Company Petroleum Energy, Inc. Lease & Well No. Wiggins #1

Elevation ----- Formation Kansas City Effective Pay - Ft. Ticket No. 12277

Date 8/ 7 /81 Sec. 10 Twp. 19S Range 9W County Rice State Kansas

Test Approved by Jim Musgrove Western Representative Dan Delaney-Jim Schulz

Formation Test No. 1 Interval Tested from 2900 ft. to 2960 ft. Total Depth 2960 ft.

Packer Depth 2895 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 2900 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2916 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 2919 ft. Recorder Number 6077 Cap. 4700

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

Drilling Contractor Duke Drilling Rig #3 Drill Collar Length 120 I. D. 2.2 in.

Mud Type starch-salt-clay Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 9.9 Water Loss 10.6 cc. Drill Pipe Length 2759 I. D. 3.8 in.

Chlorides 86,000 P.P.M. Test Tool Length 21 ft. Tool Size 4½ in.

Jars: Make - Serial Number - Anchor Length 60 ft. Size 5½ in.

Did Well Flow? NO Reversed Out NO Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Initial flow weak blow throughout the period. Final flow period weak blow; died in seven minutes. Flushed tool - no help.

Recovered 65 ft. of mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 6:05 ~~A.M.~~ P.M. Time Started Off Bottom 8:35 ~~A.M.~~ P.M. Maximum Temperature 99°

Initial Hydrostatic Pressure			(A)	1548	P.S.I.	
Initial Flow Period	Minutes	45	(B)	66	P.S.I. to (C)	67 P.S.I.
Initial Closed In Period	Minutes	42	(D)	177	P.S.I.	
Final Flow Period	Minutes	30	(E)	80	P.S.I. to (F)	86 P.S.I.
Final Closed In Period	Minutes	30	(G)	172	P.S.I.	
Final Hydrostatic Pressure			(H)	1548	P.S.I.	

WTC-1

WESTERN TESTING CO., INC.
Pressure Data

Date 8/7/81 Test Ticket No. 12277

Recorder No. 6234 Capacity 4500 Location 2916

Clock No. - Elevation --- Ft. Well Temperature 99 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1548 P.S.I.		Open Tool	6:05P M	
B	First Initial Flow Pressure	66 P.S.I.		First Flow Pressure	45 Mins.	45 Mins.
C	First Final Flow Pressure	67 P.S.I.		Initial Closed-in Pressure	45 Mins.	42 Mins.
D	Initial Closed-in Pressure	177 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	80 P.S.I.		Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	86 P.S.I.				
G	Final Closed-in Pressure	172 P.S.I.				
H	Final Hydrostatic Mud	1548 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 9 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Mins.	Press.
P 1 0	66
P 2 5	66
P 3 10	66
P 4 15	66
P 5 20	66
P 6 25	66
P 7 30	66
P 8 35	66
P 9 40	66
P10 45	67
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 14 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	67
3	71
6	80
9	87
12	94
15	103
18	112
21	122
24	131
27	140
30	147
33	156
36	163
39	174
42	177

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

Point Minutes	Press.
0	80
5	80
10	FLUSHED TOOL
15	87
20	86
25	86
30	86

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

Point Minutes	Press.
0	86
3	88
6	94
9	103
12	115
15	124
18	135
21	147
24	158
27	167
30	172

IKt # 12277

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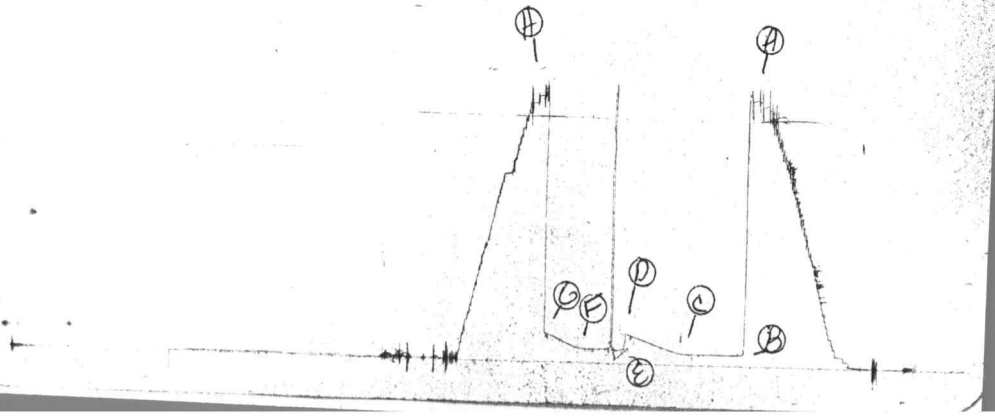

6234

Company Petroleum Energy, Inc. Lease & Well No. Wiggins #1

Elevation ----- Formation Simpson Sand Effective Pay - Ft. Ticket No. 12278

Date 8/ 11/81 Sec. 10 Twp. 19S Range 9W County Rice State Kansas

Test Approved by Jim Musgrove Western Representative Dan Delaney-Jim Schulz

Formation Test No. 2 Interval Tested from 3182 ft. to 3212 ft. Total Depth 3212 ft.

Packer Depth 3177 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3182 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3198 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 3201 ft. Recorder Number 6077 Cap. 4700

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

Drilling Contractor Duke Drilling Rig #3 Drill Collar Length 120 I. D. 2.2 in.

Mud Type starch-salt-clay Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 10.0 Water Loss 14.0 cc. Drill Pipe Length 3041 I. D. 3.8 in.

Chlorides 73,000 P.P.M. Test Tool Length 21 ft. Tool Size 4½ in.

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

Did Well Flow? NO Reversed Out NO Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: MISRUN

Recovered ft. of

Recovered ft. of

Recovered ft. of PACKER FAILURE MISRUN

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) A.M. P.M. Time Started Off Bottom A.M. P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) 1701 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) 1690 P.S.I.

WTC-

TK# 12278

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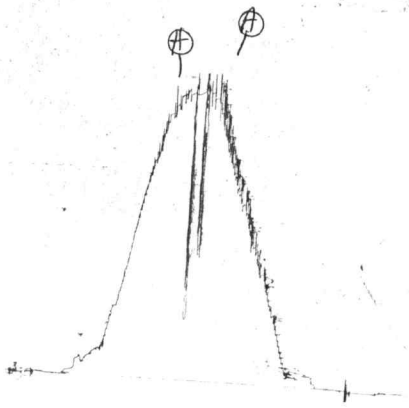

Company Petroleum Energy, Inc. Lease & Well No. Wiggins #1

Elevation ----- Formation Simpson Sand Effective Pay - Ft. Ticket No. 12279

Date 8/ 11/81 Sec. 10 Twp. 19S Range 9W County Rice State Kansas

Test Approved by Jim Musgrove Western Representative Dan Delaney-Jim Schulz

Formation Test No. 3 Interval Tested from 3172 ft. to 3212 ft. Total Depth 3212 ft.

Packer Depth 3167 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3172 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3188 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 3191 ft. Recorder Number 6077 Cap. 4700

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

Drilling Contractor Duke Drilling Rig #3 Drill Collar Length 120 I. D. 2.2 in.

Mud Type starch-salt-clay Viscosity 41 Weight Pipe Length - I. D. - in.

Weight 10.0 Water Loss 14.0 cc. Drill Pipe Length 3031 I. D. 3.8 in.

Chlorides 73,000 P.P.M. Test Tool Length 21 ft. Tool Size 4½ in.

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

Did Well Flow? NO Reversed Out NO Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Weak blow building to a strong blow on initial flow period. Strong blow throughout final flow period.

Recovered 120 ft. of gas in pipe

Recovered 780 ft. of heavy oil cut mud

Recovered 660 ft. of oil cut muddy water (40% oil;20% mud;40% water)

Recovered 60 ft. of slightly oil cut water (20% oil;80% water)

Recovered 10 ft. of oil cut mud

Remarks: Chlorides 95,000 ppm

Time Set Packer(s) 2:30 ~~A.M.~~ P.M. Time Started Off Bottom 4:30 ~~A.M.~~ P.M. Maximum Temperature 103°

Initial Hydrostatic Pressure			(A)	1701	P.S.I.	
Initial Flow Period	Minutes	30	(B)	PLUGGED	P.S.I. to (C)	392 P.S.I.
Initial Closed In Period	Minutes	30	(D)	1000	P.S.I.	
Final Flow Period	Minutes	30	(E)	422	P.S.I. to (F)	588 P.S.I.
Final Closed In Period	Minutes	30	(G)	980	P.S.I.	
Final Hydrostatic Pressure			(H)	1690	P.S.I.	

WTC-1

WESTERN TESTING CO., INC.
Pressure Data

Date 8/11/81 Test Ticket No. 12279

Recorder No. 6234 Capacity 4500 Location 3188

Clock No. - - Elevation - Well Temperature 103 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1701 P.S.I.		Open Tool	2:30P M	
B	First Initial Flow Pressure	PLUGGED P.S.I.		First Flow Pressure	30 Mins.	30 Mins.
C	First Final Flow Pressure	392 P.S.I.		Initial Closed-in Pressure	30 Mins.	30 Mins.
D	Initial Closed-in Pressure	1000 P.S.I.		Second Flow Pressure	30 Mins.	30 Mins.
E	Second Initial Flow Pressure	422 P.S.I.		Final Closed-in Pressure	30 Mins.	30 Mins.
F	Second Final Flow Pressure	588 P.S.I.				
G	Final Closed-in Pressure	980 P.S.I.				
H	Final Hydrostatic Mud	1690 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	PLUGGED
P 2	5	PLUGGED
P 3	10	278
P 4	15	3k4
P 5	20	333
P 6	25	367
P 7	30	392
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	392
3	923
6	950
9	962
12	971
15	977
18	984
21	989
24	993
27	998
30	1000

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

Point Minutes	Press.
0	422
5	431
10	466
15	498
20	532
25	563
30	588

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

Point Minutes	Press.
0	588
3	910
6	928
9	939
12	948
15	955
18	962
21	966
24	971
27	977
30	980

TK# 12279
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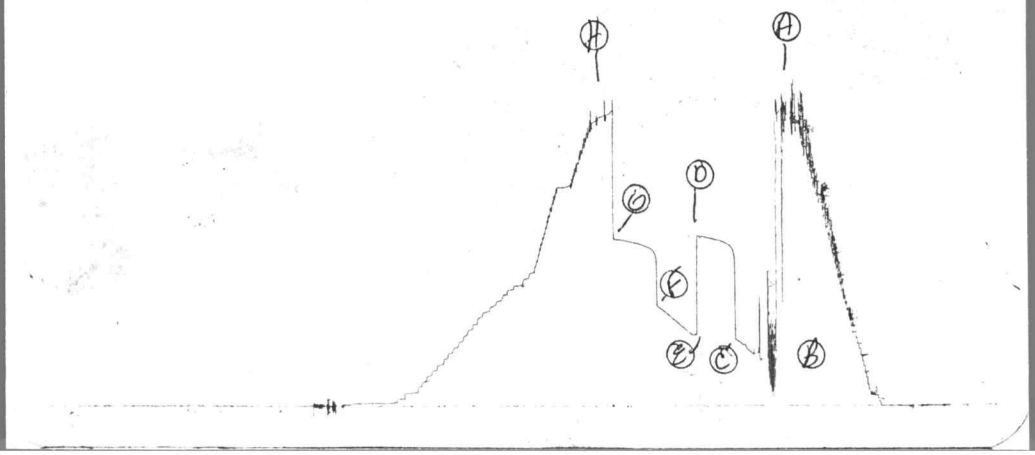
6234



Company Petroleum Energy, Inc. Lease & Well No. Wiggins #1

Elevation ----- Formation Arbuckle Effective Pay - Ft. Ticket No. 12280

Date 8/ 12/81 Sec. 10 Twp. 19S Range 9W County Rice State Kansas

Test Approved by Jim Musgrove Western Representative Dan Delaney-Jim Schulz

Formation Test No. 4 Interval Tested from 3212 ft. to 3218 ft. Total Depth 3218 ft.

Packer Depth 3207 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 3212 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3200 ft. Recorder Number 6234 Cap. 4500

Bottom Recorder Depth (Outside) 3215 ft. Recorder Number 6077 Cap. 4700

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

Drilling Contractor Duke Drilling Rig #3 Drill Collar Length 120 I. D. 2.2 in.

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

Weight Water Loss - cc. Drill Pipe Length 3066 I. D. 3.8 in.

Chlorides 73,000 P.P.M. Test Tool Length 26 ft. Tool Size 4½ in.

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

Did Well Flow? NO Reversed Out NO Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4½XH in.

Blow: Initial flow period fair blow building to strong blow decreasing to a fair blow. Fair blow on final flow period.

Recovered 190 ft. of muddy gassy oil (1% water;2% mud;97% oil) 300 Gas in pipe

Recovered 300 ft. of oil cut muddy water (14% oil;10% mud;76% water)

Recovered 600 ft. of oil cut water (8% oil;92% water)

Recovered 300 ft. of oil cut water (3% oil97% water)

Recovered 720 ft. of water

Remarks: Geologist wanted forty-five minutes initial flow; rig broke down and we could not turn tool to shut-in.

Chlorides 45,000 ppm

Time Set Packer(s) 11:35 ~~A.M.~~ P.M. Time Started Off Bottom 4:10 A.M. ~~P.M.~~ Maximum Temperature 114°

Initial Hydrostatic Pressure			(A)	1667	P.S.I.	
Initial Flow Period	Minutes	180	(B)	110	P.S.I. to (C)	953 P.S.I.
Initial Closed In Period	Minutes	42	(D)	1009	P.S.I.	
Final Flow Period	Minutes	5	(E)	977	P.S.I. to (F)	977 P.S.I.
Final Closed In Period	Minutes	45	(G)	1034	P.S.I.	
Final Hydrostatic Pressure			(H)	1656	P.S.I.	

WTC-1

WESTERN TESTING CO., INC.
Pressure Data

Date 8/12/81 Test Ticket No. 12280

Recorder No. 6234 Capacity 4500 Location 3200 Ft.

Clock No. - Elevation ---- Well Temperature 114 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1667 P.S.I.		Open Tool	11:35P M	
B	First Initial Flow Pressure	110 P.S.I.		First Flow Pressure	180 Mins.	180 Mins.
C	First Final Flow Pressure	953 P.S.I.		Initial Closed-in Pressure	45 Mins.	42 Mins.
D	Initial Closed-in Pressure	1009 P.S.I.		Second Flow Pressure	5 Mins.	5 Mins.
E	Second Initial Flow Pressure	977 P.S.I.		Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	977 P.S.I.				
G	Final Closed-in Pressure	1034 P.S.I.				
H	Final Hydrostatic Mud	1656 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 36 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	0	110
P 2	5	151
P 3	10	218
P 4	15	278
P 5	20	342
P 6	25	399
P 7	30	447
P 8	35	507
P 9	40	538
P10	45	574
P11	50	606
P12	55	640
P13	60	664
P14	65	691
P15	70	718
P16	75	743
P17	80	759
P18	85	775
P19	90	791
P20	95	809
WTC100		822

Initial Shut-In
Breakdown: 14 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	953
3	971
6	977
9	983
12	986
15	991
18	993
21	995
24	997
27	999
30	1002
33	1004
36	1006
39	1008
42	1009

Second Flow Pressure
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.
0	977
5	977

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

Point Minutes	Press.
0	977
3	1005
6	1011
9	1018
12	1020
15	1023
18	1024
21	1025
24	1026
27	1026
30	1027
33	1029
36	1031
39	1032
42	1033
45	1034

continued next page

WESTERN TESTING CO., INC.

Pressure Data

Date 8/12/81 Test Ticket No. 12280

Recorder No. 6234 Capacity 4500 Location 3200 Ft.

Clock No. - Elevation ---- Well Temperature 114 °F

Point		Pressure			Time Given	Time Computed
A	Initial Hydrostatic Mud	1667 P.S.I.		Open Tool	11:35P M	
B	First Initial Flow Pressure	110 P.S.I.		First Flow Pressure	180 Mins.	180 Mins.
C	First Final Flow Pressure	953 P.S.I.		Initial Closed-in Pressure	45 Mins.	42 Mins.
D	Initial Closed-in Pressure	1009 P.S.I.		Second Flow Pressure	5 Mins.	5 Mins.
E	Second Initial Flow Pressure	977 P.S.I.		Final Closed-in Pressure	45 Mins.	45 Mins.
F	Second Final Flow Pressure	977 P.S.I.				
G	Final Closed-in Pressure	1034 P.S.I.				
H	Final Hydrostatic Mud	1656 P.S.I.				

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 36 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point	Mins.	Press.
P 1	105	838
P 2	110	851
P 3	115	860
P 4	120	869
P 5	125	878
P 6	130	890
P 7	135	899
P 8	140	905
P 9	145	912
P10	150	921
P11	155	930
P12	160	935
P13	165	941
P14	170	946
P15	175	950
P16	180	953
P17		
P18		
P19		
P20		

Initial Shut-In
Breakdown: 14 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Minutes	Press.

Second Flow Pressure
Breakdown: 1 Inc.
of 5 mins. and a
final inc. of 0 Min.

Point Minutes	Press.

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

Point Minutes	Press.

IRT # 12280