

Company Gear Petroleum Company, Inc. Lease & Well No. #4 Weller Unit "B"
Elevation 2072 Kelly Bushing Formation Marmaton Effective Pay - Ft. Ticket No. 14950
Date 7/10/81 Sec. 18 Twp. 27S Range 15W County Pratt State Kansas
Test Approved by R M Stuckey Western Representative Rod Tritt

Formation Test No. 1 Interval Tested from 4403 ft. to 4455 ft. Total Depth 4455 ft.

Packer Depth 4398 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4403 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4407 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4410 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor Red Tiger Rig #1 Drill Collar Length - I. D. - in.

Mud Type Monpac Viscosity 48 Weight Pipe Length 1080 I. D. 2 1/2 in.

Weight 9.4 Water Loss 18.4 cc. Drill Pipe Length 3329 I. D. 3.8 in.

Chlorides 28,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.

Jars: Make No Serial Number - Anchor Length 52 (4 1/2 30) + (22 5 1/2 OD)

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 4 1/2 FH in.

Blow: Very weak on initial flow for 15 minutes then died. Very weak blow on final flow period
Died in 8 minutes - flushed tool.

Recovered 25 ft. of drilling mud

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Recovered - ft. of -

Remarks: -

Time Set Packer(s) 5:20 A.M. Time Started Off Bottom 7:50 A.M. Maximum Temperature 122

Initial Hydrostatic Pressure - (A) 2282 P.S.I.

Initial Flow Period 25 Minutes (B) 17 P.S.I. to (C) 17 P.S.I.

Initial Closed In Period 45 Minutes (D) 20 P.S.I.

Final Flow Period 30 Minutes (E) 18 P.S.I. to (F) 34 P.S.I.

Final Closed In Period 45 Minutes (G) 34 P.S.I.

Final Hydrostatic Pressure - (H) 2230 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 7/10/81

Recorder No. 2606

Capacity 4150

Test Ticket No. 14950

Location 4407 Ft.

Clock No. - Elevation 2072 Kelly Bushing

Well Temperature 122 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2282</u>	P.S.I.	<u>5:20P</u>	<u>M</u>
B First Initial Flow Pressure	<u>17</u>	P.S.I.	<u>30</u>	<u>25</u>
C First Final Flow Pressure	<u>17</u>	P.S.I.	<u>45</u>	<u>45</u>
D Initial Closed-in Pressure	<u>20</u>	P.S.I.	<u>30</u>	<u>30</u>
E Second Initial Flow Pressure	<u>18</u>	P.S.I.	<u>45</u>	<u>45</u>
F Second Final Flow Pressure	<u>34</u>	P.S.I.		
G Final Closed-in Pressure	<u>34</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2230</u>	P.S.I.		

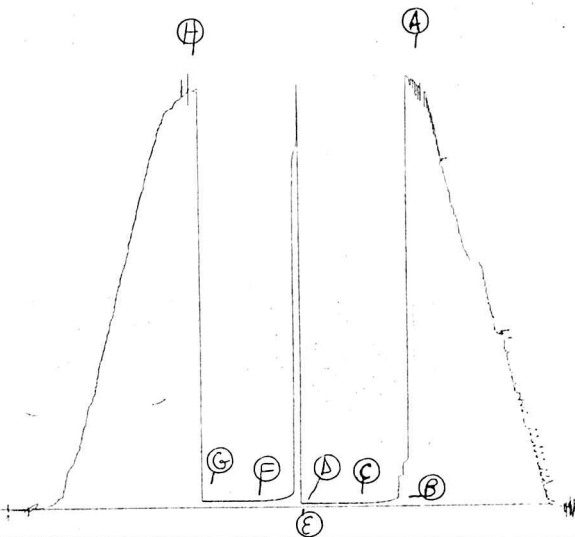
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>5</u> Inc.		Breakdown: <u>15</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>17</u>	<u>0</u>	<u>17</u>	<u>0</u>	<u>18</u>	<u>0</u>	<u>34</u>
P 2 <u>5</u>	<u>17</u>	<u>3</u>	<u>17</u>	<u>5</u>	<u>Flushed Tool</u>	<u>3</u>	<u>34</u>
P 3 <u>10</u>	<u>17</u>	<u>6</u>	<u>17</u>	<u>10</u>	<u>54</u>	<u>6</u>	<u>34</u>
P 4 <u>15</u>	<u>17</u>	<u>9</u>	<u>17</u>	<u>15</u>	<u>42</u>	<u>9</u>	<u>34</u>
P 5 <u>20</u>	<u>17</u>	<u>12</u>	<u>17</u>	<u>20</u>	<u>36</u>	<u>12</u>	<u>34</u>
P 6 <u>25</u>	<u>17</u>	<u>15</u>	<u>18</u>	<u>25</u>	<u>36</u>	<u>15</u>	<u>34</u>
P 7 _____		<u>18</u>	<u>18</u>	<u>30</u>	<u>34</u>	<u>18</u>	<u>34</u>
P 8 _____		<u>21</u>	<u>18</u>			<u>21</u>	<u>34</u>
P 9 _____		<u>24</u>	<u>18</u>			<u>24</u>	<u>34</u>
P10 _____		<u>27</u>	<u>18</u>			<u>27</u>	<u>34</u>
P11 _____		<u>30</u>	<u>18</u>			<u>30</u>	<u>34</u>
P12 _____		<u>33</u>	<u>19</u>			<u>33</u>	<u>34</u>
P13 _____		<u>36</u>	<u>19</u>			<u>36</u>	<u>34</u>
P14 _____		<u>39</u>	<u>19</u>			<u>39</u>	<u>34</u>
P15 _____		<u>42</u>	<u>19</u>			<u>42</u>	<u>34</u>
P16 _____		<u>45</u>	<u>20</u>			<u>45</u>	<u>34</u>
P17 _____							
P18 _____							
P19 _____							
P20 _____							

2606

DST #1

TKT # 14950
I



Company Gear Petroleum Company, Inc. Lease & Well No. #4 Weller Unit "B"
Elevation 2072 Kelly Bushing Mississippi Formation Effective Pay - Ft. Ticket No. 14826
Date 7/11/81 Sec. 18 Twp. 27S Range 15W County Pratt State Kansas
Test Approved by R M Stuckey Western Representative Rod Tritt

Formation Test No. 2 Interval Tested from 4483 ft. to 4551 ft. Total Depth 4551 ft.

Packer Depth 4478 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4483 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4487 ft. Recorder Number 2606 Cap. 4150

Bottom Recorder Depth (Outside) 4490 ft. Recorder Number 4332 Cap. 4200

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

Drilling Contractor Red Tiger Rig #1 Drill Collar Length - I. D. - in.

Mud Type Monpac Viscosity 61 Weight Pipe Length 1080 I. D. 2 1/2 in.

Weight 9.5 Water Loss 14.8 cc. Drill Pipe Length 3411 I. D. 3.8 in.

Chlorides 28,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.

Jars: Make No Serial Number - Anchor Length 38' + 30 ft. Size 5 1/2 OD + 6 DG

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 1/2 FH in.

Blow: Weak blow decreasing to no blow in 25 minutes on initial flow period. Very weak blow for 15 minutes on final flow period.

Recovered 30 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:45 A.M. P.M. Time Started Off Bottom 6:45 A.M. P.M. Maximum Temperature 125

Initial Hydrostatic Pressure (A) 2292 P.S.I.

Initial Flow Period Minutes 30 (B) 36 P.S.I. to (C) 36 P.S.I.

Initial Closed In Period Minutes 42 (D) 86 P.S.I.

Final Flow Period Minutes 30 (E) 36 P.S.I. to (F) 36 P.S.I.

Final Closed In Period Minutes 45 (G) 73 P.S.I.

Final Hydrostatic Pressure (H) 2219 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 7/11/81 Recorder No. 2606 Capacity 4150 Test Ticket No. 14826
 Clock No. - Elevation 2072 Kelly Bushing Location 4487 Ft. 127 °F
 Well Temperature

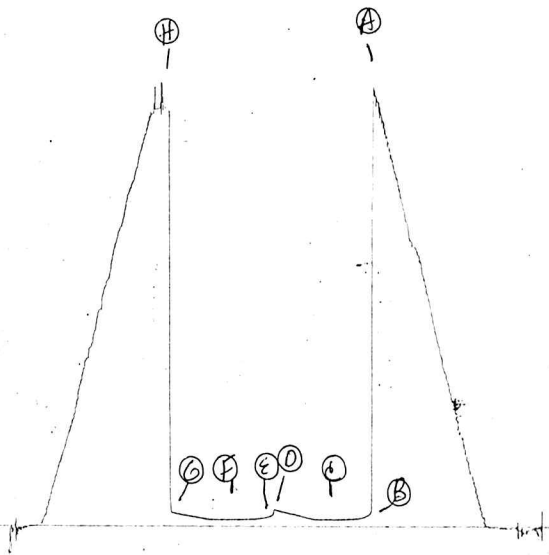
Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	2292 P.S.I.	8:30P	M
B First Initial Flow Pressure	36 P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	36 P.S.I.	45 Mins.	42 Mins.
D Initial Closed-in Pressure	86 P.S.I.	30 Mins.	30 Mins.
E Second Initial Flow Pressure	36 P.S.I.	45 Mins.	45 Mins.
F Second Final Flow Pressure	36 P.S.I.		
G Final Closed-in Pressure	73 P.S.I.		
H Final Hydrostatic Mud	2219 P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>14</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>15</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	36	0	36	0	36	0	36
P 2 <u>5</u>	36	3	36	5	36	3	36
P 3 <u>10</u>	36	6	36	10	36	6	36
P 4 <u>15</u>	36	9	36	15	36	9	36
P 5 <u>20</u>	36	12	36	20	36	12	36
P 6 <u>25</u>	36	15	40	25	36	15	36
P 7 <u>30</u>	36	18	44	30	36	18	37
P 8		21	49			21	41
P 9		24	55			24	45
P10		27	60			27	49
P11		30	64			30	52
P12		33	69			33	55
P13		36	75			36	59
P14		39	79			39	64
P15		42	86			42	69
P16						45	73
P17							
P18							
P19							
P20							

2606 DST #2

TKT # 14826
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Company Gear Petroleum Company, Inc. Lease & Well No. #4 Weller Unit 'B'
Elevation 2072 Kelly Bushing Formation Kinderhook Sand Effective Pay - Ft. Ticket No. 14827
Date 7/12/81 Sec. 18 Twp. 27S Range 15W County Pratt State Kansas
Test Approved by R M Stuckey Western Representative Rod Tritt
Formation Test No. 3 Interval Tested from 4546 ft. to 4610 ft. Total Depth 4610 ft.
Packer Depth 4541 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 4546 ft. Size 6 3/4 in. Packer Depth -- ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 4550 ft. Recorder Number 2606 Cap. 4150
Bottom Recorder Depth (Outside) 4553 ft. Recorder Number 4332 Cap. 4200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Red Tiger Rig #1 Drill Collar Length - I. D. - in.
Mud Type Monpac Viscosity 46 Weight Pipe Length 1080 I. D. 2 1/2 in.
Weight 9.7 Water Loss 24.6 cc. Drill Pipe Length 3476 I. D. 3.8 in.
Chlorides 35,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 OD in.
Jars: Make No Serial Number - Anchor Length 32 + 32-64' ft. Size 5 1/2 OD - 4 1/2 OD 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 1/2 FH in.

Blow: Weak blow decreasing to no blow in 25 minutes on initial flow period. Very weak blow for 15 minutes on final flow period.

Recovered 30 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:45 ~~AM~~ P.M. Time Started Off Bottom 6:45 ~~AM~~ P.M. Maximum Temperature 125
Initial Hydrostatic Pressure 2397 P.S.I.
Initial Flow Period 30 Minutes (B) 48 P.S.I. to (C) 48 P.S.I.
Initial Closed In Period 30 Minutes (D) 48 P.S.I.
Final Flow Period 30 Minutes (E) 48 P.S.I. to (F) 48 P.S.I.
Final Closed In Period 24 Minutes (G) 48 P.S.I.
Final Hydrostatic Pressure 2323 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 7/12/81 Recorder No. 2606 Capacity 4150 Test Ticket No. 14827
 Clock No. - Elevation 2072 Kelly Bushing Location 4550 Ft. Well Temperature 125 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2397</u> P.S.I.	Open Tool	<u>4:45P</u> M	
B First Initial Flow Pressure	<u>48</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>48</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>48</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>48</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>24</u> Mins.
F Second Final Flow Pressure	<u>48</u> P.S.I.			
G Final Closed-in Pressure	<u>48</u> P.S.I.			
H Final Hydrostatic Mud	<u>2323</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>10</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>8</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>48</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>48</u>	<u>0</u>	<u>48</u>
P 2 <u>5</u>	<u>48</u>	<u>3</u>	<u>48</u>	<u>5</u>	<u>48</u>	<u>3</u>	<u>48</u>
P 3 <u>10</u>	<u>48</u>	<u>6</u>	<u>48</u>	<u>10</u>	<u>48</u>	<u>6</u>	<u>48</u>
P 4 <u>15</u>	<u>48</u>	<u>9</u>	<u>48</u>	<u>15</u>	<u>48</u>	<u>9</u>	<u>48</u>
P 5 <u>20</u>	<u>48</u>	<u>12</u>	<u>48</u>	<u>20</u>	<u>48</u>	<u>12</u>	<u>48</u>
P 6 <u>25</u>	<u>48</u>	<u>15</u>	<u>48</u>	<u>25</u>	<u>48</u>	<u>15</u>	<u>48</u>
P 7 <u>30</u>	<u>48</u>	<u>18</u>	<u>48</u>	<u>30</u>	<u>48</u>	<u>18</u>	<u>48</u>
P 8 _____		<u>21</u>	<u>48</u>			<u>21</u>	<u>48</u>
P 9 _____		<u>24</u>	<u>48</u>			<u>24</u>	<u>48</u>
P10 _____		<u>27</u>	<u>48</u>				
P11 _____		<u>30</u>	<u>48</u>				
P12 _____							
P13 _____							
P14 _____							
P15 _____							
P16 _____							
P17 _____							
P18 _____							
P19 _____							
P20 _____							

2606 DST #3

TK+ # 14827
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