Company Rains & Williamson Oil Co.,Inc. Lease & Well No. Gifford #1

Elevation 1285 Kelly Bushing Formation Kansas City Effective Pay -- Ft. Ticket No. 3246

Date 9/13/79 Sec. 22 Twp. 31S Range 1E County Sumner State Kansas

Test Approved by H. Deane Jirrels Western Representative Ron Emmons

Formation Test No. 1 Interval Tested from 2890 ft. to 2910 ft. Total Depth 2910 ft.

Packer Depth 2885 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 2890 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 2891 ft. Recorder Number 3085 Cap. 4500

Bottom Recorder Depth (Outside) 2894 ft. Recorder Number 1562 Cap. 3200

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

Drilling Contractor Rains & Williamson Rig #3 Drill Collar Length 436 I. D. 2¼ in.

Mud Type chemical Viscosity 35 Weight Pipe Length - I. D. - in.

Weight 98 Water Loss 16.8 cc. Drill Pipe Length 2674 I. D. 3.8 in.

Chlorides 1,800 P.P.M. Test Tool Length 41 ft. Tool Size 5½OD in.

Jars: Make -- Serial Number -- Anchor Length 20 ft. Size 5½OD 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 4½FH in.

Blow: A weak surge when tool opened first flow period. Weak blow for five minutes then flushed tool--no blow.

Recovered 80 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 6:20 A.M. P.M. Time Started Off Bottom 8:20 A.M. P.M. Maximum Temperature 108

Initial Hydrostatic Pressure ..... (A) 1430 P.S.I.

Initial Flow Period ..... Minutes 30 (B) 26 P.S.I. to (C) 24 P.S.I.

Initial Closed In Period ..... Minutes 30 (D) 618 P.S.I.

Final Flow Period ..... Minutes 50 (E) 48 P.S.I. to (F) 67 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 751 P.S.I.

Final Hydrostatic Pressure ..... (H) 1361 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 9/13/79 Test Ticket No. 3246

Recorder No. 3085 Capacity 4500 Location 2891 Ft.

Clock No. -- Elevation 1285 Kelly Bushing Well Temperature 108 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1430 P.S.I.	Open Tool	6:20A M	
B First Initial Flow Pressure	26 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	24 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	618 P.S.I.	Second Flow Pressure	30 Mins.	50 Mins.
E Second Initial Flow Pressure	48 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	67 P.S.I.			
G Final Closed-in Pressure	751 P.S.I.			
H Final Hydrostatic Mud	1361 P.S.I.			

PRESSURE BREAKDOWN

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

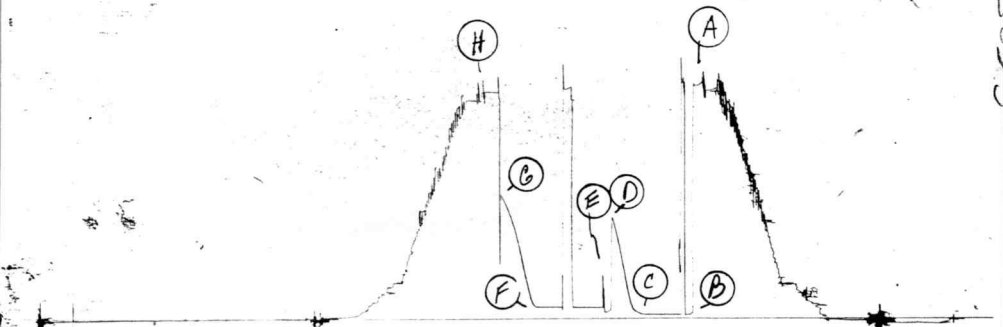
Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 10 Inc.
of 5 mins. and a
final inc. of 0 Min.

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

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	26	0	24	0	48	0	67
P 2 5	24	3	24	5	38	3	72
P 3 10	flushed tool 24	6	24	10	flushed tool 67	6	91
P 4 15	24	9	33	15	67	9	172
P 5 20	24	12	48	20	67	12	282
P 6 25	24	15	93	25	67	15	394
P 7 30	24	18	196	30	flushed tool	18	493
P 8		21	323	35	67	21	577
P 9		24	445	40	67	24	644
P10		27	539	45	67	27	700
P11		30	618	50	67	30	751
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

IRt #3246



Company Rains & Williamson Oil Company, Inc. Lease & Well No. Gifford #1

Elevation -- Formation Mississippi Effective Pay -- Ft. Ticket No. 3273

Date 9/16/79 Sec. 22 Twp. 31S Range 1E County Sumner State Kansas

Test Approved by H. Deane Jirrels Western Representative W. K. Hager

Formation Test No. 2 Interval Tested from 3519 ft. to 3530 ft. Total Depth 3530 ft.

Packer Depth 3514 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3519 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set --

Top Recorder Depth (Inside) 3524 ft. Recorder Number 1558 Cap. 4200

Bottom Recorder Depth (Outside) 3527 ft. Recorder Number 1559 Cap. 4200

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

Drilling Contractor Rains & Williamson Oil #3 Drill Collar Length 436 I. D. 2¼ in.

Mud Type Viscosity 40 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 13.6 cc. Drill Pipe Length 3063 I. D. 3.8 in.

Chlorides 4,000 P.P.M. Test Tool Length 31 ft. Tool Size 5½ in.

Jars: Make -- Serial Number -- Anchor Length 11 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 4½FH in.

Blow: Very weak blow;died in ten minutes/flushed tool on final flow period. No positive results.

Recovered 63 ft. of very heavy mud

Recovered ft. of

Recovered ft. of

Recovered ft. of MISRUN

Recovered ft. of

Recovered ft. of

Remarks: Misrun;plugged tool and anchors with very heavy mud.

Time Set Packer(s) 2:20 A.M. P.M. Time Started Off Bottom 4:20 A.M. P.M. Maximum Temperature 116

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

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

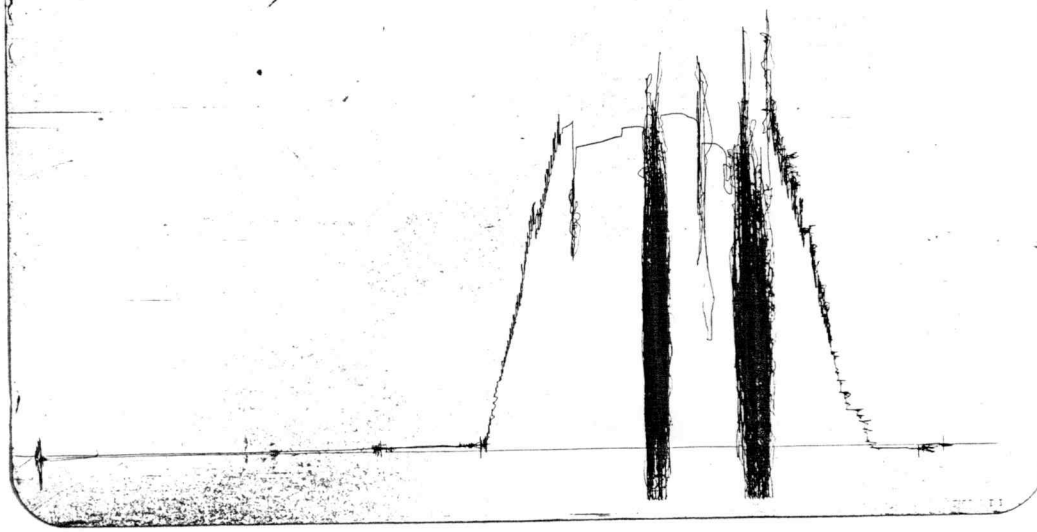
Initial Closed In Period ..... Minutes (D) P.S.I.

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

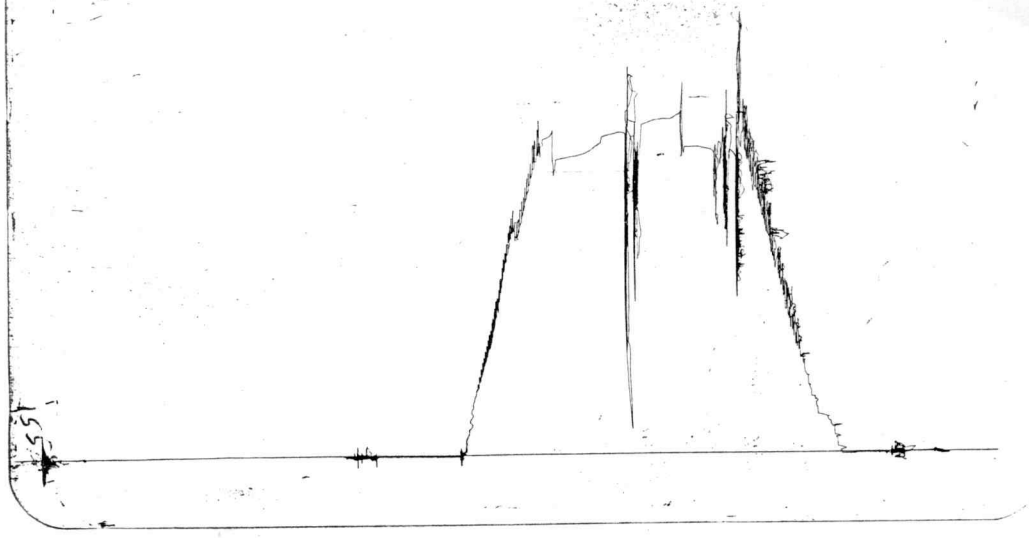
Final Closed In Period ..... Minutes (G) P.S.I.

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

TH#3273
I



TH#3273
O



Company: Rains & Williamson Oil Co.,Inc. Lease & Well No.: Gifford #1

Elevation: 1285 Kelly Bushing Formation: Mississippi Effective Pay: -- Ft. Ticket No.: 3274

Date: 9/16/79 Sec.: 22 Twp.: 31S Range: 1E County: Sumner State: Kansas

Test Approved by: H. Deane Jirrels Western Representative: W. K. Hager

Formation Test No. 3 Interval Tested from 3519 ft. to 3544 ft. Total Depth 3544 ft.

Packer Depth 3514 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3519 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3529 ft. Recorder Number 1558 Cap. 4200

Bottom Recorder Depth (Outside) 3532 ft. Recorder Number 1559 Cap. 4200

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

Drilling Contractor Rains & Williamson Rig #3 Drill Collar Length 436 I. D. 2¼ in.

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

Weight 9.3 Water Loss 10.8 cc. Drill Pipe Length 3063 I. D. 3.8 in.

Chlorides 10,400 P.P.M. Test Tool Length 45 ft. Tool Size 5½ in.

Jars: Make -- Serial Number -- Anchor Length 25 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 4½FH in.

Blow: Very weak blow on initial flow period/weak, increasing to fair blow on final flow period.

Recovered 400 ft. of gas in pipe

Recovered 20 ft. of heavy oil cut mud

Recovered 120 ft. of muddy water with a heavy scum of oil

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 10:55 A.M. P.M. Time Started Off Bottom 1:25 A.M. ~~P.M.~~ Maximum Temperature 117

Initial Hydrostatic Pressure			(A) 1740	P.S.I.		
Initial Flow Period	Minutes 30	(B) 68	P.S.I.	to (C) 44	P.S.I.	
Initial Closed In Period	Minutes 30	(D) 1268	P.S.I.			
Final Flow Period	Minutes 60	(E) 99	P.S.I.	to (F) 89	P.S.I.	
Final Closed In Period	Minutes 30	(G) 1205	P.S.I.			
Final Hydrostatic Pressure			(H) 1639	P.S.I.		

WESTERN TESTING CO., INC.
Pressure Data

Date 9/16/79 Test Ticket No. 3274

Recorder No. 1558 Capacity 4200 Location 3529 Ft.

Clock No. -- Elevation 1285 Kelly Bushing Well Temperature 117 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1740 P.S.I.	Open Tool	10:55P M	
B First Initial Flow Pressure	68 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	44 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	1268 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	99 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	89 P.S.I.			
G Final Closed-in Pressure	1205 P.S.I.			
H Final Hydrostatic Mud	1639 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	68
P 2 5	78
P 3 10	48
P 4 15	44
P 5 20	44
P 6 25	44
P 7 30	44
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	44
3	63
6	179
9	413
12	748
15	975
18	1096
21	1163
24	1212
27	1241
30	1268

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

Point Minutes	Press.
0	99
5	78
10	75
15	76
20	78
25	79
30	80
35	82
40	83
45	84
50	85
55	87
60	89

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

Point Minutes	Press.
0	89
3	125
6	213
9	346
12	533
15	756
18	939
21	1056
24	1125
27	1171
30	1205

1558

TH # 3274
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