



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No 8884

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 2271 Kelly B... Formation _____ Eff. Pay _____ Ft.

District WAKEMEY Date 11-22-80 Customer Order No. _____

COMPANY NAME A. Scott Ritchie

ADDRESS Suite 950 125 N. MARKET WICHITA KANS 67202

LEASE AND WELL NO. Montgomery "B" COUNTY GRAHAM STATE KANS Sec. 8 Twp 8S Rge 23W

Mail Invoice To Co. Name SAME Address _____ No. Copies Requested 5

Mail Charts To Co. Name SAME Address _____ No. Copies Requested 5

Formation Test No. #1 Interval Tested from 3577 ft. to 3614 ft. Total Depth 3614 ft.

Packer Depth 3577 ft. Size 6 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) 3609 ft. Recorder Number 2602 Cap. 4150

Bottom Recorder Depth (Outside) 3612 ft. Recorder Number 3473 Cap. 4000

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

Drilling Contractor MURPHY Drill Collar Length 177 I. D. 2.26 in.

Mud Type CHEMICAL Viscosity 39 Weight Pipe Length _____ I. D. _____ in.

Weight 10.0 Water Loss 10.4 cc. Drill Pipe Length 3220 I. D. 3.7 in.

Chlorides 3,000 P.P.M. Test Tool Length 14 ft. Tool Size 5/2 in.

Jars: Make NONE Serial Number _____ Anchor Length 37 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out _____ Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7/8 in. Tool Joint Size 4 1/2 F.H. in.

Blow: _____

Recovered _____ ft. of _____

Remarks: _____

PACKER FAILURE

Time On Location 4:30 A.M. Time Pick Up Tool 5:30 P.M. Time Off Location 12:30 A.M.

Time Set Packer(s) 7:30 A.M. Time Started Off Bottom 7:40 P.M. Maximum Temperature _____

Initial Hydrostatic Pressure (A) X 1919 P.S.I.

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

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

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

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

Final Hydrostatic Pressure (H) X 1862 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jeff Christian Signature of Customer or his authorized representative

Western Representative Roy Allen Jackson

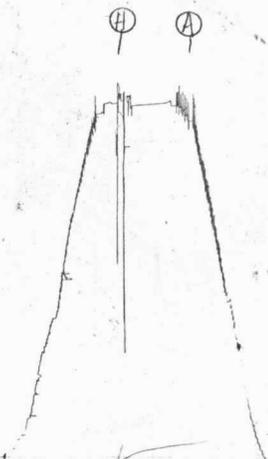
THANK YOU

FIELD INVOICE

Open Hole Test \$ _____
Misrun \$ 300.00
Straddle Test \$ _____
Jars \$ _____
Selective Zone \$ _____
Safety Joint \$ _____
Standby \$ _____
Evaluation \$ _____
Extra Packer \$ _____
Circ. Sub. \$ _____
Mileage \$ _____
Fluid Sampler \$ _____
Extra Charts \$ _____
Insurance \$ _____
TOTAL \$ 300.00

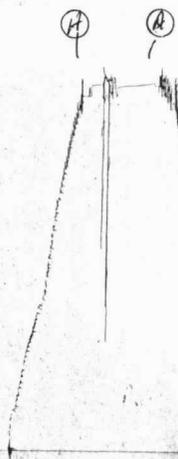
TKT # 8884

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WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO 8885

P. O. BOX 1599 WICHITA, KANSAS 67201
PHONE (316) 262-5861

Elevation 2271 Kelly Bushing Formation Eff. Pay Ft.

District WAKEENEY Date 11-22-80 Customer Order No.

COMPANY NAME A. SCOTT RITCHIE

ADDRESS Suite 950 125 N. MARKET WICHITA KANS

LEASE AND WELL NO #1 Montgomery B COUNTY GRAHAM STATE KANS Sec 8 Twp 8S Rge 23W

Mail Invoice To SAME Co. Name Address No. Copies Requested 5

Mail Charts To SAME Address No. Copies Requested 5

Formation Test No #2 Interval Tested from 3571 ft. to 3614 ft. Total Depth ft.

Packer Depth 3566 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3571 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3609 ft. Recorder Number 2608 Cap. 4150

Bottom Recorder Depth (Outside) 3612 ft. Recorder Number 3473 Cap. 4000

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor MURFIN Drill Collar Length 177 I. D. 2.26 in.

Mud Type Chemical Viscosity 39 Weight Pipe Length I. D. in.

Weight 10.0 Water Loss 10.4 cc. Drill Pipe Length 3220 I. D. 3.8 in.

Chlorides 2,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.

Jars: Make NONE Serial Number Anchor Length 43 ft. Size 5 3/2 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 4 1/2 FH in.

Blow:

Recovered ft. of

Remarks:

PACKER FAILURE MISRUN only one chart!

Time On Location 4:30 A.M. Time Pick Up Tool 5:00 P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 6:45 P.M. Time Started Off Bottom 7:00 P.M. Maximum Temperature

Initial Hydrostatic Pressure (A) x 1967 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) x 1935 P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jeff Christian Signature of Customer or his authorized representative

Western Representative Ray Allen Truck

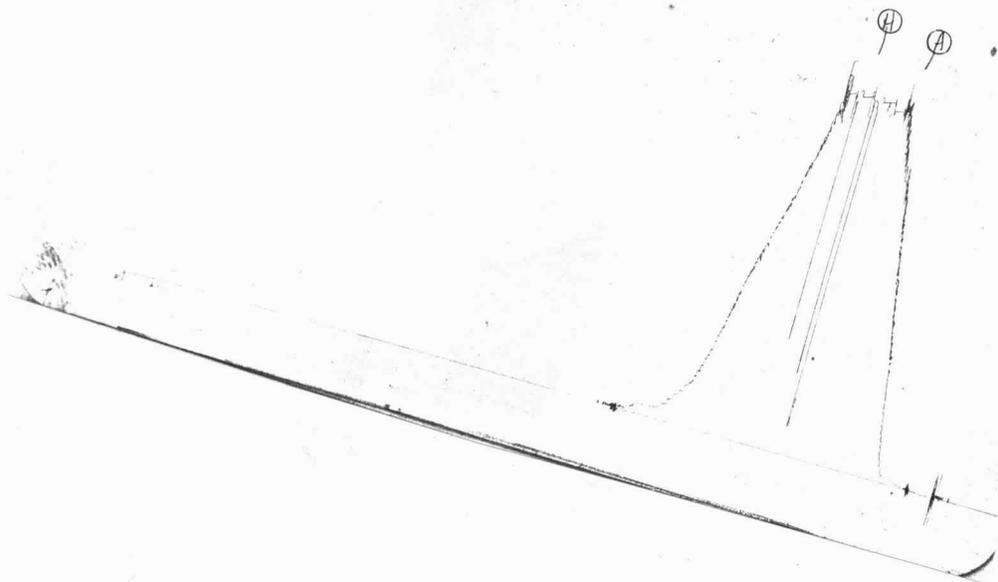
THANK YOU

FIELD INVOICE

Table with 2 columns: Item, Price. Includes Open Hole Test, Misrun (\$300.00), Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, TOTAL (\$300.00).

TKT # 8885
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B 3473
B 8885



Company A. Scott Ritchie Lease & Well No. Montgomery 'B' #1

Elevation 2271 Kelly Bushing Formation -- Effective Pay - Ft. Ticket No. 8885

Date 11/22/80 Sec. 8 Twp. 8S Range 23W County Graham State Kanas

Test Approved by Jeff Christian Western Representative Ray Allen Tucker

Formation Test No. 2 Interval Tested from 3571 ft. to 3614 ft. Total Depth 3614 ft.

Packer Depth 3566 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3571 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3609 ft. Recorder Number 2608 Cap. 4150

Bottom Recorder Depth (Outside) 3612 ft. Recorder Number 3473 Cap. 4000

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

Drilling Contractor Murfin Drilling Drill Collar Length 177 I. D. 2.26 in.

Mud Type chemical Viscosity 39 Weight Pipe Length - I. D. - in.

Weight 10.0 Water Loss 10.4 cc. Drill Pipe Length 3220 I. D. 3.8 in.

Chlorides 2,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.

Jars: Make None Serial Number - Anchor Length 43 ft. Size 5 1/2 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 4 1/2 FH in.

Blow: ==

Recovered ft. of

Recovered ft. of

Recovered ft. of PACKER FAILURE MISRUN

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 6:45 A.M. P.M. Time Started Off Bottom 7:00 A.M. P.M. Maximum Temperature -

Initial Hydrostatic Pressure (A) 1967 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) 1935 P.S.I.



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET No. 8886

Handwritten initials and number 8886

P. O. BOX 1599 WICHITA, KANSAS 67201

Elevation 2271 KB Formation K.C. Eff. Pay Ft.

District Wakeeney Date 11-23-80 Customer Order No.

COMPANY NAME A SCOTT Ritchie

ADDRESS Suite 950 125 N. MARKET Wichita KANS

LEASE AND WELL NO. #1 Montgomery B1 COUNTY Graham STATE KANS Sec. 8 Twp 8S Rge 23W

Mail Invoice To SAME Co. Name Address No. Copies Requested 5

Mail Charts To SAME Address No. Copies Requested 5

Formation Test No. #3 Interval Tested from 3644 ft. to 3710 ft. Total Depth 3710 ft.

Packer Depth 3639 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Packer Depth 3644 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3705 ft. Recorder Number 2608 Cap. 4150

Bottom Recorder Depth (Outside) 3708 ft. Recorder Number 3473 Cap. 4000

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor MURFIN Drill Collar Length 177 I. D. 2.26 in.

Mud Type CHEMICAL Viscosity 45 Weight Pipe Length I. D. in.

Weight 9.9 Water Loss 4510 cc. Drill Pipe Length 3200 I. D. 3.8 in.

Chlorides 2,000 P.P.M. Test Tool Length 19 3/4 ft. Tool Size 5 1/2 in.

Jars: Make NONE Serial Number Anchor Length 66 ft. Size 5 1/2 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 4 1/2 F.H. in.

Blow: WEAK Building slightly throughout I.F.P. F.F.P.

Recovered 1 ft. of FREE OIL

Recovered 64 ft. of MUD CUT SLIGHTLY OIL

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: No pressures available

2 RECORDERS JAM

Time On Location 11:00 A.M. Time Pick Up Tool 12:30 P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 2:10 A.M. P.M. Time Started Off Bottom 4:25 A.M. P.M. Maximum Temperature

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

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

Initial Closed In Period Minutes 30 (D) P.S.I.

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

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

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

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jeff Christian Signature of Customer or his authorized representative

Western Representative Ray Allen Tucker THANK YOU

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test, Misrun (\$300.00), Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, TOTAL (\$300.00).

Company A. Scott Ritchie Lease & Well No. Montgomery 'B' #1
 Elevation 2271 Kelly Bushing Formation Kansas City Effective Pay -- Ft. Ticket No. 8886
 Date 11/23/80 Sec. 8 Twp. 8S Range 23W County Graham State Kansas
 Test Approved by Jeff Christian Western Representative Ray Allen Tucker

Formation Test No. 3 Interval Tested from 3644 ft. to 3710 ft. Total Depth 3710 ft.
 Packer Depth 3639 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3644 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3705 ft. Recorder Number 2608 Cap. 4150
 Bottom Recorder Depth (Outside) 3708 ft. Recorder Number 3473 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Murfin Drilling Drill Collar Length 177 I. D. 2.26 in.
 Mud Type chemical Viscosity 45 Weight Pipe Length - I. D. - in.
 Weight 9.9 Water Loss 10.4 cc. Drill Pipe Length 3280 I. D. 3.8 in.
 Chlorides 2,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.
 Jars: Make None Serial Number - Anchor Length 66 ft. Size 5 1/2 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 4 1/2 FH in.

Blow: Weak building slightly throughout initial flow period. Weak building slightly throughout final flow period.

Recovered 1 ft. of free oil
 Recovered 64 ft. of mud cut slightly oil
 Recovered - ft. of -
 Recovered - ft. of MISRUN
 Recovered - ft. of -

Remarks: NO PRESSURES AVAILABLE
CLOCK STOPPED

Time Set Packer(s)	A.M. P.M.	Time Started Off Bottom	A.M. P.M.	Maximum Temperature
Initial Hydrostatic Pressure		(A)	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)	P.S.I.	

TKT # 8886

TKT # 8886



WESTERN TESTING CO., INC.

FORMATION TESTING

TICKET NO: 8887

P. O. BOX 1599 WICHITA, KANSAS 67201 PHONE (316) 262-5861

Elevation 2271 R.B Formation KC Eff. Pay Ft.

District WAKEENEY Date 11-23-80 Customer Order No.

COMPANY NAME A Scott Ritchie ADDRESS Suite 950 125 N. MARKET WICHITA KANS LEASE AND WELL NO. Montgomery B T COUNTY Graham STATE KANS Sec. 8 Twp 8S Rge 23W Mail Invoice To SAME Co. Name SAME Address Address No. Copies Requested 5 Mail Charts To SAME Address Address No. Copies Requested 5

Formation Test No. #4 Interval Tested from 3644 ft. to 3710 ft. Total Depth 3710 ft. Packer Depth 3639 ft. Size 6 3/4 in. Packer Depth 3644 ft. Size 6 3/4 in. Packer Depth ft. Size in. Depth of Selective Zone Set Top Recorder Depth (Inside) 3705 ft. Recorder Number 2608 Cap. 4150 Bottom Recorder Depth (Outside) 3708 ft. Recorder Number 3473 Cap. 4600 Below Straddle Recorder Depth ft. Recorder Number Cap. Drilling Contractor MURFIN #8 Drill Collar Length 177 I. D. 2.26 in. Mud Type CHEM Viscosity 45 Weight Pipe Length I. D. in. Weight 9.9 Water Loss 45-10.7 cc. Drill Pipe Length 3280 I. D. 3.8 in. Chlorides 2,000 P.P.M. Test Tool Length 19 ft. Tool Size 5/16 in. Jars: Make NONE Serial Number Anchor Length 67 ft. Size 5/16 in. Did Well Flow? NO Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in. Main Hole Size 1 7/8 in. Tool Joint Size 4 1/2 in. H in.

Blow: WEAK Blow BUILDING SLIGHTLY in FFP throughout test WEAK Blow BUILDING SLIGHTLY in FFP Recovered 1 ft. of CLEAR OIL Recovered 62 ft. of MUD CUT OIL Recovered ft. of Recovered ft. of Recovered ft. of Remarks: only one chart!

Time On Location 7:00 A.M. Time Pick Up Tool 7:30 P.M. Time Off Location 1:16 A.M. Time Set Packer(s) 8:50 P.M. Time Started Off Bottom 10:50 P.M. Maximum Temperature Initial Hydrostatic Pressure (A) 1955 P.S.I. Initial Flow Period Minutes 30 (B) 61 P.S.I. to (C) 72 P.S.I. Initial Closed In Period Minutes 30 (D) 109 P.S.I. Final Flow Period Minutes 30 (E) 82 P.S.I. to (F) 82 P.S.I. Final Closed In Period Minutes 30 (G) 644 P.S.I. Final Hydrostatic Pressure (H) 1925 P.S.I.

COMPANY TERMS

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All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jeff Christian Signature of Customer or his authorized representative

Western Representative Ray Allen Tucker

FIELD INVOICE

Table with 2 columns: Item, Amount. Items include Open Hole Test (\$550.00), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, TOTAL (\$550.00).

WESTERN TESTING CO., INC.

(Pressure) Data

Date 11-23 Recorder No. ~~2608~~ 3474 Capacity 4 ~~5~~ 000 Test Ticket No. 8887 Location 3708 Ft.
 Clock No. _____ Elevation 2271 K.B Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1992</u>	P.S.I.	<u>8:50</u> P M	
B First Initial Flow Pressure	<u>102</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>86</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>921</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>113</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>96</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
G Final Closed-in Pressure	<u>665</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1943</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>10</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>0</u>	<u>86</u>	<u>0</u>	<u>113</u>	<u>0</u>	<u>96</u>
P 2	<u>5</u>	<u>3</u>	<u>92</u>	<u>5</u>	<u>100</u>	<u>3</u>	<u>98</u>
P 3	<u>10</u>	<u>6</u>	<u>113</u>	<u>10</u>	<u>96</u>	<u>6</u>	<u>105</u>
P 4	<u>15</u>	<u>9</u>	<u>193</u>	<u>15</u>	<u>94</u>	<u>9</u>	<u>119</u>
P 5	<u>20</u>	<u>12</u>	<u>357</u>	<u>20</u>	<u>94</u>	<u>12</u>	<u>141</u>
P 6	<u>25</u>	<u>15</u>	<u>551</u>	<u>25</u>	<u>94</u>	<u>15</u>	<u>180</u>
P 7	<u>30</u>	<u>18</u>	<u>703</u>	<u>30</u>	<u>96</u>	<u>18</u>	<u>244</u>
P 8	<u>35</u>	<u>21</u>	<u>799</u>	<u>35</u>		<u>21</u>	<u>340</u>
P 9	<u>40</u>	<u>24</u>	<u>860</u>	<u>40</u>		<u>24</u>	<u>477</u>
P 10	<u>45</u>	<u>27</u>	<u>898</u>	<u>45</u>		<u>27</u>	<u>591</u>
P 11	<u>50</u>	<u>30</u>	<u>921</u>	<u>50</u>		<u>30</u>	<u>665</u>
P 12	<u>55</u>	<u>33</u>		<u>55</u>		<u>33</u>	
P 13	<u>60</u>	<u>36</u>		<u>60</u>		<u>36</u>	
P 14		<u>39</u>		<u>65</u>		<u>39</u>	
P 15		<u>42</u>		<u>70</u>		<u>42</u>	
P 16		<u>45</u>		<u>75</u>		<u>45</u>	
P 17		<u>48</u>		<u>80</u>		<u>48</u>	
P 18		<u>51</u>		<u>85</u>		<u>51</u>	
P 19		<u>54</u>		<u>90</u>		<u>54</u>	
P 20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

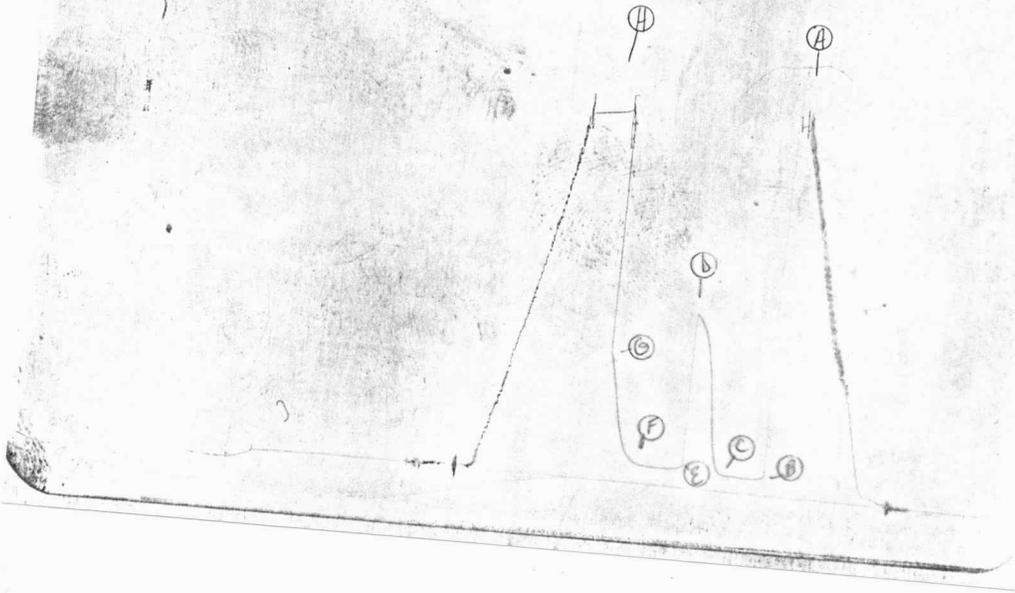
DST # 4

TKT # 8887

B 3473

B 8887

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Company A. Scott Ritchie Lease & Well No. Montgomery 'B' #1

Elevation 2271 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 8887

Date 11/23/80 Sec. 8 Twp. 8S Range 23W County Graham State Kansas

Test Approved by Jeff Christian Western Representative Ray Allen Tucker

Formation Test No. 4 Interval Tested from 3644 ft. to 3710 ft. Total Depth 3710 ft.

Packer Depth 3639 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3644 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3705 ft. Recorder Number 2608 Cap. 4150

Bottom Recorder Depth (Outside) 3708 ft. Recorder Number 3473 Cap. 4000

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

Drilling Contractor Murfin Drilling Rig #8 Drill Collar Length 177 I. D. 2.26 in.

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

Weight 9.9 Water Loss 10.4 cc. Drill Pipe Length 3280 I. D. 3.8 in.

Chlorides 2,000 P.P.M. Test Tool Length 19 ft. Tool Size 5 1/2 in.

Jars: Make None Serial Number - Anchor Length 67 ft. Size 5 1/2 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 4 1/2 FH in.

Blow: Weak blow building slightly throughout test.

Recovered 1 ft. of clean oil

Recovered 62 ft. of mud cut oil

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

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

Initial Hydrostatic Pressure (A) 1992 P.S.I.

Initial Flow Period Minutes 30 (B) 102 P.S.I. to (C) 86 P.S.I.

Initial Closed In Period Minutes 30 (D) 921 P.S.I.

Final Flow Period Minutes 30 (E) 113 P.S.I. to (F) 96 P.S.I.

Final Closed In Period Minutes 30 (G) 665 P.S.I.

Final Hydrostatic Pressure (H) 1943 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 11-23-80

Test Ticket No. 8887

Recorder No. 3474

Capacity 4000

Location 3708 Ft.

Clock No. - Elevation 2271 Kelly Bushing

Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1992</u>	P.S.I.	<u>8:50P</u>	<u>M</u>
B First Initial Flow Pressure	<u>102</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Mins.
C First Final Flow Pressure	<u>86</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Mins.
D Initial Closed-in Pressure	<u>921</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Mins.
E Second Initial Flow Pressure	<u>113</u>	P.S.I.	<u>30</u>	<u>Mins. 30</u> Mins.
F Second Final Flow Pressure	<u>96</u>	P.S.I.		
G Final Closed-in Pressure	<u>665</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1943</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: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 10 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>102</u>	<u>0</u>	<u>86</u>	<u>0</u>	<u>113</u>	<u>0</u>	<u>96</u>
P 2 <u>5</u>	<u>84</u>	<u>3</u>	<u>92</u>	<u>5</u>	<u>100</u>	<u>3</u>	<u>98</u>
P 3 <u>10</u>	<u>82</u>	<u>6</u>	<u>113</u>	<u>10</u>	<u>96</u>	<u>6</u>	<u>105</u>
P 4 <u>15</u>	<u>82</u>	<u>9</u>	<u>193</u>	<u>15</u>	<u>94</u>	<u>9</u>	<u>119</u>
P 5 <u>20</u>	<u>83</u>	<u>12</u>	<u>357</u>	<u>20</u>	<u>94</u>	<u>12</u>	<u>141</u>
P 6 <u>25</u>	<u>86</u>	<u>15</u>	<u>551</u>	<u>25</u>	<u>94</u>	<u>15</u>	<u>180</u>
P 7 <u>30</u>	<u>86</u>	<u>18</u>	<u>703</u>	<u>30</u>	<u>96</u>	<u>18</u>	<u>244</u>
P 8		<u>21</u>	<u>799</u>			<u>21</u>	<u>340</u>
P 9		<u>24</u>	<u>860</u>			<u>24</u>	<u>477</u>
P10		<u>27</u>	<u>898</u>			<u>27</u>	<u>591</u>
P11		<u>30</u>	<u>921</u>			<u>30</u>	<u>665</u>
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET No. 8888

P. O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 2271 K.B Formation K.C. Eff. Pay Ft.

District WAKEENEY Date 11-24-80 Customer Order No.

COMPANY NAME A. Scott Ritchie

ADDRESS Suite 950 125 N. MARKET WICHITA KANSAS 67202

LEASE AND WELL NO. Montgomery B1 COUNTY GRAHAM STATE KANS Sec. 8 Twp 8S Rge 23W

Mail Invoice To SAME No. Copies Requested 5

Mail Charts To SAME No. Copies Requested 5

Formation Test No. 5 Interval Tested from 3705 ft. to 3760 ft. Total Depth 3760 ft.

Packer Depth 3705 ft. Size 63/4 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) 3755 ft. Recorder Number 2608 Cap. 4150

Bottom Recorder Depth (Outside) 3758 ft. Recorder Number 3473 Cap. 4000

Below Straddle Recorder Depth ft. Recorder Number Cap.

Drilling Contractor MURFIN Drill Collar Length 177 I. D. 2.26 in.

Mud Type CHEM Viscosity 46 Weight Pipe Length I. D. in.

Weight 9.9 Water Loss 7.6 cc. Drill Pipe Length 3312 I. D. 3.8 in.

Chlorides 1,800 P.P.M. Test Tool Length 74 ft. Tool Size 5/2 in.

Jars: Make NONE Serial Number Anchor Length 35 ft. Size 5 1/2 in.

Did Well Flow? NO Reversed Out Surface Choke Size 3/4 in. Bottom Choke Size 3/4 in.

Main Hole Size 7 1/8 in. Top Joint Size 4 1/2 F.H. in.

Blow: VERY WEAK THROUGHOUT test died in 15 minutes into blind flow.

VERY WEAK PRED 15 minutes INTO FFP

Recovered 216 ft. of MUD

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: HAD to set PKRS 3 TIMES ON EACH Flow period to get

PKR's to hold.

Time On Location 11:00 A.M. Time Pick Up Tool 12:15 P.M. Time Off Location 5:30 P.M.

Time Set Packer(s) 1:35 A.M. Time Started Off Bottom 335 A.M. Maximum Temperature 112°

Initial Hydrostatic Pressure (A) 1996 P.S.I.

Initial Flow Period Minutes 30 (B) 133 P.S.I. to (C) 123 P.S.I.

Initial Closed In Period Minutes 30 (D) 502 P.S.I.

Final Flow Period Minutes 30 (E) 174 P.S.I. to (F) 164 P.S.I.

Final Closed In Period Minutes 30 (G) 492 P.S.I.

Final Hydrostatic Pressure (H) 1965 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jeff Christian Signature of Customer or his authorized representative

Western Representative Ray Allen Tuck

THANK YOU

FIELD INVOICE

Table with 2 columns: Item and Amount. Items include Open Hole Test (\$250.00), Misrun, Straddle Test, Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, and TOTAL (\$550.00).

WESTERN TESTING CO., INC.

Pressure Data

Date 11-24 Test Ticket No. 8888
 Recorder No. 3473 Capacity 4000 Location 3758 Ft.
 Clock No. _____ Elevation 2271 KB Well Temperature 112 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1998</u> P.S.I.	<u>1:35 P.M.</u>	
B First Initial Flow Pressure	<u>135</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>126</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>500</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>148</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>178</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
G Final Closed-in Pressure	<u>494</u> P.S.I.		
H Final Hydrostatic Mud	<u>1957</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>10</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	<u>135</u>	0	<u>126</u>	0	<u>148</u>	0	<u>178</u>
P 2 5	<u>131</u>	3	<u>236</u>	5	<u>135</u>	3	<u>178</u>
P 3 10	<u>130</u>	6	<u>348</u>	10	<u>189</u>	6	<u>318</u>
P 4 15	<u>127</u>	9	<u>406</u>	15	<u>180</u>	9	<u>383</u>
P 5 20	<u>126</u>	12	<u>439</u>	20	<u>179</u>	12	<u>422</u>
P 6 25	<u>126</u>	15	<u>459</u>	25	<u>178</u>	15	<u>447</u>
P 7 30	<u>126</u>	18	<u>473</u>	30	<u>178</u>	18	<u>461</u>
P 8 35		21	<u>482</u>	35		21	<u>475</u>
P 9 40		24	<u>492</u>	40		24	<u>484</u>
P 10 45		27	<u>495</u>	45		27	<u>490</u>
P 11 50		30	<u>500</u>	50		30	<u>494</u>
P 12 55		33		55		33	
P 13 60		36		60		36	
P 14		39		65		39	
P 15		42		70		42	
P 16		45		75		45	
P 17		48		80		48	
P 18		51		85		51	
P 19		54		90		54	
P 20		57				57	
		60				60	

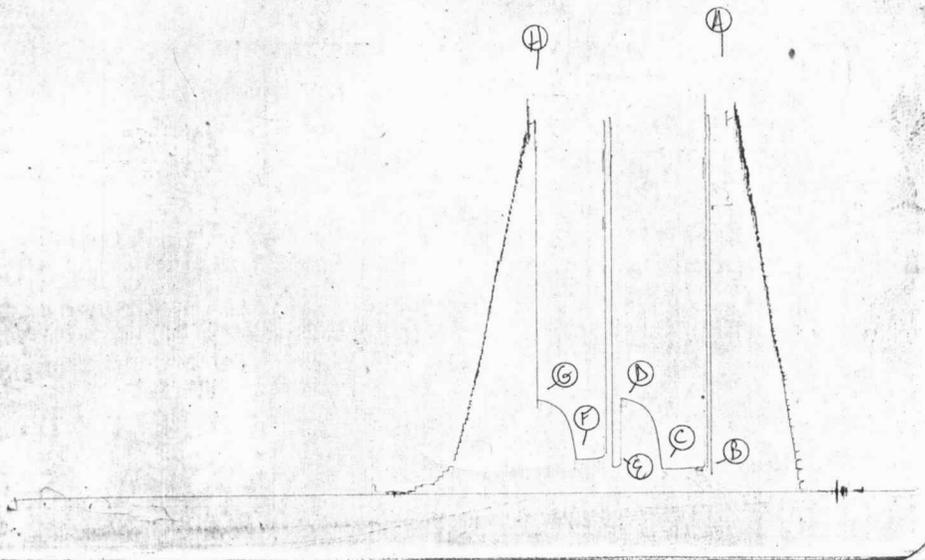
OST #5

TKT. #8898

B 2888

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B 3473



Company A. Scott Ritchie Lease & Well No. Montgomery "B" #1
 Elevation 2271 Kelly Bushing Formation Kansas City Effective Pay - Ft. Ticket No. 8888
 Date 11/24/80 Sec. 8 Twp. 8S Range 23W County Graham State Kansas
 Test Approved by Jeff Christian Western Representative Ray Allen Tucker

Formation Test No. 5 Interval Tested from 3705 ft. to 3760 ft. Total Depth 3760 ft.
 Packer Depth 3705 ft. Size 6 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) 3755 ft. Recorder Number 2608 Cap. 4150
 Bottom Recorder Depth (Outside) 3758 ft. Recorder Number 3473 Cap. 4000
 Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Murfin Drilling Drill Collar Length 177 I. D. 2.26 in.
 Mud Type chemical Viscosity 46 Weight Pipe Length - I. D. - in.
 Weight 9.9 Water Loss 8.6 cc. Drill Pipe Length 3312 I. D. 3.8 in.
 Chlorides 1,800 P.P.M. Test Tool Length 14 ft. Tool Size 5 1/2 in.
 Jars: Make None Serial Number - Anchor Length 55 ft. Size 5 1/2 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 4 1/2 FH in.

Blow: Very weak throughout test. Died in fifteen minutes into final flow period.

Recovered 216 ft. of mud
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks: Had to set packers three times on each flow priod to get packers to hold.

Time Set Packer(s) 1:35 A.M. Time Started Off Bottom 3:35 A.M. Maximum Temperature 112°
P.M.
 Initial Hydrostatic Pressure (A) 1998 P.S.I.
 Initial Flow Period Minutes 30 (B) 135 P.S.I. to (C) 126 P.S.I.
 Initial Closed In Period Minutes 30 (D) 500 P.S.I.
 Final Flow Period Minutes 30 (E) 148 P.S.I. to (F) 178 P.S.I.
 Final Closed In Period Minutes 30 (G) 494 P.S.I.
 Final Hydrostatic Pressure (H) 1957 P.S.I.

WESTERN-TESTING CO., INC.
Pressure Data

Date 11-24-80 Test Ticket No. 8888
 Recorder No. 3473 Capacity 4000 Location 3758 Ft.
 Clock No. - Elevation 2271 Kelly Bushing Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1998	P.S.I.	1:35P	M
B First Initial Flow Pressure	135	P.S.I.	30	Mins. 30 Mins.
C First Final Flow Pressure	126	P.S.I.	30	Mins. 30 Mins.
D Initial Closed-in Pressure	500	P.S.I.	30	Mins. 30 Mins.
E Second Initial Flow Pressure	148	P.S.I.	30	Mins. 30 Mins.
F Second Final Flow Pressure	178	P.S.I.		
G Final Closed-in Pressure	494	P.S.I.		
H Final Hydrostatic Mud	1957	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: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 10 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	135	0	126	0	148	0	178
P 2 5	131	3	236	5	135	3	178
P 3 10	130	6	348	10	Reset Packer 189	6	318
P 4 15	127	9	406	15	189	9	383
P 5 20	126	12	439	20	180	12	422
P 6 25	126	15	459	25	179	15	447
P 7 30	126	18	473	30	178	18	461
P 8		21	482			21	475
P 9		24	492			24	484
P10		27	495			27	490
P11		30	500			30	494
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO: 8889

O. BOX 1599 PHONE (316) 262-5861
WICHITA, KANSAS 67201

Elevation 2271 K.B. Formation KC Eff. Pay Ft.

District WAKEENEY Date 10-25-80 Customer Order No.

COMPANY NAME A Scott Richie

ADDRESS Suite 950 125 N. MARKET WICHITA KANS 67202

WELL NO. Montgomery B1 COUNTY GRAHAM STATE KANS Sec. 8 Twp 8S Rge 23W

Invoice To SAME Co. Name Address No. Copies Requested 5

Charts To SAME Address No. Copies Requested 5

Formation Test No. #6 Interval Tested from 3588 ft. to 3626 ft. Total Depth 3760 ft.

Checker Depth 3588 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Checker Depth 3626 ft. Size 6 3/4 in. Packer Depth ft. Size in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3630 ft. Recorder Number 2608 Cap. 4650

Bottom Recorder Depth (Outside) 3623 ft. Recorder Number 3473 Cap. 4000

Low Straddle Recorder Depth 3757 ft. Recorder Number 4331 Cap. PSI

Drilling Contractor MURFIN #8 Drill Collar Length 177 I. D. 2.26 in.

Fluid Type CHEM Viscosity 46 Weight Pipe Length I. D. in.

Weight 9.9 Water Loss 8.6 cc. Drill Pipe Length 3312 I. D. 3.8 in.

Chlorides 1800 P.P.M. Test Tool Length 38 ft. Tool Size 5 1/2 in.

Tools: Make NONE Serial Number Anchor Length 129 ft. Size 5 1/2 in.

Drill 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 4 1/2 F.H. in.

Remarks: WEAK Blow THROUGHOUT F.F.P. test died in 10 minutes into final flow

WEAK DIED 10 MIN. INTO F.F.P.

covered 10 ft. of MVA

covered ft. of

covered ft. of

covered ft. of

covered ft. of

marks: ABOUT 5' OFF Bottom

Time On Location A.M. P.M. Time Pick Up Tool A.M. P.M. Time Off Location A.M. P.M.

Time Set Packer(s) 12:45 A.M. P.M. Time Started Off Bottom 3:00 A.M. P.M. Maximum Temperature 112°

Initial Hydrostatic Pressure (A) 1868, 1900 P.S.I.

Initial Flow Period Minutes 30 (B) 31 P.S.I. to (C) 31 P.S.I.

Initial Closed In Period Minutes 30 (D) 458 P.S.I.

Initial Flow Period Minutes 30 (E) 42 P.S.I. to (F) 42 P.S.I.

Initial Closed In Period Minutes 45 (G) 490 P.S.I.

Initial Hydrostatic Pressure (H) 1868 P.S.I.

COMPANY TERMS

Western Testing Co., Inc. shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained directly or indirectly through the use of its equipment, of its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid at cost by the party for whom the test is made.

All charges subject to 12% interest after 60 days from date of invoice. Any expense incurred for collection will be added to the original amount.

Test Approved By Jeff Christian Signature of Customer or his authorized representative

Western Representative Ray Allen Tucker

FIELD INVOICE

Table with 2 columns: Item, Amount. Includes Open Hole Test (\$550.00), Straddle Test (\$250.00), Jars, Selective Zone, Safety Joint, Standby, Evaluation, Extra Packer, Circ. Sub., Mileage, Fluid Sampler, Extra Charts, Insurance, and TOTAL (\$800.00).

WESTERN TESTING CO., INC.
Pressure Data

Date 11-25 Test Ticket No. 8889
 Recorder No. 2608 Capacity 4150 Location 3630 Ft.
 Clock No. _____ Elevation 2271 KB Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1950</u>	P.S.I.	<u>12:45</u> AM	
B First Initial Flow Pressure	<u>52</u>	P.S.I.	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>48</u>	P.S.I.	<u>30</u> Mins.	<u>24</u> Mins.
D Initial Closed-in Pressure	<u>471</u>	P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>60</u>	P.S.I.	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>50</u>	P.S.I.		
G Final Closed-in Pressure	<u>521</u>	P.S.I.		
H Final Hydrostatic Mud	<u>1893</u>	P.S.I.		

PRESSURE BREAKDOWN

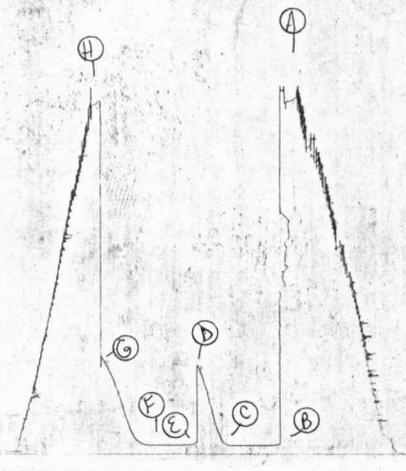
First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>7</u> Inc.		Breakdown: <u>8</u> Inc.		Breakdown: <u>6</u> Inc.		Breakdown: <u>14</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> 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>0</u>	<u>48</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>50</u>
P 2	<u>5</u>	<u>3</u>	<u>58</u>	<u>5</u>	<u>52</u>	<u>3</u>	<u>50</u>
P 3	<u>10</u>	<u>6</u>	<u>85</u>	<u>10</u>	<u>50</u>	<u>6</u>	<u>50</u>
P 4	<u>15</u>	<u>9</u>	<u>137</u>	<u>15</u>		<u>9</u>	<u>50</u>
P 5	<u>20</u>	<u>12</u>	<u>214</u>	<u>20</u>		<u>12</u>	<u>58</u>
P 6	<u>25</u>	<u>15</u>	<u>293</u>	<u>25</u>		<u>15</u>	<u>83</u>
P 7	<u>30</u>	<u>18</u>	<u>370</u>	<u>30</u>	<u>50</u>	<u>18</u>	<u>116</u>
P 8	<u>35</u>	<u>21</u>	<u>429</u>	<u>35</u>		<u>21</u>	<u>171</u>
P 9	<u>40</u>	<u>24</u>	<u>471</u>	<u>40</u>		<u>24</u>	<u>231</u>
P10	<u>45</u>	<u>27</u>		<u>45</u>		<u>27</u>	<u>297</u>
P11	<u>50</u>	<u>30</u>		<u>50</u>		<u>30</u>	<u>362</u>
P12	<u>55</u>	<u>33</u>		<u>55</u>		<u>33</u>	<u>412</u>
P13	<u>60</u>	<u>36</u>		<u>60</u>		<u>36</u>	<u>460</u>
P14		<u>39</u>		<u>65</u>		<u>39</u>	<u>498</u>
P15		<u>42</u>		<u>70</u>		<u>42</u>	<u>521</u>
P16		<u>45</u>		<u>75</u>		<u>45</u>	
P17		<u>48</u>		<u>80</u>		<u>48</u>	
P18		<u>51</u>		<u>85</u>		<u>51</u>	
P19		<u>54</u>		<u>90</u>		<u>54</u>	
P20		<u>57</u>				<u>57</u>	
		<u>60</u>				<u>60</u>	

Ost#6

TKT # 8889

T-8889

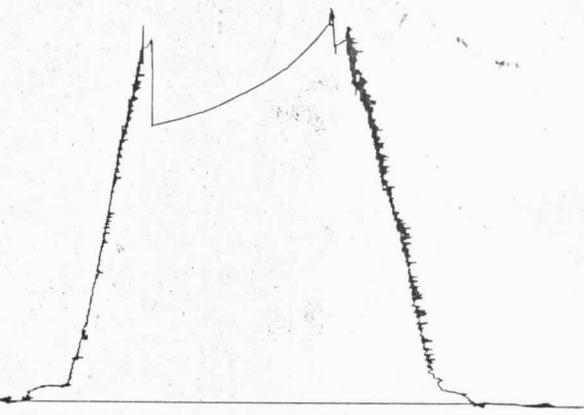
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Ost 6

Bottom STRADDLE CHART

TKT # 8889
BELLOW STRADDLE



Company A. Scott Ritchie Lease & Well No. Montgomery "B" #1
 Elevation 2271 Kelly Bushing Kansas City Formation Kansas City Effective Pay - Ft. Ticket No. 8889
 Date 11/25/80 Sec. 8 Twp. 8S Range 23W County Graham State Kansas
 Test Approved by Jeff Christian Western Representative Ray Allen Tucker

Formation Test No. 6 Interval Tested from 3588 ft. to 3626 ft. Total Depth 3760 ft.
 Packer Depth 3588 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Packer Depth 3626 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
 Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3630 ft. Recorder Number 2608 Cap. 4150
 Bottom Recorder Depth (Outside) 3623 ft. Recorder Number 3473 Cap. 4400
 Below Straddle Recorder Depth 3757 ft. Recorder Number 4331 Cap. PSI

Drilling Contractor Murfin Drilling Rig #8 Drill Collar Length 177 I. D. 2.26 in.
 Mud Type chemical Viscosity 46 Weight Pipe Length - I. D. - in.
 Weight 9.9 Water Loss 8.6 cc. Drill Pipe Length 3312 I. D. 3.8 in.
 Chlorides 1,800 P.P.M. Test Tool Length 38 ft. Tool Size 5 1/2 in.
 Jars: Make None Serial Number - Anchor Length 129 ft. Size 5 1/2 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 4 1/2 FH in.

Blow: Weak blow throughout test; died in ten minutes into final flow period. Weak ; died ten minutes into final flow period.

Recovered 10 ft. of mud
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of
 Recovered ft. of

Remarks: About five feet off bottom.

Time Set Packer(s) 12:45 A.M. Time Started Off Bottom 3:00 A.M. Maximum Temperature 112°
P.M. P.M.
 Initial Hydrostatic Pressure (A) 1950 P.S.I.
 Initial Flow Period Minutes 35 (B) 52 P.S.I. to (C) 48 P.S.I.
 Initial Closed In Period Minutes 24 (D) 471 P.S.I.
 Final Flow Period Minutes 30 (E) 60 P.S.I. to (F) 50 P.S.I.
 Final Closed In Period Minutes 42 (G) 521 P.S.I.
 Final Hydrostatic Pressure (H) 1893 P.S.I.

WESTERN TESTING CO., INC.
Pressure Data

Date 11-25-80 Test Ticket No. 8889
 Recorder No. 2608 Capacity 4150 Location 3630 Ft.
 Clock No. - Elevation 2271 Kelly Bushing Well Temperature 112 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1950</u> P.S.I.	Open Tool	<u>12:45A</u> M	
B First Initial Flow Pressure	<u>52</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>35</u> Mins.
C First Final Flow Pressure	<u>48</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>24</u> Mins.
D Initial Closed-in Pressure	<u>471</u> P.S.I.	Second Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
E Second Initial Flow Pressure	<u>60</u> P.S.I.	Final Closed-in Pressure	<u>45</u> Mins.	<u>42</u> Mins.
F Second Final Flow Pressure	<u>50</u> P.S.I.			
G Final Closed-in Pressure	<u>521</u> P.S.I.			
H Final Hydrostatic Mud	<u>1893</u> P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 7 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 8 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: 14 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> 52	<u>0</u>	<u>48</u>	<u>0</u>	<u>60</u>	<u>0</u>	<u>50</u>
P 2	<u>5</u> 49	<u>3</u>	<u>58</u>	<u>5</u>	<u>52</u>	<u>3</u>	<u>50</u>
P 3	<u>10</u> 48	<u>6</u>	<u>85</u>	<u>10</u>	<u>50</u>	<u>6</u>	<u>50</u>
P 4	<u>15</u> 48	<u>9</u>	<u>137</u>	<u>15</u>	<u>50</u>	<u>9</u>	<u>50</u>
P 5	<u>20</u> 48	<u>12</u>	<u>214</u>	<u>20</u>	<u>50</u>	<u>12</u>	<u>58</u>
P 6	<u>25</u> 48	<u>15</u>	<u>293</u>	<u>25</u>	<u>50</u>	<u>15</u>	<u>83</u>
P 7	<u>30</u> 48	<u>18</u>	<u>370</u>	<u>30</u>	<u>50</u>	<u>18</u>	<u>116</u>
P 8	<u>35</u> 48	<u>21</u>	<u>429</u>			<u>21</u>	<u>171</u>
P 9		<u>24</u>	<u>471</u>			<u>24</u>	<u>231</u>
P10						<u>27</u>	<u>297</u>
P11						<u>30</u>	<u>362</u>
P12						<u>33</u>	<u>412</u>
P13						<u>36</u>	<u>460</u>
P14						<u>39</u>	<u>498</u>
P15						<u>42</u>	<u>521</u>
P16							
P17							
P18							
P19							
P20							