

Company A. Scott Ritchie Lease & Well No. Schneweis #4
 Elevation 1879 Kelly Bushing Formation Lansing Effective Pay -- Ft. Ticket No. 4297
 Date 1/8/80 Sec. 33 Twp. 16S Range 12W County Barton State Kansas
 Test Approved by Kris D. Kennedy Western Representative Roger Lisenby

Formation Test No. 1 Interval Tested from 3067 ft. to 3095 ft. Total Depth 3095 ft.
 Packer Depth 3067 ft. Size 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3086 ft. Recorder Number 969 Cap. 4200
 Bottom Recorder Depth (Outside) 3089 ft. Recorder Number 1051 Cap. 4250
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
 Drilling Contractor Murfin Drilling Rig #8 Drill Collar Length 231 I. D. 2 1/4 in.
 Mud Type starch Viscosity 45 Weight Pipe Length -- I. D. -- in.
 Weight 10.0 Water Loss 12.0 cc. Drill Pipe Length 2820 I. D. 3.8 in.
 Chlorides 71,000 P.P.M. Test Tool Length 16 ft. Tool Size 4 3/4 in.
 Jars: Make -- Serial Number -- Anchor Length 28 ft. Size 5 1/2 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: Fair blow throughout first opening. Fair blow, decreasing to weak blow, died in thirty-eight minutes on second opening.

Recovered 40 ft. of mud with a few oil spots.
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks:

Time Set Packer(s) 12:16 ~~A.M.~~ P.M. Time Started Off Bottom 2:48 ~~A.M.~~ P.M. Maximum Temperature 100°
 Initial Hydrostatic Pressure (A) 1740 P.S.I.
 Initial Flow Period Minutes 30 (B) 72 P.S.I. to (C) 47 P.S.I.
 Initial Closed In Period Minutes 30 (D) 76 P.S.I.
 Final Flow Period Minutes 45 (E) 55 P.S.I. to (F) 49 P.S.I.
 Final Closed In Period Minutes 51 (G) 72 P.S.I.
 Final Hydrostatic Pressure (H) 1688 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 1/8/80 Test Ticket No. 4297
 Recorder No. 969 Capacity 4200 Location 3086 Ft.
 Clock No. _____ Elevation _____ Well Temperature _____ °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|--------------------|----------------------------|-----------------|-----------------|
| A Initial Hydrostatic Mud | <u>1740</u> P.S.I. | Open Tool | <u>12:16P</u> M | |
| B First Initial Flow Pressure | <u>72</u> P.S.I. | First Flow Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| C First Final Flow Pressure | <u>47</u> P.S.I. | Initial Closed-in Pressure | <u>30</u> Mins. | <u>30</u> Mins. |
| D Initial Closed-in Pressure | <u>76</u> P.S.I. | Second Flow Pressure | <u>45</u> Mins. | <u>45</u> Mins. |
| E Second Initial Flow Pressure | <u>55</u> P.S.I. | Final Closed-in Pressure | <u>45</u> Mins. | <u>51</u> Mins. |
| F Second Final Flow Pressure | <u>49</u> P.S.I. | | | |
| G Final Closed-in Pressure | <u>72</u> P.S.I. | | | |
| H Final Hydrostatic Mud | <u>1688</u> 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: 9 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 17 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 <u>0</u> | <u>72</u> | <u>0</u> | <u>47</u> | <u>0</u> | <u>55</u> | <u>0</u> | <u>49</u> |
| P 2 <u>5</u> | <u>57</u> | <u>3</u> | <u>49</u> | <u>5</u> | <u>55</u> | <u>3</u> | <u>49</u> |
| P 3 <u>10</u> | <u>51</u> | <u>6</u> | <u>50</u> | <u>10</u> | <u>49</u> | <u>6</u> | <u>51</u> |
| P 4 <u>15</u> | <u>48</u> | <u>9</u> | <u>53</u> | <u>15</u> | <u>49</u> | <u>9</u> | <u>53</u> |
| P 5 <u>20</u> | <u>47</u> | <u>12</u> | <u>55</u> | <u>20</u> | <u>49</u> | <u>12</u> | <u>54</u> |
| P 6 <u>25</u> | <u>47</u> | <u>15</u> | <u>59</u> | <u>25</u> | <u>49</u> | <u>15</u> | <u>56</u> |
| P 7 <u>30</u> | <u>47</u> | <u>18</u> | <u>63</u> | <u>30</u> | <u>49</u> | <u>18</u> | <u>57</u> |
| P 8 _____ | | <u>21</u> | <u>66</u> | <u>35</u> | <u>49</u> | <u>21</u> | <u>58</u> |
| P 9 _____ | | <u>24</u> | <u>69</u> | <u>40</u> | <u>49</u> | <u>24</u> | <u>59</u> |
| P10 _____ | | <u>27</u> | <u>73</u> | <u>45</u> | <u>49</u> | <u>27</u> | <u>60</u> |
| P11 _____ | | <u>30</u> | <u>76</u> | | | <u>30</u> | <u>61</u> |
| P12 _____ | | | | | | <u>33</u> | <u>63</u> |
| P13 _____ | | | | | | <u>36</u> | <u>65</u> |
| P14 _____ | | | | | | <u>39</u> | <u>67</u> |
| P15 _____ | | | | | | <u>42</u> | <u>69</u> |
| P16 _____ | | | | | | <u>45</u> | <u>71</u> |
| P17 _____ | | | | | | <u>48</u> | <u>72</u> |
| P18 _____ | | | | | | <u>51</u> | <u>72</u> |
| P19 _____ | | | | | | | |
| P20 _____ | | | | | | | |

TKt # 4297
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H

A

G

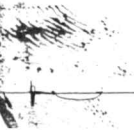
F

E

D

C

B



Company A. Scott Ritchie Lease & Well No. Schneweis #4
 Elevation 1879 Kelly Bushing Arbuckle Formation Effective Pay -- Ft. Ticket No. 4298
 Date 1/9/80 Sec. 33 Twp. 16S Range 12W County Barton State Kansas
 Test Approved by Kris D. Kennedy Western Representative Roger Lisenby

Formation Test No. 2 Interval Tested from 3314 ft. to 3331 ft. Total Depth 3331 ft.
 Packer Depth 3309 ft. Size 6 3/4 Packer Depth 3314 ft. Size 6 3/4
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3323 ft. Recorder Number 969 Cap. 4200
 Bottom Recorder Depth (Outside) 3326 ft. Recorder Number 1051 Cap. 4250
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Murfin Drilling Rig #8 Drill Collar Length 231 I. D. 2 1/4 in.
 Mud Type starch Viscosity 49 Weight Pipe Length -- I. D. -- in.
 Weight 10.0 Water Loss 12.8 cc. Drill Pipe Length 3052 I. D. 3.8 in.
 Chlorides 73,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.
 Jars: Make -- Serial Number -- Anchor Length 27 ft. Size 5 1/2 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: Fair blow (slowly increasing) (First opening)
Fair blow-slowly increasing - second opening.

Recovered 127 ft. of oil cut mud 35% mud; 65% oil
 Recovered 22 ft. of clean gassy oil 40 gravity in drill pipe
 Recovered 231 ft. of clean gassy oil in drill collars
 Recovered 380 ft. of Total Fluid (No water)

Remarks: (Ten minutes breaking out head to start off bottom)

Time Set Packer(s) 5:20 ~~AM~~ PM Time Started Off Bottom 8:00 ~~AM~~ PM Maximum Temperature 112°
 Initial Hydrostatic Pressure (A) 1826 P.S.I.
 Initial Flow Period Minutes 30 (B) 73 P.S.I. to (C) 125 P.S.I.
 Initial Closed In Period Minutes 30 (D) 1120 P.S.I.
 Final Flow Period Minutes 45 (E) 162 P.S.I. to (F) 176 P.S.I.
 Final Closed In Period Minutes 60 (G) 1122 P.S.I.
 Final Hydrostatic Pressure (H) 1759 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

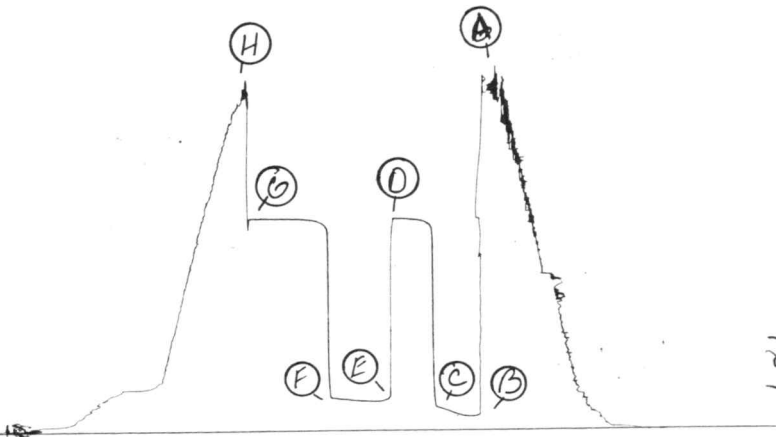
Date 1/9/80 Test Ticket No. 4298
 Recorder No. 969 Capacity 4200 Location 3323 Ft.
 Clock No. ----- Elevation 1879 Kelly Bushing Well Temperature 112 °F

| Point | Pressure | | | Time Given | Time Computed |
|--------------------------------|----------|--------|----------------------------|------------|----------------|
| | | P.S.I. | | | |
| A Initial Hydrostatic Mud | 1826 | P.S.I. | Open Tool | 5:20P | M |
| B First Initial Flow Pressure | 73 | P.S.I. | First Flow Pressure | 30 | Mins. 30 Mins. |
| C First Final Flow Pressure | 125 | P.S.I. | Initial Closed-in Pressure | 30 | Mins. 30 Mins. |
| D Initial Closed-in Pressure | 1120 | P.S.I. | Second Flow Pressure | 45 | Mins. 45 Mins. |
| E Second Initial Flow Pressure | 162 | P.S.I. | Final Closed-in Pressure | 45 | Mins. 60 Mins. |
| F Second Final Flow Pressure | 176 | P.S.I. | | | |
| G Final Closed-in Pressure | 1122 | P.S.I. | | | |
| H Final Hydrostatic Mud | 1759 | P.S.I. | | | |

PRESSURE BREAKDOWN

| Point Mins. | First Flow Pressure | | Initial Shut-In | | Second Flow Pressure | | Final Shut-In | |
|-------------|---------------------|---------------|-----------------|---------------|----------------------|---------------|-----------------|-------------|
| | Breakdown: | Inc. | Breakdown: | Inc. | Breakdown: | Inc. | Breakdown: | Inc. |
| | 6 | | 10 | | 9 | | 60 | |
| | of 5 | mins. and a | of 3 | mins. and a | of 5 | mins. and a | of 3 | mins. and a |
| | final inc. of 0 | Min. | final inc. of 0 | Min. | final inc. of 0 | Min. | final inc. of 0 | Min. |
| Point Mins. | Press. | Point Minutes | Press. | Point Minutes | Press. | Point Minutes | Press. | |
| P 1 0 | 73 | 0 | 125 | 0 | 162 | 0 | 176 | |
| P 2 5 | 73 | 3 | 482 | 5 | 162 | 3 | 533 | |
| P 3 10 | 75 | 6 | 1092 | 10 | 154 | 6 | 1084 | |
| P 4 15 | 84 | 9 | 1105 | 15 | 156 | 9 | 1099 | |
| P 5 20 | 96 | 12 | 1111 | 20 | 158 | 12 | 1109 | |
| P 6 25 | 111 | 15 | 1115 | 25 | 161 | 15 | 1115 | |
| P 7 30 | 125 | 18 | 1117 | 30 | 164 | 18 | 1117 | |
| P 8 | | 21 | 1119 | 35 | 168 | 21 | 1118 | |
| P 9 | | 24 | 1121 | 40 | 172 | 24 | 1119 | |
| P10 | | 27 | 1120 | 45 | 176 | 27 | 1120 | |
| P11 | | 30 | 1120 | | | 30 | 1121 | |
| P12 | | | | | | 33 | 1121 | |
| P13 | | | | | | 36 | 1122 | |
| P14 | | | | | | 39 | 1122 | |
| P15 | | | | | | 42 | 1122 | |
| P16 | | | | | | 45 | 1122 | |
| P17 | | | | | | 48 | 1122 | |
| P18 | | | | | | 51 | 1122 | |
| P19 | | | | | | 54 | 1122 | |
| P20 | | | | | | 57 | 1122 | |
| | | | | | | 60 | 1122 | |

TRK # 4298
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6.96

Company A. Scott Ritchie Lease & Well No. Schneweis #4
 Elevation 1879 Kelly Bushing Formation Kansas City Effective Pay --- Ft. Ticket No 4299
 Date 1/10/80 Sec. 33 Twp. 16S Range 12W County Barton State Kansas
 Test Approved by Kris D. Kennedy Western Representative Roger Lisenby

Formation Test No. 3 Interval Tested from 3194 ft. to 3312 ft. Total Depth 3331 ft.
 Packer Depth 3194 ft. Size 6 3/4 in. Packer Depth 3312 ft. Size 6 3/4 in.
 Packer Depth - ft. Size - in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3197 ft. Recorder Number 969 Cap. 4200
 Bottom Recorder Depth (Outside) 3200 ft. Recorder Number 1051 Cap. 4250
 Below Straddle Recorder Depth 3326 ft. Recorder Number 78B Cap. --

Drilling Contractor Murfin Drilling Rig #8 Drill Collar Length 231 I. D. 2 1/4 in.
 Mud Type starch Viscosity 49 Weight Pipe Length -- I. D. -- in.
 Weight 10.0 Water Loss 12.8 cc. Drill Pipe Length 2942 I. D. 3.8 in.
 Chlorides 73,000 P.P.M. Test Tool Length 21 ft. Tool Size 4 3/4 in.
 Jars: Make -- Serial Number -- Anchor Length 118 ft. Size 5 1/2 with 3 jts. DP
 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 steady blow first opening. Weak steady blow second opening.

Recovered 150 ft. of gas in drill collars
 Recovered 20 ft. of oil and gas cut mud 75% mud; 25% oil
 Recovered 60 ft. of oil and gas cut mud 85% mud; 15% oil
 Recovered ft. of
 Recovered ft. of NO WATER

Remarks: Motors died on second flow period.

Time Set Packer(s) 8:24 ~~PM~~ ^{AM} Time Started Off Bottom 12:14 ~~PM~~ ^{AM} Maximum Temperature 104°
 Initial Hydrostatic Pressure (A) 1768 P.S.I.
 Initial Flow Period Minutes 30 (B) 51 P.S.I. to (C) 57 P.S.I.
 Initial Closed In Period Minutes 30 (D) 197 P.S.I.
 Final Flow Period Minutes 57 (E) 76 P.S.I. to (F) 74 P.S.I.
 Final Closed In Period Minutes 57 (G) 254 P.S.I.
 Final Hydrostatic Pressure (H) 1757 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 1/10/80 Test Ticket No. 4299
 Recorder No. 969 Capacity 4200 Location 3197 Ft.
 Clock No. ----- Elevation 1879 Kelly Bushing Well Temperature 104 °F

| Point | Pressure | | Time Given | Time Computed |
|--------------------------------|----------|--------|------------|----------------|
| A Initial Hydrostatic Mud | 1768 | P.S.I. | 8:24A | M |
| B First Initial Flow Pressure | 51 | P.S.I. | 30 | Mins. 30 Mins. |
| C First Final Flow Pressure | 57 | P.S.I. | 30 | Mins. 30 Mins. |
| D Initial Closed-in Pressure | 197 | P.S.I. | 57 | Mins. 57 Mins. |
| E Second Initial Flow Pressure | 76 | P.S.I. | 57 | Mins. 57 Mins. |
| F Second Final Flow Pressure | 74 | P.S.I. | | |
| G Final Closed-in Pressure | 254 | P.S.I. | | |
| H Final Hydrostatic Mud | 1757 | P.S.I. | | |

PRESSURE BREAKDOWN

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

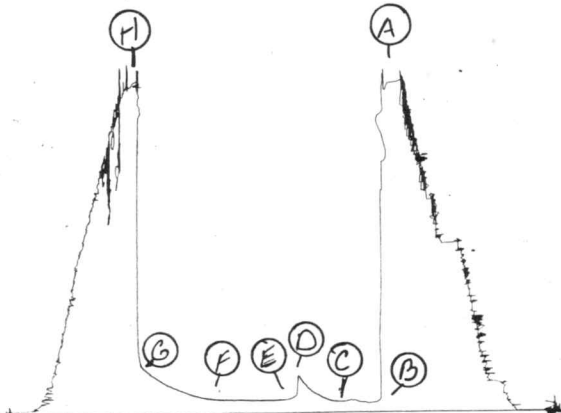
Initial Shut-In
 Breakdown: 10 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 10 Inc.
 of 5 mins. and a
 final inc. of 2 Min.

Final Shut-In
 Breakdown: 19 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 | 51 | 0 | 57 | 0 | 76 | 0 | 74 |
| P 2 5 | 51 | 3 | 59 | 5 | 76 | 3 | 75 |
| P 3 10 | 49 | 6 | 63 | 10 | 69 | 6 | 78 |
| P 4 15 | 55 | 9 | 72 | 15 | 67 | 9 | 81 |
| P 5 20 | 64 | 12 | 81 | 20 | 67 | 12 | 84 |
| P 6 25 | 59 | 15 | 92 | 25 | 67 | 15 | 90 |
| P 7 30 | 57 | 18 | 104 | 30 | 67 | 18 | 96 |
| P 8 | | 21 | 123 | 35 | 70 | 21 | 102 |
| P 9 | | 24 | 143 | 40 | 70 | 24 | 112 |
| P10 | | 27 | 166 | 45 | 70 | 27 | 119 |
| P11 | | 30 | 197 | 50 | 72 | 30 | 129 |
| P12 | | | | 55 | 73 | 33 | 138 |
| P13 | | | | 57 | 74 | 36 | 148 |
| P14 | | | | | | 39 | 160 |
| P15 | | | | | | 42 | 172 |
| P16 | | | | | | 45 | 185 |
| P17 | | | | | | 48 | 201 |
| P18 | | | | | | 51 | 217 |
| P19 | | | | | | 54 | 234 |
| P20 | | | | | | 57 | 254 |

TKt# 4299
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696

105

TKT # 4299
Below Straddle

