



WESTERN TESTING CO., INC.
FORMATION TESTING

OK
TICKET NO 4888

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

Elevation 1840 KIB Formation INDIAN CAVES Eff. Pay Ft.

District Staff Date 5-17-84 Customer Order No.

COMPANY NAME F.B. Holl

ADDRESS 6427 E. Kellogg, Wichita Ks, 67207

LEASE AND WELL NO. ROSE "1-8" COUNTY Barber STATE Ks Sec. 8 Twp. 30S Rge. 12W

Mail Invoice To #1-8 "A" ROSE same Address No. Copies Requested req

Co. Name same Address No. Copies Requested req

Mail Charts To same Address No. Copies Requested req

Formation Test No. 1 Interval Tested From 2771 ft. to 2799 ft. Total Depth 2799 ft.

Packer Depth 2766 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Packer Depth 2771 ft. Size 6 5/8 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 2774 ft. Recorder Number 6074 Cap. 5100

Bottom Recorder Depth (Outside) 2777 ft. Recorder Number 6246 Cap. 5200

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

Drilling Contractor Sterling Drilling Co Drill Collar Length 464 I. D. 2.25 in.

Mud Type premix-starch Viscosity 4 Weight Pipe Length - I. D. - in.

Weight 9.3 Water Loss 14.4 cc. Drill Pipe Length 7789 I. D. 3.8 in.

Chlorides 3600 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 in.

Jars: Make WTC Serial Number 3922 Anchor Length 28 ft. Size 5 1/2 in.

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

Main Hole Size 7/16 in. Tool Joint Size 3 1/2 IF 4 1/2 FH in.

Blow: Strong blow through initial flow period : Gas to surface in 40 min
in final flow.

Recovered 1350 ft. of Gasly salt water.

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Recovered - ft. of

Chlorides 94000 P.P.M. Sample Jars used 2 Remarks: in weak blow
gas actually. to, unable to gauge

Time On Location 6:30 PM Time Pick Up Tool 8:20 PM Time Off Location 3:45 PM

Time Set Packer(s) 10:30 PM Time Started Off Bottom 1:00 AM Maximum Temperature 117°

Initial Hydrostatic Pressure (A) 1482 P.S.I.

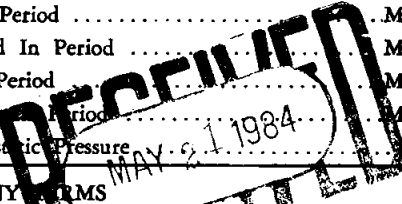
Initial Flow Period Minutes 30 (B) 204 P.S.I. to (C) 358 P.S.I.

Initial Closed In Period Minutes 30 (D) 971 P.S.I.

Final Flow Period Minutes 60 (E) 460 P.S.I. to (F) 677 P.S.I.

Final Closed In Period Minutes 30 (G) 971 P.S.I.

Final Hydrostatic Pressure (H) 1392 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 W. Ben Bidler 2075
Signature of Customer or his authorized representative

Western Representative Mike Jutt - Thank You!

FIELD INVOICE

Open Hole Test	\$ <u>1550</u>
Misrun	\$
Straddle Test	\$
Jars	\$ <u>300</u>
Selective Zone	\$
Safety Joint	\$ <u>65</u>
Standby	\$
Evaluation	\$
Extra Packer	\$
Circ. Sub.	\$ <u>35</u>
Mileage	\$
Fluid Sampler	\$
Extra Charts	\$
Insurance	\$ <u>50</u>
Telecopier	\$
TOTAL	\$ <u>1550</u>

WESTERN TESTING CO., INC.
Pressure Data

Date 5-17
Recorder No. 6074
Clock No. _____

Test Ticket No. 4888
Location _____ Ft.
Elevation _____ Well Temperature _____ °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1489</u> P.S.I.	Open Tool		M
B First Initial Flow Pressure	<u>219</u> P.S.I.	First Flow Pressure	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>391</u> P.S.I.	Initial Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>985</u> P.S.I.	Second Flow Pressure	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>464</u> P.S.I.	Final Closed-in Pressure	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>698</u> P.S.I.			
G Final Closed-in Pressure	<u>968</u> P.S.I.			
H Final Hydrostatic Mud	<u>1390</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: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

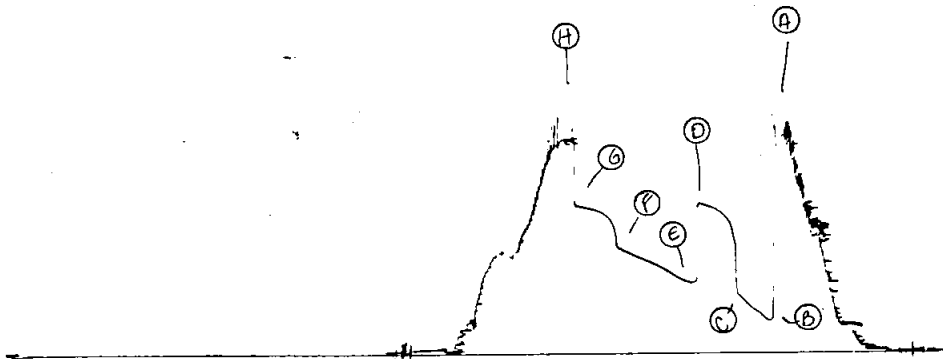
Final Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1	<u>0</u>	<u>219</u>	<u>0</u>	<u>391</u>	<u>0</u>	<u>464</u>	<u>0</u>	<u>698</u>
P 2	<u>5</u>	<u>223</u>	<u>3</u>	<u>766</u>	<u>5</u>	<u>464</u>	<u>3</u>	<u>841</u>
P 3	<u>10</u>	<u>265</u>	<u>6</u>	<u>856</u>	<u>10</u>	<u>476</u>	<u>6</u>	<u>894</u>
P 4	<u>15</u>	<u>293</u>	<u>9</u>	<u>899</u>	<u>15</u>	<u>498</u>	<u>9</u>	<u>916</u>
P 5	<u>20</u>	<u>335</u>	<u>12</u>	<u>926</u>	<u>20</u>	<u>524</u>	<u>12</u>	<u>928</u>
P 6	<u>25</u>	<u>375</u>	<u>15</u>	<u>943</u>	<u>25</u>	<u>550</u>	<u>15</u>	<u>940</u>
P 7	<u>30</u>	<u>391</u>	<u>18</u>	<u>957</u>	<u>30</u>	<u>574</u>	<u>18</u>	<u>946</u>
P 8	<u>35</u>		<u>21</u>	<u>964</u>	<u>35</u>	<u>596</u>	<u>21</u>	<u>952</u>
P 9	<u>40</u>		<u>24</u>	<u>972</u>	<u>40</u>	<u>613</u>	<u>24</u>	<u>958</u>
P 10	<u>45</u>		<u>27</u>	<u>979</u>	<u>45</u>	<u>633</u>	<u>27</u>	<u>964</u>
P 11	<u>50</u>		<u>30</u>	<u>985</u>	<u>50</u>	<u>652</u>	<u>30</u>	<u>968</u>
P 12	<u>55</u>		<u>33</u>		<u>55</u>	<u>674</u>	<u>33</u>	
P 13	<u>60</u>		<u>35</u>		<u>60</u>	<u>698</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>	

YCC# 4888

6074
DST#1

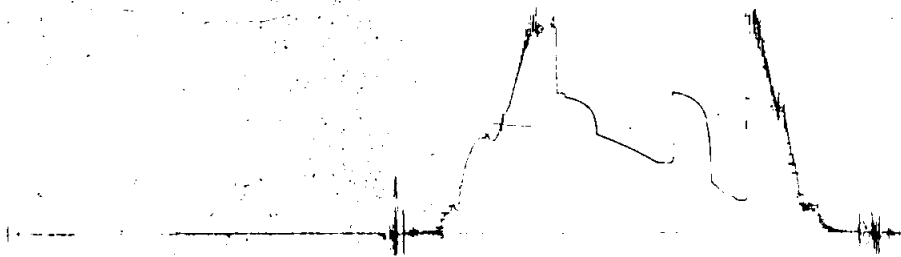
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LC# 4888

6246
DST #1

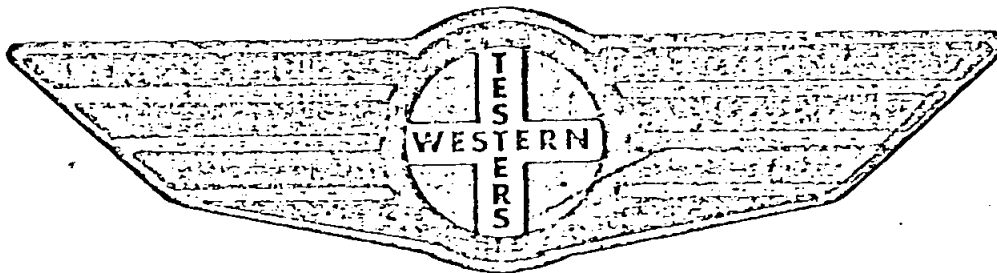
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ F G HOLL _____ Lease and Well No. _____ #1-8 "A" ROSE _____ Sec. 8 _____ Twp. 30S Rge. 12W Test No. 1 Date 5/17/78

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5/17/84
CUSTOMER: F.G. HOLL
WELL: #1-8
ELEVATION (KB): 1840
SECTION: 8
RANGE: 12W
GAUGE SN #6074

TEST: 1
FORMATION: INDIAN CAVE
TOWNSHIP: 30S
COUNTY: BARBER
RANGE: 5100

TICKET #4888
LEASE: ROSE "A"
GEOLOGIST: BIDLEMAN
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 2771 FT TO: 2799 FT TOTAL DEPTH: 2799 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2766 FT SIZE: 6 5/8 IN PACKER DEPTH: 2771 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING

MUD TYPE: PRMX-STACH VISCOSITY: 41
WEIGHT: 9.3 WATER LOSS (CC): 14.4

CHLORIDES (P.P.M.): 3600

JARS - MAKE: W.T.C.

SERIAL NUMBER: 3922

DID WELL FLOW? NO

REVERSED OUT? YES

DRILL COLLAR LENGTH: 464 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2279 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 28 FT SIZE: 5 1/2 O.D. IN
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: INITIAL FLOW PERIOD STRONG BLOW THROUGHOUT.
FINAL FLOW PERIOD GAS TO SURFACE
IN 40 MINUTES.

RECOVERED: 1350 FT OF: GASSY SALT WATER; CHLORIDES 94000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: GAS TO WEAK TO GAUGE ON FINAL FLOW PERIOD.

TIME SET PACKER(S): 10:30 P.M.

TIME STARTED OFF BOTTOM: 1:00 A.M.

WELL TEMPERATURE: 117 °F

INITIAL HYDROSTATIC PRESSURE: (A) 1489 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 219 PSI TO (C) 391 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 985 PSI
FINAL FLOW PERIOD MIN: 60 (E) 464 PSI TO (F) 698 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 968 PSI
FINAL HYDROSTATIC PRESSURE (H) 1390 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET NO. *4889*

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

Elevation *1840 K.B* Formation *Douglas Sand* Eff. Pay _____ Ft.

District *PAFT* Date *5-20-84* Customer Order No. _____

COMPANY NAME *F.L. Hall* ADDRESS *6427 East Kellogg Wichita, Ks. 67207*

LEASE AND WELL NO. *Rose A-1-8* COUNTY *Barber* STATE *Ks.* Sec. *8* Twp. *30S* Rge. *12W*

Mail Invoice To *same* Co. Name *#1-8 "A" ROSE* Address *same* No. Copies Requested *req*

Mail Charts To *same* Address *same* No. Copies Requested *req*

Formation Test No. *2* Interval Tested From *3740* ft. to *3779* ft. Total Depth *3779* ft.
Packer Depth *3735* ft. Size *6 5/8* in. Packer Depth _____ ft. Size _____ in.
Packer Depth *3740* ft. Size *6 5/8* in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) *3743* ft. Recorder Number *6074* Cap. *5100*
Bottom Recorder Depth (Outside) *3746* ft. Recorder Number *6246* Cap. *5200*
Below Saddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____

Drilling Contractor *Sterling Drlg.* Drill Collar Length *464* I. D. *2.25* in.
Mud Type *General, premia, drs* Viscosity *43* Weight Pipe Length _____ I. D. _____ in.
Weight *9.3* Water Loss *15.2* cc. Drill Pipe Length *3248* I. D. *3.8* in.
Chlorides *20000* P.P.M. Test Tool Length *28* ft. Tool Size *5 1/2 OD* in.
Jars: Make *W.T.C.* Serial Number *3922* Anchor Length *39* ft. Size *5 1/2 OD* in.
Did Well Flow? *No* Reversed Out _____ Surface Choke Size *3/4* in. Bottom Choke Size *3/4* in.
Main Hole Size *1 1/8* in. Tool Joint Size *3 1/2 x 4 1/2* in.

Blow: *Weak blow building to a good blow on initial flow period. Weak building to good steady blow final flow period.*

Recovered *160* ft. of *400 in pipe*
Recovered *150* ft. of *slightly oil & gas cut mud* 15% gas 5% oil 15 water 65% mud
Recovered *70* ft. of *"* 5% 5% 50% 40% mud
Recovered *60* ft. of *"* 5% 5% 50% 40% mud
Recovered _____ ft. of _____

Chlorides *22,000* P.P.M. Sample Jars used *2* Remarks: *Tight Hole*

Time On Location *2:40* (AM) Time Pick Up Tool *6:00* (AM) Time Off Location *1:20* (AM)
Time Set Packer(s) *8:00* (AM) Time Started Off Bottom *10:30* (AM) Maximum Temperature *117*

Initial Hydrostatic Pressure _____ (A) *1915* P.S.I.
Initial Flow Period _____ Minutes *30* (B) *63* P.S.I. to (C) *63* P.S.I.
Initial Closed In Period _____ Minutes *30* (D) *166* P.S.I.
Final Flow Period _____ Minutes *60* (E) *81* P.S.I. to (F) *89* P.S.I.
Final Closed In Period _____ Minutes *30* (G) *524* P.S.I.
Final Hydrostatic Pressure _____ (H) *1861* 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 *W. Bruce Billena*
Signature of Customer or his authorized representative
Western Representative *Mika Jutt - Thank You!* *2075*

FIELD INVOICE

Open Hole Test	\$ <i>550</i>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ <i>300</i>
Selective Zone	\$ _____
Safety Joint	\$ <i>65</i>
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ _____
Mileage	\$ _____
Fluid Sampler	\$ _____
Extra Charts	\$ _____
Insurance	\$ <i>50</i>
Telecopier	\$ _____
TOTAL	\$ _____

WESTERN TESTING CO., INC.

Pressure Data

Date 5-20.
 Recorder No. 6074
 Clock No.

Test Ticket No. 4889
 Capacity Location Ft.
 Well Temperature °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1928</u> P.S.I.		
B First Initial Flow Pressure	<u>71</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>76</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>173</u> P.S.I.	<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>94</u> P.S.I.	<u>30</u> Mins.	<u>30</u> Mins.
F Second Final Flow Pressure	<u>104</u> P.S.I.		
G Final Closed-in Pressure	<u>541</u> P.S.I.		
H Final Hydrostatic Mud	<u>1801</u> P.S.I.		

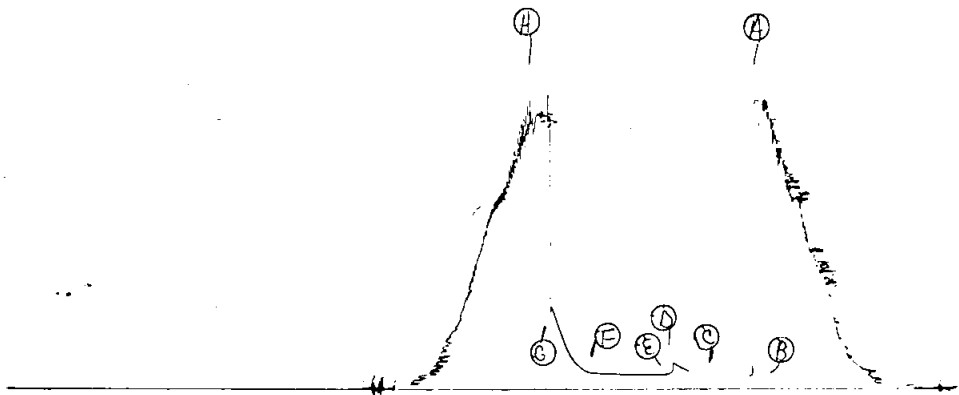
PRESSURE BREAKDOWN

Point Mins.	First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.	Breakdown:	Inc.
	of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.		of <u>5</u> mins. and a final inc. of <u>0</u> Min.		of <u>3</u> mins. and a final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.	
P 1 0	<u>71</u>	0	<u>76</u>	0	<u>94</u>	0	<u>104</u>	
P 2 5		3	<u>78</u>	3		3	<u>112</u>	
P 3 10		6	<u>81</u>	6		6	<u>124</u>	
P 4 15		9	<u>90</u>	9		9	<u>147</u>	
P 5 20		12	<u>100</u>	12		12	<u>170</u>	
P 6 25	<u>71</u>	15	<u>110</u>	15		15	<u>207</u>	
P 7 30	<u>76</u>	18	<u>120</u>	18	<u>94</u>	18	<u>251</u>	
P 8 35		21	<u>133</u>	21	<u>94</u>	21	<u>315</u>	
P 9 40		24	<u>148</u>	24	<u>95</u>	24	<u>383</u>	
P10 45		27	<u>164</u>	27	<u>97</u>	27	<u>457</u>	
P11 50		30	<u>173</u>	30	<u>100</u>	30	<u>541</u>	
P12 55		33		33	<u>102</u>	33		
P13 60		36		36	<u>104</u>	36		
P14		39		39		39		
P15		42		42		42		
P16		45		45		45		
P17		48		48		48		
P18		51		51		51		
P19		54		54		54		
P20		57		57		57		
		60		60		60		

TKT # 4889

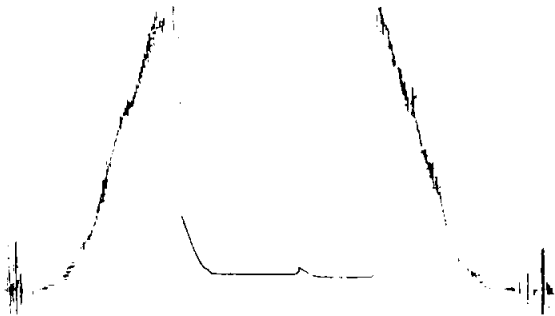
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DST #2

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TKT# 4889

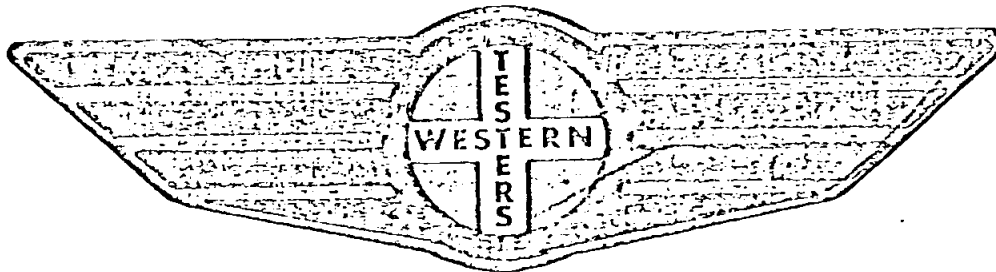
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DST#2



FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company F G HOLL Lease and Well No. #1-8 "A" ROSE Sec. 8 Twp. 30S Rge. 12W Test No. 2 Date 5/20/87

WESTERN TESTING CO. INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5/20/84 TICKET #4889
CUSTOMER: F.G. HOLL LEASE: "A" ROSE
WELL: 1-8 TEST: 2 GEOLOGIST: BIDLEMAN
ELEVATION (KB): 1840 FORMATION: DOUGLAS SAND
SECTION: 8 TOWNSHIP: 30S
RANGE: 12W COUNTY: BARBER STATE: KANSAS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

INTERVAL TEST FROM: 3740 FT TO: 3779 FT TOTAL DEPTH: 3779 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3735 FT SIZE: 6 5/8 IN PACKER DEPTH: 3740 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING DRLLG
MUD TYPE: CHEMPREDRS VISCOSITY: 43
WEIGHT: 9.3 WATER LOSS (CC): 15.2
CHLORIDES (P.P.M.): 20000
JARS - MAKE: WTC SERIAL NUMBER: 3922
DID WELL FLOW? NO REVERSED OUT?
DRILL COLLAR LENGTH: 464 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3248 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 OD IN
ANCHOR LENGTH: 39 FT SIZE: 5 1/2 OD IN
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: INITIAL FLOW PERIOD WEAK BLOW
BUILDING TO A GOOD BLOW.
FINAL FLOW PERIOD WEAK BLOW BUILDING
TO A GOOD STEADY BLOW.

RECOVERED: 160 FT OF: GAS ABOVE FLUID.
RECOVERED: 70 FT OF: SLIGHTLY OIL & GAS CUT MUD.
RECOVERED: FT OF: 15% GAS; 5% OIL; 15% WATER; 65% MUD.
RECOVERED: 60 FT OF: SLIGHTLY OIL & GAS CUT MUD.
RECOVERED: FT OF: 5% GAS; 5% OIL; 50% WATER; 40% MUD.
RECOVERED: FT OF: CHLORIDES 22000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: TIGHT HOLE.

TIME SET PACKER(S): 8:00 AM TIME STARTED OFF BOTTOM: 10:30 AM
WELL TEMPERATURE: 117 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1928 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 71 PSI TO (C) 76 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 173 PSI
FINAL FLOW PERIOD MIN: 60 (E) 94 PSI TO (F) 104 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 541 PSI
FINAL HYDROSTATIC PRESSURE (H) 1801 PSI



WESTERN TESTING CO., INC.
FORMATION TESTING

TICKET

Nº *OK* 4890

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

Elevation 1840 K.B Formation MASSEY Eff. Pay _____ Ft.

District PRATT Date 5-21-84 Customer Order No. _____

COMPANY NAME H140 FL Hall

ADDRESS 4427 East Kellogg Wichita, Ks 67207

LEASE AND WELL NO. Rose A#1-8 COUNTY Barber STATE Ks Sec. 8 Twp 30s Rge 12w

Mail Invoice To _____ Co. Name #1-8 "A" ROSE Address same No. Copies Requested req

Mail Charts To _____ Co. Name #1-8 "A" ROSE Address same No. Copies Requested req

Formation Test No. 3 Interval Tested From 4300 ft. to 4342 ft. Total Depth 4342 ft.

Packer Depth 4295 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 4300 ft. Size 6 5/8 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 4303 ft. Recorder Number 6024 Cap. 5100

Bottom Recorder Depth (Outside) 4306 ft. Recorder Number 6246 Cap. 5200

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

Drilling Contractor Sterling Drilling Co Drill Collar Length 464 I. D. 2.25 in.

Mud Type Premix Chemical Viscosity 40 Weight Pipe Length _____ I. D. _____ in.

Weight 9.5 Water Loss 20.8 cc. Drill Pipe Length 3708 I. D. 3.8 in.

Chlorides 20,000 P.P.M. Test Tool Length 28 ft. Tool Size 5 1/2 00 in.

Jars: Make WTC Serial Number 3922 Anchor Length 42 ft. Size 5 1/2 00 in.

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

Main Hole Size 7 7/8 in. Tool Joint Size 3 1/2 Hex in.

Blow: Very strong blow gas to surface 20 min. (see charts)

Recovered 2400 ft. of oil pipe

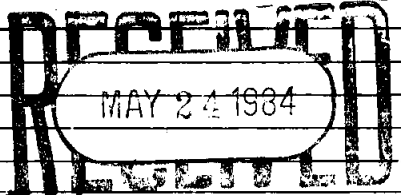
Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Chlorides _____ P.P.M. Sample Jars used _____ Remarks: TIGHT HOLE!!



Time On Location 8:45 ^{AM}/_{P.M.} Time Pick Up Tool 9:15 ^{AM}/_{P.M.} Time Off Location 8:30 ^{AM}/_{P.M.}

Time Set Packer(s) 10:45 ^{AM}/_{P.M.} Time Started Off Bottom 1:15 ^{AM}/_{P.M.} Maximum Temperature 128°

Initial Hydrostatic Pressure _____ (A) 2363 P.S.I.

Initial Flow Period _____ Minutes 30 (B) 166 P.S.I. to (C) 204 P.S.I.

Initial Closed In Period _____ Minutes 30 (D) 1456 P.S.I.

Final Flow Period _____ Minutes 60 (E) 268 P.S.I. to (F) 434 P.S.I.

Final Closed In Period _____ Minutes 30 (G) 1329 P.S.I.

Final Hydrostatic Pressure _____ (H) 2158 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 W. Bruce Bidler
Signature of Customer or his authorized representative

Western Representative Mike Witt - Thank You!

FIELD INVOICE

Open Hole Test	\$ <u>575</u>
Misrun	\$ _____
Straddle Test	\$ _____
Jars	\$ <u>500</u>
Selective Zone	\$ _____
Safety Joint	\$ <u>65</u>
Standby	\$ _____
Evaluation	\$ _____
Extra Packer	\$ _____
Circ. Sub.	\$ <u>35</u>
Mileage	\$ _____
Fluid Sampler	\$ _____
Extra Charts	\$ _____
Insurance	\$ <u>50</u>
Telecopier	\$ _____
TOTAL	\$ <u>1160</u>



Nº 3869

GAS FLOW REPORT

Date 5-21-84 Ticket 4890 Company F. L. Holl
 Well Name and No. Rose A #1-8 Dst No. 3 Interval Tested 4300-4342
 County BARBER State Ks. Sec. 8 Twp. 30S Rg. 12W

Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	Size of Orifice	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	Description of Flow
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PRE FLOW

30.	4#	1/2"			gas to surface 20 min. 68,800 cFpd (initial gauge 336,000 mcfpd)

SECOND FLOW

10	2#	1/4"			12,400 cFpd
20	6#	}			22,900
30	4#				18,500
40	2#				12,700
50	5#				5
60	2#	1/4"			12,700

GAS BOTTLE

Serial No. _____ Date Bottle Filled _____ Date to be Invoiced _____

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1 1/2% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME _____

Authorized by _____

WESTERN TESTING CO., INC.

Pressure Data

Date 5-21

Test Ticket No. 4890

Recorder No. 6074

Capacity _____ Location _____ Ft.

Clock No. _____

Elevation _____ Well Temperature _____ °F

Point	Pressure	P.S.I.	Open Tool	M	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2370</u>	P.S.I.				
B First Initial Flow Pressure	<u>171</u>	P.S.I.	First Flow Pressure		<u>30</u> Mins.	<u>30</u> Mins.
C First Final Flow Pressure	<u>217</u>	P.S.I.	Initial Closed-in Pressure		<u>30</u> Mins.	<u>30</u> Mins.
D Initial Closed-in Pressure	<u>1458</u>	P.S.I.	Second Flow Pressure		<u>60</u> Mins.	<u>60</u> Mins.
E Second Initial Flow Pressure	<u>285</u>	P.S.I.	Final Closed-in Pressure		<u>30</u> Mins.	<u>33</u> Mins.
F Second Final Flow Pressure	<u>442</u>	P.S.I.				
G Final Closed-in Pressure	<u>1356</u>	P.S.I.				
H Final Hydrostatic Mud	<u>2169</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: 11 Inc.
of 3 mins. and a
final inc. of 0 Min.

Second Flow Pressure
Breakdown: 13 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In
Breakdown: 12 Inc.
of 3 mins. and a
final inc. of 0 Min.

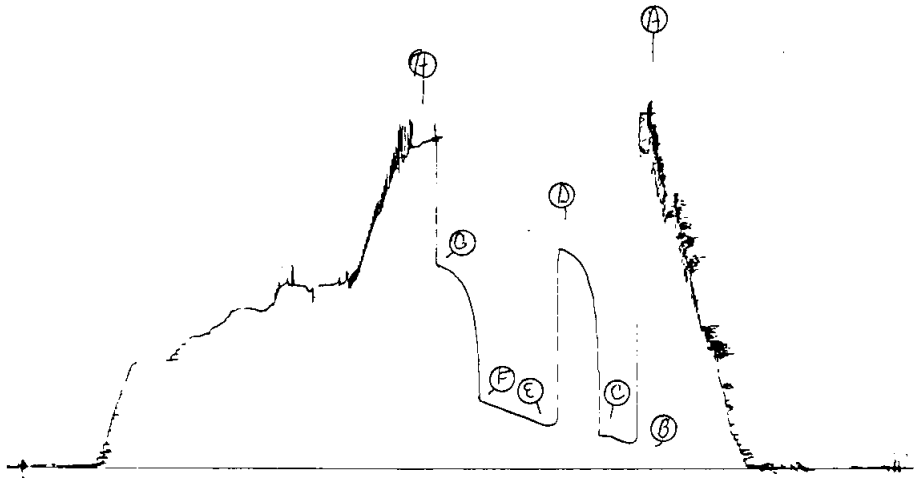
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 0	<u>171</u>	0	<u>217</u>	0	<u>285</u>	0	<u>442</u>
P 2 5	<u>171</u>	3	<u>866</u>	5	<u>285</u>	3	<u>886</u>
P 3 10	<u>191</u>	6	<u>1132</u>	10	<u>285</u>	6	<u>1056</u>
P 4 15	<u>217</u>	9	<u>1223</u>	15	<u>297</u>	9	<u>1145</u>
P 5 20	<u>(</u>	12	<u>1304</u>	20	<u>316</u>	12	<u>1207</u>
P 6 25	<u>(</u>	15	<u>1359</u>	25	<u>334</u>	15	<u>1250</u>
P 7 30	<u>217</u>	18	<u>1392</u>	30	<u>349</u>	18	<u>1275</u>
P 8 35		21	<u>1415</u>	35	<u>362</u>	21	<u>1303</u>
P 9 40		24	<u>1431</u>	40	<u>380</u>	24	<u>1320</u>
P10 45		27	<u>1448</u>	45	<u>399</u>	27	<u>1332</u>
P11 50		30	<u>1458</u>	50	<u>413</u>	30	<u>1344</u>
P12 55		33		55	<u>431</u>	33	<u>1356</u>
P13 60		36		60	<u>442</u>	36	
P14		39		65		39	
P15		42		70		42	
P16		45		75		45	
P17		48		80		48	
P18		51		85		51	
P19		54		90		54	
P20		57				57	
WTC - 4		60				60	

TK7 # 4890

Truck 7810

4214
DST #3

II



TKT # 4890

62710 4890
DST # 3

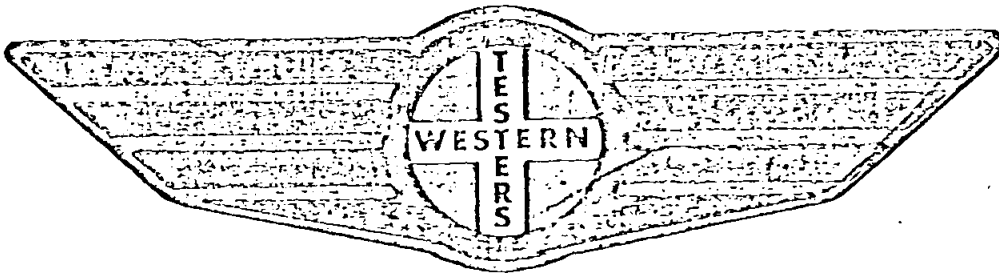
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FORMATION

TEST

REPORT



Home Office:

Wichita, Kansas 67201

P.O. Box 1599

Phone (316) 262-5861

Company _____ F G HOLL _____ Lease and Well No. _____ #1-8 "A" ROSE _____ Sec. 8 _____ Twp. 30S Rge. 12W Test No. 3 Date 5/21/84

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

DATE: 5/21/84
CUSTOMER: F.G.HOLL
WELL: #1-8
ELEVATION (KB): 1840
SECTION: 8
RANGE: 12W
GAUGE SN #6074

TEST: 3
FORMATION: MASSEY
TOWNSHIP: 30S
COUNTY: BARBER
RANGE: 5100

TICKET #4890
LEASE: ROSE "A"
GEOLOGIST: BIDLEMAN
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4300 FT TO: 4342 FT TOTAL DEPTH: 4342 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4395 FT SIZE: 6 5/8 IN PACKER DEPTH: 4300 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: STERLING
MUD TYPE: PRMXCHMDRI VISCOSITY: 40
WEIGHT: 9.5 WATER LOSS (CC): 20.8
CHLORIDES (P.P.M.): 20000
JARS - MAKE: W.T.C. SERIAL NUMBER: 3922
DID WELL FLOW? NO REVERSED OUT? YES
DRILL COLLAR LENGTH: 464 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3708 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 42 FT SIZE: 5 1/2 O.D. IN
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 STRONG BLOW; GAS TO SURFACE
IN 20 MINUTES. SEE GAS CHART.

RECOVERED: 2400 FT OF: FREE OIL.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: TIGHT HOLE.

TIME SET PACKER(S): 10:45 P.M. TIME STARTED OFF BOTTOM: 1:15 A.M.
WELL TEMPERATURE: 128 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2370 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 171 PSI TO (C) 217 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 1458 PSI
FINAL FLOW PERIOD MIN: 60 (E) 285 PSI TO (F) 442 PSI
FINAL CLOSED IN PERIOD MIN: 33 (G) 1356 PSI
FINAL HYDROSTATIC PRESSURE (H) 2169 PSI

WESTERN TESTING COMPANY INC.
GAS FLOW REPORT

DATE: 5/21/84
CUSTOMER: F.G.HOLL
WELL: #1-8
ELEVATION (KB): 1840
SECTION: 8
RANGE: 12W
GAUGE SN #6074

TEST: 3
COUNTY: BARBER
RANGE: 5100

TICKET #4890
LEASE: ROSE "A"
GEOLOGIST: BIDLEMAN
FORMATION: MASSEY
TOWNSHIP: 30S
STATE: KANSAS
CLOCK: 12

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
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PRE FLOW

30	MERLA	1/2	4 PSIG	68800 CFPD
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SECOND FLOW

10	MERLA	1/4	2 PSIG	12700 CFPD
20		"	6 PSIG	22900 " "
30		"	4 PSIG	18500 " "
40		"	2 PSIG	12700 " "
50		"	2 PSIG	12700 " "
60		"	2 PSIG	12700 " "

GAS BOTTLE SN #:
DATE BOTTLE FILLED:
DATE TO BE INVOICED: