

KANSAS CORPORATION COMMISSION 1045118
OIL & GAS CONSERVATION DIVISION

Form ACO-1
June 2009
Form Must Be Typed
Form must be Signed
All blanks must be Filled

WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # 5144
Name: Mull Drilling Company, Inc.
Address 1: 1700 N WATERFRONT PKWY
Address 2: BLDG 1200
City: WICHITA State: KS Zip: 67206 + _____
Contact Person: Mark Shreve
Phone: (316) 264-6366
CONTRACTOR: License # 5142
Name: Sterling Drilling Company
Wellsite Geologist: Macklin M. Armstrong
Purchaser: Plains Marketing

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SLOW
- Gas D&A ENHR SIGW
- OG GSW Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic Other (Core, Expl., etc.): _____

If Workover/Re-entry: Old Well Info as follows:

Operator: _____
Well Name: _____
Original Comp. Date: _____ Original Total Depth: _____
 Deepening Re-perf. Conv. to ENHR Conv. to SWD
 Conv. to GSW
 Plug Back: _____ Plug Back Total Depth
 Commingled Permit #: _____
 Dual Completion Permit #: _____
 SWD Permit #: _____
 ENHR Permit #: _____
 GSW Permit #: _____

<u>7/1/2010</u>	<u>7/12/2010</u>	<u>8/3/2010</u>
Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date

API No. 15 - 15-185-23629-00-00
Spot Description: _____
SW NW NE NE Sec. 17 Twp. 21 S. R. 12 East West
345 Feet from North / South Line of Section
1147 Feet from East / West Line of Section
Footages Calculated from Nearest Outside Section Corner:
 NE NW SE SW
County: Stafford
Lease Name: Hall 'D' Well #: 2-17
Field Name: Mueller
Producing Formation: Arbuckle
Elevation: Ground: 1857 Kelly Bushing: 1868
Total Depth: 3580 Plug Back Total Depth: 3522
Amount of Surface Pipe Set and Cemented at: 280 Feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set: _____ Feet
If Alternate II completion, cement circulated from: _____
feet depth to: _____ w/ _____ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: 36000 ppm Fluid volume: 1200 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Paul's Oilfield Service
Lease Name: Stargel License #: 31085
Quarter NE Sec. 4 Twp. 22 S. R. 12 East West
County: Stafford Permit #: 15-185-21765-00-01

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Letter of Confidentiality Received
Date: 10/06/2010
- Confidential Release Date: 10/10/2012
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: NAOMI JAMES Date: 10/06/2010

1045118

Operator Name: Mull Drilling Company, Inc. Lease Name: Hall 'D' Well #: 2-17

Sec. 17 Twp. 21 S. R. 12 East West County: Stafford

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Electric Log Run <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run: Log CDL/CNL/PE; DIL; Sonic; Micro	<input checked="" type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample <table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Name</th> <th style="text-align: left;">Top</th> <th style="text-align: left;">Datum</th> </tr> </thead> <tbody> <tr> <td>Heebner Shale</td> <td>3094</td> <td>-1226</td> </tr> <tr> <td>Toronto</td> <td>3112</td> <td>-1244</td> </tr> <tr> <td>Douglas</td> <td>3126</td> <td>-1258</td> </tr> <tr> <td>Brown Lime</td> <td>3222</td> <td>-1354</td> </tr> <tr> <td>Lansing</td> <td>3237</td> <td>-1369</td> </tr> <tr> <td>B/KC</td> <td>3457</td> <td>-1589</td> </tr> <tr> <td>Arbuckle</td> <td>3466</td> <td>-1598</td> </tr> </tbody> </table>	Name	Top	Datum	Heebner Shale	3094	-1226	Toronto	3112	-1244	Douglas	3126	-1258	Brown Lime	3222	-1354	Lansing	3237	-1369	B/KC	3457	-1589	Arbuckle	3466	-1598
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Arbuckle	3466	-1598																							

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives
Surface	12.250	8.6250	22	280	Common		3% cc, 2% gel
Production	7.8750	5.5000	14	3570	50/50 Poz	125	

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone	-			
	-			

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth
4	3496' - 3500'	250 gal 15% MCA	

TUBING RECORD: Size: <u>2 7/8"</u> Set At: <u>3507'</u> Packer At: _____		Liner Run: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Date of First, Resumed Production, SWD or ENHR. <u>8/3/2010</u>		Producing Method: <input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain) _____
Estimated Production Per 24 Hours	Oil Bbls. <u>25</u>	Gas Mcf <u>0</u>
	Water Bbls. <u>0</u>	Gravity <u>39</u>

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input checked="" type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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Mark Parkinson, Governor
Thomas E. Wright, Chairman
Joseph F. Harkins, Commissioner
Ward Loyd, Commissioner

October 05, 2010

Mark Shreve
Mull Drilling Company, Inc.
1700 N WATERFRONT PKWY
BLDG 1200
WICHITA, KS 67206

Re: ACO1
API 15-185-23629-00-00
Hall 'D' 2-17
NE/4 Sec.17-21S-12W
Stafford County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
Mark Shreve

CONSERVATION DIVISION

Finney State Office Building, 130 S. Market, Room 2078, Wichita, KS 67202-3802
(316) 337-6200 • Fax: (316) 337-6211 • <http://kcc.ks.gov/>

GENERAL INFORMATION

Client Information:

Company: MULL DRILLING CO INC

Contact: ERNIE MORRISON

Phone: Fax: e-mail:

Site Information:

Contact: MAC ARMSTRONG

Phone: Fax: e-mail:

Well Information:

Name: HALL D 2-17

Operator: MULL DRILLING CO INC

Location-Downhole:

Location-Surface: S17/21S/12W STAFFORD CTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: MAC ARMSTRONG

Test Type: CONVENTIONAL Job Number: D776

Test Unit:

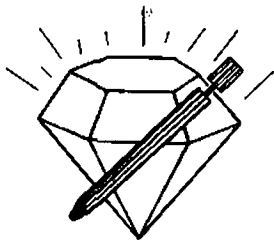
Start Date: Start Time: 10:45:00

End Date: 2010/07/08 End Time: 19:15:00

Report Date: 2010/07/08 Prepared By: JOHN RIEDL

Remarks: Qualified By: MAC ARMSTRONG

RECOVERY: 120' SLIGHTLY WATER CUT MUD (GAS STABILIZED AT 2095 MCF/D)
200' SLIGHTLY MUD CUT WATER



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

ON: 11:00 07/08/10

OFF: 19:15 07/08/10

DRILL-STEM TEST TICKET

FILEstc/halld2-17dst1

Company MULL DRILLING COMPANY, INC. Lease & Well No. HALL "D" #2-17

Contractor STERLING RIG #1 Charge to MULL DRILLING COMPANY, INC.

Elevation _____ Formation LKC "C+D" Effective Pay _____ Ft. Ticker No. D776

Date 7/08/10 Sec. 17 Twp. 21 S Range 12 W County STAFFORD State KANSAS

Test Approved By MAC ARMSTRONG Diamond Representative JOHN C. RIEDL

Formation Test No. 1 Interval Tested from 3270 ft. to 3295 ft. Total Depth 3295 ft.

Packer Depth 3265 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Packer Depth 3270 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3273 ft. Recorder Number 30046 Cap. 6,000 P.S.I.

Bottom Recorder Depth (Outside) 3292 ft. Recorder Number 11073 Cap. 3,900 P.S.I.

Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 59 Drill Collar Length 250 ft. I.D. 2 1/4 in

Weight 9.3 Water Loss 11.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in

Chlorides 4,100 P.P.M. Drill Pipe Length 3000 ft. I.D. 3 1/2 in

Jars: Make BOWEN Serial Number NOT USED Test Tool Length 20 ft. Tool Size 3 1/2-IF in

Did Well Flow? NO Reversed Out NO Anchor Length 25 ft. Size 4 1/2-FH in

Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in

Blow: 1st Open: STRONG (B.O.B IMMEDIATE; GTS 3 MIN.) STRONG BB

2nd Open: STRONG (GTS THRUOUT) SEE GAS VOLUME REPORT STRONG BB

Recovered 120 ft. of SLWCM (5% WATER 95% MUD)

Recovered 200 ft. of SLMCW (5%MUD 95% WATER) CHLORIDES 80,000Ppm RES. .01@ 70 DEGREES

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: _____

Time Set Packer(s) 1:35 P.M A.M. P.M. Time Started Off Bottom 4:45 P.M A.M. P.M. Maximum Temperature 100

Initial Hydrostatic Pressure (A) 1507 P.S.I.

Initial Flow Period Minutes 10 (B) 503 P.S.I. to (C) 523 P.S.I.

Initial Closed In Period Minutes 30 (D) 1178 P.S.I.

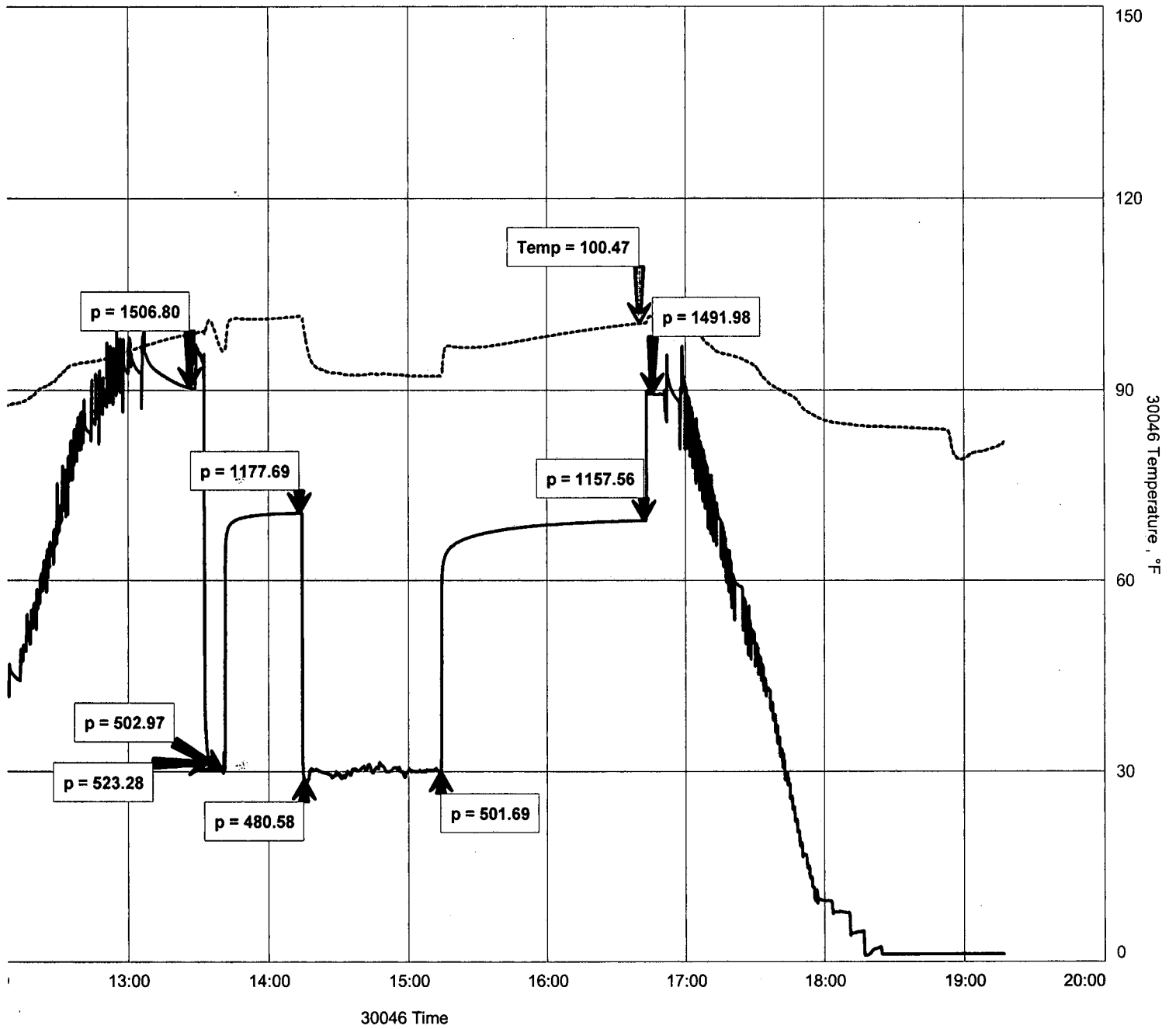
Final Flow Period Minutes 60 (E) 481 P.S.I. to (F) 501 P.S.I.

Final Closed In Period Minutes 90 (G) 1158 P.S.I.

Final Hydrostatic Pressure (H) 1482 P.S.I.

Diamond Testing 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, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for

HALL D 2-17



GENERAL INFORMATION

Client Information:

Company: MULL DRILLING CO INC

Contact: ERNIE MORRISON

Phone: Fax: e-mail:

Site Information:

Contact: MAC ARMSTRONG

Phone: Fax: e-mail:

Well Information:

Name: HALL "D" #2-17

Operator: MULL DRILLING CO INC

Location-Downhole:

Location-Surface: S17/21S/12W STAFFORD CTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: MAC ARMSTRONG

Test Type: CONVENTIONAL Job Number: D777

Test Unit:

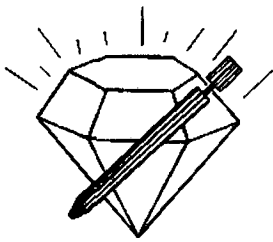
Start Date: 2010/07/09 Start Time: 05:15:00

End Date: 2010/07/09 End Time: 13:00:00

Report Date: 2010/07/09 Prepared By: JOHN RIEDL

Remarks: Qualified By: MAC ARMSTRONG

RECOVERY: 700' GAS IN PIPE
80' GAS CUT MUD



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

ON: 5:15 07/09/10

OFF: 13:00 07/09/10

DRILL-STEM TEST TICKET

FILEstc/halld2-17dst2

Company MULL DRILLING COMPANY, INC. Lease & Well No. HALL "D" #2-17
 Contractor STERLING RIG #2 Charge to MULL DRILLING COMPANY, INC.
 Elevation 1857 G.L. Formation LKC "E,F,G" Effective Pay _____ Ft. Ticket No. D777
 Date 7/09/10 Sec. 17 Twp. 21 S Range 12 W County STAFFORD State KANSAS
 Test Approved By MAC ARMSTRONG Diamond Representative JOHN C. RIEDL

Formation Test No. 2 Interval Tested from 3300 ft. to 3330 ft. Total Depth 3330 ft.
 Packer Depth 3295 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 3300 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3303 ft. Recorder Number 30046 Cap. 6,000 P.S.I.
 Bottom Recorder Depth (Outside) 3327 ft. Recorder Number 11073 Cap. 3,900 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 56 Drill Collar Length 250 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 8.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 6,000 P.P.M. Drill Pipe Length 3030 ft. I.D. 3 1/2 in.
 Jars: Make BOWEN Serial Number NOT USED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 30 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG (B.O.B 1 MINUTE) NO BB
 2nd Open: STRONG (B.O.B 1 MINUTE) NO BB

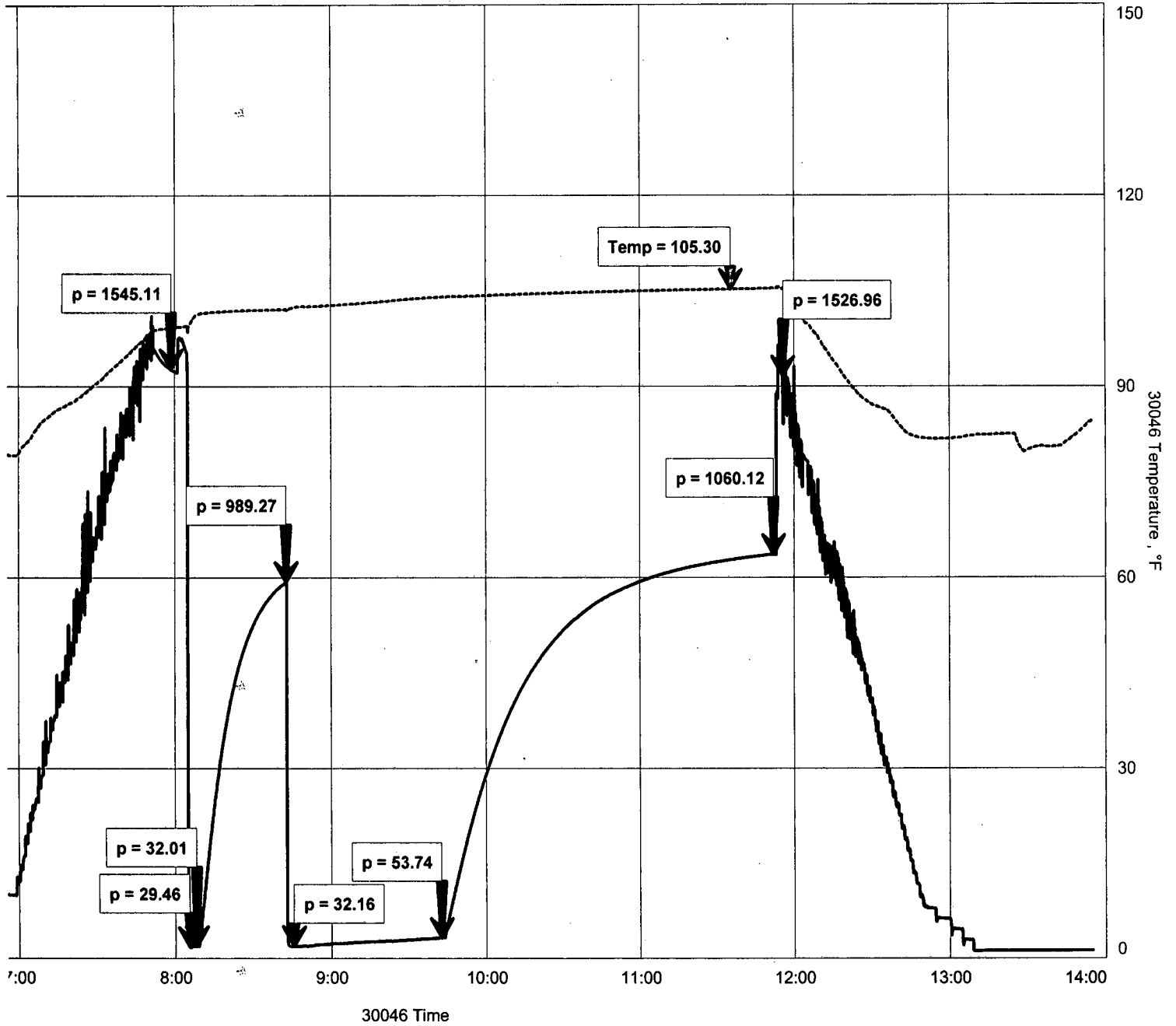
Recovered 700 ft. of GAS IN PIPE
 Recovered 80 ft. of GCM (15%GAS 85%MUD)
 Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID RECOVERY: 80' IN DRILL COLLAR</u>	Insurance
	Total

Time Set Packer(s) 7:10 A.M. A.M. P.M. Time Started Off Bottom 10:45 A.M. A.M. P.M. Maximum Temperature 105
 Initial Hydrostatic Pressure (A) 1545 P.S.I.
 Initial Flow Period Minutes 5 (B) 29 P.S.I. to (C) 32 P.S.I.
 Initial Closed In Period Minutes 30 (D) 989 P.S.I.
 Final Flow Period Minutes 60 (E) 32 P.S.I. to (F) 54 P.S.I.
 Final Closed In Period Minutes 120 (G) 1060 P.S.I.
 Final Hydrostatic Pressure (H) 1527 P.S.I.

Diamond Testing 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, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for

HALL D 2-17



GENERAL INFORMATION

Client Information:

Company: MULL DRILLING CO. INC

Contact: ERNIE MORRISON

Phone: Fax: e-mail:

Site Information:

Contact: MAC ARMSTRONG

Phone: Fax: e-mail:

Well Information:

Name: HALL" D" # 2-17

Operator: MULL DRILLING CO. INC

Location-Downhole:

Location-Surface: S17/21S/12W STAFFORD CTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: MAC ARMSTRONG

Test Type: CONVENTIONAL Job Number: D778

Test Unit:

Start Date: 2010/07/10 Start Time: 01:15:00

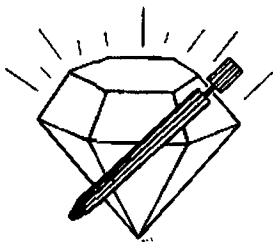
End Date: 2010/07/10 End Time: 09:15:00

Report Date: 2010/07/10 Prepared By: JOHN RIEDL

Qualified By: MAC ARMSTRONG

Remarks:

GAS TO SURFACE
RECOVERY: 300' GAS+MUD CUT OIL



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

ON: 1:15 07/10/10

OFF: 09:15 07/10/10

DRILL-STEM TEST TICKET

FILEstc/halld2-17dst3

Company MULL DRILLING COMPANY, INC. Lease & Well No. HALL "D" #2-17
 Contractor STERLING RIG #2 Charge to MULL DRILLING COMPANY, INC.
 Elevation 1857 G.L. Formation LKC "H,I,J" Effective Pay _____ Ft. Ticket No. D778
 Date 7/10/10 Sec. 17 Twp. 21 S Range 12 W County STAFFORD State KANSAS
 Test Approved By MAC ARMSTRONG Diamond Representative JOHN C. RIEDL

Formation Test No. 1 Interval Tested from 3352 ft. to 3406 ft. Total Depth 3406 ft.
 Packer Depth 3347 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 3352 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set

Top Recorder Depth (Inside) 3355 ft. Recorder Number 30046 Cap. 6,000 P.S.I.
 Bottom Recorder Depth (Outside) 3403 ft. Recorder Number 11073 Cap. 3,900 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 52 Drill Collar Length 250 ft. I.D. 2 1/4 in.
 Weight 9.3 Water Loss 11.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 8,000 P.P.M. Drill Pipe Length 3082 ft. I.D. 3 1/2 in.
 Jars: Make BOWEN Serial Number NOT USED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 54 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG (B.O.B 1 MINUTE) NO BB
 2nd Open: STRONG (B.O.B 1 MINUTE: GTS 2 MIN.) STRONG BB

Recovered 300 ft. of G+MCO (30%GAS 30%MUD 40%OIL)

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: TOTAL FLUID RECOVERY: 300' (50'IN DRILL PIPE, 250'IN DRILL COLLAR)

Price Job

Other Charges

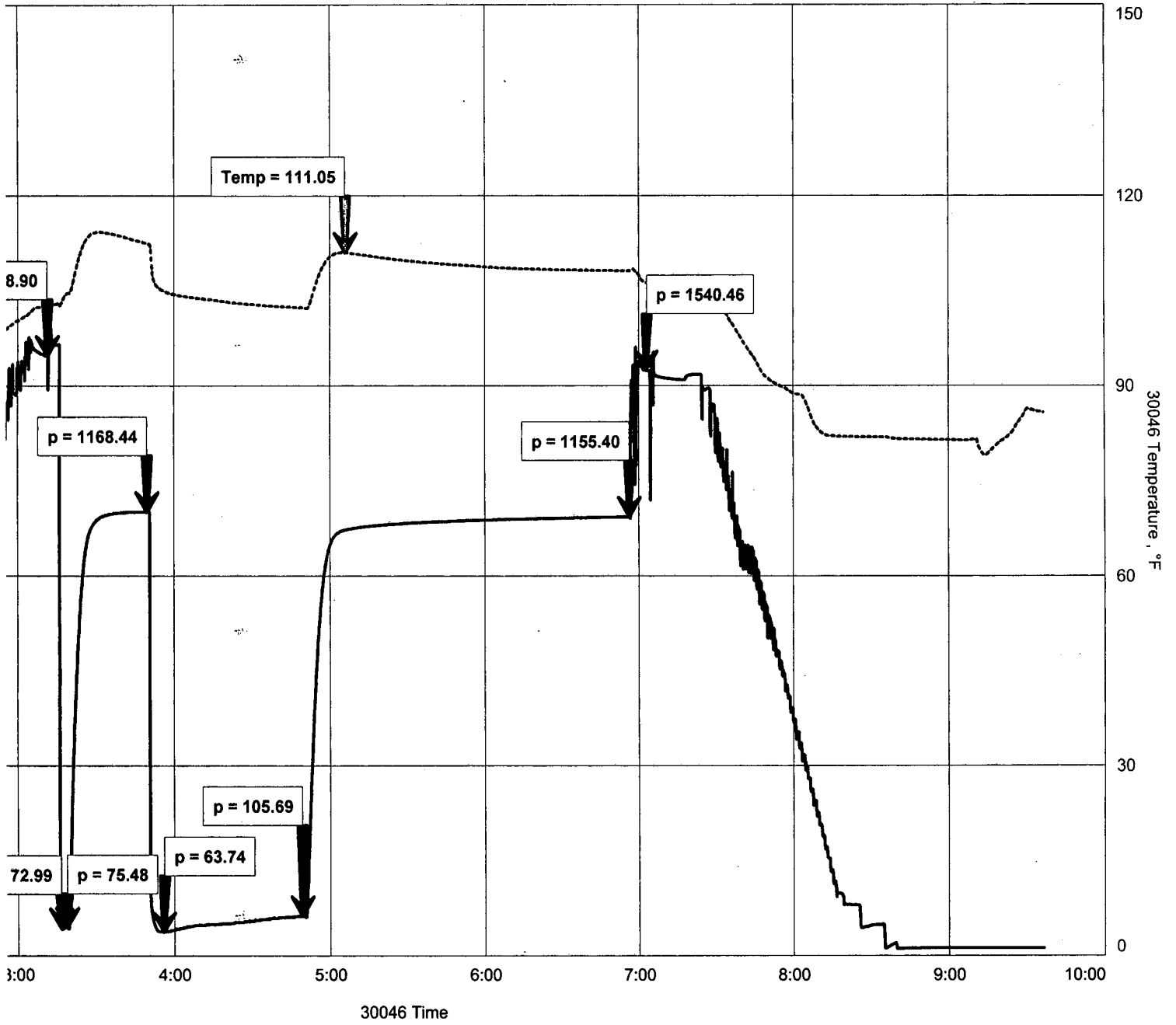
Insurance

Total

Time Set Packer(s) 3:10 A.M. A.M. P.M. Time Started Off Bottom 6:45 A.M. A.M. P.M. Maximum Temperature 111
 Initial Hydrostatic Pressure (A) 1579 P.S.I.
 Initial Flow Period Minutes 5 (B) 73 P.S.I. to (C) 75 P.S.I.
 Initial Closed In Period Minutes 30 (D) 1168 P.S.I.
 Final Flow Period Minutes 60 (E) 64 P.S.I. to (F) 106 P.S.I.
 Final Closed In Period Minutes 120 (G) 1155 P.S.I.
 Final Hydrostatic Pressure (H) 1540 P.S.I.

Diamond Testing 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, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for

HALL " D " # 2-17



GENERAL INFORMATION

Client Information:

Company: MULL DRILLING CO INC

Contact: ERNIE MORRISON

Phone: Fax: e-mail:

Site Information:

Contact: MAC ARMSTRONG

Phone: Fax: e-mail:

Well Information:

Name: HALL"D" # 2-17

Operator: MULL DRILLING CO INC

Location-Downhole:

Location-Surface: S17/21S/12W STAFFORD CTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHNN RIEDL

Supervisor: MAC ARMSTRONG

Test Type: CONVENTIONAL Job Number: D779

Test Unit:

Start Date: 2010/07/10 Start Time: 20:30:00

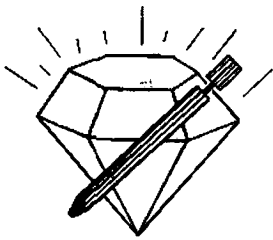
End Date: 2010/07/11 End Time: 05:30:00

Report Date: 779/01/01 Prepared By: JOHN RIEDL

Qualified By: MAC ARMSTRONG

Remarks:

RECOVERY: 480' GASSY OIL, 320' MUD+GAS CUT OIL
GAS TO SURFACE FINAL SHUT IN



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

ON: 20:30 07/10/10

OFF: 05:30 07/11/10

DRILL-STEM TEST TICKET

FILEstc/halld2-17dst4

Company MULL DRILLING COMPANY, INC. Lease & Well No. HALL "D" #2-17
 Contractor STERLING RIG #2 Charge to MULL DRILLING COMPANY, INC.
 Elevation 1857 G.L. Formation LKC "K,L" Effective Pay _____ Ft. Ticket No. D779
 Date 7/10/10 Sec. 17 Twp. 21 S Range 12 W County STAFFORD State KANSAS
 Test Approved By MAC ARMSTRONG Diamond Representative JOHN C. RIEDL

Formation Test No. 2 Interval Tested from 3431 ft. to 3473 ft. Total Depth 3473 ft.
 Packer Depth 3426 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 3431 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.

Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ 3434 ft. Recorder Number 30046 Cap. 6,000 P.S.I.
 Bottom Recorder Depth (Outside) _____ 3470 ft. Recorder Number 11073 Cap. 3,900 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 45 Drill Collar Length 250 ft. I.D. 2 1/4 in.
 Weight 9.1 Water Loss 10 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 8,000 P.P.M. Drill Pipe Length 3161 ft. I.D. 3 1/2 in.
 Jars: Make BOWEN Serial Number NOT USED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 42 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG (B.O.B 1 MINUTE) STRONG BB
 2nd Open: STRONG (B.O.B 3 MINUTES) STRONG BB

Recovered 480 ft. of GO (20%GAS 80%OIL) OIL GRAVITY 37@ 60 DEGREES

Recovered 320 ft. of M+GCO (20%MUD 30%GAS 50%OIL)

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Recovered _____ ft. of _____

Remarks: TOTAL FLUID RECOVERY: 800' (550' IN DRILL PIPE, 250' IN DRILL COLLAR)

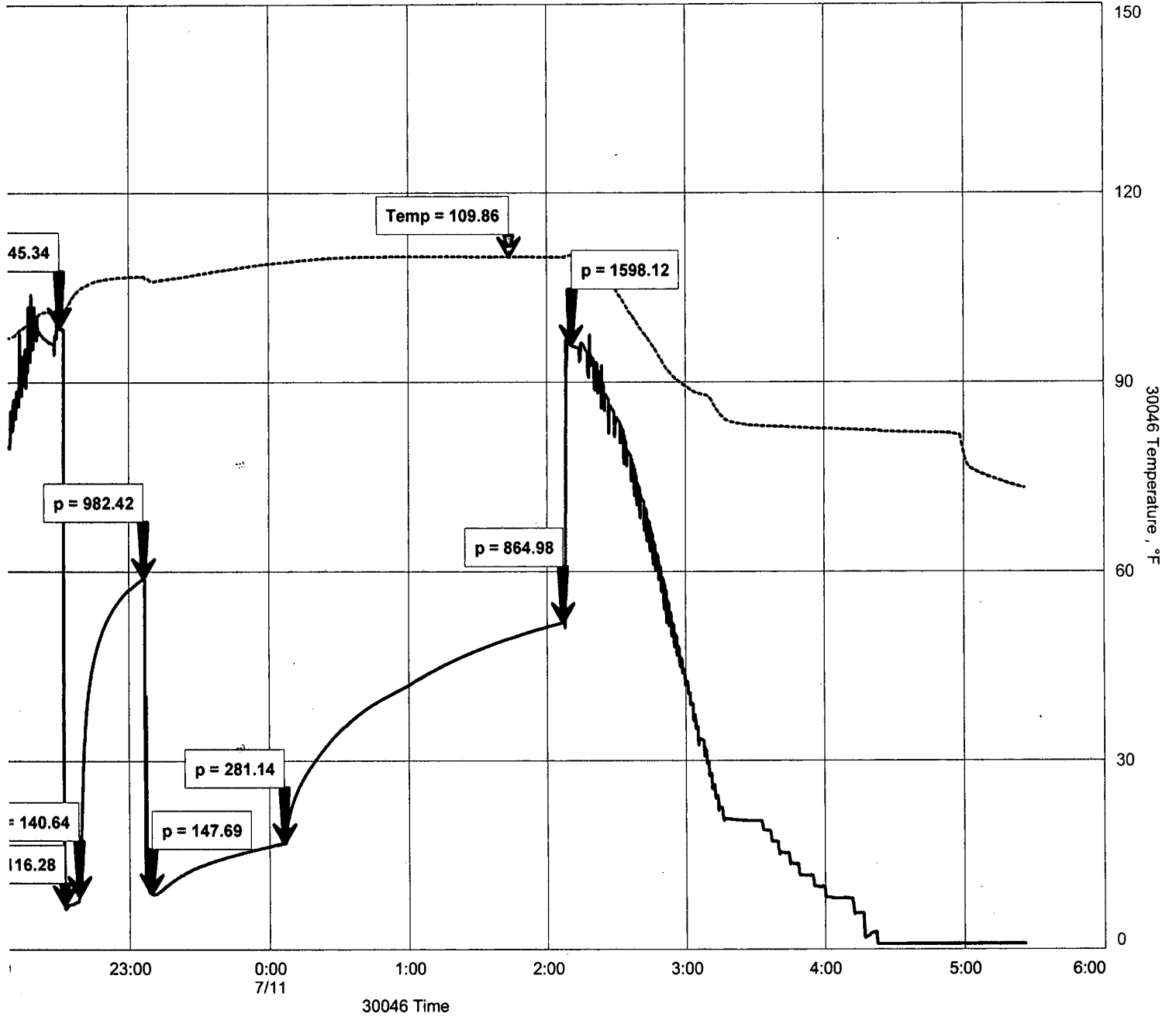
Price Job
Other Charges
Insurance
Total

Time Set Packer(s) 10:40 P.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 2:15 A.M. ^{A.M.}/_{P.M.} Maximum Temperature 110

Initial Hydrostatic Pressure (A) 1645 P.S.I.
 Initial Flow Period Minutes 5 (B) 116 P.S.I. to (C) 141 P.S.I.
 Initial Closed In Period Minutes 30 (D) 982 P.S.I.
 Final Flow Period Minutes 60 (E) 148 P.S.I. to (F) 281 P.S.I.
 Final Closed In Period Minutes 120 (G) 865 P.S.I.
 Final Hydrostatic Pressure (H) 1598 P.S.I.

Diamond Testing 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, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for

HALL "D" # 2-17



GENERAL INFORMATION

Client Information:

Company: MULL DRILLING CO INC

Contact: ERNIE MORRISON

Phone: Fax: e-mail:

Site Information:

Contact: MAC ARMSTRONG

Phone: Fax: e-mail:

Well Information:

Name: HALL" D" # 2-17

Operator: MULL DRILLING CO INC

Location-Downhole:

Location-Surface: S17/21S/12W STAFFORD CTY

Test Information:

Company: DIAMOND TESTING

Representative: JOHN RIEDL

Supervisor: MAC ARNSTROMG

Test Type: CONVENTIONAL Job Number: D780

Test Unit:

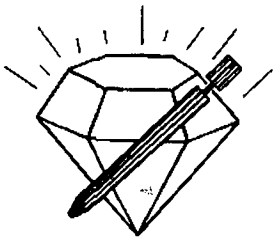
Start Date: 2010/07/11 Start Time: 13:15:00

End Date: 2919/07/11 End Time: 22:30:00

Report Date: 2010/07/11 Prepared By: JOHN RIEDL

Remarks: Qualified By: MAC ARMSTRONG

GAS TO SURFACE 30 MIN 2ND FLOW; GUAGED 3 MCF/D
RECOVERY: 1350 GASSY OIL



DIAMOND TESTING

P.O. Box 157

HOISINGTON, KANSAS 67544
(620) 653-7550 • (800) 542-7313

ON: 13:15 07/11/10

OFF: 22:50 07/11/10

DRILL-STEM TEST TICKET

FILEstc/halld2-17dst5

Company MULL DRILLING COMPANY, INC. Lease & Well No. HALL "D" #2-17
 Contractor STERLING RIG #2 Charge to MULL DRILLING COMPANY, INC.
 Elevation 1857 G.L. Formation ARBUCKLE Effective Pay _____ Ft. Ticker No. D780
 Date 7/10/11 Sec. 17 Twp. 21 S Range 12 W County STAFFORD State KANSAS
 Test Approved By MAC ARMSTRONG Diamond Representative JOHN C. RIEDL

Formation Test No. 5 Interval Tested from 3473 ft. to 3490 ft. Total Depth 3490 ft.
 Packer Depth 3468 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 3473 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 3476 ft. Recorder Number 30046 Cap. 6,000 P.S.I.
 Bottom Recorder Depth (Outside) 3487 ft. Recorder Number 11073 Cap. 3,900 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type CHEMICAL Viscosity 52 Drill Collar Length 250 ft. I.D. 2 1/4 in.
 Weight 8.8 Water Loss 10.8 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.
 Chlorides 12,000 P.P.M. Drill Pipe Length 3203 ft. I.D. 3 1/2 in.
 Jars: Make BOWEN Serial Number NOT USED Test Tool Length 20 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 17 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: STRONG (B.O.B 1 MINUTE) STRONG BB
 2nd Open: STRONG (B.O.B 3 MINUTES; GTS 30 MIN.) STRONG BB

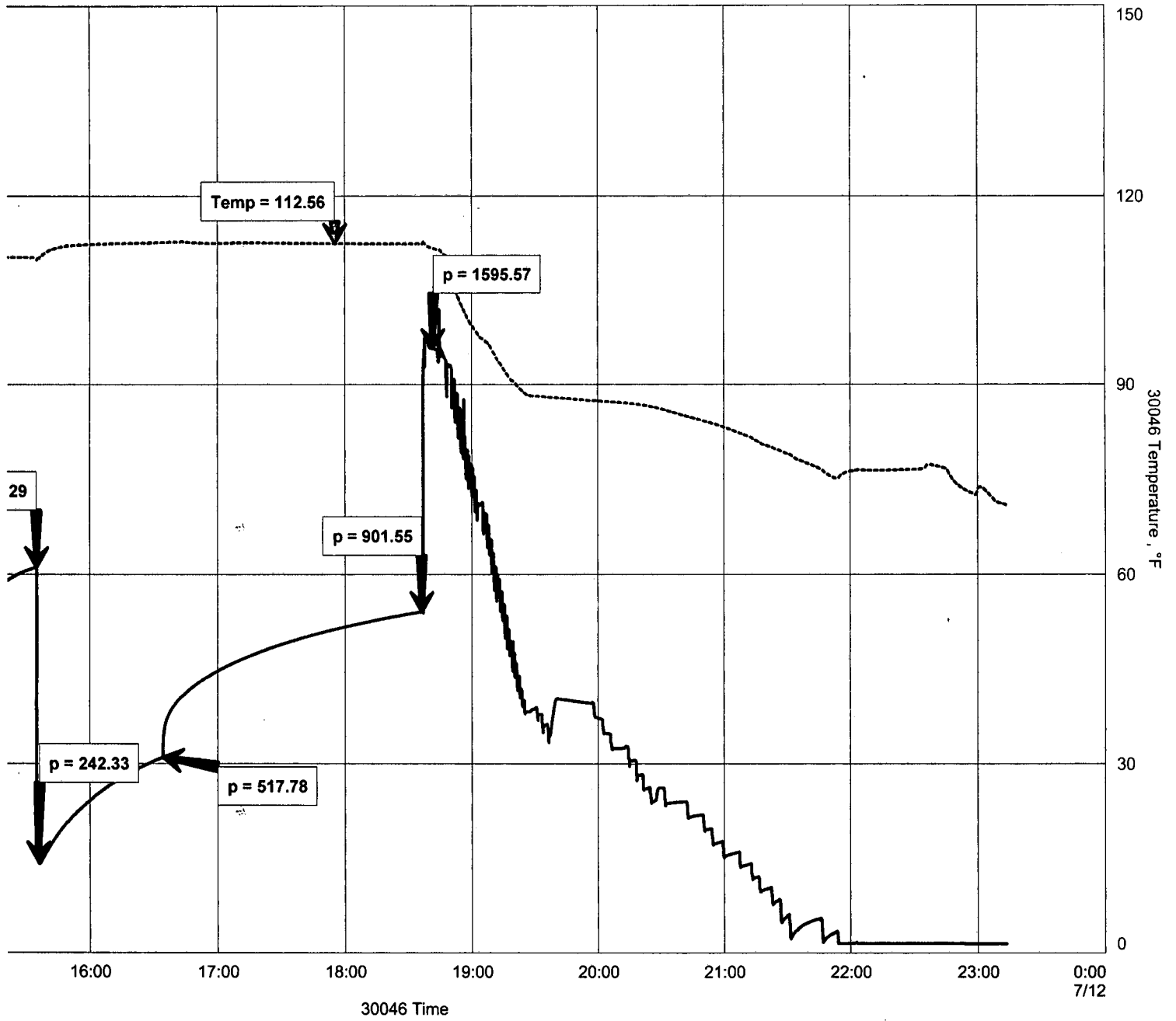
Recovered 1350 ft. of GO (30%GAS 70%OIL) SOME SLIGHTLY MUD CUT
 Recovered _____ ft. of OIL GRAVITY 36 @ 60 DEGREES

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: <u>TOTAL FLUID RECOVERY: 1350 (1100' IN DRILL PIPE, 250' IN DRILL COLLAR</u>	Insurance
<u>GAS GUAGED 3 MCF/D THROUGHOUT; NO GAS VOLUME REPORT CREATED</u>	
<u>GAS BURNED</u>	Total

Time Set Packer(s) 2:35 P.M. ^{A.M.}/_{P.M.} Time Started Off Bottom 6:10 P.M. ^{A.M.}/_{P.M.} Maximum Temperature 113
 Initial Hydrostatic Pressure (A) 1671 P.S.I.
 Initial Flow Period Minutes 5 (B) 163 P.S.I. to (C) 190 P.S.I.
 Initial Closed In Period Minutes 30 (D) 1019 P.S.I.
 Final Flow Period Minutes 60 (E) 242 P.S.I. to (F) 537 P.S.I.
 Final Closed In Period Minutes 120 (G) 902 P.S.I.
 Final Hydrostatic Pressure (H) 1596 P.S.I.

Diamond Testing 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, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for

HALL" D" # 2-17



MACKLIN M. ARMSTRONG

Geologist

330 SOUTH TYLER ROAD, NO. 311
WICHITA, KANSAS 67209

PHONE
316-440-6858

Hudson Petroleum
Westoffer #1
Hall 'D'
#2-17
17

COMPANY **MULL DRILLING COMPANY, INC.**

WELL **HALL "D" NO. 2-17**

FIELD _____

COUNTY **STAFFORD** STATE **KANSAS**

LOCATION:

345' FNL & 1147' FEL

Elevations

KB **1868**

DF _____

GL **1857**

Logging by: **Superior**
Well Services

SEC **17** TWP **21S** RGE **12W**

- | | |
|-----------------------------|---------------------|
| 1. OIL-GR-SP | 4. SONIC LOG |
| 2. CNL/CDL-GR-PE-CAL | 5. _____ |
| 3. MICRO LOG | 6. _____ |

Contractor **STERLING DRILLING COMPANY RIG NO.2**

Commenced **7-1-10**

Completed **7-13-10**

RTD **3580**

LTD **3578**

Surface Casing **8 5/8" 23# @ 265'**

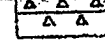
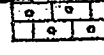
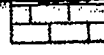
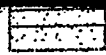
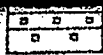
Production Casing **5 1/2" 14# @ 3570'**

Drilling Time **2800-TD**

Samples **3000-TD**

Daily Penetration Rate

Date	Depth	Activity @ 7:00 AM.	Date	Depth	Activity
7-1-10	SPUD				
7-2-10	280	WAIT ON CEMENT			
7-3-10	280	SHUT DOWN			
7-4-10	280	SHUT DOWN			
7-5-10	280	RIG UP			
7-6-10	1575	DRILLING			
7-7-10	2635	DRILLING			
7-8-10	3295	DST NO. 1			
7-9-10	3330	DST NO. 2			
7-10-10	3330	DST NO. 2			



Anhydrite

Salt

Sandstone

Shale

Carb sh

Limestone

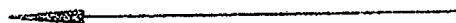
Ool. Lime

Chert

SCALE

" = 100'

DRILLING TIME IN MINUTES
PER FOOT
Rate of Penetration Increases



DEPTH

5" 10" 15" 20" 25"

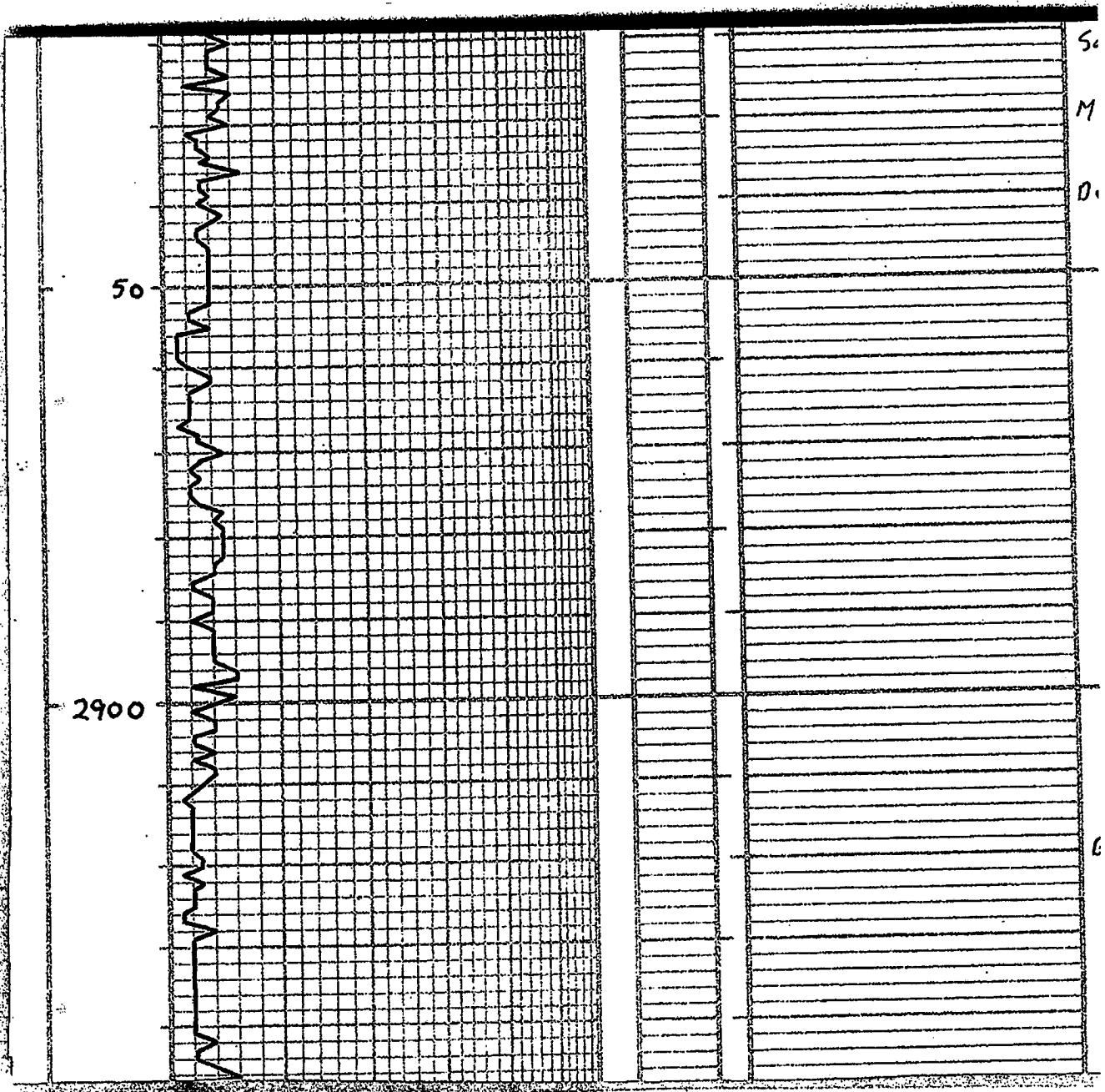
LITHOLOGY

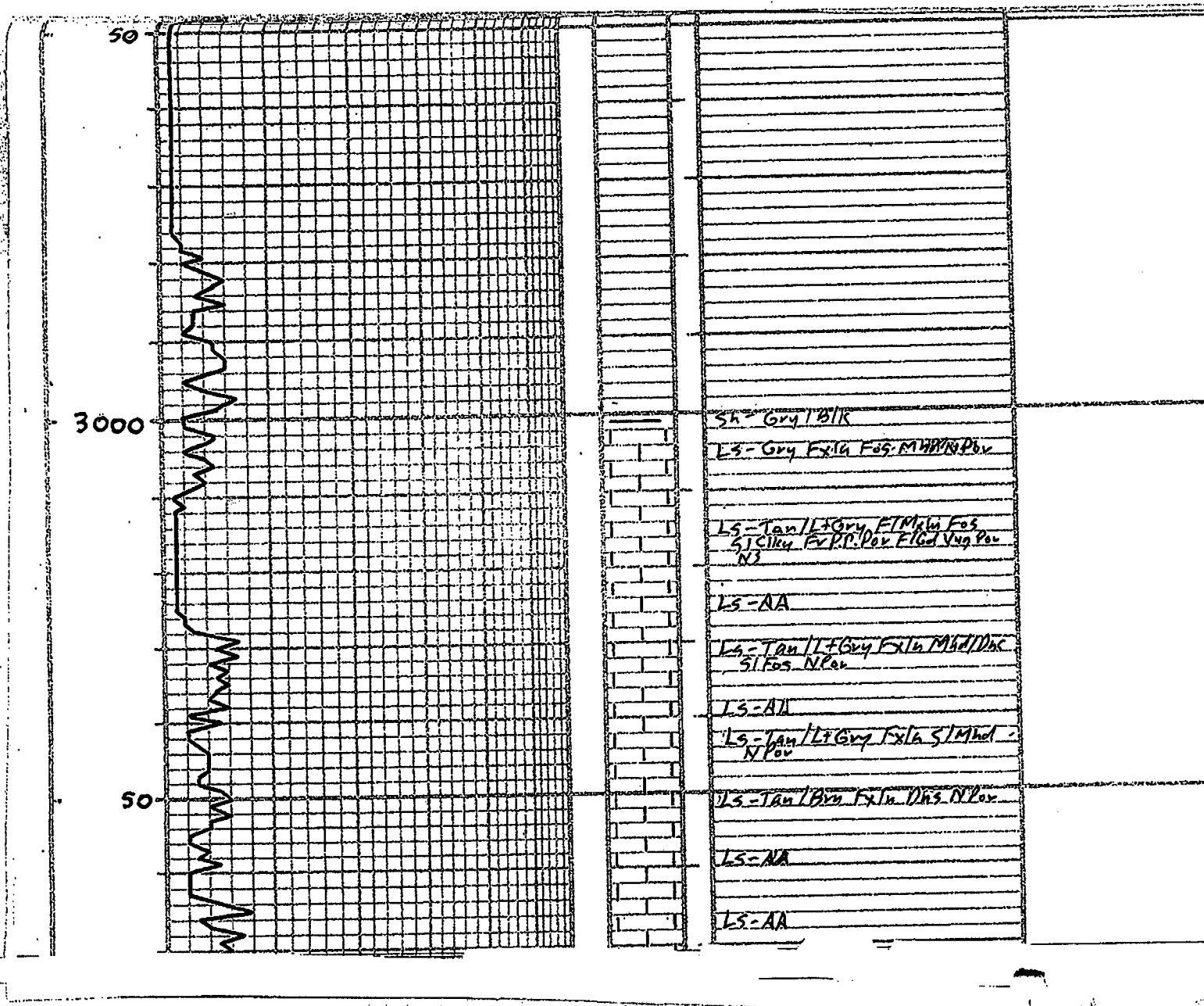
SAMPLE DESCRIPTIONS

7708

2800

Geo
11:
Test
t





50

3000

50

Sh - Gry / Blk

LS - Gry Fxlg Fos. MHR/Pbv

LS - Tan / Lt Gry Fxlg Fos. S/Siku. Fv P.P. Pov. F/Gd Vng Pov. N3

LS - AA

LS - Tan / Lt Gry Fxlg Mhd/Dnc. S/Fos. N.Pov

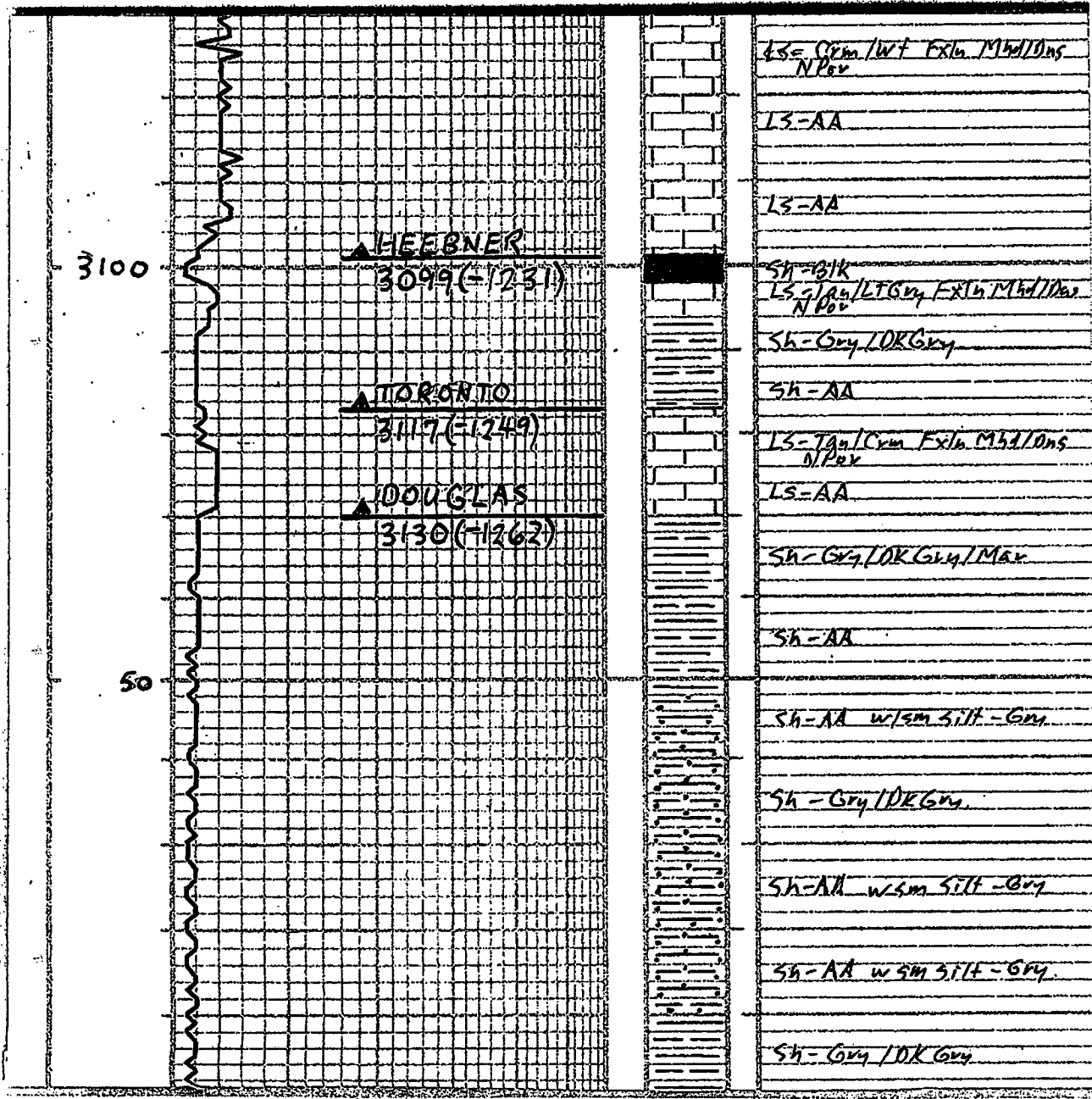
LS - AA

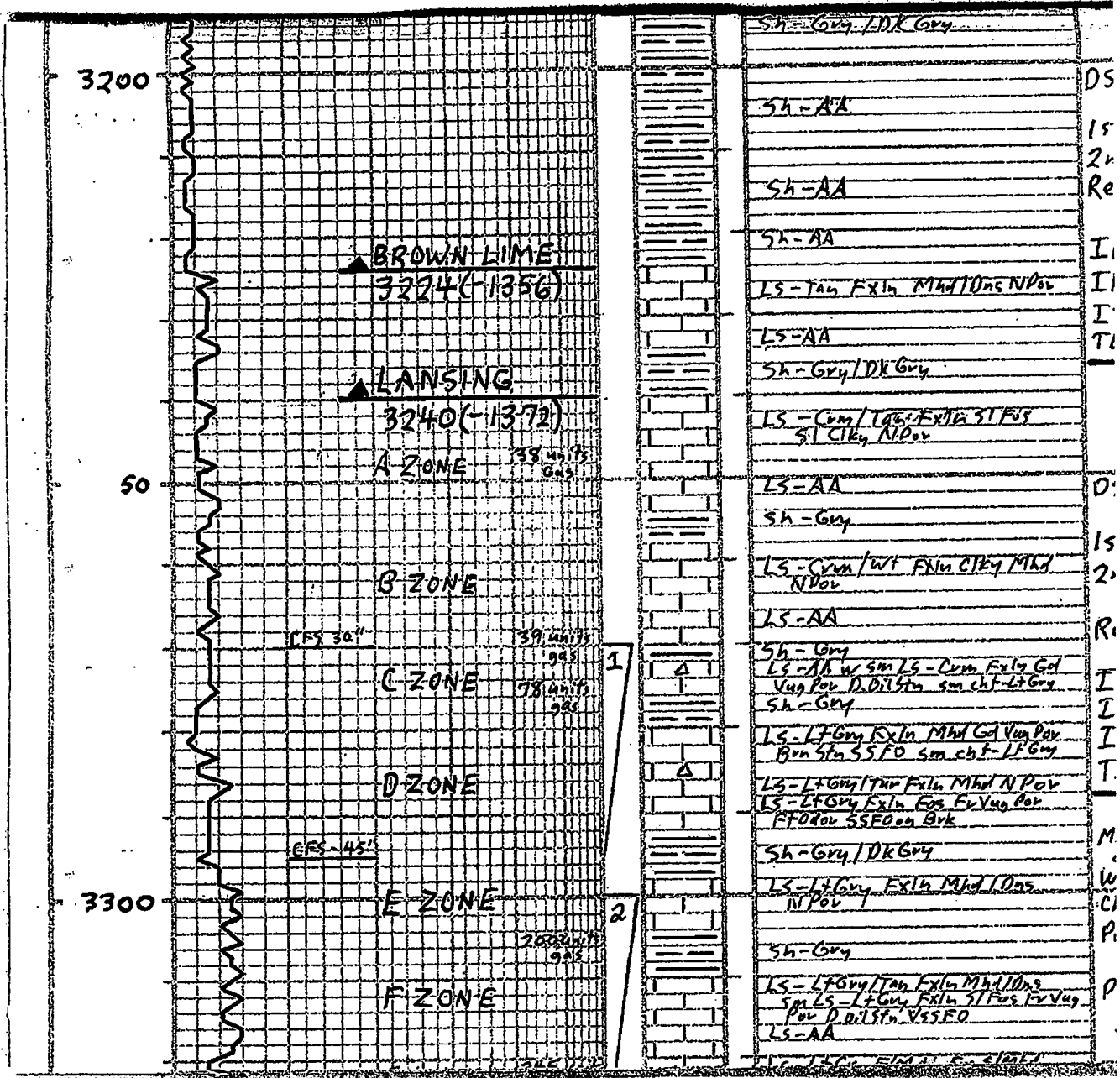
LS - Tan / Lt Gry Fxlg S/Mhd. N.Pov

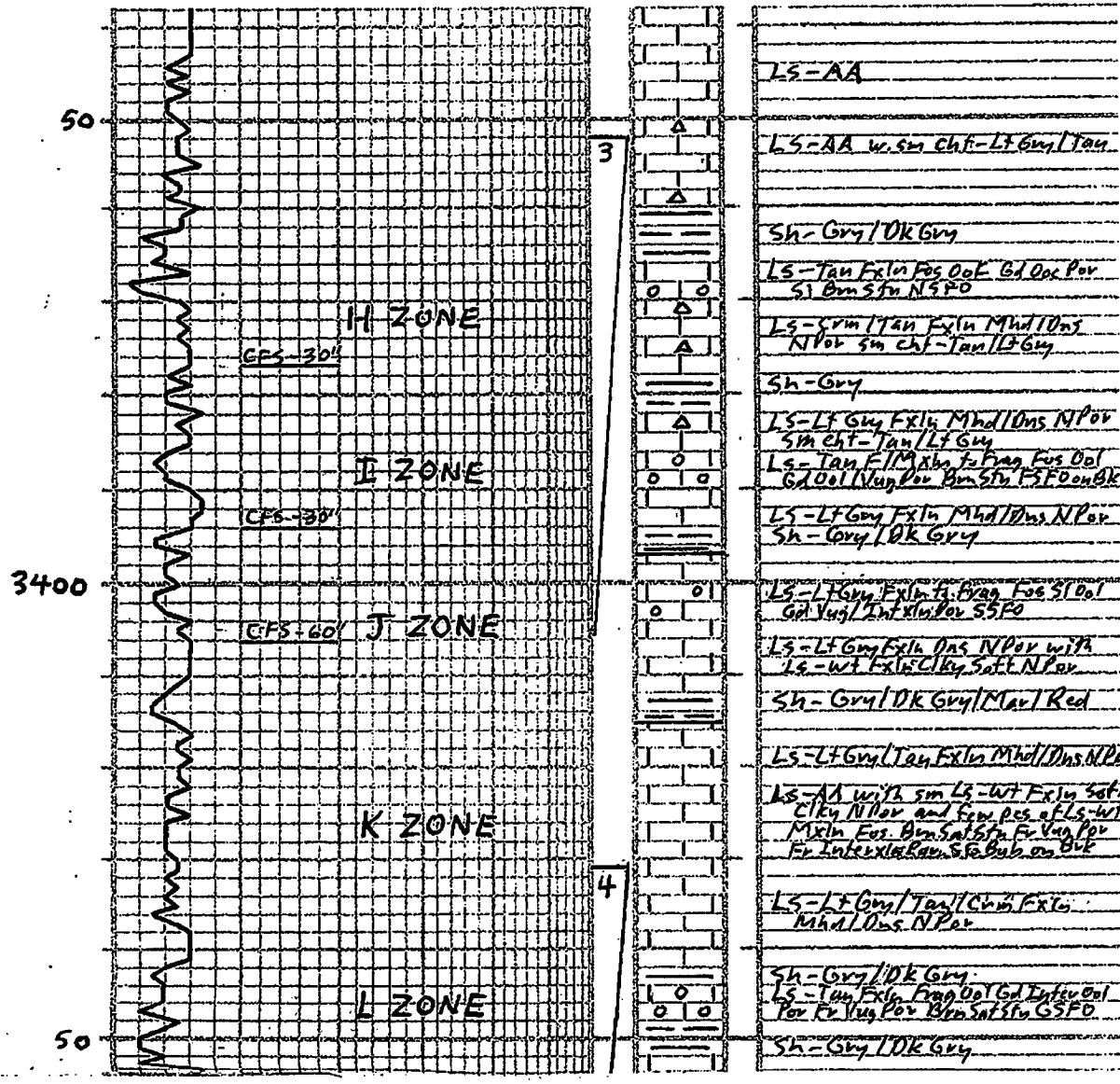
LS - Tan / Brn Fxlg Dns. N.Pov

LS - AA

LS - AA







LS-AA

LS-AA w. sm chf - Lt Gwy / Tan.

Sh - Gry / DK Gry

LS - Tan Fxln Fos Ool Gd Ool Por
Sl Brn Stn NSFO

LS - Sym / Tan Fxln Mhd / Dns
N Por sm chf - Tan / Lt Gwy

Sh - Gry

LS - Lt Gwy Fxln Mhd / Dns N Por
sm chf - Tan / Lt Gwy

LS - Tan F / M sh. to Frag Fos Ool
Gd Ool / N Por Brn Stn FSFO on BK

LS - Lt Gwy Fxln Mhd / Dns N Por
Sh - Gry / DK Gry

LS - Lt Gwy Fxln to Frag Fos Sl Ool
Gd Vug / Int Slu Por SSFO

LS - Lt Gwy Fxln Dns N Por with
LS - wt Fxln Clay Sat N Por

Sh - Gry / DK Gry / Mar / Red

LS - Lt Gwy / Tan Fxln Mhd / Dns N Por

LS - Ad with sm LS - wt Fxln Sat
Clay N Por and few pes of LS - wt
Mxln Fos Brn Sat Slu Fr Vug Por
Fr Interxla Rav. S Fe Bub on But

LS - Lt Gwy / Tan / Chm Fxln
Mhd / Dns N Por

Sh - Gry / DK Gry

LS - Lt Gwy Fxln Frag Ool Gd Intu Ool
Por Fr Vug Por Brn Sat Slu SSFO

Sh - Gry / DK Gry

H ZONE

I ZONE

J ZONE

K ZONE

L ZONE

GPS-30"

GPS-30"

GPS-60"

50

3400

50

3

4

OCT NO 7 2300

B/KANSAS CITY
3460(-1592)
ARBUCKLE
3469(=1601)

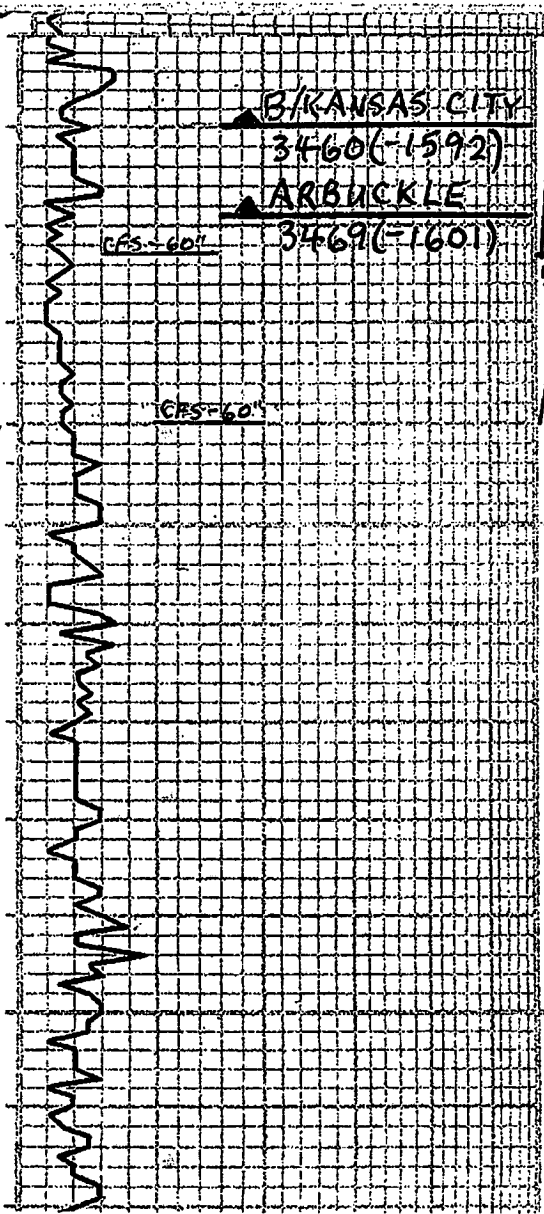
CFS-60'

CFS-60'

5

3500

50



Sh - Gray / DK Gray
Ls - Tan Fxln fcs Ool Cd Inter Ool Por Brn Sat Str GSF0
Sh - Gray / DK Gray / Gvn / R. rd / Mar
Dolo - Brn Mixlt. Suc Sat Brn Str GSFO FT Odor Fr Vng / Interxln Por
Dolo - Brn / Tan Suc Sat Brn Str Fr Vng Por F3FO
Dolo - Brn / Tan F / Mixlt. to Suc Fr Cd Vng / Interxln Por Sat Brn Str GSFO Fr Odor
Dolo - Brn Mixlt. to Suc Fr Vng Por Sat Brn Str GSFO Strg Odor
Dolo - AA
Dolo - Brn / Tan Mixlt. to Suc Fr Vng / Interxln Por FT Odor Brn Str F3FO
Dolo - AA Sm Dolo - Tan Ool & Roc Cd Ool Por Brn Str F3FO
Dolo - AA
Dolo - Tan Fxln to S1 Suc w/ Dolo - Brn / Tan Ool & Roc Fr Ool Por SSFO
Dolo - AA
Dolo - Tan Fxln to S1 Suc Mhd Ool N3 Sm ch - Lt Gray / Tan
Dolo - AA Sm ch - Lt Gray / Tan

Mud Data at 3473' at
on 7-11-10
Wt 8.8 Vis 50 W.L. 10.8
Chlor 13,500 Solids 2.8

Mud Data at 3580' at
on 7-12-10

QUALITY OILWELL CEMENTING, INC.

Phone 785-483-2025
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 4079

Date	7-2-2010	Sec.	17	Twp.	21	Range	12	County	Stafford	State	Ks	On Location		Finish	4:30 AM
------	----------	------	----	------	----	-------	----	--------	----------	-------	----	-------------	--	--------	---------

Lease Hall "D" Well No. 2-17 Location BT+SF CL., 2 S, 4 1/2 E, S/S

Contractor Sterling Drilling Rig #2 Owner To Quality Oilwell Cementing, Inc.
Type Job Surface You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.

Hole Size 12 1/4" T.D. 280' Charge To Mull Drilling
Csg. 8 7/8" Depth 284'

Tbg. Size Depth Street
Tool Depth City State 1/4 Flowseal

Cement Left in Csg. 15' Shoe Joint 15' The above was done to satisfaction and supervision of owner agent or contractor.

Meas Line Displace 17 BBLs Cement Amount Ordered 430 sx Common 3% C. 2% Gel

EQUIPMENT

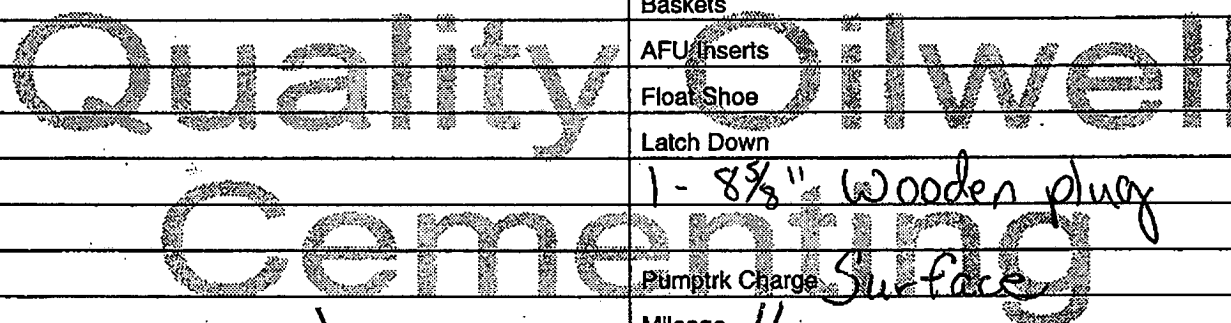
Pumptrk	9	No.	Cement Helper	Wente	6	Used 330
Bulktrk	4	No.	Driver	Jason	6	Common 430 330
Bulktrk pickup		No.	Driver	Rick	6	Poz. Mix
						Gel. 8 6

JOB SERVICES & REMARKS

Remarks: Cement did Circulate
Rat Hole
Mouse Hole Flowseal 100#
Centralizers Kol-Seal
Baskets Mud CLR 48
D/V or Port Collar CFL-117 or CD110 CAF 38
Sand
Handling 447
Mileage

FLOAT EQUIPMENT

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	1 - 8 7/8" Wooden plug
Pumptrk Charge	Surface
Mileage	16



X Signature *[Handwritten Signature]*

Tax
Discount
Total Charge



CHARGE TO: *MWLD RIG CO.*
 ADDRESS:
 CITY, STATE, ZIP CODE:

TICKET
18033

PAGE 1 OF 2

1. SERVICE LOCATION: <i>NESS</i>	WELL PROJECT NO.: <i>2117</i>	LEASE: <i>HALL - J</i>	COUNTY/PARISH: <i>STAFFORD</i>	STATE: <i>KS</i>	CITY:	DATE: <i>07/12/10</i>	OWNER:
2. SERVICE LOCATION: <i>NESS</i>	TICKET TYPE: <i>RESERVE</i>	CONTRACTOR:	RIG NAME/NO.: <i>STARRING DRILL #2</i>	SHIPPED VIA: <i>TR</i>	DELIVERED TO: <i>Logan</i>	ORDER NO.:	
3. SERVICE LOCATION:	WELL TYPE: <i>Oil</i>	WELL CATEGORY: <i>Develop</i>	JOB PURPOSE: <i>LONG STARRING</i>	WELL PERMIT NO.: <i>15-125-23629</i>	WELL LOCATION: <i>SJ 77d1.R12</i>		
4. REFERRAL LOCATION:	INVOICE INSTRUCTIONS:						

PRICE REFERENCE	SECONDARY REFERENCE/ PART NUMBER	ACCOUNTING			DESCRIPTION	QTY		UNIT PRICE		AMOUNT	
		LOC	ACCT	DPY			UM				
575		1			MILEAGE #112	25	mi	5	00	275	00
578		1			TRIP SERVICE	1	EA	1400	00	1400	00
580		1			ADDITIONAL HRS	4	HRS	200	60	800	00
221		1			ADDITIONAL HRS	2	EA	25	00	50	00
280		1			TRUCK RENTAL	1000	HR	2	50	2500	00
290		1			DRILL	2	EA	35	00	70	00
400		1			GRINDING	1	EA	155	00	155	00
409		1			TRUCK RENTAL	12	EA	65	00	780	00
410		1			TRUCK RENTAL	1	EA	100	00	100	00
413		1			PERSONNEL SCATCHERS	80	EA	50	00	800	00
415		1			TRUCK RENTAL COLLAR W/ FILLUP	1	EA	330	00	330	00
419		1			TRUCK RENTAL	1	EA	150	00	150	00

LEGAL TERMS: Customer hereby acknowledges and agrees to the terms and conditions on the reverse side hereof which include, but are not limited to, PAYMENT, RELEASE, INDEMNITY, and LIMITED WARRANTY provisions.

MUST BE SIGNED BY CUSTOMER OR CUSTOMER'S AGENT PRIOR TO START OF WORK OR DELIVERY OF GOODS:

DATE SIGNED: *07/12/10* TIME SIGNED: *2030* A.M. P.M.

REMIT PAYMENT TO:
 SWIFT SERVICES, INC.
 P.O. BOX 466
 NESS CITY, KS 67560
 785-798-2300

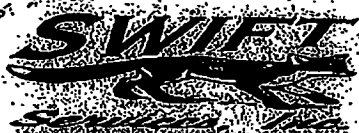
SURVEY	AGREE	UNDECIDED	DISAGREE
OUR EQUIPMENT PERFORMED WITHOUT BREAKDOWN?			
WE UNDERSTOOD AND MET YOUR NEEDS?			
OUR SERVICE WAS PERFORMED WITHOUT DELAY?			
WE OPERATED THE EQUIPMENT AND PERFORMED JOB CALCULATIONS SATISFACTORILY?			
ARE YOU SATISFIED WITH OUR SERVICE?	<input type="checkbox"/> YES	<input type="checkbox"/> NO	
<input type="checkbox"/> CUSTOMER DID NOT WISH TO RESPOND			

PAGE TOTAL	7512	00
PAGE TOTAL	2943	50
sub TOTAL	10,453	50
TAX	516	38
TOTAL	10,969	88

CUSTOMER ACCEPTANCE OF MATERIALS AND SERVICES The customer hereby acknowledges receipt of the materials and services listed on this ticket.

SWIFT OPERATOR: *DALEY* APPROVAL:

Thank You!



PO Box 466
Ness City, KS 67560
Off: 785-798-2300

TICKET CONTINUATION

TICKET No. 18033

CUSTOMER: *MILLER DRUG CO.* WELL: *217, HALL D.* DATE: *07/12/10* PAGE: *2* OF: *2*

ITEM NO.	QUANTITY	UNIT	DESCRIPTION	WEIGHT	UNIT	DATE	PAGE	OF
277	2		SPR-SQZ 2/4GZ	175	LB			
276	2		FLUCEL	215	LB			
273	2		SPR	200	LB			
286	2		HAIR	70	LB			
581	2		SERVICE CHARGE	175	LB			
583	2		DAMAGE	542	25			
SERVICE CHARGE				CUBIC FEET				
TOTAL WEIGHT				LOADED MILES		TON MILES		

294350

JOB LOG

SWIFT Services, Inc.

DATE: 07-12-10 PAGE NO. 1

CUSTOMER: MULLER CO WELL NO.: 2-17 LEASE: HALL D JOB TYPE: LONGSTRING TICKET NO.: 18233

CHART NO.	TIME	RATE (BPM)	VOLUME (BBL)(GAL)	PUMPS		PRESSURE (PSI)		DESCRIPTION OF OPERATION AND MATERIALS
				T	C	TUBING	CASING	
	2030							ON LOCATION, @ LAYING DOWN W.P. CMT: 175.5m 50' 50' 2' 2' SEC. SAF. HAZARD FIBRE R 21 350, SET PIP 350, SJ 420, T. J. SET 358 5/2, 4 1/2", RWD WIRE SCRAPER 20EA, 100FT CONT 1-11-12, TRUCK ON LOCATION, 2145
	0030							START CSGO FLOATED W
	0240							TAC Bottom. Drop Ball
	0245							BREAK CIRC, ROTATE PIPE, PIPE TO DOWN W.P.
	0415		7.4					PLUG RA 30, MH 20
	0450	5.0	7		✓		200	START WCL FLUSH
			24		✓			" FLOCCHEM 21 1000GALS
			7		✓			" WCL FLUSH
	0505		30		✓			" CMT
								DROP PLUG, WASH OUT PL.
	0510	6.0	0		✓		200	START DISP
			57		✓		300	CMT ON BITTEN
			700		✓		350	
			750		✓		500	
			800		✓		600	
	0520	4.5	860		✓		1400	LAND PLUG
	0525							RELEASE DRY SET SLIPS WASHUP TR.
	0630							JOB COMPLETE THANK YOU! DAVE JOHNSON, BRAIN