

Company Terry Smith Lease & Well No. Schartz #1
 Elevation --- Formation Lansing Effective Pay - Ft. Ticket No. 14218
 Date 12/1/81 Sec. 29 Twp. 19S Range 11W County Barton State Kansas
 Test Approved by Thomas R. Satter Western Representative Richard Howell

Formation Test No. 1 Interval Tested from 3114 ft. to 3140 ft. Total Depth 3140 ft.
 Packer Depth 3109 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3114 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -
 Top Recorder Depth (Inside) 3117 ft. Recorder Number 13402 Cap. 4025
 Bottom Recorder Depth (Outside) 3137 ft. Recorder Number 13267 Cap. 4050
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Emphasis Drlg. Rig #4 Drill Collar Length 480 I. D. 2.2 in.
 Mud Type starch Viscosity 47 Weight Pipe Length - I. D. - in.
 Weight 9.8 Water Loss 12.0 cc. Drill Pipe Length 2162 I. D. 3.3 in.
 Chlorides 68,000 P.P.M. Test Tool Length 22 ft. Tool Size 5 1/2 in.
 Jars: Make - Serial Number - Anchor Length 26 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 in.

Blow: Initial flow fair decreasing to weak. Final flow weak; died in fifteen minutes.

Recovered 80 ft. of mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: Flushed tool twice in final flow; also hit bridge at 2950'; slid tool 12-13' at initial opening.

Time Set	Packer(s)	A.M. P.M.	Time Started Off Bottom	A.M. P.M.	Maximum Temperature
	<u>5:20</u>		<u>8:05</u>		<u>112°</u>
Initial Hydrostatic Pressure				<u>1594</u>	P.S.I.
Initial Flow Period			Minutes <u>30</u>	<u>71</u>	P.S.I. to (C) <u>53</u> P.S.I.
Initial Closed In Period			Minutes <u>45</u>	<u>976</u>	P.S.I.
Final Flow Period			Minutes <u>30</u>	<u>56</u>	P.S.I. to (F) <u>58</u> P.S.I.
Final Closed In Period			Minutes <u>60</u>	<u>964</u>	P.S.I.
Final Hydrostatic Pressure				<u>1574</u>	P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/1/81

Test Ticket No. 14218

Recorder No. 13402

Capacity 4025

Location 3117 Ft.

Clock No. -

Elevation -

Well Temperature 112 °F

Point	Pressure			Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1594</u>	P.S.I.	Open Tool	<u>5:20P</u>	<u>M</u>
B First Initial Flow Pressure	<u>71</u>	P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>53</u>	P.S.I.	Initial Closed-in Pressure	<u>45</u> Mins.	<u>45</u> Mins.
D Initial Closed-in Pressure	<u>976</u>	P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>56</u>	P.S.I.	Final Closed-in Pressure	<u>60</u> Mins.	<u>60</u> Mins.
F Second Final Flow Pressure	<u>58</u>	P.S.I.			
G Final Closed-in Pressure	<u>964</u>	P.S.I.			
H Final Hydrostatic Mud	<u>1574</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: 15 Inc.
of 3 mins. and a
final inc. of 0 Min.

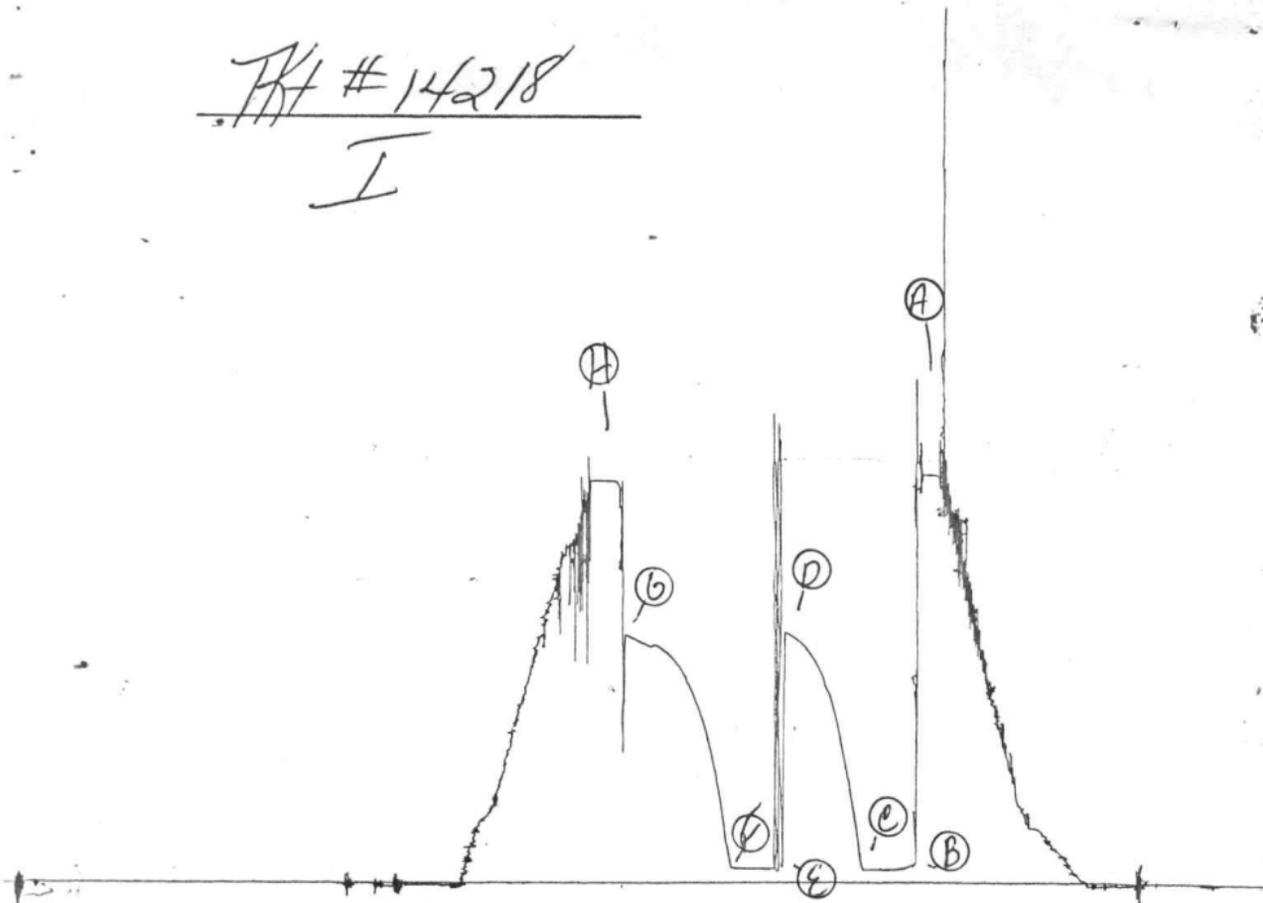
Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 20 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>71</u>	<u>0</u>	<u>53</u>	<u>0</u>	<u>56</u>	<u>0</u>	<u>58</u>
P 2 <u>5</u>	<u>61</u>	<u>3</u>	<u>163</u>	<u>5</u>	<u>2-Flushed Tools</u>	<u>3</u>	<u>165</u>
P 3 <u>10</u>	<u>56</u>	<u>6</u>	<u>289</u>	<u>10</u>	<u>58</u>	<u>6</u>	<u>309</u>
P 4 <u>15</u>	<u>53</u>	<u>9</u>	<u>400</u>	<u>15</u>	<u>58</u>	<u>9</u>	<u>425</u>
P 5 <u>20</u>	<u>53</u>	<u>12</u>	<u>498</u>	<u>20</u>	<u>58</u>	<u>12</u>	<u>520</u>
P 6 <u>25</u>	<u>53</u>	<u>15</u>	<u>607</u>	<u>25</u>	<u>58</u>	<u>15</u>	<u>597</u>
P 7 <u>30</u>	<u>53</u>	<u>18</u>	<u>690</u>	<u>30</u>	<u>58</u>	<u>18</u>	<u>664</u>
P 8 _____	_____	<u>21</u>	<u>751</u>	_____	_____	<u>21</u>	<u>721</u>
P 9 _____	_____	<u>24</u>	<u>808</u>	_____	_____	<u>24</u>	<u>767</u>
P10 _____	_____	<u>27</u>	<u>852</u>	_____	_____	<u>27</u>	<u>810</u>
P11 _____	_____	<u>30</u>	<u>885</u>	_____	_____	<u>30</u>	<u>844</u>
P12 _____	_____	<u>33</u>	<u>915</u>	_____	_____	<u>33</u>	<u>870</u>
P13 _____	_____	<u>36</u>	<u>935</u>	_____	_____	<u>36</u>	<u>893</u>
P14 _____	_____	<u>39</u>	<u>953</u>	_____	_____	<u>39</u>	<u>908</u>
P15 _____	_____	<u>42</u>	<u>966</u>	_____	_____	<u>42</u>	<u>923</u>
P16 _____	_____	<u>45</u>	<u>976</u>	_____	_____	<u>45</u>	<u>923</u>
P17 _____	_____	_____	_____	_____	_____	<u>48</u>	<u>926</u>
P18 _____	_____	_____	_____	_____	_____	<u>51</u>	<u>933</u>
P19 _____	_____	_____	_____	_____	_____	<u>54</u>	<u>943</u>
P20 _____	_____	_____	_____	_____	_____	<u>57</u>	<u>955</u>
						<u>60</u>	<u>964</u>

A 13402 DST H1

PKT # 14218
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Company Terry Smith Company Lease & Well No. #1 Schartz
 Elevation 1786 Ground Level Formation Arbuckle Effective Pay - Ft. Ticket No. 13552
 Date 12/3/81 Sec. 29 Twp. 19S Range 11W County Barton State Kansas
 Test Approved by Terry Smith Western Representative Dennis Wondra

Formation Test No. 2 Interval Tested from 3375 ft. to 3392 ft. Total Depth 3392 ft.
 Packer Depth 3370 ft. Size 6 5/8 in. Packer Depth 3375 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) 3382 ft. Recorder Number 3474 Cap. 3000
 Bottom Recorder Depth (Outside) 3385 ft. Recorder Number 1049 Cap. 4150
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Emphasis Drilling Rig #4 Drill Collar Length 480 I. D. 2.7 in.
 Mud Type Starch Viscosity 45 Weight Pipe Length - I. D. - in.
 Weight 10.0 Water Loss 11.2 cc. Drill Pipe Length 2871 I. D. 3.2 in.
 Chlorides 73,000 P.P.M. Test Tool Length 24 ft. Tool Size 5 1/2 OD in.
 Jars: Make - Serial Number - Anchor Length 17 ft. Size 5 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 4FH in.

Blow: Weak - died in 10 minutes on initial flow period. No blow on final flow period.

Recovered 120 ft. of drilling mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: lost some fluid past packers after tool opened.

Time Set Packer(s) 9:28 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 11:30 ~~P.M.~~ ^{A.M.} Maximum Temperature 109
 Initial Hydrostatic Pressure (A) 1808 P.S.I.
 Initial Flow Period Minutes 30 (B) 56 P.S.I. to (C) 83 P.S.I.
 Initial Closed In Period Minutes 30 (D) 827 36 P.S.I.
 Final Flow Period Minutes 30 (E) 86 P.S.I. to (F) 86 P.S.I.
 Final Closed In Period Minutes 33 (G) 715 P.S.I.
 Final Hydrostatic Pressure (H) 1808 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 12/3/81 Test Ticket No. 13552
 Recorder No. 3474 Capacity 3000 Location 3382 Ft.
 Clock No. - Elevation 1786 Ground Level Well Temperature 109 °F

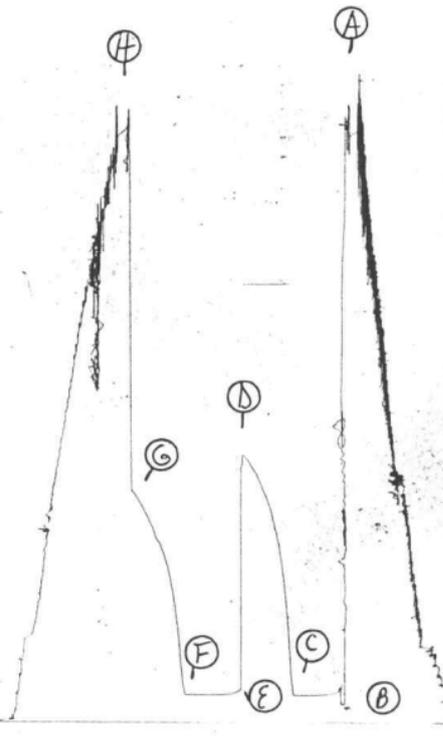
Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1808 P.S.I.	Open Tool	9:28A	M
B First Initial Flow Pressure	56 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
C First Final Flow Pressure	83 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
D Initial Closed-in Pressure	827 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
E Second Initial Flow Pressure	86 P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F Second Final Flow Pressure	86 P.S.I.			
G Final Closed-in Pressure	715 P.S.I.			
H Final Hydrostatic Mud	1808 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>11</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	0	0	83	0	86	0	86
P 2	5	3	288	5	86	3	102
P 3	10	6	450	10	86	6	280
P 4	15	9	561	15	86	9	398
P 5	20	12	630	20	86	12	481
P 6	25	15	686	25	86	15	533
P 7	30	18	727	30	86	18	565
P 8		21	764			21	605
P 9		24	790			24	638
P10		27	817			27	668
P11		30	827			30	695
P12						33	715
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							

TKT # 13552

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