WESTERN TESTERS

Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

Company Petroleum Energy, Inc. Lease & Well No. Poppelreiter #2

Elevation 1868 Kelly Bush. Formation Lansing Effective Pay - Ft. Ticket No. 13562

Date 12-19-81 Sec. 8 Twp. 17S Range 11W County Barton State Kansas

Test Approved by Michael J. Wreath Western Representative Denis Wondra

Formation Test No. 1 Interval Tested from 3073 ft. to 3118 ft. Total Depth 3118 ft.

Packer Depth 3068 ft. Size 6 5/8 in. Packer Depth 3073 ft. Size 6 5/8 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3083 ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) 3086 ft. Recorder Number 1049 Cap. 4150

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

Drilling Contractor White & Ellis Drlg. (#2) Drill Collar Length 330 I. D. 2.7 in.

Mud Type Starch Viscosity 36 Weight Pipe Length - I. D. - in.

Weight 9.6 Water Loss 24 cc. Drill Pipe Length 2721 I. D. 3.8 in.

Chlorides 42,000 P.P.M. Test Tool Length 22 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - Anchor Length 45 ft. Size 5½OD in.

Did Well Flow? No 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: Very weak decreasing throughout initial flow period. Very weak died in 5 minutes on final flow period.

Recovered 360 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Hit bridges starting at 7th and 8th stands off bottom. Tool opened going in the hole when hitting bridge.

Time Set Packer(s) 6:58 ~~A.M.~~ P.M. Time Started Off Bottom 8:20 ~~A.M.~~ P.M. Maximum Temperature 100°

Initial Hydrostatic Pressure ..... (A) 1600 P.S.I.

Initial Flow Period ..... Minutes 20 (B) 197 P.S.I. to (C) 197 P.S.I.

Initial Closed In Period ..... Minutes 21 (D) 1032 P.S.I.

Final Flow Period ..... Minutes 20 (E) 192 P.S.I. to (F) 194 P.S.I.

Final Closed In Period ..... Minutes 21 (G) 1000 P.S.I.

Final Hydrostatic Pressure ..... (H) 1600 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 12/19/81 Test Ticket No. 13562

Recorder No. 3474 Capacity 3000 Location 3083 Ft.

Clock No. -- Elevation 1868 Kelly Bushing Well Temperature 100 °F

Point		Pressure	
A	Initial Hydrostatic Mud	1600	P.S.I.
B	First Initial Flow Pressure	197	P.S.I.
C	First Final Flow Pressure	197	P.S.I.
D	Initial Closed-in Pressure	1032	P.S.I.
E	Second Initial Flow Pressure	192	P.S.I.
F	Second Final Flow Pressure	194	P.S.I.
G	Final Closed-in Pressure	1000	P.S.I.
H	Final Hydrostatic Mud	1600	P.S.I.

	Time Given	Time Computed
Open Tool	6:58P M	
First Flow Pressure	20 Mins.	20 Mins.
Initial Closed-in Pressure	20 Mins.	21 Mins.
Second Flow Pressure	20 Mins.	20 Mins.
Final Closed-in Pressure	20 Mins.	21 Mins.

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 4 Inc. of 5 mins. and a final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	197
P 2	5	197
P 3	10	197
P 4	15	197
P 5	20	197
P 6		
P 7		
P 8		
P 9		
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 7 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	197
	3	476
	6	729
	9	892
	12	964
	15	994
	18	1014
	21	1032

Second Flow Pressure
Breakdown: 4 Inc. of 5 mins. and a final inc. of 0 Min.

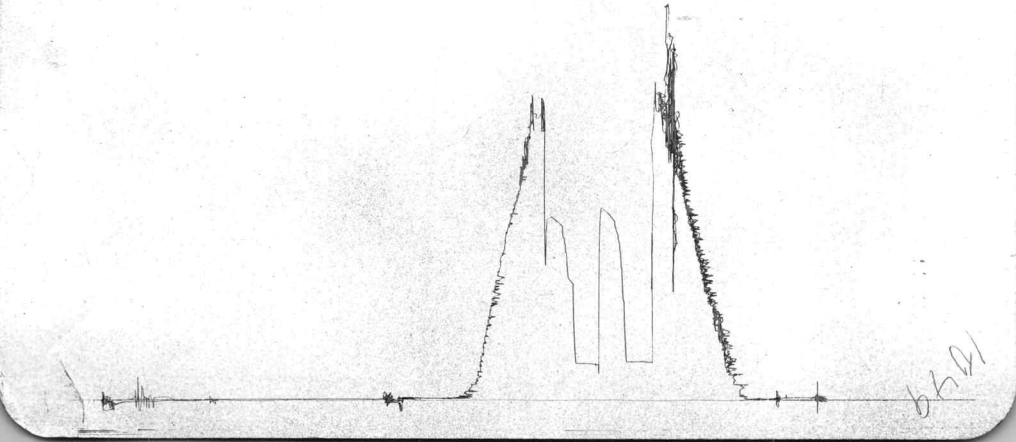
Point	Minutes	Press.
	0	192
	5	193
	10	194
	15	194
	20	194

Final Shut-In
Breakdown: 7 Inc. of 3 mins. and a final inc. of 0 Min.

Point	Minutes	Press.
	0	194
	3	433
	6	683
	9	848
	12	921
	15	959
	18	979
	21	1000

WTC - 4

Tkt # 13562



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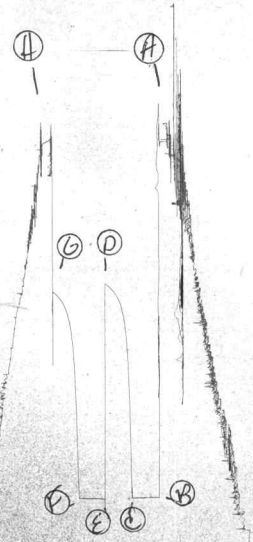

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Company Petroleum Energy, Inc. Lease & Well No. Poppelreiter #2

Elevation 1868 Kelly Bush. Formation Arbuckle Effective Pay - Ft. Ticket No. 13563

Date 12-21-81 Sec. 8 Twp. 17S Range 11W County Barton State Kansas

Test Approved by Michael J. Wreath Western Representative Denis Wondra

Formation Test No. 2 Interval Tested from 3277 ft. to 3321 ft. Total Depth 3321 ft.

Packer Depth 3272 ft. Size 6 5/8 in. Packer Depth 3277 ft. Size 6 5/8 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3311 ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) 3314 ft. Recorder Number 1049 Cap. 4150

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

Drilling Contractor White & Ellis Drlg. (32) Drill Collar Length 330 I. D. 2.7 in.

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

Weight 9.6 Water Loss 14 cc. Drill Pipe Length 2925 I. D. 3.8 in.

Chlorides 44,000 P.P.M. Test Tool Length 22 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - Anchor Length 44 ft. Size 5½OD in.

Did Well Flow? No 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: Weak blow decreasing throughout initial flow period. No blow on final flow period.

Recovered 5 ft. of mud with few spots of oil

Recovered ft. of Some free oil on top of tool

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Read outside recorder #1049.

Time Set Packer(s) 8:28 A.M. P.M. Time Started Off Bottom 10:50 A.M. P.M. Maximum Temperature 107

Initial Hydrostatic Pressure ..... (A) 1786 P.S.I.

Initial Flow Period ..... Minutes 40 (B) 45 P.S.I. to (C) 45 P.S.I.

Initial Closed In Period ..... Minutes 24 (D) 50 P.S.I.

Final Flow Period ..... Minutes 40 (E) 45 P.S.I. to (F) 45 P.S.I.

Final Closed In Period ..... Minutes 30 (G) 45 P.S.I.

Final Hydrostatic Pressure ..... (H) 1786 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 12/21/81 Test Ticket No. 13563

Recorder No. 1049 Capacity 4150 Location 3314 Ft.

Clock No. - Elevation 1868 Kelly Bushing Well Temperature 107 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1786 P.S.I.	Open Tool		8:28A M	
B	First Initial Flow Pressure	45 P.S.I.	First Flow Pressure		40 Mins.	40 Mins.
C	First Final Flow Pressure	45 P.S.I.	Initial Closed-in Pressure		30 Mins.	24 Mins.
D	Initial Closed-in Pressure	50 P.S.I.	Second Flow Pressure		40 Mins.	40 Mins.
E	Second Initial Flow Pressure	54 P.S.I.	Final Closed-in Pressure		30 Mins.	30 Mins.
F	Second Final Flow Pressure	54 P.S.I.				
G	Final Closed-in Pressure	45 P.S.I.				
H	Final Hydrostatic Mud	1786 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 8 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	45
P 2	5	45
P 3	10	45
P 4	15	45
P 5	20	45
P 6	25	45
P 7	30	45
P 8	35	45
P 9	40	45
P10		
P11		
P12		
P13		
P14		
P15		
P16		
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 8 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point	Minutes	Press.
	0	45
	3	45
	6	45
	9	45
	12	46
	15	47
	18	48
	21	49
	24	50

Second Flow Pressure
Breakdown: 8 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Minutes	Press.
	0	45
	5	45
	10	45
	15	45
	20	45
	25	45
	30	45
	35	45
	40	45

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

Point	Minutes	Press.
	0	45
	3	45
	6	45
	9	45
	12	45
	15	45
	18	45
	21	45
	24	45
	27	45
	30	45

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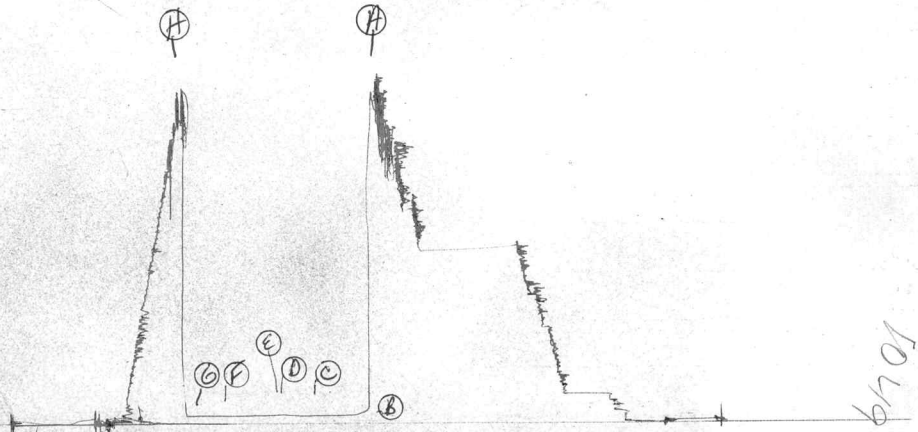

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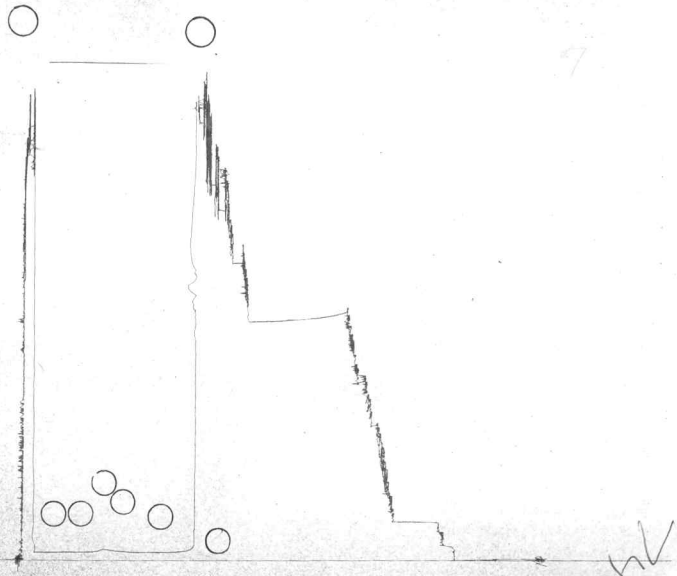

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Company Petroleum Energy, Inc. Lease & Well No. Poppelreiter #2

Elevation 1868 Kelly Bush Formation Arbuckle Effective Pay - Ft. Ticket No. 13564

Date 12-22-81 Sec. 8 Twp. 17S Range 11W County Barton State Kansas

Test Approved by Michael J. Wreath Western Representative Denis Wondra

Formation Test No. 3 Interval Tested from 3276 ft. to 3328 ft. Total Depth 3328 ft.

Packer Depth 3271 ft. Size 6 5/8 in. Packer Depth 3276 ft. Size 6 5/8 in.

Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3318 ft. Recorder Number 3474 Cap. 3000

Bottom Recorder Depth (Outside) 3321 ft. Recorder Number 1049 Cap. 4150

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

Drilling Contractor White & Ellis Drlg. (#2) Drill Collar Length 330 I. D. 2.7 in.

Mud Type Starch Viscosity 45 Weight Pipe Length - I. D. - in.

Weight 9.7 Water Loss 10.4 cc. Drill Pipe Length 2924 I. D. 3.8 in.

Chlorides 43,000 P.P.M. Test Tool Length 22 ft. Tool Size 5½OD in.

Jars: Make - Serial Number - Anchor Length 52 ft. Size 5½OD in.

Did Well Flow? No 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: Weak steady blow throughout test.

Recovered 75 ft. of heavily oil cut mud (55% oil, 2% water, 43% mud)

Recovered 120 ft. of oil cut mud (20% oil, 2% water, 78% mud)

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 5:58 A.M. P.M. Time Started Off Bottom 8:00 A.M. ~~P.M.~~ Maximum Temperature 107°

Initial Hydrostatic Pressure			(A)	1721	P.S.I.	
Initial Flow Period	Minutes	30	(B)	93 P.S.I. to	(C)	98 P.S.I.
Initial Closed In Period	Minutes	33	(D)	1014	P.S.I.	
Final Flow Period	Minutes	25	(E)	120 P.S.I. to	(F)	126 P.S.I.
Final Closed In Period	Minutes	30	(G)	991	P.S.I.	
Final Hydrostatic Pressure			(H)	1721	P.S.I.	

WESTERN TESTING CO., INC.
Pressure Data

Date 12/22/81 Test Ticket No. 13564

Recorder No. 3474 Capacity 3000 Location 3318 Ft.

Clock No. - Elevation 1868 Kelly Bushing Well Temperature 107 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1721 P.S.I.	Open Tool	5:58A M	
B First Initial Flow Pressure	93 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	98 P.S.I.	Initial Closed-in Pressure	30 Mins.	33 Mins.
D Initial Closed-in Pressure	1014 P.S.I.	Second Flow Pressure	30 Mins.	25 Mins.
E Second Initial Flow Pressure	120 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
F Second Final Flow Pressure	126 P.S.I.			
G Final Closed-in Pressure	991 P.S.I.			
H Final Hydrostatic Mud	1721 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	93
P 2 5	93
P 3 10	93
P 4 15	94
P 5 20	95
P 6 25	96
P 7 30	98
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 11 Inc. of 3 mins. and a final inc. of 0 Min.

Point Minutes	Press.
0	98
3	562
6	727
9	806
12	871
15	914
18	942
21	967
24	985
27	995
30	1009
33	1014
	1014

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

Point Minutes	Press.
0	120
5	120
10	120
15	121
20	123
25	126

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

Point Minutes	Press.
0	126
3	547
6	700
9	791
12	848
15	891
18	926
21	948
24	965
27	980
30	991

1049

TK # 13564

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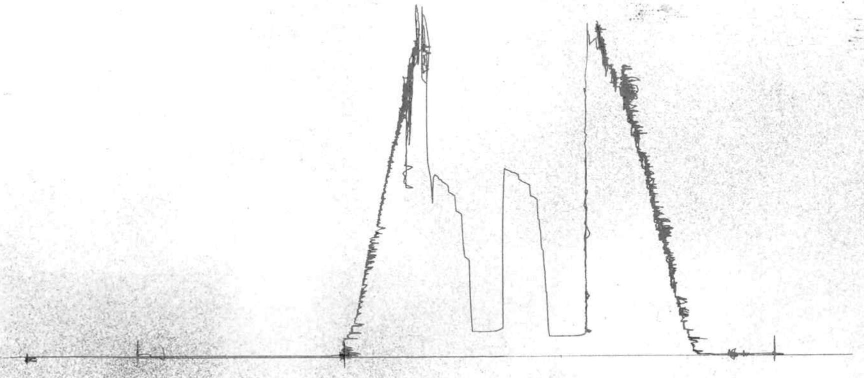

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