



WELL COMPLETION FORM
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # _____

Name: _____

Address 1: _____

Address 2: _____

City: _____ State: _____ Zip: _____ + _____

Contact Person: _____

Phone: (_____) _____

CONTRACTOR: License # _____

Name: _____

Wellsite Geologist: _____

Purchaser: _____

Designate Type of Completion:

- New Well Re-Entry Workover
- Oil WSW SWD SIOW
- 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 #: _____

Spud Date or Recompletion Date Date Reached TD Completion Date or Recompletion Date

API No. 15 - _____

Spot Description: _____

_____ - _____ - _____ Sec. _____ Twp. _____ S. R. _____ East West

_____ Feet from North / South Line of Section

_____ Feet from East / West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE NW SE SW

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Depth: _____ Plug Back Total Depth: _____

Amount of Surface Pipe Set and Cemented at: _____ 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: _____ ppm Fluid volume: _____ bbls

Dewatering method used: _____

Location of fluid disposal if hauled offsite: _____

Operator Name: _____

Lease Name: _____ License #: _____

Quarter _____ Sec. _____ Twp. _____ S. R. _____ East West

County: _____ Permit #: _____

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: _____
- Confidential Release Date: _____
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1169435

Operator Name: _____ Lease Name: _____ Well #: _____

Sec. _____ Twp. _____ S. R. _____ East West County: _____

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 type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i> Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i> List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample Name Top Datum
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CASING RECORD <input 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

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
_____ Perforate _____ Protect Casing _____ Plug Back TD _____ 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

TUBING RECORD: Size: _____ Set At: _____ Packer At: _____ Liner Run: Yes No

Date of First, Resumed Production, SWD or ENHR. _____ Producing Method: Flowing Pumping Gas Lift Other *(Explain)* _____

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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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 type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	Range Oil Company, Inc.
Well Name	Schmidt B 1
Doc ID	1169435

Tops

Name	Top	Datum
Heebner	867	+424
Lansing	1178	+113
Kansas City	1364	-73
Bartelsville	2062	-771
Mississippian	2205	-914
Kinderhook	2565	-1274
Viola	2657	-1366
LTD	2679	-1388



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: SCHMIDT1DST1

TIME ON: 11:41 AM
TIME OFF: 8:13 PM

Company Range Oil Co., Inc. Lease & Well No. Schmidt B #1
Contractor Summit Drlg. Co. Charge to Range oil Co., Inc.
Elevation 1,298' KB Formation Cherokee Sand Effective Pay _____ Ft. Ticket No. F183
Date 10-6-13 Sec. 21 Twp. 21 S Range 10E W County Lyon State KANSAS
Test Approved By Ken Wallace Diamond Representative Jake Fahrenbruch

Formation Test No. ONE Interval Tested from 1,960 ft. to 2,076 ft. Total Depth 2,076 ft.
Packer Depth 1,955 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 1,960 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 1,943 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 2,060 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 56 Drill Collar Length 310 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 900 P.P.M. Drill Pipe Length 1,622 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 (Safet Joint Only) Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 116 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 3.5"XH in. ^{19' PERF-3"TOP-16"BTM} Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Half inch blow, increased to 3" in bucket.
2nd Open: Half inch blow, increased to 9.5" in bucket.

Recovered 63 ft. of OSM 3% Oil, 97% Mud
Recovered _____ ft. of 60' +/- Gas In Pipe
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks:	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) 2:30 PM A.M. P.M. Time Started Off Bottom 5:30 PM A.M. P.M. Maximum Temperature 95 Deg F
Initial Hydrostatic Pressure..... (A) 976 P.S.I.
Initial Flow Period..... Minutes 30 (B) 11 P.S.I. to (C) 23 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 382 P.S.I.
Final Flow Period..... Minutes 60 (E) 28 P.S.I. to (F) 40 P.S.I.
Final Closed In Period..... Minutes 60 (G) 297 P.S.I.
Final Hydrostatic Pressure..... (H) 976 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 at cost by the party for whom the test is made.



DIAMOND TESTING
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (800) 542-7313
DRILL-STEM TEST TICKET
 FILE: SCHMIDT1DST2

TIME ON: 3:40 AM
 TIME OFF: 12:25 PM

Company Range Oil Co., Inc. Lease & Well No. Schmidt B #1
 Contractor Summit Drlg. Co. Charge to Range oil Co., Inc.
 Elevation 1,298' KB Formation Cherokee Sand Effective Pay _____ Ft. Ticket No. F184
 Date 10-7-13 Sec. 21 Twp. 21 S Range _____ 10E W County Lyon State KANSAS
 Test Approved By Ken Wallace Diamond Representative Jake Fahrenbruch

Formation Test No. TWO Interval Tested from 2078 ft. to 2110 ft. Total Depth 2110 ft.
 Packer Depth 2073 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Packer Depth 2078 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
 Depth of Selective Zone Set _____

Top Recorder Depth (Inside) 2061 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
 Bottom Recorder Depth (Outside) 2082 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 56 Drill Collar Length 310 ft. I.D. 2 1/4 in.
 Weight 9.4 Water Loss 9.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
 Chlorides 900 P.P.M. Drill Pipe Length 1740 ft. I.D. 3 1/2 in.
 Jars: Make STERLING Serial Number #5 (Safet Joint Only) Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
 Did Well Flow? NO Reversed Out NO Anchor Length 32 ft. Size 4 1/2-FH in.
 Main Hole Size 7 7/8 Tool Joint Size 4 1/2 3.5"XH in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: Quarter inch blow, increased to one inch in bucket.
 2nd Open: Surface blow, increased to half inch in bucket.

Recovered <u>10</u> ft. of <u>OSM</u> <u>2%</u> oil, <u>98%</u> mud	
Recovered _____ ft. of <u>No GIP</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
	Total

Time Set Packer(s) 6:16 AM A.M. P.M. Time Started Off Bottom 9:16 AM A.M. P.M. Maximum Temperature 97 Deg F
 Initial Hydrostatic Pressure..... (A) 1051 P.S.I.
 Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 14 P.S.I.
 Initial Closed In Period..... Minutes 30 (D) 616 P.S.I.
 Final Flow Period..... Minutes 60 (E) 15 P.S.I. to (F) 21 P.S.I.
 Final Closed In Period..... Minutes 60 (G) 547 P.S.I.
 Final Hydrostatic Pressure..... (H) 1051 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 at cost by the party for whom the test is made.



DIAMOND TESTING
P.O. Box 157
HOISINGTON, KANSAS 67544
(800) 542-7313
DRILL-STEM TEST TICKET
FILE: SCHMIDT1DST3

TIME ON: 6:00 PM 10-9
TIME OFF: 2:27 AM 10-10

Company Range Oil Co., Inc. Lease & Well No. Schmidt B #1
Contractor Summit Drlg. Co. Charge to Range oil Co., Inc.
Elevation 1,298' KB Formation Viola Effective Pay _____ Ft. Ticket No. F185
Date 10-9-13 Sec. 21 Twp. 21 S Range 10E W County Lyon State KANSAS
Test Approved By Ken Wallace Diamond Representative Jake Fahrenbruch

Formation Test No. THREE Interval Tested from 2540 ft. to 2642 ft. Total Depth 2642 ft.
Packer Depth 2535 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.
Packer Depth 2540 ft. Size 6 3/4 in. Packer depth _____ ft. Size 6 3/4 in.

Depth of Selective Zone Set _____
Top Recorder Depth (Inside) 2523 ft. Recorder Number 0062 Cap. 5,000 P.S.I.
Bottom Recorder Depth (Outside) 2640 ft. Recorder Number 5951 Cap. 5,000 P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type Chemical Viscosity 48 Drill Collar Length 310 ft. I.D. 2 1/4 in.
Weight 9.4 Water Loss 7.2 cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides 700 P.P.M. Drill Pipe Length 2202 ft. I.D. 3 1/2 in.
Jars: Make STERLING Serial Number #5 (Safet Joint Only) Test Tool Length 28 ft. Tool Size 3 1/2-IF in.
Did Well Flow? NO Reversed Out NO Anchor Length 112 ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 3.5"XH in. 15' PERF. 3"TOP, 12"BTM Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: One inch blow, dead in 20 minutes.
2nd Open: No blow.

Recovered 5 ft. of Drilling Mud
Recovered _____ ft. of Slight oil show in tool.
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	Insurance
_____	Total

Time Set Packer(s) 9:20 A.M. P.M. Time Started Off Bottom 11:30 A.M. P.M. Maximum Temperature 105 Deg F
Initial Hydrostatic Pressure..... (A) 1250 P.S.I.
Initial Flow Period..... Minutes 40 (B) 11 P.S.I. to (C) 12 P.S.I.
Initial Closed In Period..... Minutes 30 (D) 22 P.S.I.
Final Flow Period..... Minutes 30 (E) 10 P.S.I. to (F) 12 P.S.I.
Final Closed In Period..... Minutes 30 (G) 27 P.S.I.
Final Hydrostatic Pressure..... (H) 1250 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 at cost by the party for whom the test is made.



CONSOLIDATED
Oil Well Services, LLC

ENTERED

TICKET NUMBER 43569

LOCATION Eureka

FOREMAN Rick Ledford

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT

API# 15-111-20480

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10-2-13	6942	Schmidt B # 1	21	213	106	Lyco
CUSTOMER			TRUCK #			
Range Oil Company, Inc.			DRIVER			
MAILING ADDRESS			TRUCK #			
P.O. Box 781775			DRIVER			
CITY						
Wichita						
STATE		ZIP CODE				
Ks		67279				

JOB TYPE surface 0 HOLE SIZE 12 1/4" HOLE DEPTH 232' CASING SIZE & WEIGHT 8 5/8"
 CASING DEPTH 224' KB DRILL PIPE _____ TUBING _____ OTHER _____
 SLURRY WEIGHT 15# SLURRY VOL 29 bbl WATER gal/sk 6.5 CEMENT LEFT in CASING 15'
 DISPLACEMENT 13 1/2 bbl DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting - Rig up to 8 5/8" casing. Break circulation w/ 5 bbl fresh water. Mixed 120 lbs class A cement w/ 3% cacl2, 2% gel + 1/4" flake/sk @ 15#/gal. Shut down, release wooden plug. Displace w/ 13 1/2 bbl water. Shut casing in w/ good cement returns to surface = 11 bbl slurry to pit. Job complete Rig down

"Thank You"

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
54015	1	PUMP CHARGE	870.00	870.00 ✓
54026	30	MILEAGE	4.20	126.00 ✓
11045	120 sks	class A cement	15.70	1884.00 ✓
1102	340#	3% cacl2	.78	265.20 ✓
11028	225#	2% gel	.22	49.50 ✓
1107	30#	1/4" flake/sk	2.47	74.10 ✓
5407	5.64	tan mileage bus fee	n/c	368.00 ✓
4432	1	8 5/8" wooden plug	84.00	84.00 ✓
4132	2	8 5/8" centralizers	72.50	145.00 ✓
			subtotal	3865.80
			SALES TAX	178.89 ✓
			ESTIMATED TOTAL	4044.69 ✓

Revin 3737

2630324

7.15%

AUTHORIZATION Davis TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.



ENTERED

TICKET NUMBER 45024
 LOCATION Eureka
 FOREMAN Steve Head

PO Box 884, Chanute, KS 66720
 620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT

CEMENT APT 15-111-20480

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
10/10/13	6942	Schmidt B-1	21	215	10E	Lyon
CUSTOMER			TRUCK #	DRIVER	TRUCK #	DRIVER
Range Oil Company, Inc			485	Alan m		
MAILING ADDRESS			479	Zwei		
P.O. Box 78775						
CITY	STATE	ZIP CODE				
Wichita	KS	67278				

JOB TYPE PTA 0 HOLE SIZE 7 7/8 HOLE DEPTH 2683 CASING SIZE & WEIGHT _____
 CASING DEPTH _____ DRILL PIPE 4" TUBING _____ OTHER _____
 SLURRY WEIGHT _____ SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING _____
 DISPLACEMENT _____ DISPLACEMENT PSI _____ MIX PSI _____ RATE _____

REMARKS: Safety meeting: Rig up to 4" Drill pipe. Plug well as follows:
15 sks AT 2224'
15 sks AT 1314'
35 sks AT 217'
25 sks AT 60' to Surface Tapwell off
Total 90 sks 60/40 Poz mix Cement w/ 4% Gel

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5405N	1	PUMP CHARGE	1085.00	1085.00
5406	30	MILEAGE	4.20	126.00
1131	90 sks	60/40 Poz mix Cement	13.18	1186.20
1118B	310*	Gel 4%	.22	68.20
5407	3.87 ton	Ton mileage Bulk Truck	mic	368.00
			Sub Total	2833.40
			SALES TAX	89.69
			ESTIMATED TOTAL	2923.09

Revin 3737 263140 215%
 AUTHORIZATION Dan Co TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form.

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY Range Oil Company, Inc.

LEASE Schmidt B #1

FIELD _____

LOCATION 1625' F5L + 2540' F6L SE/4

SEC 21 TWSP 21 S RGE 10 E

COUNTY Lyon STATE KS

CONTRACTOR Summit Drilling

SPUD 10-1-13 COMP 10-11-13

RTD 2683' LTD 2679'

MUD UP 1100' TYPE MUD Chem

ELEVATIONS

KB 1291'

DF _____

GL 1281'

Measurements Are All
From KB

CASING

SURFACE 8 5/8" @ 221 mg 1205

PRODUCTION N.A.

ELECTRICAL SURVEYS

Dens/vent pors - DTL

SAMPLES SAVED FROM Surf. casing TO RTD

DRILLING TIME KEPT FROM 1150 TO RTD

SAMPLES EXAMINED FROM 1150 TO RTD

GEOLOGICAL SUPERVISION FROM 1150 TO RTD

GEOLOGIST ON WELL Ken Wallace

FORMATION TOPS

LOG

SAMPLES

<u>Oread</u>	<u>846 (+451)</u>	<u>850 (+441)</u>
<u>Lansing</u>	<u>1178 (+113)</u>	<u>1184 (+107)</u>
<u>B/Lansing</u>	<u>1294 (-3)</u>	<u>1289 (-2)</u>
<u>Starle</u>	<u>1558 (-267)</u>	<u>1562 (-271)</u>
<u>B/KK</u>	<u>1613 (-322)</u>	<u>1612 (-321)</u>
<u>Bartleville Sol</u>	<u>2062 (-771)</u>	<u>2060 (-768)</u>
<u>Eros Miss</u>	<u>2205 (-919)</u>	<u>2204 (-913)</u>
<u>Miss</u>	<u>2222 (-931)</u>	<u>2222 (-931)</u>
<u>KK Dol</u>	<u>2634 (-1343)</u>	<u>2638 (-1347)</u>
<u>Viola</u>	<u>2657 (-1366)</u>	<u>2660 (-1369)</u>

REMARKS 3 negative DSTs - well #1A
Ken Wallace

- 10-1-13 MIRU 1/4" @ 232'
- 10-2-13 8 AM, PTD 232', set SC, WOC
- 10-3-13 7:50 AM, Drlg 695', 1/2" @ 703'
- 10-4-13 8 AM, Drlg 1310', 1 1/2" @ 1206'
- 10-5-13 7:50 AM, Drlg 1835', 1" @ 1519', 1 1/4" @ 1801'
- 10-6-13 8 AM, PTD 2076', prep for DST #1
- 10-7-13 8 AM, PTA 2110', Running DST #2
- 10-8-13 8 AM, Drlg 2334', 1 1/2" @ 2076'
- 10-9-13 7:50 AM, Drlg 2595', 1 3/4" @ 2366'
- 10-10-13 8 AM, RTD 2683', prep to Log
- 10-11-13 7 AM, RTD 2683', Logging Complete, to PFA

LEGEND

Anhydrite	Salt	Sandstone	Shale	Carb ch	Limestone	Ool. Lime	Chert	Dolomite

SCALE " = 100'

7505

1150'

60

80

1200

20

40

60

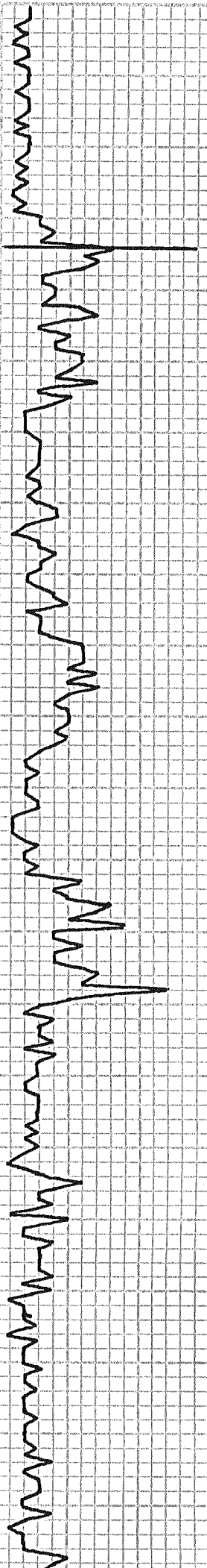
80

1300

20

40

60



Sh, gy, slst, gy

Ls, brwn-tan, foss, cxln, cky n-part, sl ool, with Ca xls

v 40, wt. 9.2, lcm 4

Ls, buff-lt gy, sm brwn, cxln, foss, cky, tr pyr, NS, NF, NO

Ls, wh, sl ool, foss, cky, NS, NF, NO

Ls, md gy, foss, with specs of gy, NS, NF, NO

v 42, wt. 9.2, lcm 4

Sh, lt grn-gy

Ls, lt gy, fxln, sl foss, cky, NS, NF, NO

Ls, buff, ool, foss, p ooc porsty, sm vg porsty, NS, NF, NO

Ls, buff-tan, fxln-cky, foss (bryozoans), NS, NF, NO

Jet #3
adjust clock 2 min.

v 40 wt. 9.2, lcm 4

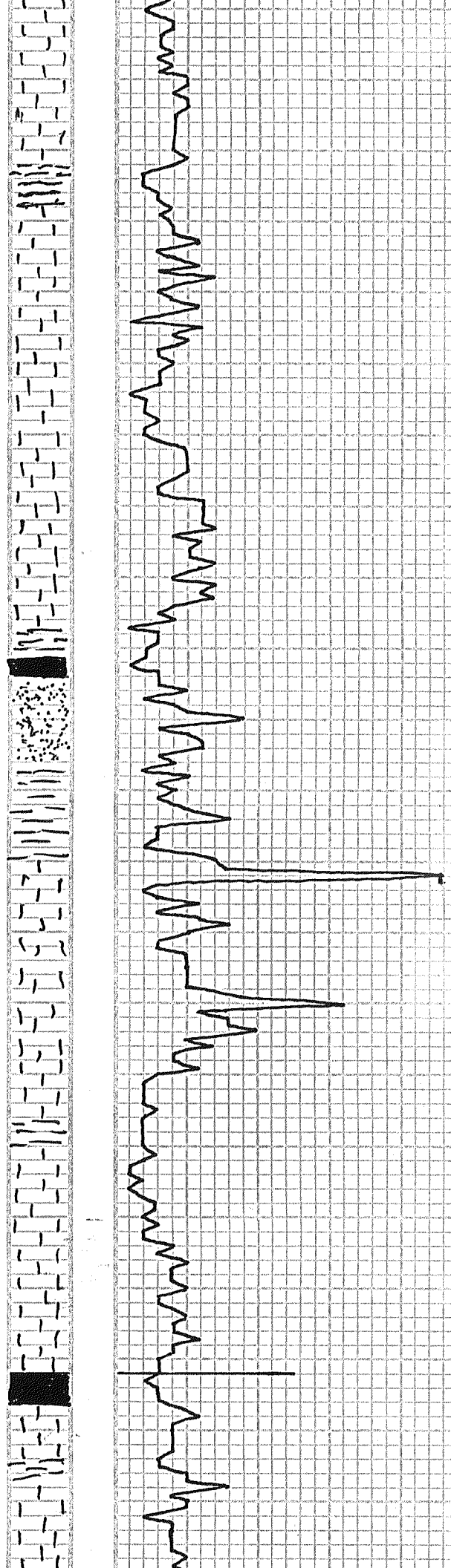
Sh, gy

Ls, buff, foss, NS, NF (slough?) with gy sh

v 40, wt. 9.3, lcm 4

Sh, gy with gy slst

80
1400
20
40
60
80
1500
20
40
60
80



Ls, lt gy-tan, ool, foss, s cherty, sm gy oolts, NS, NF

Sh, gy

Ls, md gy, ool, cxln, NS, NF

Ls, wh-buff, ool, foss (bryozoans), fxln-cky NS, NF

v 39, wt. 9.3, lcm 4

Ls, wh, ool, focc prosty, NS, NF

As above, more lt gy, with smaller oolts, foss, NS, NF

Ss, gy, fgnd, s&p tex, Ca cement, abd coal, NS, NF

v 40, wt. 9.2, lcm 4

Sh, grn, gy

v 40, wt. 9.2, lcm 3.5

Ls, buff, sl ool, foss, cky, NS, NF

adjust clock 9 min.

LS, tan, foss, micritic, dse, foss, cherty (foss chert), NS, NF

v 39, wt. 9.3, lcm 4

Ls, tan, ool, vfoss, f ooc porsty, NS, NF

As above

v 38, wt. 9.3, lcm 4

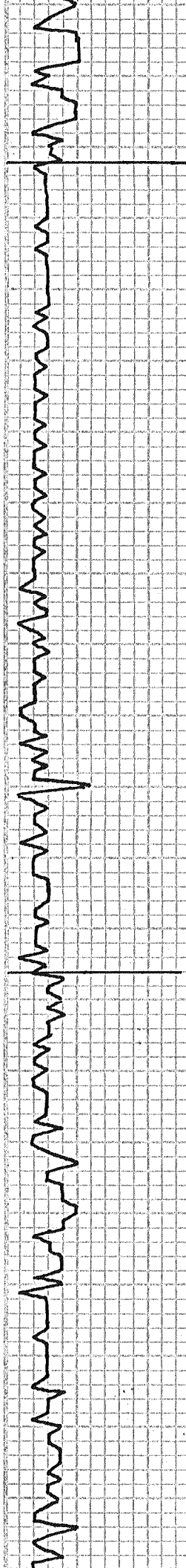
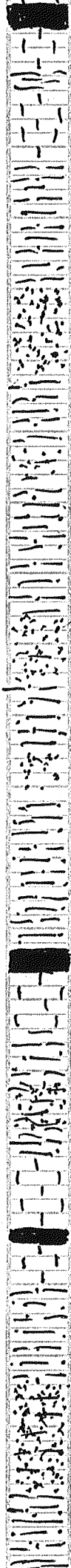
Ls, lt gy-tan, ool, fxln, cky, NS, NF

Sh, black

Ls, tan, ool foss, dse, cky n-part, sl cherty, NS, NF

Ls, gy, sm brwn, fxln, sl foss, m xln, dse cky NS, NF

1600



Sh, black

v 47, wt. 9.3, lcm 4.5

Ls, lt grn, cky, sl foss, NS, NF

20

Sh, gy, micacs with gy slst

40

Ss, md gy, fgnd, psrtd, prnd, micacs, well
cemt, Ca cemt, sl glauco, NS, NF

60

Sh, gy, with Ss as above

v 45, wt. 9.3, lcm 4

80

Sh, gy, slst with coal

Slst, gy

1700

v 43, wt. 9.3, lcm 4

20

Sh, black (coal?)

Ls, tan-buff, fxln, sl foss, NS, NF

40

Sh, gy, sm lt grn slst

Ls, buff-tan, sl ool, dse, cky, NS, NF

60

Sh, black

LS, brwn, ool, foss, NS, NF

80

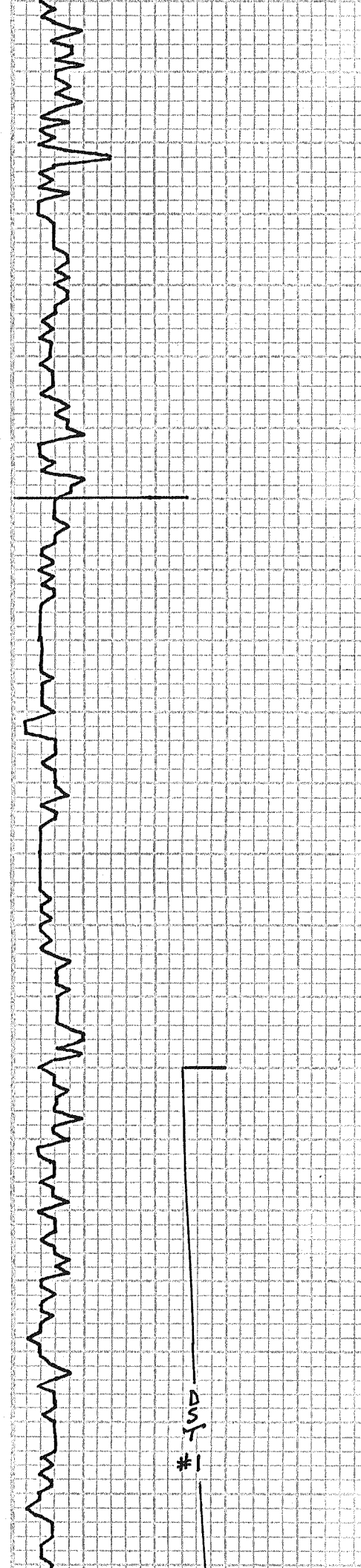
Sh, gy, grn, slty

Ss, lt gy-lt grn, vfgnd, p srtd, f rnd,
much, gy sh and slst, NS, NF
NS, NF

1800

Sh, gy, slty

20
40
60
80
1900
20
40
60
80
2000
20



Ls, brwn-tan, ool, foss, fxln-dse, NS, NF

Sh, gy

Ls, brwn, fxln, NS, NF

Sh, black

Ls, md gy, arg, to sh, gy

Sh, gy

Jet #1

Ss, lt gy, micacs, p srted, f rnd, sl gluco, well cem, Ca cem, NS, NF

Sh, black

Ls, tan-brwn, cxln, dse, NS, NF

V 48, wt. 9.3, lcm 4

Sh, black

Ss, cl-lt gry, fgnd, w srted, f rnd, sl gluco well cem with Ca cem, NS, NF

V 47, wt. 9.3, lcm 2.5

Slst, gy, with gy sh

adjust clock 6 min.

Sh, gy with Ss, gy, p srted, prnd, pyr, much gy-brwn sh, NS, NF

Ls, tan, v foss, fxln NS, NF

Sh, black, coal

Sh, gy-brwn, slty

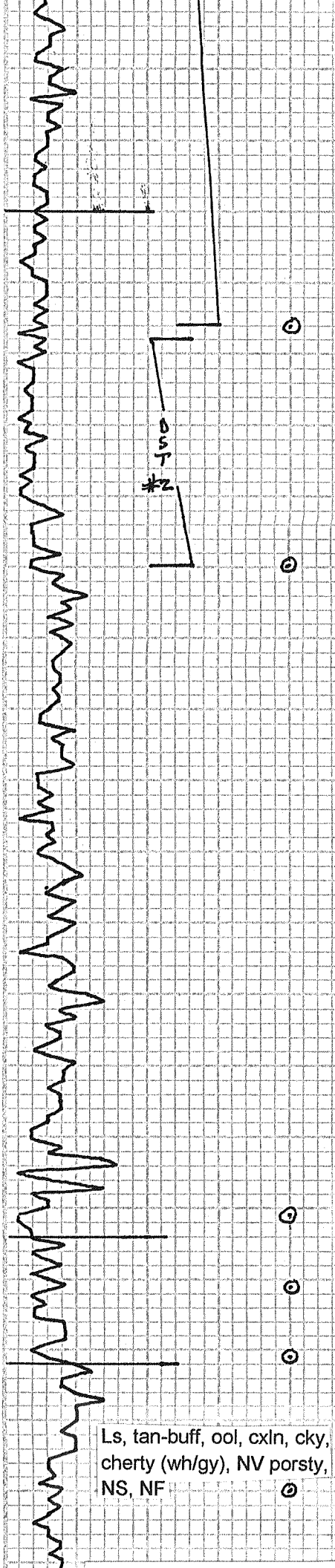
v 44, wt. 9.4, lcm 3

Sh, bl, brwn, gy, slty

Ss, gy, vfgnd, micacs, p srted, f rnd, v slty, sm gy sh, NS, NF

v 42, wt. 9.4, lcm 2

40
60
80
2100
20
40
60
80
2200
20
40



Ss, lt gy, fgnd, p-f srted, p-f rnd,
s&p tex, p cem, Ca cem, NS, NF

Jet #3

Ss, gy, fgnd, fsrted, frnd, s&p tex,
GIG porsty, Ca cem, friable, G od,
GSFO, GbritFL (15%), FO in tray

2076'- 15"- As above, Gbrit FL(15%+)
GSO, G od
30"- As above

Ss, lt gy, fgnd, fsrted, frnd, G IG
porsty, Ca cem, GSO, G od, Brit FL
(25%+)

Ss, as above, GSO, less odor, 25% FL

2110'- 15"- SS, gy, vfgnd, sl micacs,
Well cem, Ca cem, less friable, NS,
NF; sm gy sh
30"- As above

Ss, gy, vfgnd, argl, with sh lamina, hard,
NS, NF

Sh, dk gy-gy

Sh, gy to black

V 50, wt. 9.3, lcm 2

Sh, gy-brwn, slty

Sh, gy sm red: Ls, dk brwn, foss, cherty
(foss chert)

2201'- 15" - As above with black shale
30"- Ls and sh as above and Ss,
lt brwn, fgnd, psrted, Si cem, well rnd,
NS, NF

2211'- 15"/30"- Chert, weathered and
Fresh (mostly lt gy, sm foss chert), sm
chert and crs sand grains in Si cem
(Cg Ss), sm loose sand grns, NS, NF

V 51, wt. 9.3, lcm 2

2221'-15"- Cg Ss as above: fresh chert
(foss and ool chert), NS, NF

Ls, tan-buff, ool, cxln, cky,
cherty (wh/gy), NV porsty,
NS, NF

30" - mstly chert (wh, gy, dk gy, ool,
Foss chert); sm Cg Ss as above with
gy sh, NS, NF

2240'-15"/30"- Ls, tan, ool, cherty, cky,

Ls, buff, ool, cxln, sl foss, cky, NS, NF
fvg porsty, wh chert, NS, NF

60

Ls, as above, sm f-mxln Ls, with glauco
f ppt porsty, cherty, NS, NF

80

Ls, as above, more ool, more cxln,
sl gluaco, cherty, NS, NF

2300

Ls as above, more tan, sl dolm (fsuroc)
foss (clam), sl cherty (clr-opaq chert),
NS, NF

20

V 49, wt. 9.4, lcm 2

As above, abd blu/gy and wh chert,
more Limy vs Dolm, NS, NF

40

Dolm/Ls, f suros, v cherty (wh, gy,
blu/gy), NS, NF

60

Ls, m-dk brwn, ool, cxln, cherty,
NS, NF

80

Chert (90%+), with dol to dolm ls
as above, NS, NF

2400

Chert and Dolm/LS as above, NS, NF

20

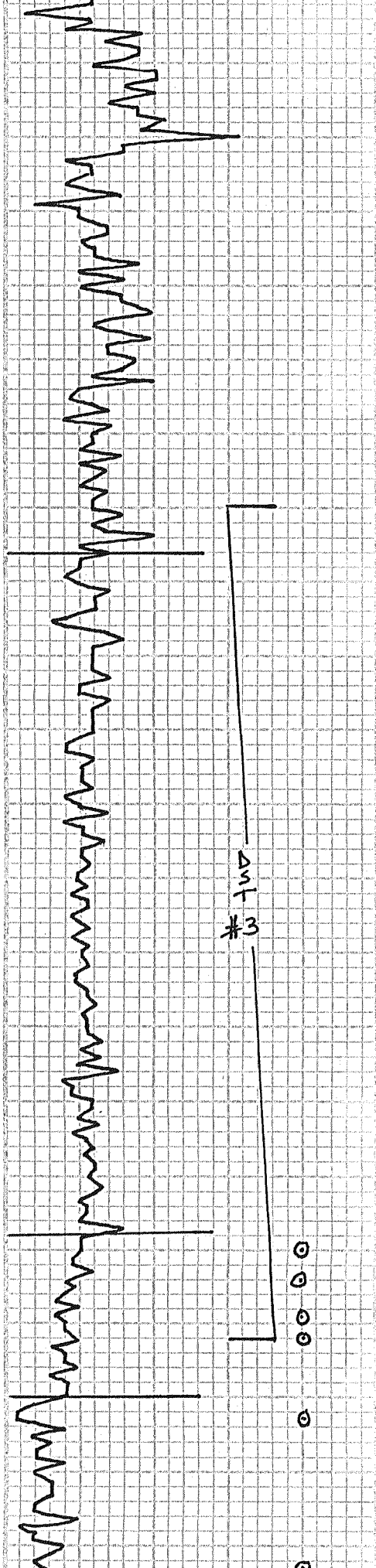
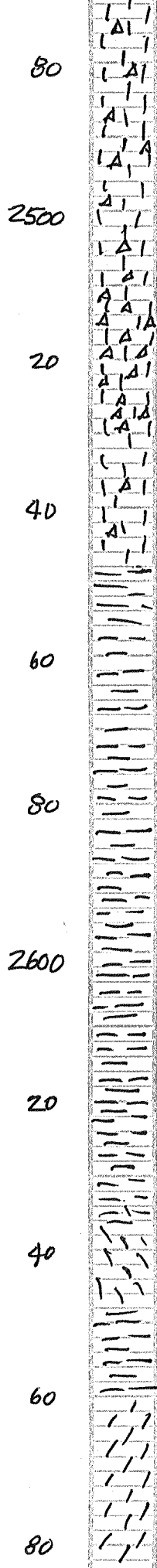
Dol, brwn, fsucro, v cherty, f vug porsty,
NS, NF

40

Dol and chert (wh, gy, blu/gy), NS, NF

60

As above



Ls, sl dolm, lt gy vcln, cherty, cxln, NS, NF

V 44, wt. 9.4, lcm 2

Ls, tan, fxln cky, sl cherty

As above but more cherty

V 40, wt. 9.4, lcm 2

Ls, gy, fxln, cky, sl cherty, NS, NF

Sh, gy, grn

As above

Sh, gy-dk gy

2640'-15"- Sh, gy with gy slst, hard
30"- Dol, dk gy-dk brwn, m sucro, GSFO, few pcs with good vg porsty, dull FL, sl odor,

2644'-15"- Mstly dk brwn sh (95%+), tr dol as above with SSO, N vis porsty, NF, s odor
30"- Mstly dk brwn sh

2649'-15/30"- Sh, dk brwn

2652'-15/30"- As above

V 50, wt. 9.3, lcm 2

2663'-15"- Sh, dk brwn
30"- Dol, lt gy, vf surco, v cherty 95% chert, (wh chert), sm dd strn, no vis porsty, hvy FO in 2% of spls, NF, sl odor

Dol, lt gy, fvg porsty, mxln, cherty (10%) sm pyr, NS, NF, sl odor

2638'-15"- Dol, gy-tan, sucro, gvg porsty,

2700

sl cherty (3%), NS, NF, NO
30"- Dol, tan, dse, f sucro, pvg porsty,
sl chert, NS, NF, NO

DST #1 1960-2076

30-30-60-60

IF 1/2 inch blow increase to 3"

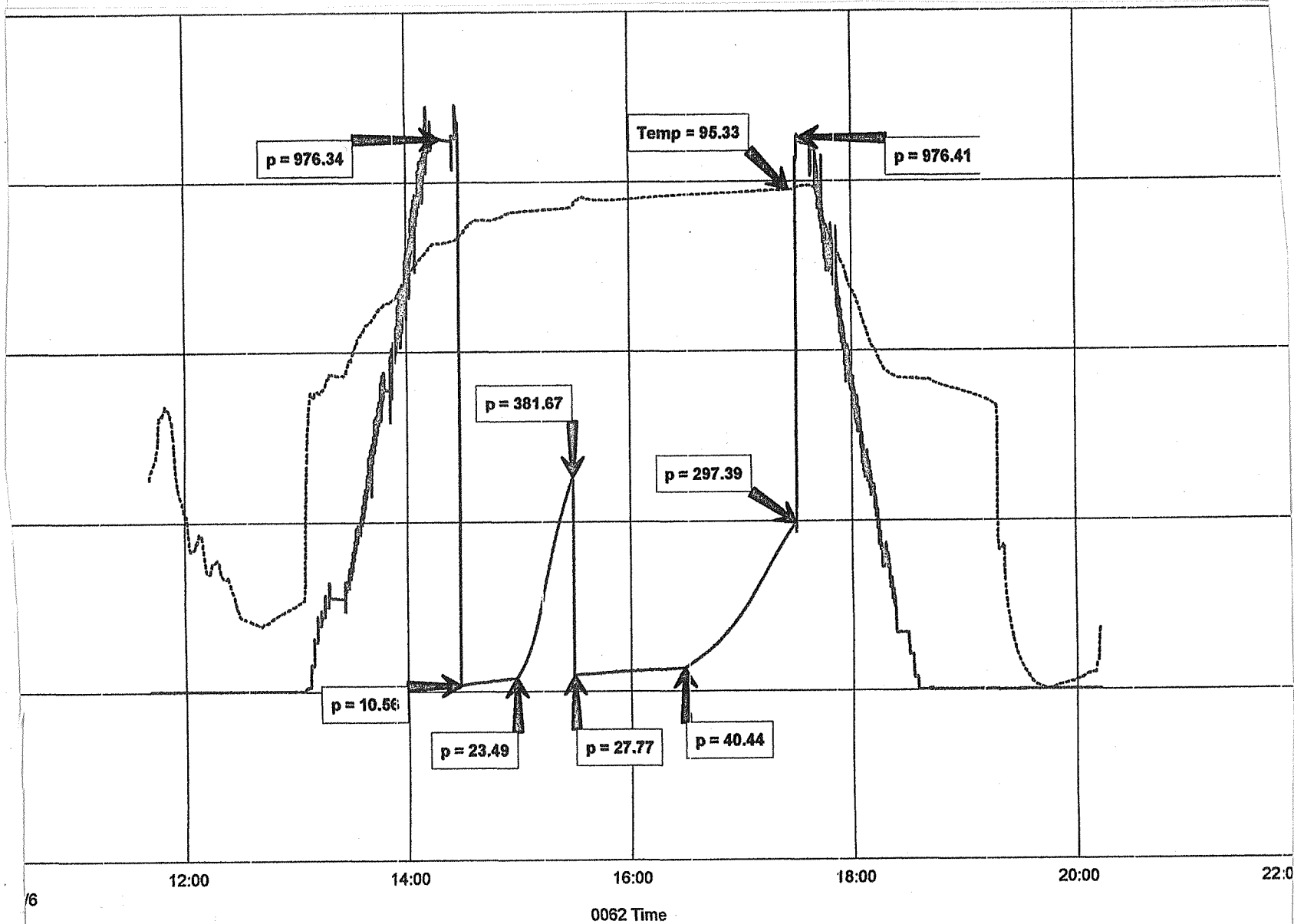
FF 1/2 inch blow increased to 9.5"

Rec: 60' GIP, 63'OSM (3% oil, 97% mud)

IF 11/23# FF 28/40#

ISIP 382# FSIP 297#

Schmidt B #1



DST #2 2078-2110

30-30-60-60

IF 1/4 inch blow increase to 1"

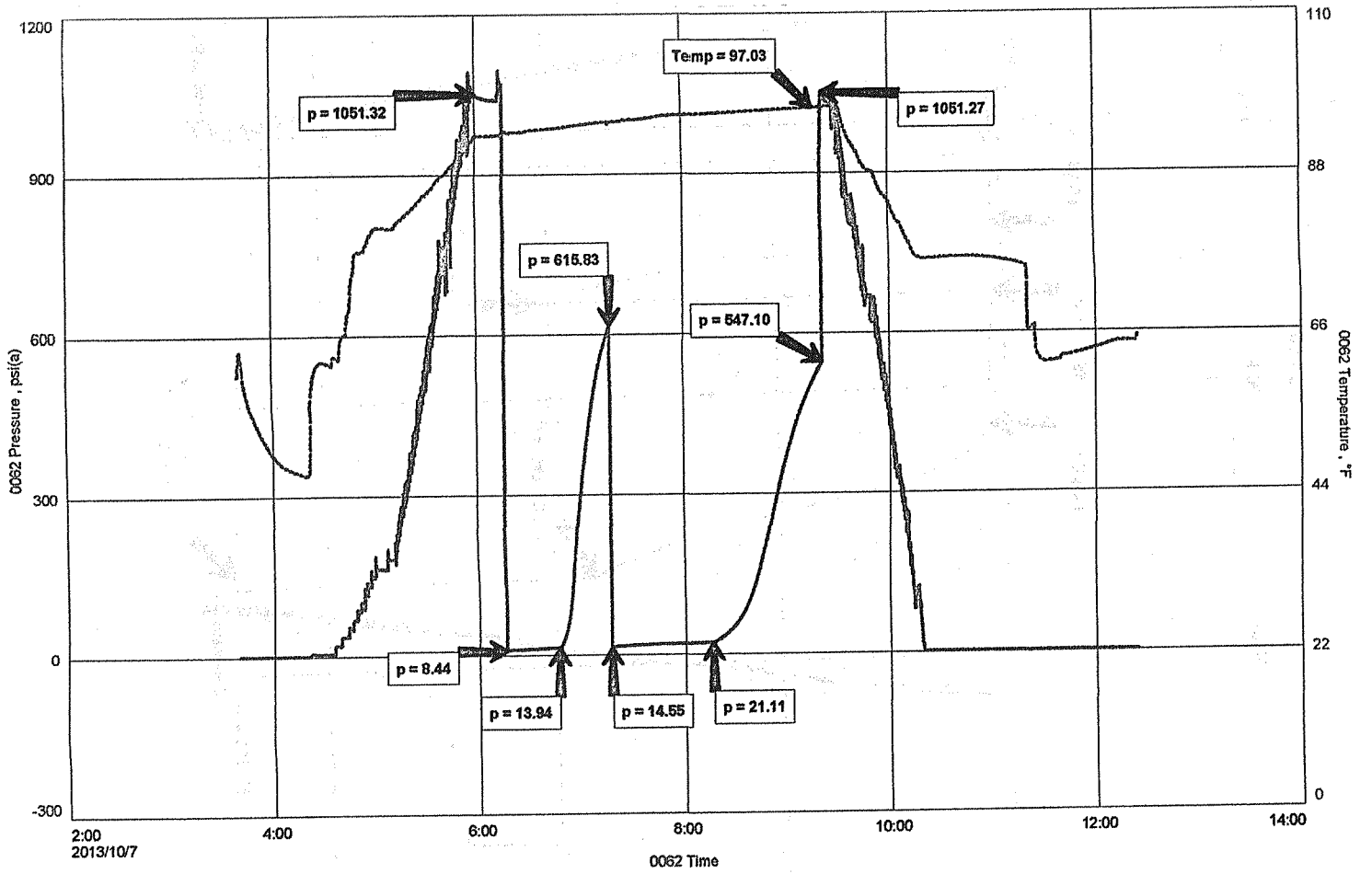
FF surface blow increased to 1/2"

Rec: 10' OSM (2% oil, 98% mud)

IF 8/14# FF 15/21#

ISIP 616# FSIP 547#

Schmidt B #1



DST #3 2540-2652
 30-30-30-30
 IF 1 inch blow died in 20"
 FF no blow
 Rec: 5' mud
 IF 11/12# FF 10-12#
 ISIP 22\$ FSIP 27#

Schmidt B #1

