

F.G. Hall Co.
Powell 1-9

9-215-14w
15-185-23213

ORIGINAL

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 12-14-2004 Location 100 1/2 mi N 1/2 E 1/4 21-14W Elevation 1936 K.B County Stafford

Company F.G. Hall Company LLC Number of Copies 5

Parts Mailed to 9431 East Central Suite 100 Wichita, Kansas 67206-2543

Drilling Contractor Duke Drilling Rig #8

Length Drill Pipe 2608 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X 1 1/2"

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 2629 Bottom Packer Depth 2634 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 2634 TO 2709 ANCHOR LENGTH 75 TOTAL DEPTH 2709 Hole Size 2 7/8"

EASE & WELL NO. POWELL #1-9 FORMATION TESTED LAVADON TEST NO. 1

Fluid Weight 8.4 Viscosity 62 Water Loss 6.4 Chlorides - Pits 3500 D.S.T. 112000

Maximum Temp. _____ °F Initial Hydrostatic Pressure (A) 1263 P.S.I. Final Hydrostatic Pressure (H) 1241 P.S.I.

Tool Open I.F.P. from 1:45 A.M. to 2:00 A.M. 15 min

Tool Closed I.C.I.P. from 2:00 A.M. to 3:00 A.M. 60 min

Tool Open F.F.P. from 3:00 A.M. to 3:30 A.M. 30 min

Tool Closed F.C.I.P. from 3:30 A.M. to 4:30 A.M. 60 min

from [B] <u>89</u> P.S.I. to [C] <u>100</u> P.S.I.
[D] <u>865</u> P.S.I.
from [E] <u>133</u> P.S.I. to [F] <u>178</u> P.S.I.
[G] <u>865</u> P.S.I.

Initial Blow Fair blow built to the bottom of a 5 Gallon bucket in 9 minutes

Final Blow Fair, blow built to the bottom of a 5 Gallon bucket in 11 minutes

Total Feet Recovered _____ Gravity of Oil _____ Corrected

125 Feet of Thick Heavy mud % Gas _____ % Oil _____ % Mud _____ % Water _____

50 Feet of muddy water - chlorides 112000 % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Remarks _____

Extra Equipment - Jars YE Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 78225 Clock No. Electronic Depth 2702 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 11095 Clock No. 47441 Depth 2706 Insurance NONE

Price of Job _____

Tool Operator Gene Buldy

Approved By _____ No. 12430

Superior Testers Enterprises, Inc. shall not be liable for damage 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, or its statements or opinion concerning the results of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas

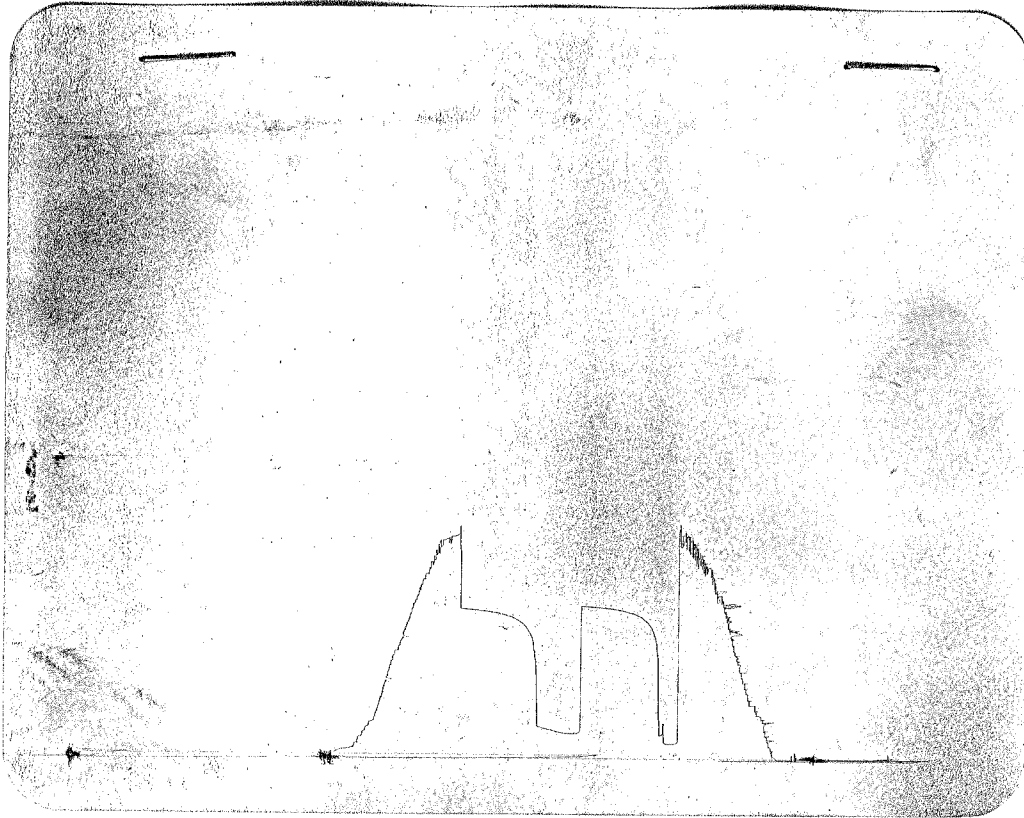
CHART DATA

(316) 792-6902

State KANSAS
County BARTON
Field

Test Date December 14, 2003
Sec Town Range 9-21S-14W
Report Number 12430

ORIGINAL



Field Reading

(1)	Initial Hydrostatic Pressure	1263
(2)	Initial Flow Pressure	89
(3)	Final Initial Flow Pressure	100
(4)	Initial Shut-In Pressure	865
(5)	Initial Final Flow Pressure	133
(6)	Final Flow Pressure	178
(7)	Final Shut-In Pressure	865
(8)	Final Hydrostatic Pressure	1241

ELECTRONIC RECORDER DEPTH 2702 FT, RECORDER NUMBER 78225

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. POWELL #14
21S RGE. 14W
1-9
Est #: 1 Date: 12-14-2003 Sec. 9 14W

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	F.G.HOLL COMPANY L.L.C	LEASE AND WELL NUMBER	POWELL #1-9
TEST DATE	12/14/03	FORMATION TESTED	LANGDON SAND
SECTION-TOWN-RANGE	9-21S-14W	DRILL STEM TEST NUMBER	1
STATE	KANSAS	REPORT NUMBER	12430
COUNTY	BARTON	ELEVATION KELLY BUSHINGS	1936
ELEVATION GROUND LEVEL	1928	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	BILL REE		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	2634	TOP PACKER DEPTH	2629
TEST INTERVAL (to)	2709	BOTTOM PACKER DEPTH	2634
ANCHOR LENGTH	75	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	2709	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

<i>INITIAL OPEN</i>	
TOOL OPEN (from)	1:45
TOOL OPEN (to)	2:00
DURATION (min.)	15
<i>INITIAL SHUT-IN</i>	
TOOL CLOSED (from)	2:00
TOOL CLOSED (to)	3:00
DURATION (min.)	60
<i>FINAL OPEN</i>	
TOOL OPEN (from)	3:00
TOOL OPEN (to)	3:30
DURATION (min.)	30
<i>FINAL SHUT-IN</i>	
TOOL CLOSED (from)	3:30
TOOL CLOSED (to)	4:30
DURATION (min.)	60

PRESSURE READINGS

INITIAL HYDROSTATIC	1263
INITIAL FLOW	89
FINAL INITIAL FLOW	100
INITIAL SHUT-IN	865
INITIAL FINAL FLOW	133
FINAL FLOW	178
FINAL SHUT-IN	865
FINAL HYDROSTATIC	1241
MAXIMUM TEMPERATURE	
TOP RECORDER DEPTH	2702
RECORDER NUMBER	78225
BOTTOM RECORDER DEPTH	2706
RECORDER NUMBER	11088

INITIAL BLOW

FAIR BLOW BUILT TO THE BOTTOM OF THE BUCKET IN 9 MINUTES

FINAL BLOW

FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 11 MINUTES

EXTRA EQUIPMENT

JARS	YES	EXTRA PACKER (3RD)	NO
SAFETY JOINT	YES	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YES	STRADDLE	NO
CIRCULATING SUB	NO	HOOK WALL	NO
		SAMPLER	NO

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **DUKE DRILLIN RIG #8**

DRILL PIPE LENGTH **2608**

DRILL PIPE I.D. **3.8**

TOOL JOINT SIZE **4 1/2 X.H.**

DRILL COLLAR LENGTH

DRILL COLLAR I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

WEIGHT PIPE LENGTH

WEIGHT PIPE I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

MUD WEIGHT #/GAL **8.6**

VISCOSITY **62**

WATER LOSS **6,4**

CHLORIDES-PITS **3500**

CHLORIDES-DST **112000**

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	125	thick heavy mud				
2)	150	mussy water chlorides 112000				
3)						
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						

TOTAL RECOVERY

COMMENTS

Superior Testers Enterprises, Inc. ORIGINAL

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

1936 KB
1928 GL County Shelford

Date 12-17-2003 Location 100° N 5 1/2 N 1/2 E 9-21 1/2 - 14 W Elevation 1928 GL County Shelford

Company F.C. Hohl Company L.L.C. Number of Copies 2

Charts Mailed to 9431 East Central Suite 700 Wichita Kansas 67206-2543

Drilling Contractor Duke Drilling Rig #8

Length Drill Pipe 3567 I.D. Drill Pipe _____ Tool Joint Size 2 1/2" X 11.

Length Weight Pipe NONE I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 3588 Bottom Packer Depth 3593 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3593 TO 3640 ANCHOR LENGTH 47 TOTAL DEPTH 3640 Hole Size 7 7/8

LEASE & WELL NO. POWELL # 1-9 FORMATION TESTED KANSAS CITY "L" - WARMON TEST NO. 2

Mud Weight 9.6 Viscosity 49 Water Loss 9.8 Chlorides - Pits 7000 D.S.T. 17

Maximum Temp. 99 °F Initial Hydrostatic Pressure (A) 1890 P.S.I. Final Hydrostatic Pressure (H) 1769 P.S.I.

Tool Open I.F.P. from 4:00 p.m. to 4:15 p.m. 15 min

Tool Closed I.C.I.P. from 4:15 p.m. to 4:45 p.m. 30 min

Tool Open F.F.P. from 4:45 p.m. to 5:00 p.m. 15 min

Tool Closed F.C.I.P. from 5:00 p.m. to 5:30 p.m. 30 min

Initial Blow WENT blow 5:01 for 7 minutes & DIED

Final Blow NO BLOW

Total Feet Recovered 10 Gravity of Oil _____ Corrected _____

10 Feet of Thick Heavy Mud % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

_____ Feet of _____ % Gas _____ % Oil _____ % Mud _____ % Water _____

Remarks _____

Extra Equipment - Jars YES Safety Joint NONE Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. _____ Clock No. ELECTRONIC Depth 3634 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 18008 Clock No. 47441 Depth 3637 Insurance NONE

Price of Job _____

Tool Operator Gene Rudy

Approved By _____
No 12431

from [B] <u>52</u> P.S.I. to [C] <u>975</u> P.S.I.
[D] <u>113</u> P.S.I.
from [E] <u>53</u> P.S.I. to [F] <u>55</u> P.S.I.
[G] <u>80</u> P.S.I.

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SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas

CHART DATA

(316) 792-6902

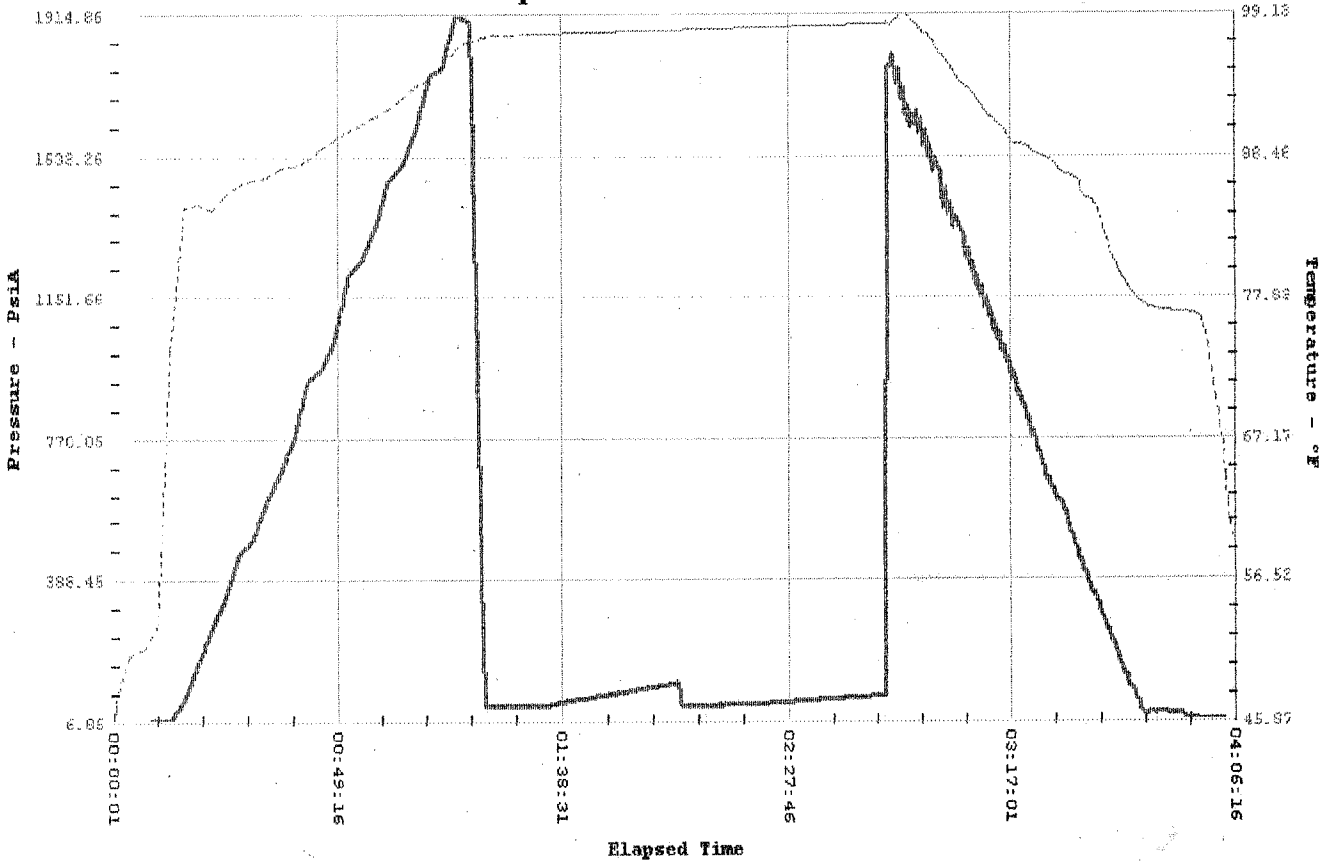
ORIGINAL

State KANSAS
 County STAFFORD
 Field

Test Date December 17, 2003
 Sec Town Range 9-21S-14W
 Report Number 12431

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. POWELL #1-9 Test #: 2 Date: 12-17-2003 SEC. 9 TWP. 21S
 RGE. 14W

Temperature / Pressure Data



Field Reading

(1)	Initial Hydrostatic Pressure	1890
(2)	Initial Flow Pressure	52
(3)	Final Initial Flow Pressure	53
(4)	Initial Shut-In Pressure	113
(5)	Initial Final Flow Pressure	53
(6)	Final Flow Pressure	55
(7)	Final Shut-In Pressure	80
(8)	Final Hydrostatic Pressure	1769

ELECTRONIC RECORDER DEPTH 3633 FT, RECORDER NUMBER 91791

SUPERIOR TESTERS ENTERPRISES INC.
DRILL STEM TEST REPORT
 GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME	F.G.HOLL COMPANY L.L.C.	LEASE AND WELL NUMBER	POWELL #1-9
TEST DATE	12/17/2003	FORMATION TESTED	KANSAS CITY "L" & MARMATC
SECTION-TOWN-RANGE	9-21S-14W	DRILL STEM TEST NUMBER	2
STATE	KANSAS	REPORT NUMBER	12431
COUNTY	STAFFORD	ELEVATION KELLY BUSHINGS	1936
ELEVATION GROUND LEVEL	1928	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	BILL REE		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	3693	TOP PACKER DEPTH	3588
TEST INTERVAL (to)	3640	BOTTOM PACKER DEPTH	3593
ANCHOR LENGTH	47	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	3640	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from)

TOOL OPEN (to)

DURATION (min.)

INITIAL SHUT-IN

TOOL CLOSED (from)

TOOL CLOSED (to)

DURATION (min.)

FINAL OPEN

TOOL OPEN (from)

TOOL OPEN (to)

DURATION (min.)

FINAL SHUT-IN

TOOL CLOSED (from)

TOOL CLOSED (to)

DURATION (min.)

PRESSURE READINGS

INITIAL HYDROSTATIC

INITIAL FLOW

FINAL INITIAL FLOW

INITIAL SHUT-IN

INITIAL FINAL FLOW

FINAL FLOW

FINAL SHUT-IN

FINAL HYDROSTATIC

MAXIMUM TEMPERATURE

TOP RECORDER DEPTH

RECORDER NUMBER

BOTTOM RECORDER DEPTH

RECORDER NUMBER

INITIAL BLOW **WEAK BLOW FOR 7 MINUTES AND DIED**

FINAL BLOW **NO BLOW**

EXTRA EQUIPMENT

JARS	YES	EXTRA PACKER (3RD)	NO
SAFETY JOINT	YES	EXTRA PACKER (4TH)	NO
ELECTRONIC RECORDER	YES	STRADDLE	NO
CIRCULATING SUB	NO	HOOK WALL	NO
		SAMPLER	NO

SUPERIOR TESTERS ENTERPRISES INC.
DRILL STEM TEST REPORT
 GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **F.G.HOLL COMPANY L.L.C**

DRILL PIPE LENGTH **3567**

DRILL PIPE I.D. **3.8**

TOOL JOINT SIZE **4 1/2 X.H.**

DRILL COLLAR LENGTH

DRILL COLLAR I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

WEIGHT PIPE LENGTH

WEIGHT PIPE I.D. **2.25**

TOOL JOINT SIZE **4 1/2 X.H.**

MUD WEIGHT #/GAL **9.6**

VISCOSITY **49**

WATER LOSS **9.8**

CHLORIDES-PITS **7000**

CHLORIDES-DST

FEET OF RECOVERY	RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1) 10	THICK HEAVY MUD				
2)					
3)					
4)					
5)					
6)					
7)					
8)					
9)					
10)					
11)					
12)					
13)					
14)					
15)					
	TOTAL RECOVERY				

COMMENTS

ORIGINAL

Superior Testers Enterprises, Inc.

R.R. 3, Box 295B, Great Bend, Kansas 67530

(316) 792-6902

Date 12-18-2003 Location 100° 11' 16" W - 36° 16' 16" N 9-21-14 Elevation 1936 KB 192866 County Stafford

Company F.C. Hall Company L.L.C. Number of Copies 5

Charts Mailed to 9431 East Central Suite 100 Wichita, Kansas 67206 - 2543

Drilling Contractor Duke Drilling #8

Length Drill Pipe I.D. Drill Pipe Tool Joint Size

Length Weight Pipe NDN 6 I.D. Weight Pipe NONE Tool Joint Size NONE

Length Drill Collars NONE I.D. Drill Collars NONE Tool Joint Size NONE

Top Packer Depth 3609 Bottom Packer Depth 3614 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3614 TO 3660 ANCHOR LENGTH 46 TOTAL DEPTH 3660 Hole Size 7 7/8"

EASE & WELL NO. POWELL #1-9 FORMATION TESTED Conglomerate TEST NO. 3

Mud Weight 9.3 Viscosity 40 Water Loss 10.3 Chlorides - Pits 7200 D.S.T.

Maximum Temp. 107 °F Initial Hydrostatic Pressure (A) 1802 P.S.I. Final Hydrostatic Pressure (H) 1812 P.S.I.

Tool Open I.F.P. from 9:00 A.m to 9:00 A.m 30 min

from [B] 59 P.S.I. to [C] 116 P.S.I.

Tool Closed I.C.I.P. from 9:30 A.m to 10:30 A.m 60 min

[D] 278 P.S.I.

Tool Open F.F.P. from 10:30 A.m to 11:30 A.m 60 min

from [E] 121 P.S.I. to [F] 162 P.S.I.

Tool Closed F.C.I.P. from 11:30 A.m to 1:30 P.m 120 min

[G] 265 P.S.I.

Initial Blow Fair blow built to the bottom of a 5 Gallon bucket in 15 minutes

Final Blow Fair blow built to the bottom of a 5 Gallon bucket in 23 minutes

Total Feet Recovered 280 Gravity of Oil Corrected

160 Feet of Heavy oil & Gas cut mud 30% Gas 28% Oil 42% Mud 0% Water

120 Feet of Heavy oil & Gas cut mud 30% Gas 18% Oil 52% Mud 0% Water

Feet of 280 % Gas % Oil % Mud % Water

220 Feet of Gas in the P.P. % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Feet of % Gas % Oil % Mud % Water

Remarks

Extra Equipment - Jars YES Safety Joint YES Extra Packer NONE Straddle NONE Hook Wall NONE

Top Recorder No. 91216 Clock No. Electronic Depth 3655 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 11088 Clock No. 47441 Depth 3657 Insurance NONE

Price of Job

Tool Operator Steve Buckley

Approved By No 12432

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SUPERIOR TESTERS ENTERPRISES INC.

Great Bend, Kansas

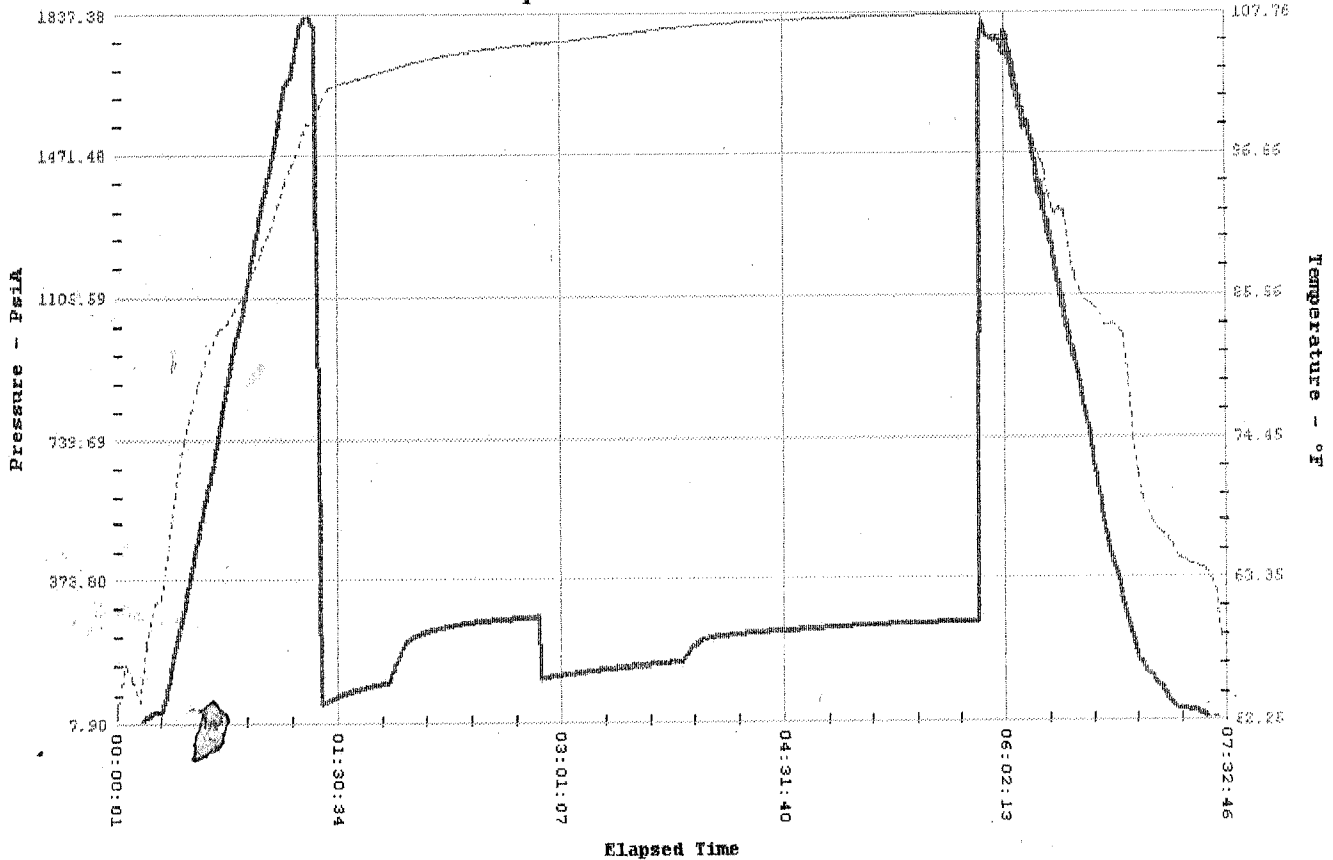
CHART DATA ORIGINAL (316) 792-6902

Company: **F.G.HOLL COMPANY L.L.C.** Lease & Well No. **POWELL #1-9** Test #: **3** Date: **12-18-2003** SEC. **9** TWP. **21S RGE. 14W**

State KANSAS
 County STAFFORD
 Field

Test Date December 18, 2003
 Sec Town Range 9-21S-14W
 Report Number 12432

Temperature / Pressure Data



Field Reading

(1)	Initial Hydrostatic Pressure	1802
(2)	Initial Flow Pressure	59
(3)	Final Initial Flow Pressure	116
(4)	Initial Shut-In Pressure	278
(5)	Initial Final Flow Pressure	121
(6)	Final Flow Pressure	162
(7)	Final Shut-In Pressure	265
(8)	Final Hydrostatic Pressure	1812

ELECTRONIC RECORDER DEPTH 3653 FT, RECORDER NUMBER 80507

SUPERIOR TESTERS ENTERPRISES INC.

DRILL STEM TEST REPORT

GREAT BEND, KANSAS 67530 (316)792-6902

GENERAL INFORMATION

COMPANY NAME F.G.HOLL COMPANY L.L.C	LEASE AND WELL NUMBER POWELL #1-9
TEST DATE 37973	FORMATION TESTED CONGLOMERATE
SECTION-TOWN-RANGE 9-21S-14W	DRILL STEM TEST NUMBER 3
STATE KANSAS	REPORT NUMBER 12432
COUNTY STAFFORD	ELEVATION KELLY BUSHIN 1928
ELEVATION GROUND LEVEL 1936	TESTING ENGINEER GENE BUDIG
COMPANY REPRESENTATIVE BILL REE	

TOOL SETTING INFORMATION

TEST INTERVAL (From) 3614	TOP PACKER DEPTH 3609
TEST INTERVAL (to) 3660	BOTTOM PACKER DEPTH 3614
ANCHOR LENGTH 46	NUMBER OF PACKERS 2
TOTAL DEPTH (ft) 3660	PACKER SIZE 6 3/4
	HOLE SIZE 7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from) **9:00**
 TOOL OPEN (to) **9:30**
 DURATION (min.) **30**

INITIAL SHUT-IN

TOOL CLOSED (from) **9:30**
 TOOL CLOSED (to) **10:30**
 DURATION (min.) **60**

FINAL OPEN

TOOL OPEN (from) **10:30**
 TOOL OPEN (to) **11:30**
 DURATION (min.) **60**

FINAL SHUT-IN

TOOL CLOSED (from) **11:30**
 TOOL CLOSED (to) **12:30**
 DURATION (min.) **120**

PRESSURE READINGS

INITIAL HYDROSTATIC **1802**
 INITIAL FLOW **59**
 FINAL INITIAL FLOW **116**
 INITIAL SHUT-IN **278**
 INITIAL FINAL FLOW **121**
 FINAL FLOW **162**
 FINAL SHUT-IN **265**
 FINAL HYDROSTATIC **1812**

MAXIMUM TEMPERATURE **107**

TOP RECORDER DEPTH **3653**
 RECORDER NUMBER **80507**
 BOTTOM RECORDER DEP **3657**
 RECORDER NUMBER **13208**

INITIAL BLOW

FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 16 MINUTES

FINAL BLOW

FAIR BLOW BUILT TO THE BOTTOM OF A 5 GALLON BUCKET IN 23 MINUTES

EXTRA EQUIPMENT

JARS YES	EXTRA PACKER (3RD) NO
SAFETY JOINT YES	EXTRA PACKER (4TH) NO
ELECTRONIC RECORDER YES	STRADDLE NO
CIRCULATING SUB NO	HOOK WALL NO
	SAMPLER NO

SUPERIOR TESTERS ENTERPRISES INC.
DRILL STEM TEST REPORT
 GREAT BEND, KANSAS 67530 (316)792-6902

WELL INFORMATION

DRILLING CONTRACTOR **DUKE DRILLING RIG #8**
 DRILL PIPE LENGTH **3588**
 DRILL PIPE I.D. **3.8**
 TOOL JOINT SIZE **4 1/2 X.H.**

DRILL COLLAR LENGTH
 DRILL COLLAR I.D. **2.25**
 TOOL JOINT SIZE **4 1/2 X.H.**

MUD WEIGHT #/GAL **9.3**
 VISCOSITY **40**
 WATER LOSS **10.2**

RESISTIVITY-PITS @ DEGREES
 RESISTIVITY-DST @ DEGREES
 CHLORIDES-PITS **7200**
 CHLORIDES-DST

FEET OF RECOVERY		RECOVERY DESCRIPTION	% GAS	% OIL	% MUD	% WATER
1)	220	GAS IN THE PIPE	100	0	0	0
2)	160	HEAVY OIL AND GAS CUT MUD	30	28	42	0
3)	120	HEAVY OIL AND GAS CUT MUD	30	18	52	0
4)						
5)						
6)						
7)						
8)						
9)						
10)						
11)						
12)						
13)						
14)						
15)						
		TOTAL RECOVERY				

COMMENTS