



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: _____



1052977

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	L. D. Drilling, Inc.
Well Name	MILLER 'CC' 2
Doc ID	1052977

Tops

Name	Top	Datum
ANHYDRITE	976	+1022
TOPEKA	2977	-979
HEEBNER	3223	-1225
BROWN LIME	3293	-1295
LANSING	3302	-1304
BASE KANSAS CITY	3526	-1528
ARBUCKLE	3602	-1604
REAGAN	3623	-1625

Customer LD DRILLING, INC.	Lease No.	Date 12-31-2010
Lease MILLER 'CC'	Well # 2	
Field Order # 210603	Station PRATT, KS.	Casing 8 5/8" Depth TOTAL 195'
Type Job CN/W - 8 5/8" S.P.	Formation	County BARTON State Ks.
		Legal Description 8-14-15

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 8 5/8"	Tubing Size	Shots/Ft	CMT-	Acid 200 SK A-COM	RATE	PRESS	ISIP	
Depth 192	Depth	From	To	Pre Pad @ 2.47 CUFT	Max		5 Min.	
Volume 6.2'	Volume	From	To	Pad 200 SK: COMMON	Min		10 Min.	
Max Press 500	Max Press	From	To	Frac @ 1.34 CUFT³	Avg		15 Min.	
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth 112	Packer Depth	From	To	Flush 62 BBL	Gas Volume		Total Load	

Customer Representative **LD DAVIS** Station Manager **D. SCOTT** Treater **K. LESLEY**

Service Units	19870	19903	19905	19832	19862				
Driver Names	LESLEY	MATTEL	---	PHYE	---				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
7:30AM					ON LOCATION - SAFETY MEETING
12:15AM					RUN BITS - 8 5/8" x 21" CSG.
2:15PM					CSG. ON BOTTOM
2:30PM					HOOK UP TO CSG. - BREAK CIRC. W/ RIG
2:31PM					HOOK UP TO PUMP TRUCK
2:40PM	150		5	6	H ₂ O AHEAD
2:55PM	100		88	6	MIX 200 SK. A-COM @ 12.0 #/GAL
3:10PM	50		48	6	MIX 200 SK. COMMON @ 15.0 #/GAL
3:15PM					SHUT DOWN - RELEASE PLUG
3:20PM	50		0	5	START DISPLACEMENT
3:32PM	400		52	4	SLOW RATE
3:35PM	500		62	3	PLUG DOWN - CLOSED IN AT HEAD
					CIRCULATION THRU JOB
					CIRCULATED 10 BBL TO PIT
					JOB COMPLETE,
					THANKS - KEEVEN!



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

10244 NE Hwy. 61
P.O. Box 8613
Pratt, Kansas 67124
Phone 620-672-1201

FIELD SERVICE TICKET
1718 03164 A

DATE _____ TICKET NO. _____

DATE OF JOB <u>1-7-11</u> DISTRICT <u>KANSAS</u>		NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/> PROD <input type="checkbox"/> INJ <input type="checkbox"/> WDW <input type="checkbox"/> CUSTOMER ORDER NO.:							
CUSTOMER <u>L.D. Drilling, INC</u>		LEASE <u>Miller CC</u> WELL NO. <u>2</u>							
ADDRESS		COUNTY <u>Barton 8-19-15</u> STATE <u>Ks</u>							
CITY STATE		SERVICE CREW <u>A. Worth, C. Messick, B. Mitchell</u>							
AUTHORIZED BY		JOB TYPE <u>4 1/2 L.S.</u>							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM PM	TIME
<u>28443 P.O. 2</u>							<u>1-7-11</u>		<u>830</u>
<u>19903-19905 2</u>						ARRIVED AT JOB	<u>1-7-11</u>	AM PM	<u>1045</u>
<u>19960-19918 2</u>						START OPERATION	<u>1-7-11</u>	AM PM	<u>200</u>
						FINISH OPERATION	<u>1-7-11</u>	AM PM	<u>400</u>
						RELEASED	<u>1-7-11</u>	AM PM	<u>430</u>
						MILES FROM STATION TO WELL			

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered).

The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of Basic Energy Services LP.

SIGNED: _____
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP103	60/40 Poz	SK	200		\$2400.00
CC102	Cell Flake	lb	50		\$185.00
CI11	SALT	lb	1778		\$889.00
CT12	Cement Friction Reducer	lb	86		\$516.00
CC201	Gilsonite	lb	1000		\$670.00
CF102	Top Rubber amt Plus 4 1/2"	EA	1		\$80.00
CF250	Guide Shoe Peg 4 1/2" Blue	EA	1		\$225.00
CF1460	Flapper Type Insert Float Valve 4 1/2"	EA	1		\$200.00
CF1650	Turbolizer 4 1/2" Blue	EA	5		\$425.00
CT04	CLAYMAX KCL Sub	gal	1		\$35.00
CC151	Mud Flush	gal	5		\$430.00
E100	Unit mileage charge Pickup	mi	65		\$276.25
E101	Heavy Equip Mileage	mi	130		\$910.00
E113	Bulk Del Chg.	TM	569		\$894.50
CE204	Depth Charge 3001-4000	4-hr	1		\$2160.00
CE240	Blending & Mixing Service Chg.	hr	200		\$280.00
CE504	Plug Container W/ Location Chg	Job	1		\$250.00
5003	Service Supervisor First 8hrs on Job	EA	1		\$175.00
SUB TOTAL					\$7,700.40

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$
MATERIALS	%TAX ON \$

TOTAL

PLS \$7,700.40

SERVICE REPRESENTATIVE <u>Allen F. Ward</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Emilio Rojas</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO.

Customer <i>L.O. Drilling Inc</i>	Lease No.	Date <i>1-7-11</i>
Lease <i>Miller CC</i>	Well # <i>2</i>	
Field Order # <i>03164A</i>	Station <i>Pratt KS</i>	Casing <i>4 1/2"</i>
Type Job <i>4 1/2" L.S.</i>	Formation <i>GNW</i>	Depth <i>3678'</i>
		County <i>Barton</i>
		State <i>KS</i>
		Legal Description <i>8-19-15</i>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <i>4 1/2"</i>	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP	
Depth <i>3678'</i>	Depth	From	To	Pre Pad			5 Min.	
Volume <i>5888'</i>	Volume	From	To	Pad			40 Min.	
Max Press <i>1000</i>	Max Press	From	To	Frac			15 Min.	
Well Connection <i>P.C.</i>	Annulus Vol.	From	To	Flush			Annulus Pressure	
Plug Depth <i>3654'</i>	Packer Depth	From	To				Total Load	

Customer Representative <i>L.O. Davis</i>	Station Manager <i>Scotty</i>	Treater <i>Allen</i>
Service Units <i>28443 19903 19905 19960 19918</i>		
Driver Names <i>Worth Clarence Messitt Bradley Mitchell</i>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
<i>1045 AM</i>					<i>on loc. Discuss Safety, Setup Plan J</i>
<i>1130</i>					<i>Rigging down D.C.</i>
<i>1230</i>					<i>Pull B.P. + Rig up to Run 4 1/2" csg. 10'</i>
					<i>Start 4 1/2" casing Shoe Joint 20.96</i>
					<i>w/ Reg guide Shoe, + Inset Fillin cell</i>
					<i>cent 12-3-5-7-9.</i>
<i>205 pm</i>					<i>CASING @ 3675' Hookup + cir.</i>
<i>305</i>	<i>400 #</i>		<i>20</i>	<i>5</i>	<i>Pump 20 BBL 2% KCL</i>
			<i>12</i>	<i>5</i>	<i>Pump 12 BBLs mud Flush</i>
			<i>3</i>	<i>5</i>	<i>Pump 3 BBLs H2O spacer</i>
	<i>300 #</i>			<i>5</i>	<i>mix + Pump 150 sks 60/40 Poz @ 14.3</i>
			<i>38</i>		<i>Finish mix-washout Pump + line</i>
<i>322</i>					<i>Prop 4 1/2" Top Rubber Plug.</i>
					<i>Start Disp.</i>
					<i>caught Lift. 40 BBLs out</i>
<i>330</i>	<i>1000 #</i>		<i>58</i>		<i>Plug down</i>
					<i>Plug Rat Hole w/ 30 sks 60/40</i>
					<i>Plug Mouse Hole w/ 20 sks 60/40</i>
					<i>Washup + Rackup Equip.</i>
<i>430</i>					<i>Job complete.</i>

Thanks Allen, Clarence, Messitt, K Bradley

Diamond Testing

General information Report

General Information

Company Name L.D. DRILLING, INC.

Contact	L.D. DAVIS	Job Number	
Well Name	MILLER 'CC' #2	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #1 ARBUCKLE 3,520' - 3,613'	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC 8-19S-15W BARTON COUNTY, KS	Report Date	2011/01/06
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

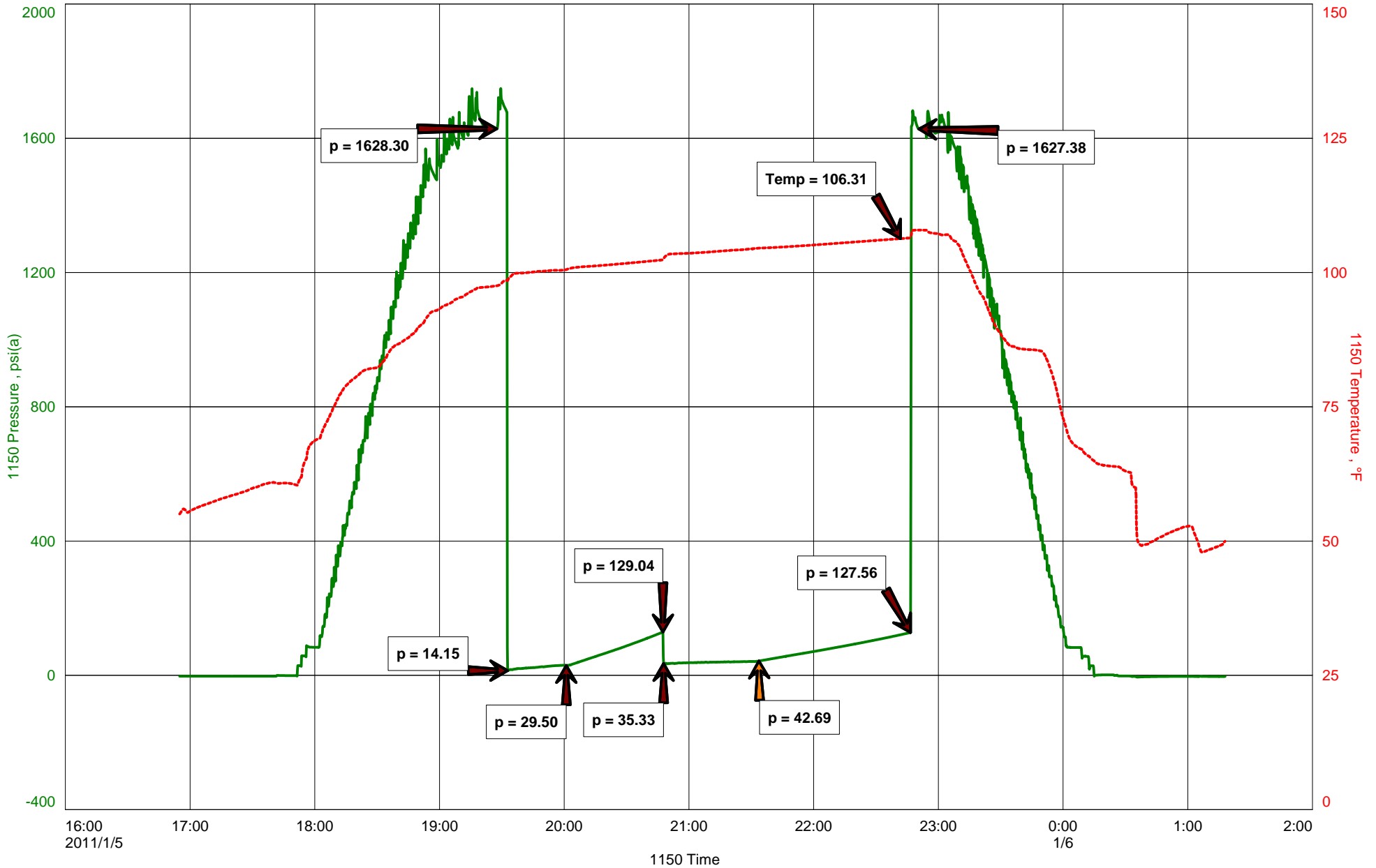
Test Type	CONVENTIONAL DRILL-STEM TEST		
Formation	DAST #1 ARBUCKLE 3,520' - 3,613'		
Well Fluid Type	01 Oil	Start Test Time	16:55:00
		Final Test Time	01:18:00
Start Test Date	2011/01/05		
Final Test Date	2011/01/06		
Gauge Name	1150		
Gauge Serial Number			

Test Results

RECOVERED: 92 DM 100% MUD

TOOL SAMPLE: 100% DM FEW OIL SPECKS

MILLER 'CC' #2





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

DRILL -STEM TEST TICKET

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State KANSAS
Test Approved By _____ Diamond Representative ROGER D. FRIEDLY

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make BOWEN Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: _____ _____ _____	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) _____ A.M. _____ P.M. Time Started Off Bottom _____ A.M. _____ P.M. Maximum Temperature _____
Initial Hydrostatic Pressure (A) _____ P.S.I.
Initial Flow Period Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period Minutes _____ (D) _____ P.S.I.
Final Flow Period Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure (H) _____ 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

General information Report

General Information

Company Name L.D. DRILLING, INC.

Contact	L.D. DAVIS	Job Number	
Well Name	MILLER 'CC' #2	Representative	ROGER D. FRIEDLY
Unique Well ID	DST #2 ARBUCKLE3,610' - 3,626'	Well Operator	L.D. DRILLING, INC.
Surface Location	SEC 8-19S-15W BARTON COUNTY, KS	Report Date	2011/01/06
Well License Number		Prepared By	ROGER D. FRIEDLY
Field	WILDCAT		
Well Type	Vertical		

Test Type	CONVENTIONAL DRILL-STEM TEST		
Formation	DST #2 ARBUCKLE3,610' - 3,626'		
Well Fluid Type	01 Oil	Start Test Time	06:40:00
		Final Test Time	14:34:00
Start Test Date	2011/01/16		
Final Test Date	2011/01/06		
Gauge Name	1150		
Gauge Serial Number			

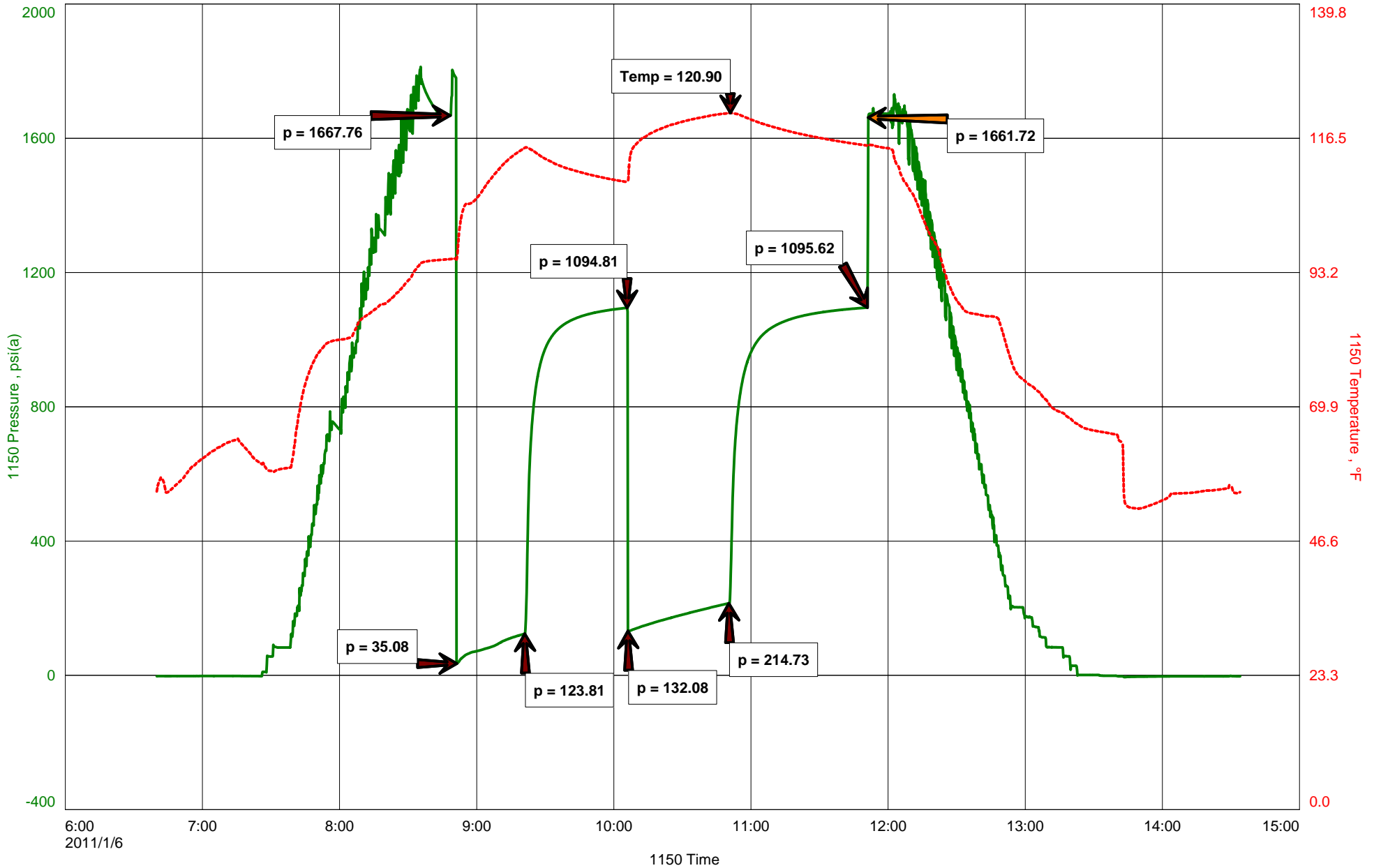
Test Results

RECOVERED: 600' GAS IN PIPE
15' CLEAN OIL 36 GRAVITY @ 60 deg
77' OCWM 10% OIL, 30% WTR, 60% MUD
360' SW 100% WTR
452' TOTAL FLUID

TOOL SAMPLE: 4% OIL, 96% MUD

CHLORIDES: 44,000 Ppm
PH: 7.0
RW: .20 @ 58 deg

MILLER 'CC' #2





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

DRILL -STEM TEST TICKET

Company _____ Lease & Well No. _____
Contractor _____ Charge to _____
Elevation _____ Formation _____ Effective Pay _____ Ft. Ticket No. _____
Date _____ Sec. _____ Twp. _____ S Range _____ W County _____ State KANSAS
Test Approved By _____ Diamond Representative ROGER D. FRIEDLY

Formation Test No. _____ Interval Tested from _____ ft. to _____ ft. Total Depth _____ ft.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
Packer Depth _____ ft. Size _____ in. Packer Depth _____ ft. Size _____ in.
Depth of Selective Zone Set _____

Top Recorder Depth (Inside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Bottom Recorder Depth (Outside) _____ ft. Recorder Number _____ Cap. _____ P.S.I.
Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ P.S.I.

Mud Type _____ Viscosity _____ Drill Collar Length _____ ft. I.D. 2 1/4 in.
Weight _____ Water Loss _____ cc. Weight Pipe Length _____ ft. I.D. 2 7/8 in.
Chlorides _____ P.P.M. Drill Pipe Length _____ ft. I.D. 3 1/2 in.
Jars: Make BOWEN Serial Number _____ Test Tool Length _____ ft. Tool Size 3 1/2-IF in.
Did Well Flow? _____ Reversed Out _____ Anchor Length _____ ft. Size 4 1/2-FH in.
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: _____
2nd Open: _____

Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____
Recovered _____ ft. of _____

Remarks: _____ _____	Price Job
	Other Charges
	Insurance
	Total

Time Set Packer(s) _____ A.M. _____ P.M. Time Started Off Bottom _____ A.M. _____ P.M. Maximum Temperature _____
Initial Hydrostatic Pressure (A) _____ P.S.I.
Initial Flow Period Minutes _____ (B) _____ P.S.I. to (C) _____ P.S.I.
Initial Closed In Period Minutes _____ (D) _____ P.S.I.
Final Flow Period Minutes _____ (E) _____ P.S.I. to (F) _____ P.S.I.
Final Closed In Period Minutes _____ (G) _____ P.S.I.
Final Hydrostatic Pressure (H) _____ P.S.I.

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KIM B. SHOEMAKER

CONSULTING GEOLOGIST
316-684-9709 * WICHITA, KS

GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY L. D. DRILLING, INC.

LEASE # 2 MILLER 'CC'

FIELD OTIS-ALBERT

LOCATION NW NE NE

SEC 8 TWP 19S RGE 12W

COUNTY BARTON STATE KANSAS

CONTRACTOR DUKE DRILLING RIG 9

SPUD 12-31-10 COMP 1-7-11

API 3680 LIS 3680

MUD UP 2780 TYPE MUD CHEMICAL

ELEVATIONS

KB 1998

DF _____

GL 1985

Measurements Are All
From 1998 KB

CASING
SURFACE 8 5/8" @ 992'
PRODUCTION 4 1/2" @

ELECTRICAL SURVEYS
DUAL IND., DENS-N.

SAMPLES SAVED FROM 3000 TO 3680

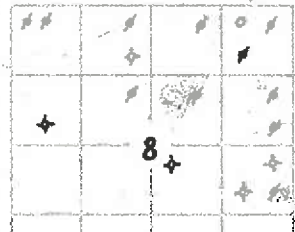
DRILLING TIME KEPT FROM 2900 TO 3680

SAMPLES EXAMINED FROM 3000 TO 3680

GEOLOGICAL SUPERVISION FROM 3000 TO 3680

GEOLOGIST ON WELL KIM B. SHOEMAKER

FORMATION TOPS	LOG	SAMPLES
ANHYDRITE	976+1022	975+1023
TOPEKA	2977-979	2976-978
HERBNER	3223-1225	3221-1223
BROWN LIME	3293-1295	3292-1294
LANSING	3302-1304	3300-1302
B/KC	3526-1528	3526-1528
ARBUCKLE	3602-1604	3599-1601
REAGAN	3623-1625	3622-1624



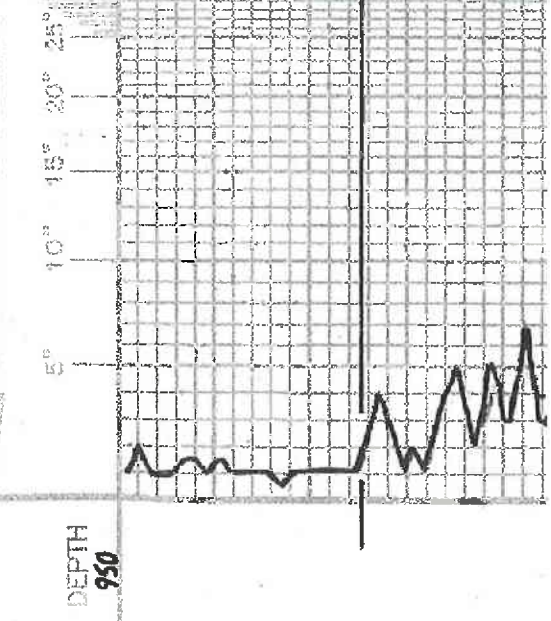
RKS
SPUD @ 995'
2 1960'
2 2340'
2 2925'
2 3515'
2 3626'
2 3680'

API: 15-009-25507

LEGEND

- Anhydrite
- Salt
- Sandstone
- Shale
- Carb. sh
- Limestone
- Dolomite
- Chert

DRILLING TIME IN MINUTES
PER FOOT
Ratio of Penetration Increases



SAMPLE DESCRIPTIONS

REMARKS

1000

1050

2900

3000

8/ANN. 1003 + 995

TOPEKA 2976-978

15. To Lig. - St. Pass.

Sh. Lig. - St. Pass.

15. To St. A

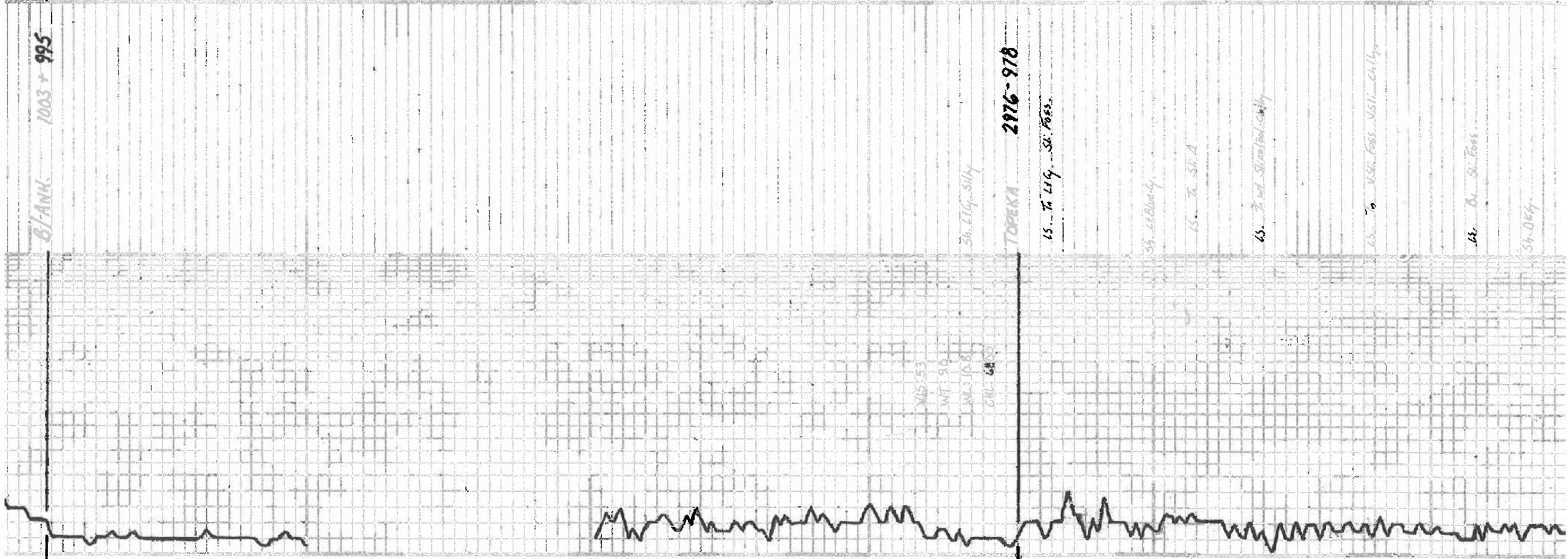
15. To St. Pass. - St. Pass.

15. To St. Pass. - St. Pass.

15. To St. Pass.

Sh. Lig.

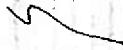
XLS-53
XLT-90
XLS-10.8
GUL-6800



3400

ls. clay. Dk.
 Sh. G.
 ls. clay. Sh. Foss. P. V. of T. DE. B. S. C.
 T. P. No. Foss.
 No. color.
 ls. gy. B. Foss.
 ls. wt. clay.

ls. T. clay. B. wt. gd. coc. d.



ls. wt. clay.

clay

ls. gy. Dk.

Sh. clay.

ls. T. B. Sh. Foss.

ls. gy. V. S. Foss.

Sh. clay.

ls. wt. clay. Sh. Foss. Sh. clay. w/ DE. S. B. S. C.
P. No. Foss.
No. color.

ls. wt. clay. Sh. Foss. Few w/ DE. B. S. C. S. P.
No. Foss.
No. color.

3500

ls. T. Sh. A

ls. T. clay. V. S. Foss.

Sh. G.

ls. T. B. Sh. A

B/KC 3526-1528

Sh. Bl.

ls. T. clay. V. S. Foss. S. S. C.

Sh. Bl. L. G.

ls. gy. Dk.

Sh. DE. Bl. L. G.

VLS: 58 WT: 9.4

WLS: 10.9 Calc: 6005

Sh. Bl. T. A. Dr. Opa

Sh. Bl.

Sh. Bl. Sh. Sh. M. L. G. Bl. S. C. P. A.

3600

ARBOCKLE 3599-1601

Dk. L. G. Sh. M. L. G. w/ Co. S. L. G. S. C. A. D. T. 2nd. Foss.
P. No. Foss. S. S. C. P. A. D. T. 2nd. Foss.

Dk. L. G. Sh. M. L. G. w/ Co. S. L. G. S. C. A. D. T. 2nd. Foss.
S. S. C. P. A. D. T. 2nd. Foss. S. S. C. P. A. D. T. 2nd. Foss.

REAGAN 3622-1624

VLS: 52 WT: 9.2
WLS: 10.8 Calc: 6005

Sh. Bl. Sh. M. L. G. Bl. S. C. P. A. D. T. 2nd. Foss.
L. G. Bl. Sh. S. C. P. A. D. T. 2nd. Foss.

DST (1)

DST (2)

DST (2) 3520-3613

15' core: Blowbolt to 1" 2nd. Foss.

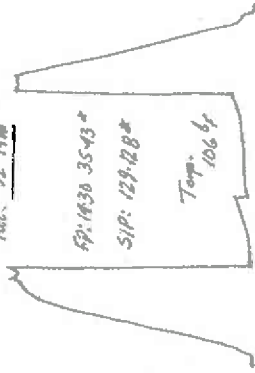
30-45-95-60

Rec. 92' Mud

FP: 1830-35-43*

SIP: 129-128*

Temp. 106.4°



DST (2) 3610-3626

15' core: Blowbolt to 1" 2nd. Foss.

30-45-95-60

Rec. 600' GIP

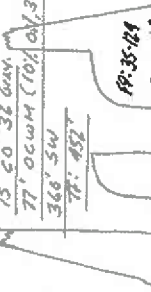
15' CO. 32' GIP

77' OCWM (100% of 30% w/ 60% M)

368' SW

77' 452'

PP: 35-124



55: 211'

55: 2'

CWC: 41,000

51P: 1085
1095
Temp: 121°F

Sch. Clin. Pa. Md. Co. Sub. Pl. Eric. Sordid. Fe. Inj. p
H. & Sub. Sch. 3570 Bull. Floor. No. Odo.

Sch. Ch. Md. Co. G. Rd. 561 Rd. Poor. Sordid. Col. Inj. p

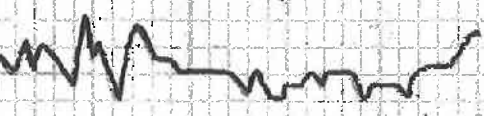
Pol. G. 344. Co. Md. G. S. No. 1627
No. 0666

Sch. Pa. Md. Co. Ch. 72. 44. 501. Rd.

Sch. Md. Co. G. Pa. Md. Co. Sub. Pl. Ch. 44. 44.

Sch. G. Pa. Md. Co. Ch. 72. 44. 501. Rd.

RTD 3680-1682



3700