

F. G. Holl Co.
Smith Estate 'B' 5

Superior Testers Enterprises, Inc.

21-215-11w
15-185-23135

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

(316) 792-6902

Date 9-27-01 Location N 1/2 - S 1/4 - W 21-21 3/4 - 11 W Elevation 1752-K.B. 1743-GL County Stafford

Company F.G. Holl Company L.L.C. Number of Copies 5

Charts Mailed to 6427 East Kellogg P.O. Box 780167 Wichita Kansas 67228-0167

Drilling Contractor 6427 East Kellogg P.O. Box 780167 Steeling Drilling

Length Drill Pipe 2609 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" K.H.

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

Length Drill Collars 490 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" K.H.

Top Packer Depth 3113 Bottom Packer Depth 3118 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3118 TO 3175 ANCHOR LENGTH 57 TOTAL DEPTH 3175 Hole Size 7 7/8"

LEASE & WELL NO. Smith Estate "B" #5-21 FORMATION TESTED Kansas City "A-D" TEST NO. 1

Mud Weight _____ Viscosity _____ Water Loss _____ Chlorides - Pits _____ D.S.T. _____

Maximum Temp. _____ °F Initial Hydrostatic Pressure (A) 1561 P.S.I. Final Hydrostatic Pressure (H) 1542 P.S.I.

Tool Open I.F.P. from 11:30 a.m. to 11:45 p.m. 15 min from [B] 54 P.S.I. to [C] 54 P.S.I.

Tool Closed I.C.I.P. from 11:45 p.m. to 12:15 p.m. 30 min [D] _____ 210 P.S.I.

Tool Open F.F.P. from 12:15 p.m. to 12:30 p.m. 15 min from [E] 54 P.S.I. to [F] 54 P.S.I.

Tool Closed F.C.I.P. from 12:30 p.m. to 1:00 p.m. 30 min [G] _____ 100 P.S.I.

Initial Blow WEAK surface blow for 13 minutes & DIED

Final Blow NO blow

Total Feet Recovered _____ Gravity of Oil _____ Corrected

<u>10</u> Feet of <u>Drilling Mud</u>	% 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 _____
_____ Feet of _____	% Gas _____	% Oil _____	% Mud _____	% Water _____

Remarks _____

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

Top Recorder No. ELECTRONIC Clock No. 78225 Depth 3168 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 5463 Clock No. 47441 Depth 3172 Insurance NONE

Price of Job _____

Tool Operator Gene Brady

Approved By _____
No. 14008

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, of 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.

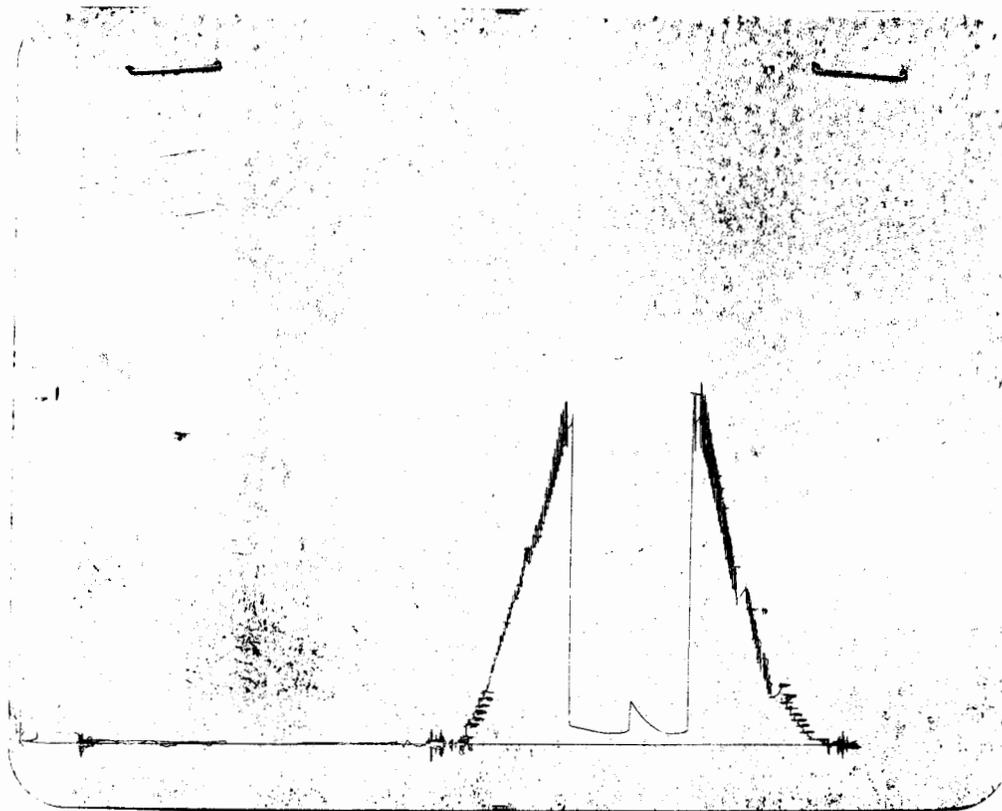
Great Bend, Kansas

CHART DATA

(316) 792-6902

State KANSAS
County STAFFORD
Field

Test Date September 27, 2001
Sec Town Range 21-21S-11W
Report Number 14008



Field Reading

(1)	Initial Hydrostatic Pressure	1561
(2)	Initial Flow Pressure	54
(3)	Final Initial Flow Pressure	54
(4)	Initial Shut-In Pressure	210
(5)	Initial Final Flow Pressure	54
(6)	Final Flow Pressure	54
(7)	Final Shut-In Pressure	100
(8)	Final Hydrostatic Pressure	1542

ELECTRONIC RECORDER DEPTH 3168 FT, RECORDER NUMBER 78225

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. SMITH ESTATE "B" #5-21 Test #: 1 Date: 9-27-2001 SEC. 21
TWP. 21S RGE. 11W

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	SMITH ESTATE "B" #5-21
TEST DATE	9/27/01	FORMATION TESTED	KANSAS CITY "A-D"
SECTION-TOWN-RANGE	21-21S-11W	DRILL STEM TEST NUMBER	1
STATE	KANSAS	REPORT NUMBER	14008
COUNTY	STAFFORD	ELEVATION KELLY BUSHINGS	1752
ELEVATION GROUND LEVEL	1743	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	BILL REA		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	3118	TOP PACKER DEPTH	3113
TEST INTERVAL (to)	3175	BOTTOM PACKER DEPTH	3118
ANCHOR LENGTH	57	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	3175	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from)	11:30
TOOL OPEN (to)	11:45
DURATION (min.)	15

INITIAL SHUT-IN

TOOL CLOSED (from)	11:45
TOOL CLOSED (to)	12:15
DURATION (min.)	30

FINAL OPEN

TOOL OPEN (from)	12:15
TOOL OPEN (to)	12:30
DURATION (min.)	15

FINAL SHUT-IN

TOOL CLOSED (from)	12:30
TOOL CLOSED (to)	1:00
DURATION (min.)	30

PRESSURE READINGS

INITIAL HYDROSTATIC	1561
INITIAL FLOW	54
FINAL INITIAL FLOW	54
INITIAL SHUT-IN	210
INITIAL FINAL FLOW	54
FINAL FLOW	54
FINAL SHUT-IN	100
FINAL HYDROSTATIC	1542
MAXIMUM TEMPERATURE	
TOP RECORDER DEPTH	3168
RECORDER NUMBER	78226
BOTTOM RECORDER DEPTH	3172
RECORDER NUMBER	13189

INITIAL BLOW

WEAK SURFACE BLOW FOR 13 MINUTES AND DIED

FINAL BLOW

NO BLOW

EXTRA EQUIPMENT

JARS	NO	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 **STERLING DRILLING RIG #1**

DRILL PIPE LENGTH **2609**

DRILL PIPE I.D. **3.8**

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

DRILL COLLAR LENGTH **490**

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

VISCOSITY

WATER LOSS

CHLORIDES-PITS

CHLORIDES-DST

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

TOTAL RECOVERY

COMMENTS

Superior Testers Enterprises, Inc.

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

(316) 792-6902

Date 9-28-01 Location N¹/₂-9¹/₂-W 21-21^s-11th Elevation 1732.58 County Stafford

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

Charts Mailed to 6427 East Florence Rd. Box 780167 Wichita Kansas 67278-0167

Drilling Contractor Steeling Drilling Rig #1

Length Drill Pipe 2913 I.D. Drill Pipe 3.80 Tool Joint Size 4 1/2" X.H.

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

Length Drill Collars 240 I.D. Drill Collars 2.25 Tool Joint Size 4 1/2" X.H.

Top Packer Depth 3168 Bottom Packer Depth 3173 Number of Packers 2 Packer Size 6 3/4"

TESTED FROM 3173 TO 3198 ANCHOR LENGTH 26 TOTAL DEPTH 3198 Hole Size 7 7/8

EASE & WELL NO. Smith State 85-21 FORMATION TESTED Shales 14" F TEST NO. 2

Mud Weight 9.7 Viscosity 63 Water Loss 10.2 Chlorides - Pits 900 D.S.T. _____

Maximum Temp. _____ °F Initial Hydrostatic Pressure (A) 1582 P.S.I. Final Hydrostatic Pressure (H) 1570 P.S.I.

Tool Open I.F.P. from 11:15 A.m to 11:30 A.m 15 min

Tool Closed I.C.I.P. from 11:30 A.m to 12:00 P.m 30 min

Tool Open F.F.P. from 12:00 P.m to 12:15 P.m 15 min

Tool Closed F.C.I.P. from 12:15 P.m to 12:45 P.m 30 min

Initial Blow Weak weak blow for 4 minutes & died

Final Blow no blow

Total Feet Recovered 5 Gravity of Oil _____ Corrector _____

5 Feet of Drilling 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 _____

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

Remarks _____

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

Top Recorder No. Electronic Clock No. 7445 Depth 3191 Cir. Sub NONE Sampler NONE

Bottom Recorder No. 42441 Clock No. 13189 Depth 3195 Insurance NONE

Price of Job _____

Tool Operator Gene Bushy

Approved By _____

NO 1A009

from [B] <u>36</u> P.S.I. to [C] <u>36</u> P.S.I.
[D] <u>42</u> P.S.I.
from [E] <u>36</u> P.S.I. to [F] <u>36</u> P.S.I.
[G] <u>36</u> P.S.I.

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, of 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.

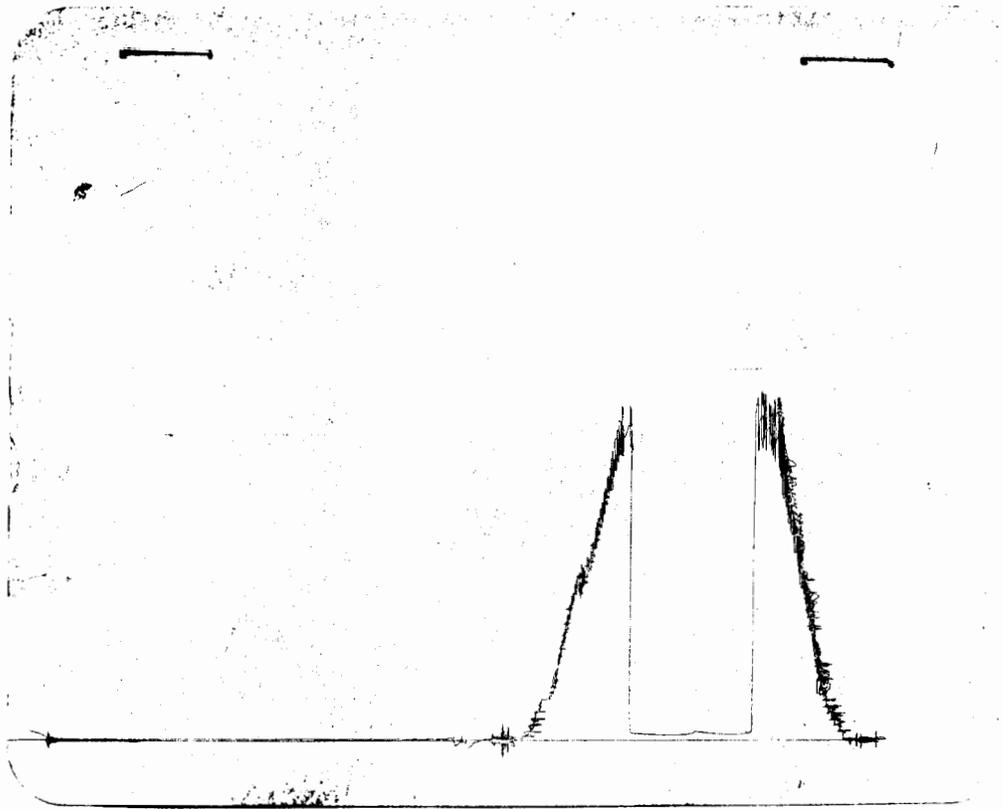
Great Bend, Kansas

CHART DATA

(316) 792-6902

State KANSAS
County
Field

Test Date
Sec Town Range
Report Number



Field Reading

(A)	Initial Hydrostatic Pressure	1582
(B)	Initial Flow Pressure	36
(C)	Final Initial Flow Pressure	36
(D)	Initial Shut-In Pressure	42
(E)	Initial Final Flow Pressure	36
(F)	Final Flow Pressure	36
(G)	Final Shut-In Pressure	36
(H)	Final Hydrostatic Pressure	1570

ELECTRONIC RECORDER DEPTH FT, RECORDER NUMBER 5463

Company: F.G.HOLL COMPANY L.L.C. Lease & Well No. SMITH ESTATE "B" #5-21 Test # 2 Date: 9-28-2001 SEC. 21
TWP. 21S RGE. 11W

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	SMITH ESTATE"B" #5-21
TEST DATE	9/28/01	FORMATION TESTED	KANSAS CITY"F"
SECTION-TOWN-RANGE	21-21S-11W	DRILL STEM TEST NUMBER	2
STATE	KANSAS	REPORT NUMBER	14009
COUNTY	STAFFORD	ELEVATION KELLY BUSHINGS	1752
ELEVATION GROUND LEVEL	1743	TESTING ENGINEER	GENE BUDIG
COMPANY REPRESENTATIVE	BILL REA		

TOOL SETTING INFORMATION

TEST INTERVAL (From)	3173	TOP PACKER DEPTH	3168
TEST INTERVAL (to)	3175	BOTTOM PACKER DEPTH	3173
ANCHOR LENGTH	2	NUMBER OF PACKERS	2
TOTAL DEPTH (ft)	3175	PACKER SIZE	6 3/4
		HOLE SIZE	7 7/8

FLOW TIMES

INITIAL OPEN

TOOL OPEN (from)	11:15
TOOL OPEN (to)	11:30
DURATION (min.)	15

INITIAL SHUT-IN

TOOL CLOSED (from)	11:30
TOOL CLOSED (to)	12:00
DURATION (min.)	30

FINAL OPEN

TOOL OPEN (from)	12:00
TOOL OPEN (to)	12:15
DURATION (min.)	15

FINAL SHUT-IN

TOOL CLOSED (from)	12:15
TOOL CLOSED (to)	12:45
DURATION (min.)	30

PRESSURE READINGS

INITIAL HYDROSTATIC	1582
INITIAL FLOW	36
FINAL INITIAL FLOW	36
INITIAL SHUT-IN	42
INITIAL FINAL FLOW	36
FINAL FLOW	36
FINAL SHUT-IN	36
FINAL HYDROSTATIC	1570
MAXIMUM TEMPERATURE	
TOP RECORDER DEPTH	3191
RECORDER NUMBER	78445
BOTTOM RECORDER DEPTH	3195
RECORDER NUMBER	13189

INITIAL BLOW **VERY WEAK BLOW FOR 4 MINTUTES AND DIED**

FINAL BLOW **NO BLOW**

EXTRA EQUIPMENT

JARS	NO	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 **STERLING DRILLING RIG #1**

DRILL PIPE LENGTH **2913**

DRILL PIPE I.D. **3.8**

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

DRILL COLLAR LENGTH **240**

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 **9.3**

VISCOSITY **63**

WATER LOSS **10.2**

CHLORIDES-PITS **9000**

CHLORIDES-DST

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

COMMENTS



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

Company F. G. Holl Company, LLC Lease & Well No. Smith Estate "B" #5-21
Elevation 1752 KB Formation Lansing/Kansas City ("H" & "I" Zones) Effective Pay -- Ft. Ticket No. J1161
Date 9-29-01 Sec. 21 Twp. 21S Range 11W County Stafford State Kansas
Test Approved By Bill Ree Diamond Representative John C. Riedl

Formation Test No. 3 Interval Tested from 3,234 ft. to 3,278 ft. Total Depth 3,278 ft.
Packer Depth 3,229 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Packer Depth 3,234 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,237 ft. Recorder Number Elec. Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,275 ft. Recorder Number 13556 Cap. 5,475 psi
Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Sterling Drlg Company - Rig 1 Drill Collar Length 245 ft. I.D. 2 1/4 in.
Mud Type Chemical Viscosity 48 Weight Pipe Length -- ft. I.D. -- in.
Weight 9.1 Water Loss 10.0 cc. Drill Pipe Length 2,969 ft. I.D. 3 1/2 in.
Chlorides 9,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number Not Run Anchor Length 44 ft. Size 4 1/2 - FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Weak, 1/4 in., blow decreasing to a surface blow by end.
2nd Open: Very weak surface blow. Dead in 12 mins.

Recovered 20 ft. of drilling mud = .098400 bbls.

Recovered ft. of

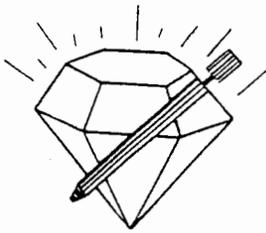
Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks

Time Set Packer(s) 2:50 A.M. Time Started Off Bottom 5:50 A.M. Maximum Temperature 104°
Initial Hydrostatic Pressure (A) 1615 P.S.I.
Initial Flow Period Minutes 30 (B) 13 P.S.I. to (C) 20 P.S.I.
Initial Closed In Period Minutes 60 (D) 711 P.S.I.
Final Flow Period Minutes 30 (E) 24 P.S.I. to (F) 28 P.S.I.
Final Closed In Period Minutes 60 (G) 157 P.S.I.
Final Hydrostatic Pressure (H) 1529 P.S.I.



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

FLUID SAMPLE DATA

Company F. G. Holl Company, LLC
Lease & Well No. Smith Estate "B" #5-21
Date 9-29-01 Sec. 21 Twp. 21 S Range 11 W
Formation Test No. 3 Interval Tested From 3,234 ft. to 3,278 ft. Total Depth 3,278 ft.
Formation Lansing/Kansas City ("H" & "I" Zones)

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>48</u> CP	<u>50</u> CP
Weight	<u>9.1</u>	<u>9.2</u>
Water Loss	<u>10.0</u> CC	<u>11.0</u> CC
PH Factor	<u>10.0</u>	<u>9.5</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>.59</u> @ <u>65</u> °F.	<u>12,000</u> ppm
Recovery Mud Filtrate	<u>.59</u> @ <u>65</u> °F.	<u>12,000</u> ppm
Mud Pit Sample	<u>.62</u> @ <u>70</u> °F.	<u>10,000</u> ppm
Mud Pit Sample Filtrate	<u>.62</u> @ <u>70</u> °F.	<u>10,000</u> ppm

Sample Taken By JOHN C. RIEDL

Witness By Bill Ree

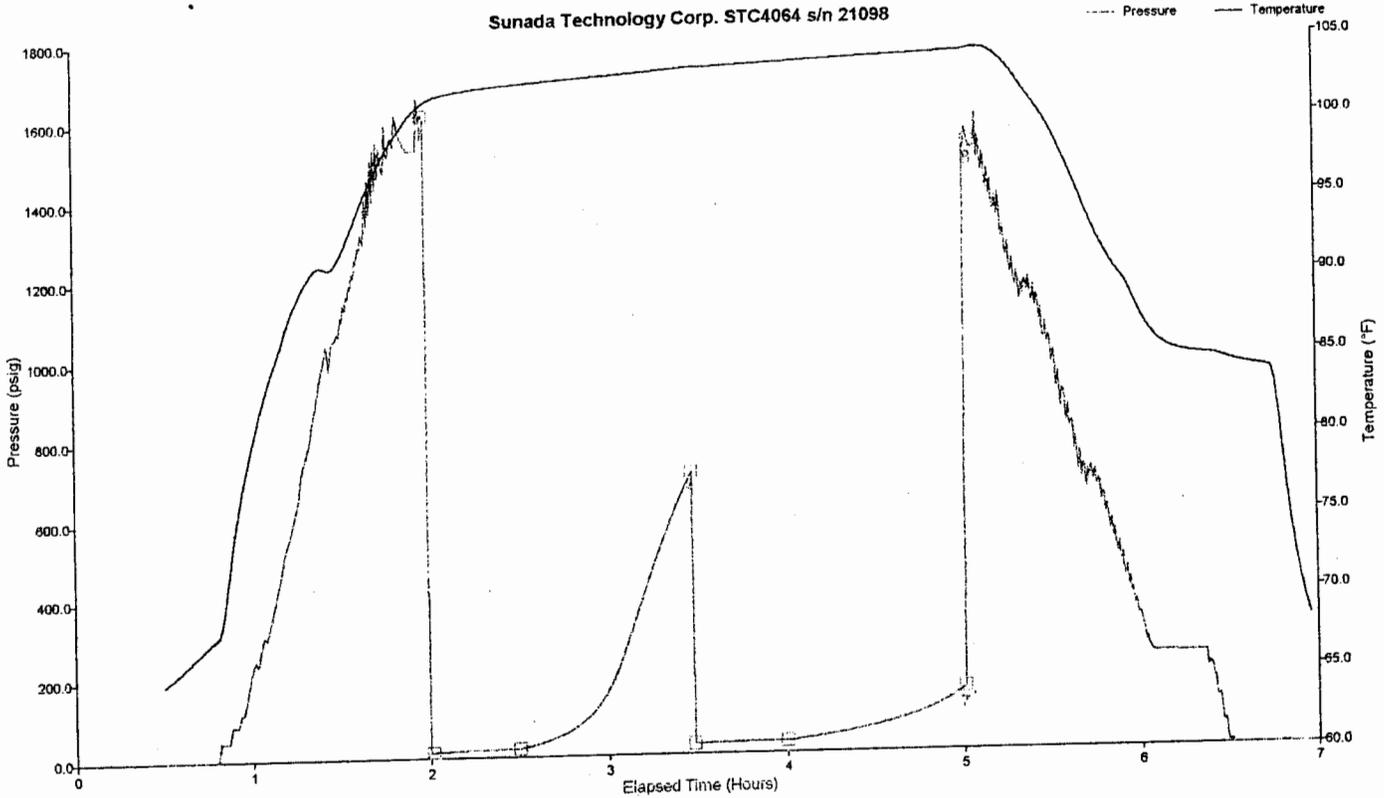
Remarks Pit filtrate triton dish chlorides were 9,000 Ppm. **RECEIVED**
Recovery filtrate triton dish chlorides were 10,000 Ppm. **CONSERVATION CORPORATION**

OCT 29 2001

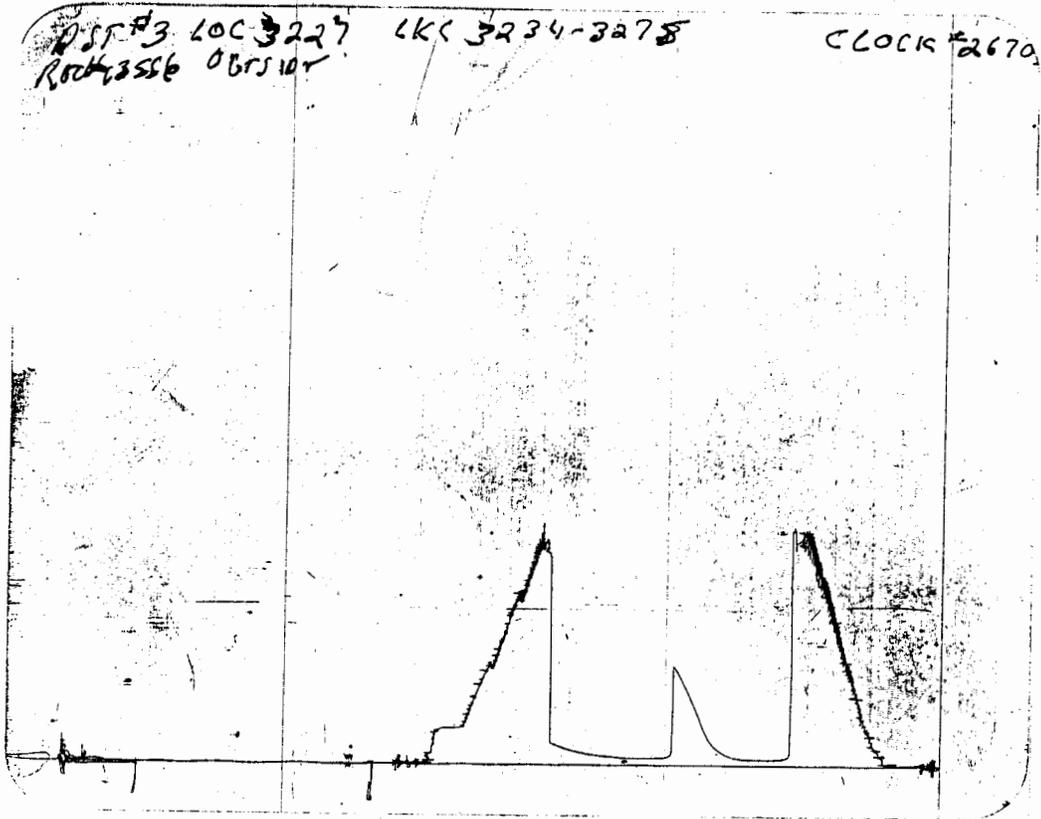
CONSERVATION CORPORATION
WICHITA, KS

Well LSD: DST 3 LKC 3234-3278
 Well Name: SMITH ESTATE B 5-21
 Company: F G HOLL
 Battery on: Sep 29, 2001 at 00:50:00
 Notes: REC. 20' DRILLING MUD

Sunada Technology Corp. STC4064 s/n 21098



Tag	Pressure	Temperature	Comment
1	1615.34 psig	101.17 °F	2001-09-29 02:49:00
2	13.18 psig	101.40 °F	2001-09-29 02:51:00
3	20.07 psig	102.29 °F	2001-09-29 03:20:00
4	711.16 psig	103.20 °F	2001-09-29 04:18:30
5	23.85 psig	103.21 °F	2001-09-29 04:19:00
6	27.69 psig	103.48 °F	2001-09-29 04:50:00
7	156.71 psig	104.05 °F	2001-09-29 05:50:30
8	1528.64 psig	104.15 °F	2001-09-29 05:53:00



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud	1615	1615	PSI
(B) First Initial Flow Pressure.....	13	13	PSI
(C) First Final Flow Pressure	20	20	PSI
(D) Initial Closed-in Pressure	711	711	PSI
(E) Second Initial Flow Pressure	24	24	PSI
(F) Second Final Flow Pressure.....	28	28	PSI
(G) Final Closed-in Pressure.....	157	157	PSI
(H) Final Hydrostatic Mud.....	1529	1529	PSI



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

Company F. G. Holl Company, LLC Lease & Well No. Smith Estate "B" #5-21
Elevation 1752 KB Formation Viola Effective Pay Ft. Ticket No. J1162
Date 9-29-01 Sec. 21 Twp. 21S Range 11W County Stafford State Kansas
Test Approved By Bill Ree Diamond Representative John C. Riedl

Formation Test No. 4 Interval Tested from 3,334 ft. to 3,368 ft. Total Depth 3,368 ft.
Packer Depth 3,329 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,334 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,337 ft. Recorder Number Elec. Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,365 ft. Recorder Number 13556 Cap. 5,475 psi
Below Straddle Recorder Depth ft. Recorder Number Cap. psi

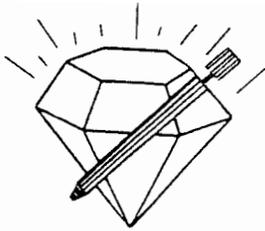
Drilling Contractor Sterling Drlg Company - Rig 1 Drill Collar Length 245 ft. I.D. 2 1/4 in.
Mud Type Chemical Viscosity 48 Weight Pipe Length ft. I.D. in.
Weight 9.2 Water Loss 13.0 cc. Drill Pipe Length 3,069 ft. I.D. 3 1/2 in.
Chlorides 12,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number Not Run Anchor Length 34 ft. Size 4 1/2 - FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Weak blow. Dead in 4 mins.
2nd Open: No blow.

Recovered 5 ft. of drilling mud = .024600 bbls.
Recovered ft. of
Recovered ft. of
Recovered ft. of
Recovered ft. of

Remarks

Time Set Packer(s) 9:35 ~~A.M.~~ P.M. Time Started Off Bottom 11:05 ~~A.M.~~ P.M. Maximum Temperature 106°
Initial Hydrostatic Pressure (A) 1715 P.S.I.
Initial Flow Period Minutes 15 (B) 10 P.S.I. to (C) 15 P.S.I.
Initial Closed In Period Minutes 30 (D) 38 P.S.I.
Final Flow Period Minutes 15 (E) 16 P.S.I. to (F) 17 P.S.I.
Final Closed In Period Minutes 30 (G) 27 P.S.I.
Final Hydrostatic Pressure (H) 1627 P.S.I.



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

FLUID SAMPLE DATA

Company F. G. Holl Company, LLC
Lease & Well No. Smith Estate "B" #5-21
Date 9-29-01 Sec. 21 Twp. 21 S Range 11 W
Formation Test No. 4 Interval Tested From 3,334 ft. to 3,368 ft. Total Depth 3,368 ft.
Formation Viola

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>48</u> CP	<u>50</u> CP
Weight	<u>9.2</u>	<u>9.3</u>
Water Loss	<u>13.0</u> CC	<u>14.0</u> CC
PH Factor	<u>9.5</u>	<u>9.0</u>

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud	<u>.50</u> @ <u>70</u> °F.	<u>15,000</u> ppm
Recovery Mud Filtrate	<u>.50</u> @ <u>70</u> °F.	<u>15,000</u> ppm
Mud Pit Sample	<u>.45</u> @ <u>75</u> °F.	<u>13,000</u> ppm
Mud Pit Sample Filtrate	<u>.47</u> @ <u>75</u> °F.	<u>14,000</u> ppm

Sample Taken By JOHN C. RIEDL

Witness By Bill Ree

Remarks Pit filtrate triton dish chlorides were 12,000 Ppm
Recovery filtrate triton dish chlorides were 14,000 Ppm.

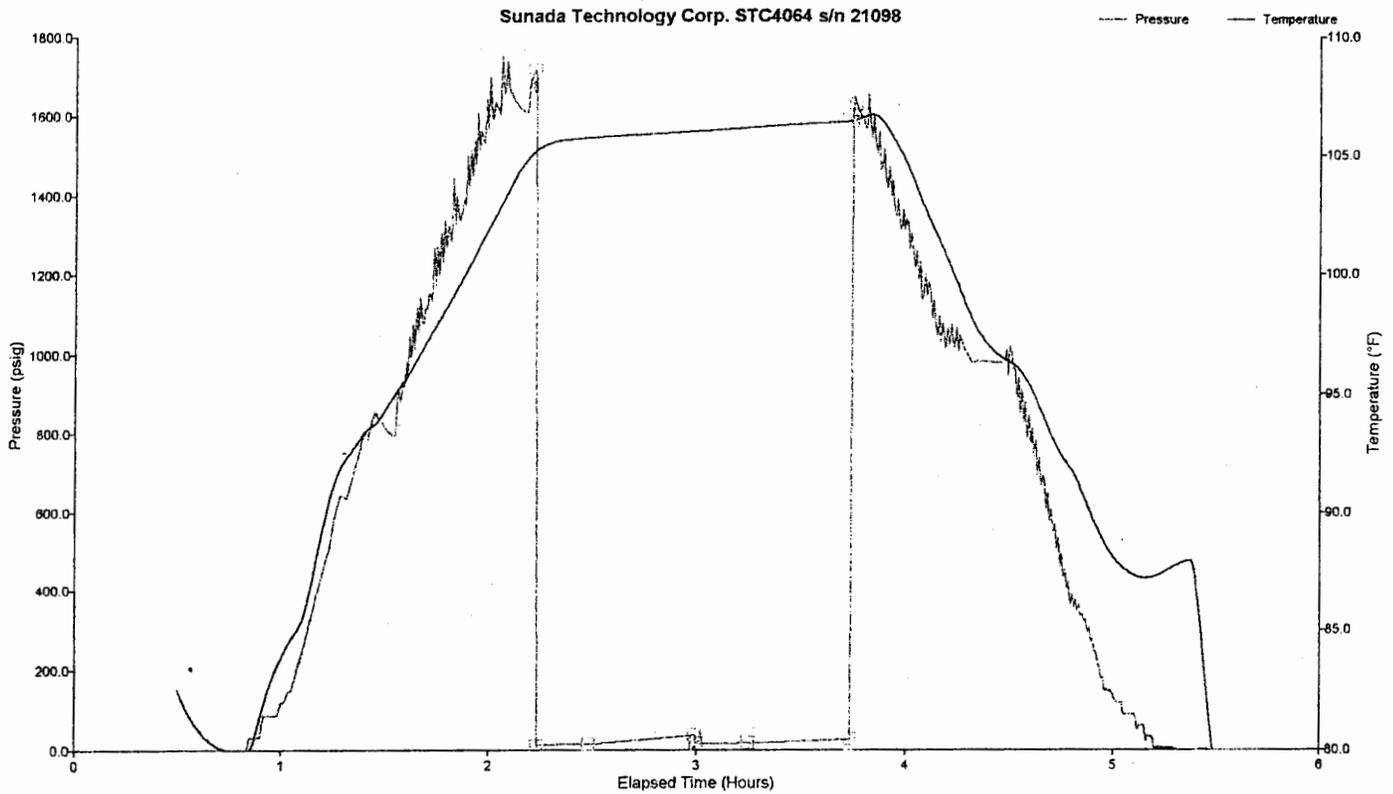
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OCT 29 2001

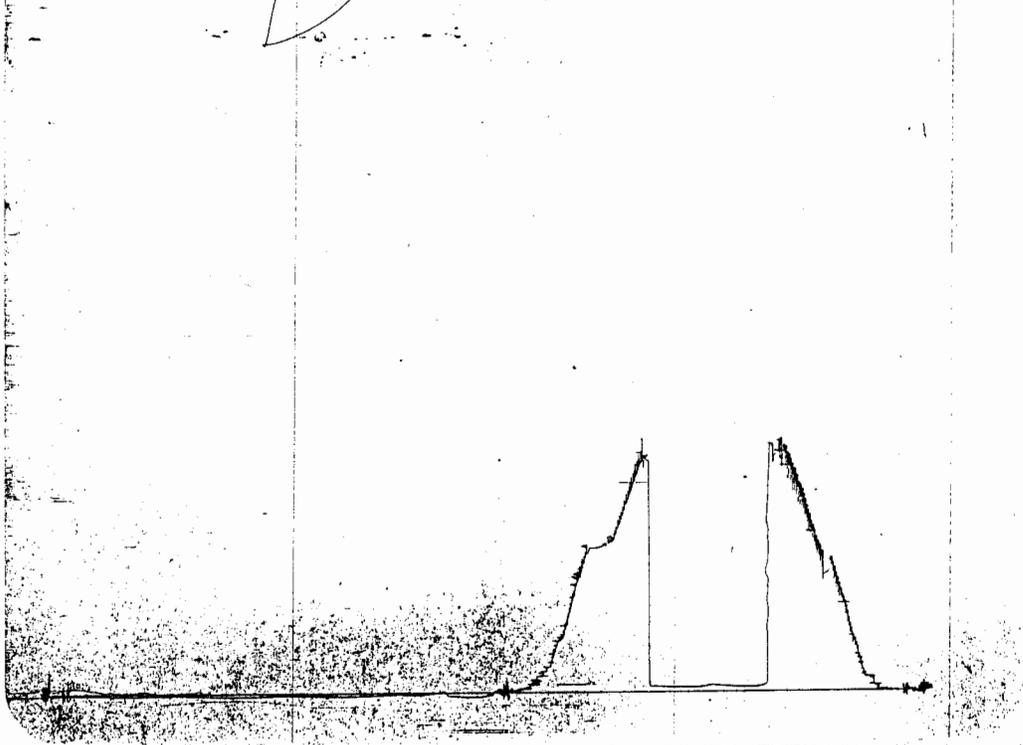
CONSENTED BY
WICHITA, KS

Well LSD: DST 4 VIOLA 3334-3368
 Well Name: SMITH ESTATE B 5-21
 Company: F G HOLL
 Battery on: Sep 29, 2001 at 19:20:00
 Notes: REC. 5' DRILLING MUD



Tag	Pressure	Temperature	Comment
1	1714.75 psig	105.13 °F	2001-09-29 21:33:00
2	10.01 psig	105.26 °F	2001-09-29 21:34:00
3	14.69 psig	105.73 °F	2001-09-29 21:49:00
4	37.57 psig	106.00 °F	2001-09-29 22:19:30
5	16.19 psig	106.00 °F	2001-09-29 22:20:00
6	17.09 psig	106.14 °F	2001-09-29 22:35:00
7	26.68 psig	106.41 °F	2001-09-29 23:04:00
8	1626.89 psig	106.46 °F	2001-09-29 23:05:30

BOC#13556 OUTSIDE LOC 2365' DST#4 CLOCK#26705



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud	1715	1715	PSI
(B) First Initial Flow Pressure.....	10	10	PSI
(C) First Final Flow Pressure	15	15	PSI
(D) Initial Closed-in Pressure	38	38	PSI
(E) Second Initial Flow Pressure	16	16	PSI
(F) Second Final Flow Pressure.....	17	17	PSI
(G) Final Closed-in Pressure.....	27	27	PSI
(H) Final Hydrostatic Mud	1627	1627	PSI



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Company F. G. Holl Company, LLC Lease & Well No. Smith Estate "B" #5-21
Elevation 1752 KB Formation Simpson Sand Effective Pay -- Ft. Ticket No. J1163
Date 9-30-01 Sec. 21 Twp. 21S Range 11W County Stafford State Kansas
Test Approved By Bill Ree Diamond Representative John C. Riedl

Formation Test No. 5 Interval Tested from 3,332 ft. to 3,386 ft. Total Depth 3,386 ft.
Packer Depth 3,327 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,332 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,335 ft. Recorder Number Elec. Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,383 ft. Recorder Number 13556 Cap. 5,475 psi
Below Straddle Recorder Depth ft. Recorder Number Cap. psi

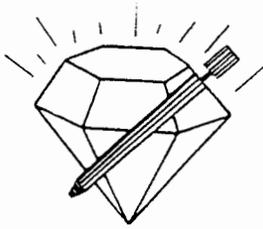
Drilling Contractor Sterling Drlg Company - Rig 1 Drill Collar Length 245 ft. I.D. 2 1/4 in.
Mud Type Chemical Viscosity 56 Weight Pipe Length ft. I.D. in.
Weight 9.2 Water Loss 14.6 cc. Drill Pipe Length 3,067 ft. I.D. 3 1/2 in.
Chlorides 18,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number Not Run Anchor Length 54 ft. Size 4 1/2 - FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Strong blow. Off bottom of bucket in 9 mins. No blow back during shut-in.
2nd Open: Weak, 1/2 in., blow throughout.

Recovered 1,200 ft. of gas in pipe
Recovered 70 ft. of very slightly oil cut gassy mud = .344400 bbls. (Grind out: 2%-oil; 40%-gas; 58%-mud)
Recovered 124 ft. of oil & gas cut mud = .610080 bbls. (Grind out: 15%-oil; 15%-gas; 70%-mud)
Recovered 62 ft. of heavy oil & gas cut mud = .332320 bbls. (Grind out: 30%-oil; 20%-gas; 50%-mud)
Recovered 256 ft. of TOTAL FLUID = 1.286800 bbls.

Remarks

Time Set Packer(s) 10:03 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 1:03 ~~P.M.~~ ^{A.M.} Maximum Temperature 105°
Initial Hydrostatic Pressure (A) 1665 P.S.I.
Initial Flow Period Minutes 30 (B) 11 P.S.I. to (C) 80 P.S.I.
Initial Closed In Period Minutes 60 (D) 314 P.S.I.
Final Flow Period Minutes 30 (E) 88 P.S.I. to (F) 109 P.S.I.
Final Closed In Period Minutes 60 (G) 312 P.S.I.
Final Hydrostatic Pressure (H) 1601 P.S.I.



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FLUID SAMPLE DATA

Company F. G. Holl Company, LLC
 Lease & Well No. Smith Estate "B" #5-21
 Date 9-30-01 Sec. 21 Twp. 21 S Range 11 W
 Formation Test No. 5 Interval Tested From 3,332 ft. to 3,386 ft. Total Depth 3,386 ft.
 Formation Simpson Sand

	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>56</u> CP	<u>--</u> CP	TOO MUCH OIL & GAS TO CHECK.
Weight	<u>9.2</u>	<u>--</u>	
Water Loss	<u>14.6</u> CC	<u>--</u> CC	
PH Factor	<u>9.0</u>	<u>--</u>	

	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>--</u> @ <u>--</u> °F. <u>--</u> ppm	
Recovery Mud	<u>.36</u> @ <u>70</u> °F. <u>18,000</u> ppm	
Recovery Mud Filtrate	<u>.36</u> @ <u>70</u> °F. <u>18,000</u> ppm	
Mud Pit Sample	<u>.38</u> @ <u>70</u> °F. <u>17,000</u> ppm	
Mud Pit Sample Filtrate	<u>.40</u> @ <u>70</u> °F. <u>16,000</u> ppm	

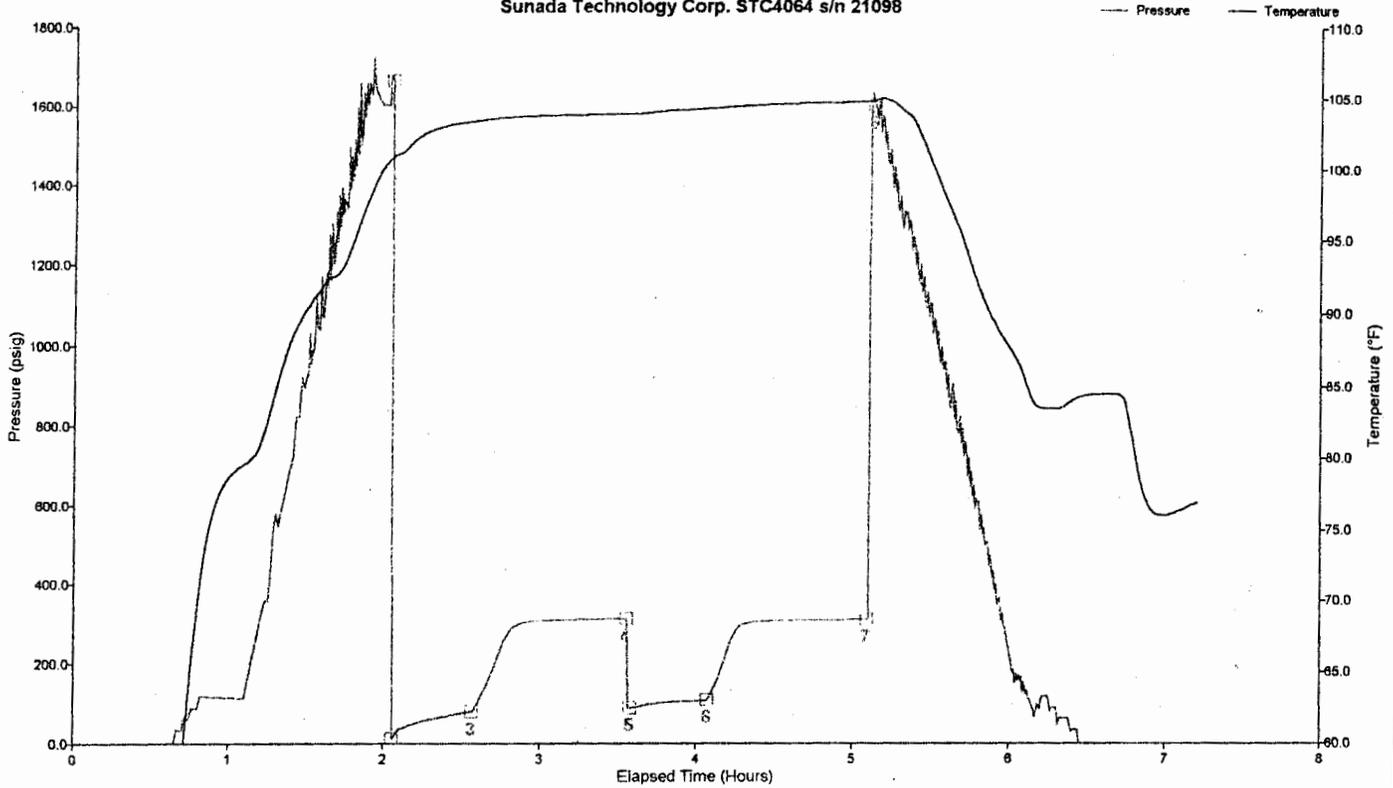
Sample Taken By JOHN C. RIEDL

Witness By Bill Ree

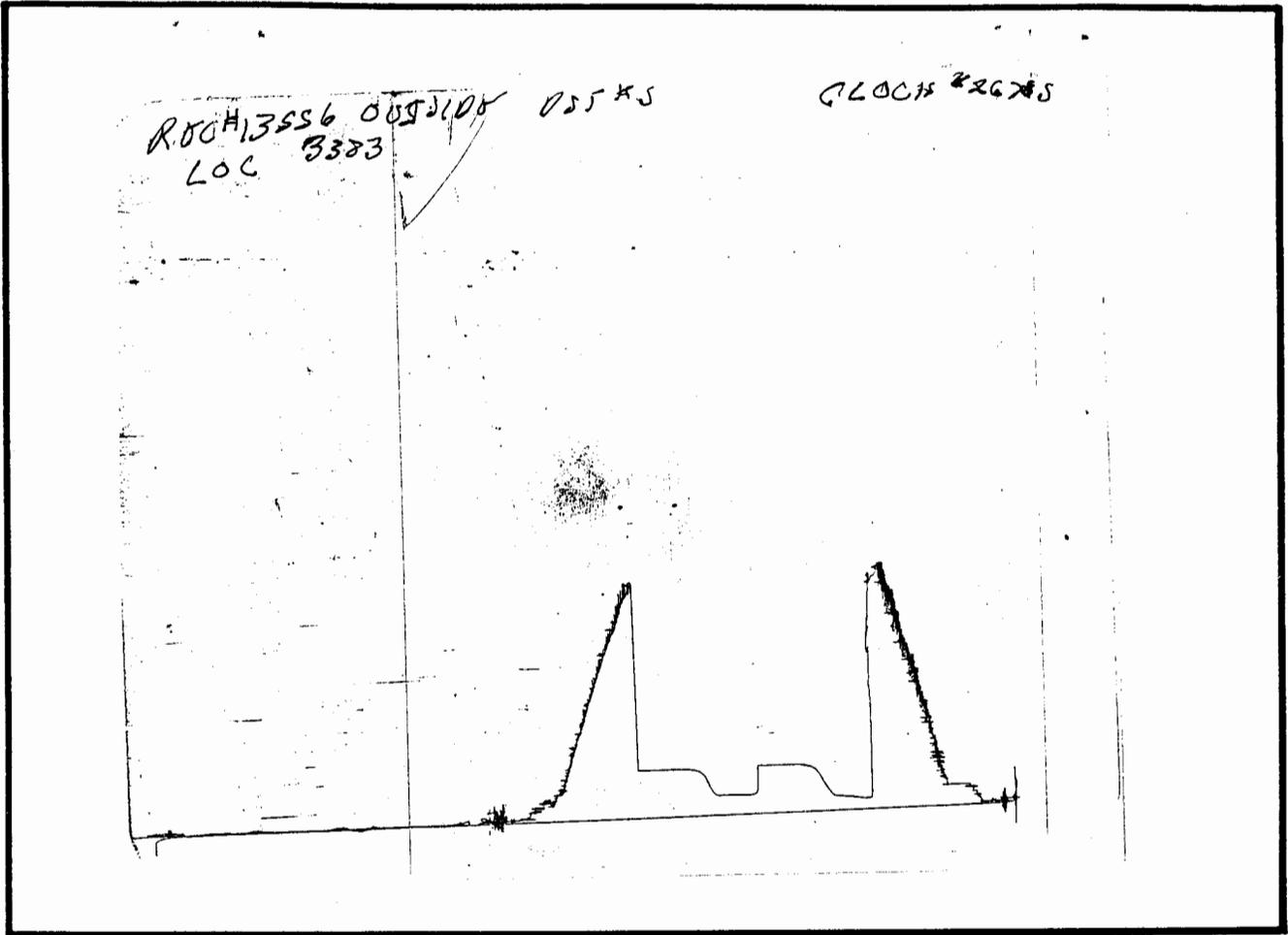
Remarks Pit filtrate triton dish chlorides were 18,000 Ppm.
Recovery filtrate triton dish chlorides were 18,000 Ppm.

Well LSD: 'DST 5 SIMPSON SAND 3332-3386
 Well Name: SMITH ESTATES B 5-21
 Company: F G HOLL
 Battery on: Sep 30, 2001 at 08:00:00
 Notes: REC. 1200 GIP 256 OIL+GAS CUT MUD

Sunada Technology Corp. STC4064 s/n 21098



Tag	Pressure	Temperature	Comment
1	1664.74 psig	100.85 °F	2001-09-30 10:03:00
2	10.63 psig	100.92 °F	2001-09-30 10:03:30
3	79.86 psig	103.36 °F	2001-09-30 10:34:00
4	313.78 psig	103.91 °F	2001-09-30 11:33:30
5	88.12 psig	103.90 °F	2001-09-30 11:35:00
6	109.43 psig	104.29 °F	2001-09-30 12:04:30
7	311.50 psig	104.78 °F	2001-09-30 13:05:30
8	1601.44 psig	104.89 °F	2001-09-30 13:08:00



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud	1665	1665	PSI
(B) First Initial Flow Pressure.....	11	11	PSI
(C) First Final Flow Pressure	80	80	PSI
(D) Initial Closed-in Pressure	314	314	PSI
(E) Second Initial Flow Pressure	88	88	PSI
(F) Second Final Flow Pressure.....	109	109	PSI
(G) Final Closed-in Pressure.....	312	312	PSI
(H) Final Hydrostatic Mud	1601	1601	PSI



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Company F. G. Holl Company, LLC Lease & Well No. Smith Estate "B" #5-21
Elevation 1752 KB Formation Simpson Sand Effective Pay Ft. Ticket No. J1164
Date 9-30-01 Sec. 21 Twp. 21S Range 11W County Stafford State Kansas
Test Approved By Bill Ree Diamond Representative John C. Riedl

Formation Test No. 6 Interval Tested from 3,393 ft. to 3,405 ft. Total Depth 3,405 ft.
Packer Depth 3,388 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Packer Depth 3,393 ft. Size 6 3/4 in. Packer Depth ft. Size in.
Depth of Selective Zone Set ft.

Top Recorder Depth (Inside) 3,396 ft. Recorder Number Elec. Cap. 5,000 psi
Bottom Recorder Depth (Outside) 3,402 ft. Recorder Number 13556 Cap. 5,475 psi
Below Straddle Recorder Depth ft. Recorder Number Cap. psi

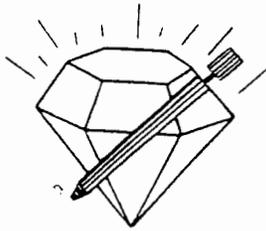
Drilling Contractor Sterling Drlg Company - Rig 1 Drill Collar Length 245 ft. I.D. 2 1/4 in.
Mud Type Chemical Viscosity 47 Weight Pipe Length ft. I.D. in.
Weight 9.1 Water Loss 15.0 cc. Drill Pipe Length 3,128 ft. I.D. 3 1/2 in.
Chlorides 18,000 P.P.M. Test Tool Length 20 ft. Tool Size 3 1/2 - IF in.
Jars: Make Bowen Serial Number Not Run Anchor Length 12 ft. Size 4 1/2 - FH in.
Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Strong blow. 12 ins. off bottom of bucket in 3 mins. Strong blow back during shut-in.
2nd Open: Strong blow. Off bottom of bucket in 9 mins. Strong blow back during shut-in.

Recovered 60 ft. of clean gassy oil = .295200 bbls. (Grind out: 20%-gas; 80%-oil) Gravity: 51 @ 60°
Recovered 60 ft. of oil & gas cut muddy water = .295200 bbls. (Grind out: 25%-oil; 20%-gas; 5%-mud; 50%-water)
Recovered 500 ft. of gassy water = 3.390000 bbls.
Recovered 620 ft. of TOTAL FLUID = 3.980400 bbls.

Recovered ft. of
Remarks Gas to surface during final shut-in.

Time Set Packer(s) 11:05 ~~P.M.~~ ^{A.M.} Time Started Off Bottom 2:05 ~~P.M.~~ ^{A.M.} Maximum Temperature 109°
Initial Hydrostatic Pressure (A) 1623 P.S.I.
Initial Flow Period Minutes 30 (B) 39 P.S.I. to (C) 194 P.S.I.
Initial Closed In Period Minutes 60 (D) 416 P.S.I.
Final Flow Period Minutes 30 (E) 207 P.S.I. to (F) 281 P.S.I.
Final Closed In Period Minutes 60 (G) 417 P.S.I.
Final Hydrostatic Pressure (H) 1600 P.S.I.



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FLUID SAMPLE DATA

Company F. G. Holl Company, LLC
Lease & Well No. Smith Estate "B" #5-21
Date 9-30-01 Sec. 21 Twp. 21 S Range 11 W
Formation Test No. 6 Interval Tested From .3,393 ft. to 3,405 ft. Total Depth 3,405 ft.
Formation Simpson Sand

	<u>MUD PIT</u>	<u>RECOVERY</u>
Viscosity	<u>47</u> CP	<u>--</u> CP
Weight	<u>9.1</u>	<u>--</u>
Water Loss	<u>15.0</u> CC	<u>--</u> CC
PH Factor	<u>9.0</u>	<u>--</u>

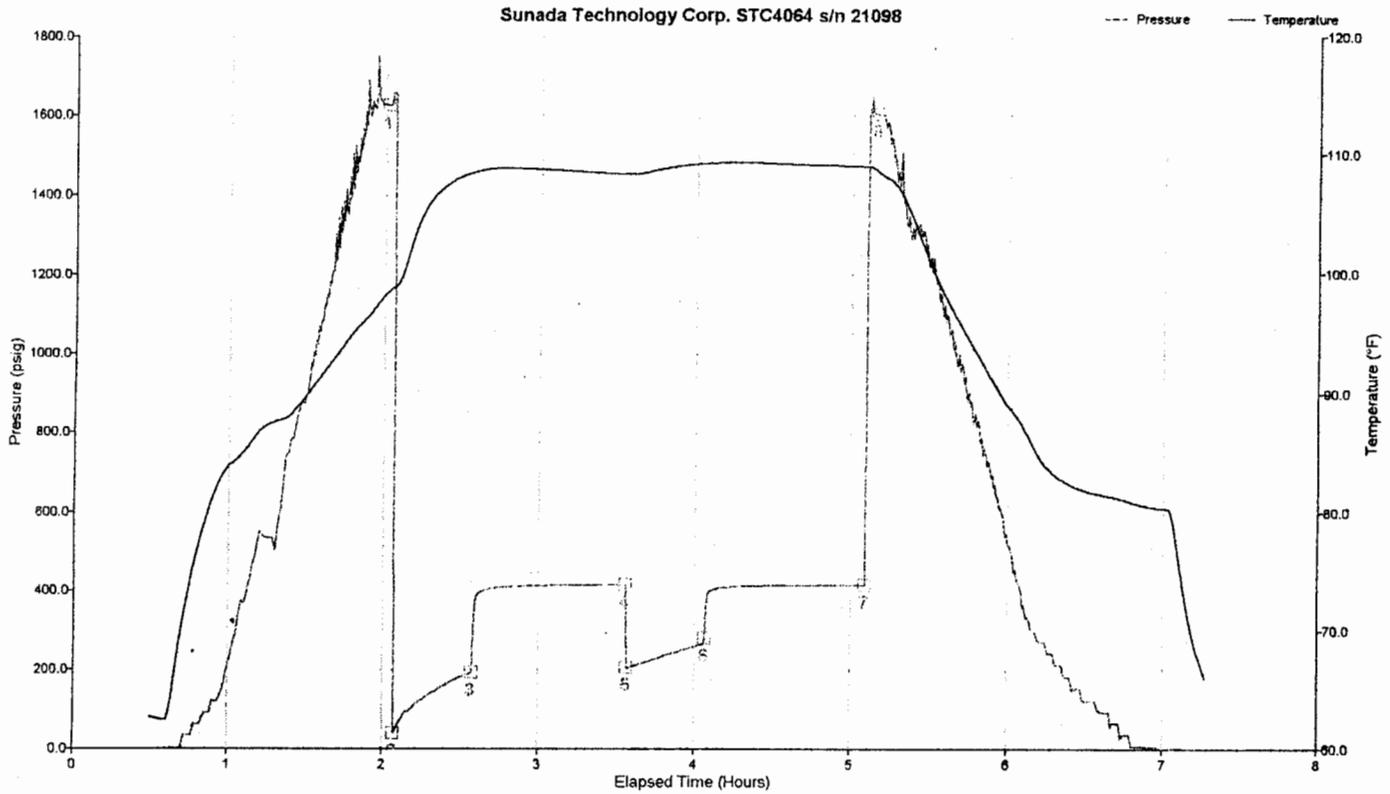
	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.23</u> @ <u>75</u> °F.	<u>28,000</u> ppm
Recovery Mud	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Recovery Mud Filtrate	<u>--</u> @ <u>--</u> °F.	<u>--</u> ppm
Mud Pit Sample	<u>.40</u> @ <u>65</u> °F.	<u>18,000</u> ppm
Mud Pit Sample Filtrate	<u>.40</u> @ <u>65</u> °F.	<u>18,000</u> ppm

Sample Taken By JOHN C. RIEDL

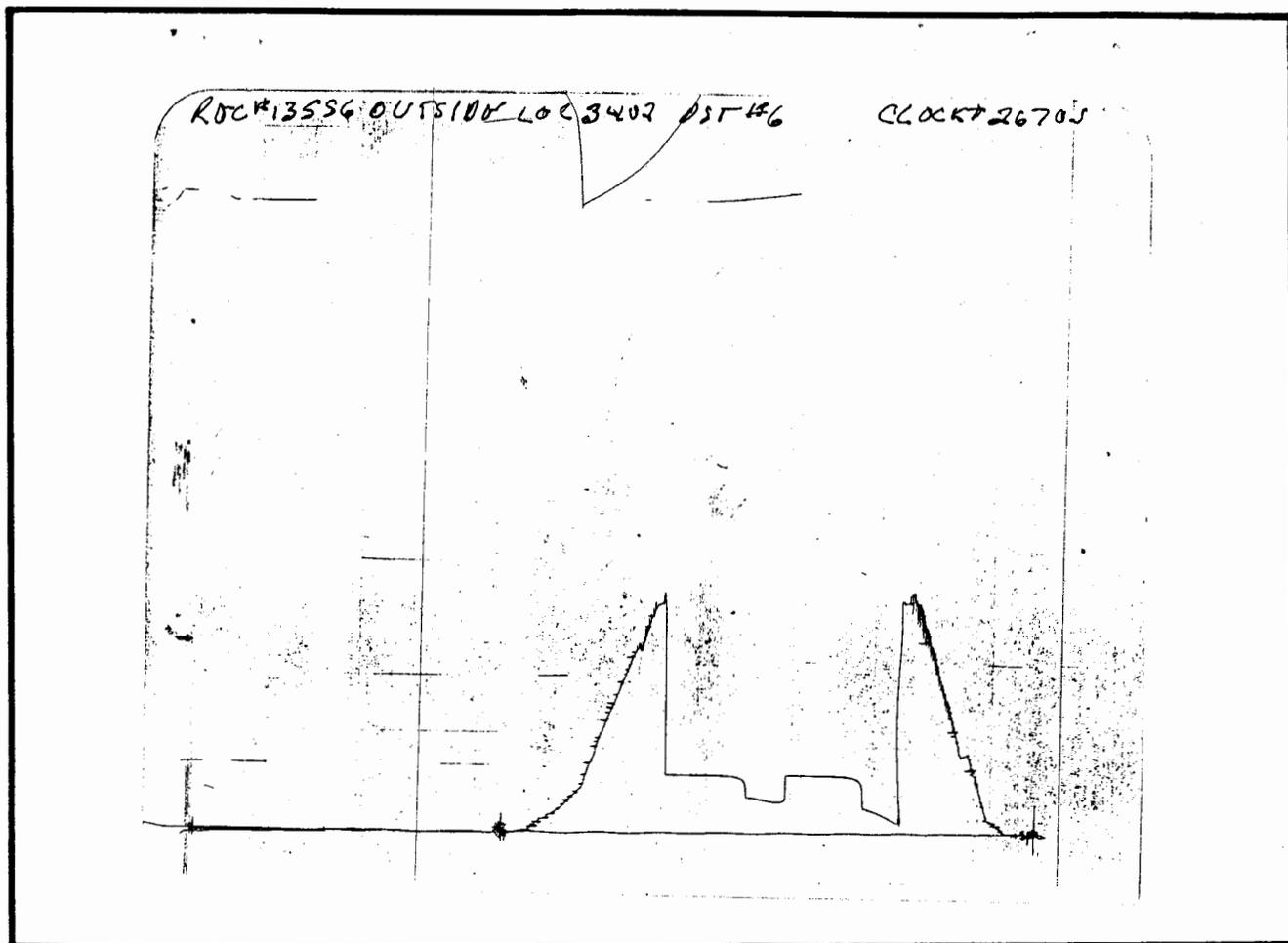
Witness By Bill Ree

Remarks Pit filtrate triton dish chlorides were 18,000 Ppm.
Recovery filtrate triton dish chlorides were 24,000 Ppm.
Recovery water dish chlorides were 26,000 Ppm.

Well LSD: DST 6 SIMPSON SAND 3393-3405
 Well Name: SMITH ESTATES B 5-21
 Company: F G HOLL
 Battery on: Sep 30, 2001 at 20:00:00
 Notes: REC. GTS FINAL SHUT-IN 60'GO 60'G+OCM 500"GW 26,000PPM



Tag	Pressure	Temperature	Comment
1	1622.65 psig	98.46 °F	2001-09-30 22:01:00
2	39.38 psig	99.01 °F	2001-09-30 22:04:30
3	194.36 psig	108.48 °F	2001-09-30 22:34:30
4	416.42 psig	108.30 °F	2001-09-30 23:33:30
5	206.51 psig	108.30 °F	2001-09-30 23:34:00
6	280.97 psig	109.20 °F	2001-10-01 00:04:00
7	416.52 psig	108.97 °F	2001-10-01 01:05:30
8	1600.47 psig	108.60 °F	2001-10-01 01:09:30



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud	1623	1623	PSI
(B) First Initial Flow Pressure.....	39	39	PSI
(C) First Final Flow Pressure	194	194	PSI
(D) Initial Closed-in Pressure	416	416	PSI
(E) Second Initial Flow Pressure.....	207	207	PSI
(F) Second Final Flow Pressure.....	281	281	PSI
(G) Final Closed-in Pressure.....	417	417	PSI
(H) Final Hydrostatic Mud	1600	1600	PSI



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Page 1 of 2 Pages

Company F. G. Holl Company, LLC Lease & Well No. Smith Estate "B" #5-21
 Elevation 1752 KB Formation Arbuckle Effective Pay -- Ft. Ticket No. J1165
 Date 10-1-01 Sec. 21 Twp. 21S Range 11W County Stafford State Kansas
 Test Approved By Bill Ree Diamond Representative John C. Riedl

Formation Test No. 7 Interval Tested from 3,427 ft. to 3,434 ft. Total Depth 3,434 ft.
 Packer Depth 3,422 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.
 Packer Depth 3,427 ft. Size 6 3/4 in. Packer Depth -- ft. Size -- in.

Depth of Selective Zone Set ft.
 Top Recorder Depth (Inside) 3,417 ft. Recorder Number Elec. Cap. 5,000 psi
 Bottom Recorder Depth (Outside) 3,431 ft. Recorder Number 13556 Cap. 5,475 psi
 Below Straddle Recorder Depth ft. Recorder Number Cap. psi

Drilling Contractor Sterling Drlg Company - Rig 1 Drill Collar Length 245 ft. I.D. 2 1/4 in.
 Mud Type Chemical Viscosity 46 Weight Pipe Length -- ft. I.D. -- in.
 Weight 9.0 Water Loss 13.6 cc. Drill Pipe Length 3,158 ft. I.D. 3 1/2 in.
 Chlorides 15,000 P.P.M. Test Tool Length 24 ft. Tool Size 3 1/2 - IF in.
 Jars: Make Bowen Serial Number Not Run Anchor Length 7 ft. Size 4 1/2 - FH in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 - XH in.

Blow: 1st Open: Weak blow. Slow build to 2 1/2 ins. by end.
 2nd Open: Fair blow. Slow build to 4 ins. by end.

Recovered 125 ft. of gas in pipe
 Recovered 170 ft. of clean gassy oil = .836400 bbls. (Grind out: 10%-gas; 90%-oil) Gravity: 35 @ 60°
 Recovered 122 ft. of oil & gas cut water = .716800 bbls. (Grind out: 15%-oil; 15%-gas; 70%-water)
 Recovered 292 ft. of TOTAL FLUID = 1.553200 bbls. Chlorides: 27,000 Ppm
 Recovered ft. of

Remarks

Time Set Packer(s) 3:40 ^{AM.} P.M. Time Started Off Bottom 7:40 ^{AM.} P.M. Maximum Temperature 106°
 Initial Hydrostatic Pressure (A) 1631 P.S.I.
 Initial Flow Period Minutes 30 (B) 8 P.S.I. to (C) 62 P.S.I.
 Initial Closed In Period Minutes 60 (D) 1109 P.S.I.
 Final Flow Period Minutes 60 (E) 69 P.S.I. to (F) 115 P.S.I.
 Final Closed In Period Minutes 90 (G) 1032 P.S.I.
 Final Hydrostatic Pressure (H) 1613 P.S.I.



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FLUID SAMPLE DATA

Company F. G. Holl Company, LLC
Lease & Well No. Smith Estate "B" #5-21
Date 10-1-01 Sec. 21 Twp. 21 S Range 11 W
Formation Test No. 7 Interval Tested From 3,427 ft. to 3,434 ft. Total Depth 3,434 ft.
Formation Arbuckle

	<u>MUD PIT</u>	<u>RECOVERY</u>	
Viscosity	<u>46</u> CP	<u>--</u> CP	
Weight	<u>9.0</u>	<u>--</u>	TOO OILY TO CHECK.
Water Loss	<u>13.6</u> CC	<u>--</u> CC	
PH Factor	<u>10.0</u>	<u>--</u>	

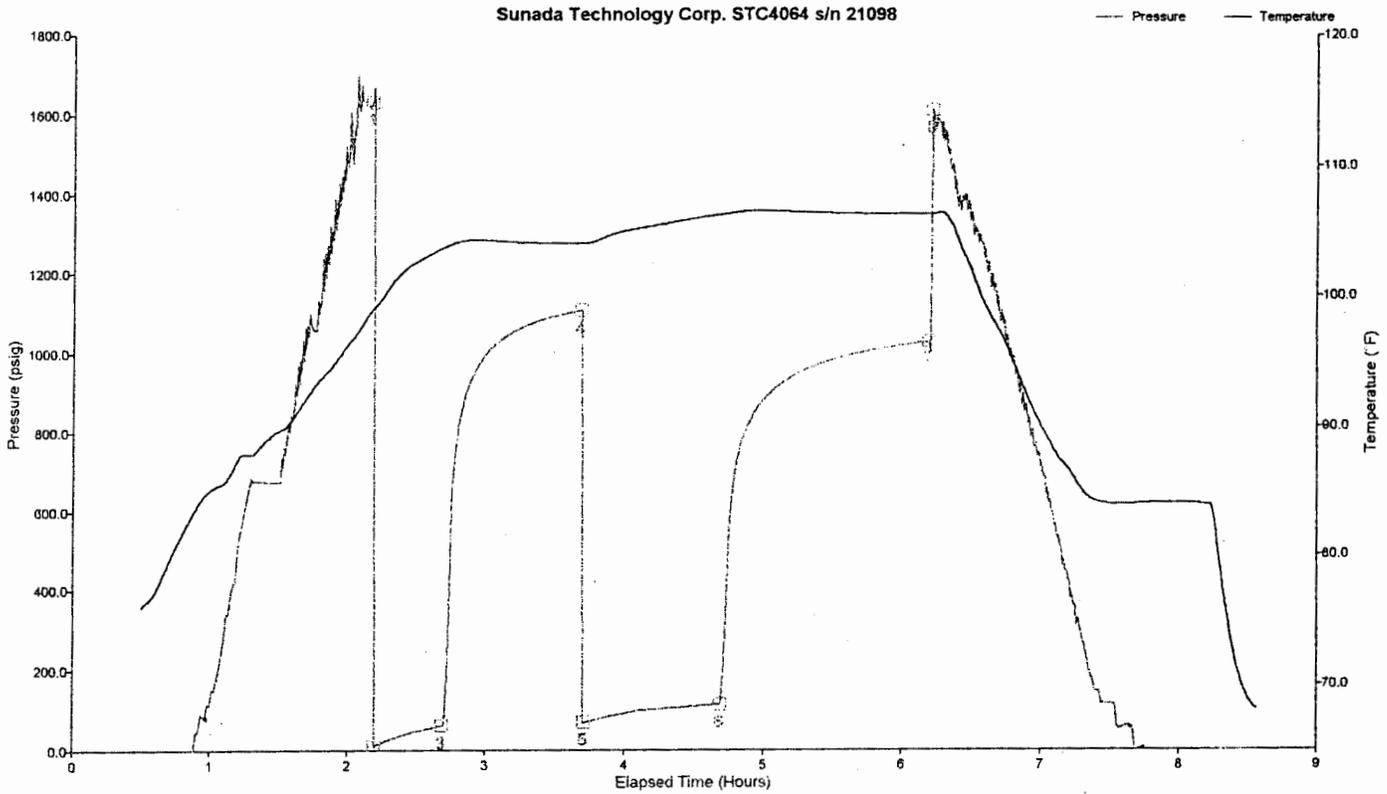
	<u>RESISTIVITY</u>	<u>CHLORIDE CONTENT</u>
Recovery Water	<u>.24 @ 70 °F.</u>	<u>28,000</u> ppm
Recovery Mud	<u>.25 @ 70 °F.</u>	<u>27,000</u> ppm
Recovery Mud Filtrate	<u>-- @ -- °F.</u>	<u>--</u> ppm
Mud Pit Sample	<u>.40 @ 75 °F.</u>	<u>16,000</u> ppm
Mud Pit Sample Filtrate	<u>.41 @ 70 °F.</u>	<u>15,000</u> ppm

Sample Taken By JOHN C. RIEDL

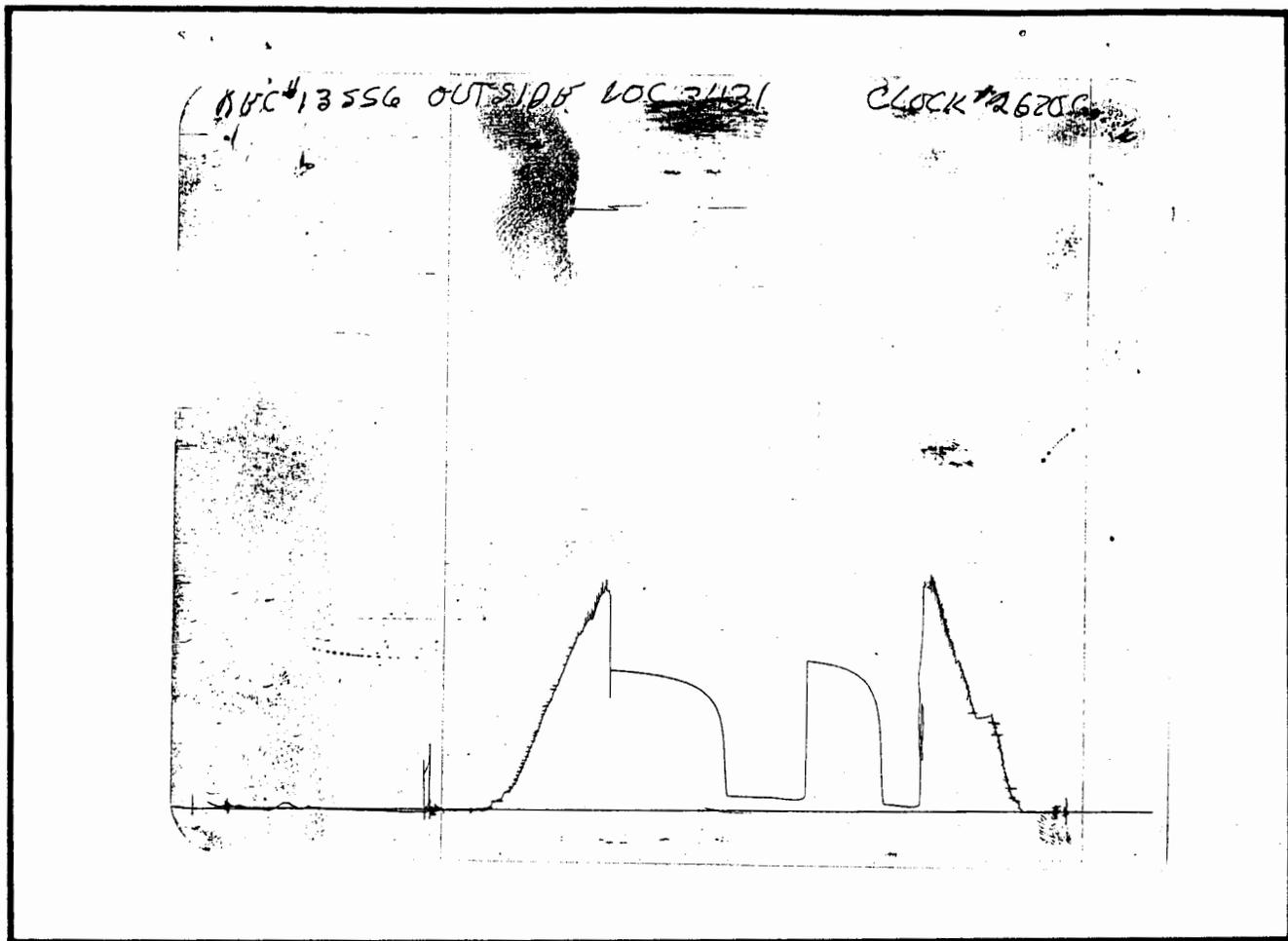
Witness By Bill Ree

Remarks Pit filtrate triton dish chlorides were 15,000 Ppm.
Recovery filtrate triton dish chlorides were 25,000 Ppm.
Recovery water dish chlorides were 27,000 Ppm.

Well LSD: DST 7 ARBUCKLE 3427-3434
 Well Name: SMITH ESTATES B 5-21
 Company: F G HOLL
 Battery on: Oct 1, 2001 at 13:30:00
 Notes: REC. 125'GIP 170'CLEAN GASSY OIL 122' OIL+GAS CUT
 WATER CHLORIDES 27,000PPM



Tag	Pressure	Temperature	Comment
1	1630.80 psig	98.94 °F	2001-10-01 15:40:30
2	7.69 psig	99.24 °F	2001-10-01 15:42:00
3	62.08 psig	103.72 °F	2001-10-01 16:11:30
4	1109.46 psig	104.07 °F	2001-10-01 17:11:00
5	68.81 psig	104.07 °F	2001-10-01 17:12:30
6	115.13 psig	106.29 °F	2001-10-01 18:11:30
7	1031.96 psig	106.32 °F	2001-10-01 19:41:30
8	1612.75 psig	106.32 °F	2001-10-01 19:43:00



This is an actual photograph of recorder chart.

POINT	PRESSURE		PSI
	Field Reading	Elec. Office Reading	
(A) Initial Hydrostatic Mud	1631	1631	PSI
(B) First Initial Flow Pressure.....	8	8	PSI
(C) First Final Flow Pressure	62	62	PSI
(D) Initial Closed-in Pressure	1109	1109	PSI
(E) Second Initial Flow Pressure	69	69	PSI
(F) Second Final Flow Pressure.....	115	115	PSI
(G) Final Closed-in Pressure.....	1032	1032	PSI
(H) Final Hydrostatic Mud	1613	1613	PSI