. 4250

Drilling Contractor Big Horn Drilling Rig #1 Drill Collar Length 473 I. D. 2¼ in.

Mud Type starch Viscosity 62 Weight Pipe Length - I. D. - in.

Weight 8.9 Water Loss 16.4 cc. Drill Pipe Length 4411 I. D. 3 in.

Chlorides 35,200 P.P.M. Test Tool Length 30 ft. Tool Size 5 in.

Jars: Make WTC Serial Number 407 Anchor Length 66 ft. Size 5 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 4FH in.

Blow: Strong throughout test.

Recovered 360 ft. of slightly gas cut muddy salt water

Recovered 270 ft. of gas cut muddy salt water Chlorides 63,200 PPM

Recovered 2360 ft. of gas cut salt water

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 12:45 ~~A.M.~~ P.M. Time Started Off Bottom 4:45 A.M. P.M. Maximum Temperature 130°

Initial Hydrostatic Pressure		(A) 2337	P.S.I.	
Initial Flow Period	Minutes 35	(B) 286 *	P.S.I. to (C) 892 *	P.S.I.
Initial Closed In Period	Minutes 57	(D) 1946	P.S.I.	
Final Flow Period	Minutes 60	(E) 926	P.S.I. to (F) 1518	P.S.I.
Final Closed In Period	Minutes 90	(G) 1988	P.S.I.	
Final Hydrostatic Pressure		(H) 2313	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 12/24/82 Test Ticket No. 13899

Recorder No. 5666 Capacity 3950 Location 4899 Ft.

Clock No. -- Elevation 1532 Kelly Bushing Well Temperature 130 °F

Point	Pressure	
A Initial Hydrostatic Mud	2337	P.S.I.
B First Initial Flow Pressure	286 *	P.S.I.
C First Final Flow Pressure	892 *	P.S.I.
D Initial Closed-in Pressure	1946	P.S.I.
E Second Initial Flow Pressure	926	P.S.I.
F Second Final Flow Pressure	1518	P.S.I.
G Final Closed-in Pressure	1988	P.S.I.
H Final Hydrostatic Mud	2313	P.S.I.

	Time Given	Time Computed
Open Tool	12:45P M	
First Flow Pressure	30 Mins.	35 Mins.
Initial Closed-in Pressure	60 Mins.	57 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	90 Mins.	90 Mins.

* PRESSURES QUESTIONABLE DUE TO PLUGGING ACTION

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1 0	286 *
P 2 5	567 *
P 3 10	539 *
P 4 15	679 *
P 5 20	709 *
P 6 25	775 *
P 7 30	855 *
P 8 35	892 *
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 19 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	892 *
3	1650
6	1704
9	1744
12	1774
15	1799
18	1821
21	1843
24	1859
27	1873
30	1882
33	1891
36	1900
39	1908
42	1916
45	1924
48	1930
51	1936
54	1941
57	1946

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

Point Minutes	Press.
0	926
5	986
10	1060
15	1124
20	1173
25	1235
30	1284
35	1337
40	1382
45	1430
50	1471
55	1508
60	1518

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	1518
3	1887
6	1912
9	1926
12	1935
15	1945
18	1949
21	1953
24	1957
27	1961
30	1964
33	1966
36	1968
39	1970
42	1972
45	1974
48	1976
51	1977
54	1978
57	1979
60	1980

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WESTERN TESTING CO., INC.
Pressure Data

Date 12/24/82 Test Ticket No. 13899

Recorder No. 5666 Capacity 3950 Location 4899 Ft.

Clock No. -- Elevation 1532 Kelly Bushing Well Temperature 130 °F

Point	Pressure	
A Initial Hydrostatic Mud	2337	P.S.I.
B First Initial Flow Pressure	286 *	P.S.I.
C First Final Flow Pressure	892 *	P.S.I.
D Initial Closed-in Pressure	1946	P.S.I.
E Second Initial Flow Pressure	926	P.S.I.
F Second Final Flow Pressure	1518	P.S.I.
G Final Closed-in Pressure	1988	P.S.I.
H Final Hydrostatic Mud	2313	P.S.I.

	Time Given	Time Computed
Open Tool	12:45P M	
First Flow Pressure	30 Mins.	35 Mins.
Initial Closed-in Pressure	60 Mins.	57 Mins.
Second Flow Pressure	60 Mins.	60 Mins.
Final Closed-in Pressure	90 Mins.	90 Mins.

* PRESSURES QUESTIONABLE DUE TO PLUGGING ACTION

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 7 Inc. of 5 mins. and a final inc. of 0 Min.

Point Mins.	Press.
P 1	
P 2	
P 3	
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 19 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.

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

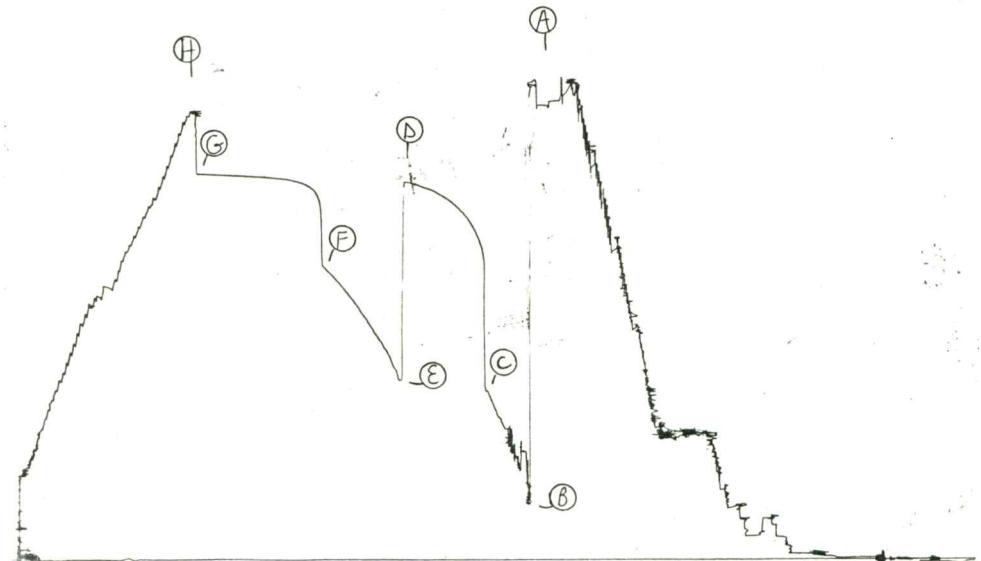
Point Minutes	Press.

Final Shut-In
Breakdown: 30 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
63	1981
66	1982
69	1983
72	1984
75	1985
78	1986
81	1987
84	1988
87	1988
90	1988

TKT # 13899

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IKT # 13899

Below Straddle

