



**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: \_\_\_\_\_



1075598

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> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	PRODUCTION INTERVAL: _____ _____
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Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	KUMBERG 1-14
Doc ID	1075598

All Electric Logs Run

BOREHOLE COMPENSATED SONIC LOG
DUAL COMPENSATED POROSITY LOG
DUAL INDUCTION LOG
MICRORESISTIVITY LOG

Form	ACO1 - Well Completion
Operator	L. D. Drilling, Inc.
Well Name	KUMBERG 1-14
Doc ID	1075598

Tops

Name	Top	Datum
TOPEKA	3274	-1512
HEEBNER	3634	-1871
BROWN LIME	3816	-2052
LANSING	3827	-2064
BASE KANSAS CITY	4246	-2483
MISSISSIPPIAN	4300	-2537
VIOLA	4625	-2761
SIMPSON	4611	-2848
ARBUCKLE	472	-2961



**BASIC**<sup>SM</sup>  
**ENERGY SERVICES**  
 PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
 1718 05516 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB <i>1-12-2012</i> DISTRICT <i>PRATT, Ks.</i>		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 <i>LD DRILLING, INC.</i>		LEASE <i>KUMBERG</i> WELL NO. <i>1-14</i>	
ADDRESS		COUNTY <i>BARBER</i> STATE <i>Ks.</i>	
CITY STATE		SERVICE CREW <i>LESLEY, LAWRENCE,</i>	
AUTHORIZED BY		JOB TYPE: <i>CNW - 10 3/4 C.P.</i>	

EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	ARR	TIME
<i>37586</i>	<i>1.5</i>						<i>1-11-12</i>	<i>PM</i>	<i>10:30</i>
<i>19829-19905</i>	<i>1.5</i>						<i>1-12-12</i>	<i>AM</i>	<i>11:30</i>
<i>19826-19860</i>	<i>1.5</i>						<i>1-12-12</i>	<i>AM</i>	<i>3:00</i>
								<i>AM</i>	<i>4:30</i>
								<i>AM</i>	<i>5:30</i>
									<i>20</i>

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: *John A. ...*  
 (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
<i>CP 103</i>	<i>60/40 POZ</i>	<i>SK</i>	<i>350</i>		<i>4,200.00</i>
<i>CC 102</i>	<i>CELL-FLAKE</i>	<i>lb</i>	<i>88</i>		<i>325.60</i>
<i>CC 109</i>	<i>CALCIUM CHLORIDE</i>	<i>lb</i>	<i>903</i>		<i>948.15</i>
<i>E 100</i>	<i>PICKUP MILEAGE</i>	<i>MI</i>	<i>20</i>		<i>85.00</i>
<i>E 101</i>	<i>HEAVY EQUIPMENT MILEAGE</i>	<i>MI</i>	<i>40</i>		<i>280.00</i>
<i>E 113</i>	<i>BULK DELIVERY CHARGE</i>	<i>TM</i>	<i>301</i>		<i>481.60</i>
<i>CE 200</i>	<i>DEPTH CHARGE; 10-500'</i>	<i>HR</i>	<i>1-4</i>		<i>1,000.00</i>
<i>CE 240</i>	<i>BLENDING SERVICE CHARGE</i>	<i>SK</i>	<i>350</i>		<i>490.00</i>
<i>S 003</i>	<i>SERVICE SUPERVISOR</i>	<i>EA</i>	<i>1</i>		<i>175.00</i>

SUB TOTAL *16,308.43*

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE *Lesley Lawrence* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY *John A. ...*  
 (WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO.

# BASIC

energy services, L.P.

## TREATMENT REPORT

Customer <u>LD DRILLING</u>		Lease No.		Date	
Lease <u>KUMBERG</u>		Well # <u>1-14</u>		<u>1-12-2012</u>	
Field Order # <u>05516</u>	Station <u>PRATKS.</u>	Casing <u>10 3/4"</u>	Depth		
Type Job <u>CNW - 10 3/4" C.P.</u>			Formation <u>T12 - 334'</u>	Legal Description	

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <u>10 3/4"</u>	Tubing Size	Shots/Ft	<u>CMT-</u>	Acid <u>350SK 60/40 P02</u>	RATE	PRESS	ISIP	
Depth <u>333'</u>	Depth	From	To	Pre Pad <u>@ 1.21 CVF</u>	Max		5 Min.	
Volume <u>32.6 BBL</u>	Volume	From	To	Pad	Min		10 Min.	
Max Press <u>300</u>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <u>F.C.</u>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <u>313'</u>	Packer Depth	From	To	Flush <u>30.5 BBL</u>	Gas Volume		Total Load	

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

Service Units	<u>37586</u>	<u>19889</u>	<u>19905</u>	<u>19826</u>	<u>19860</u>					
Driver Names	<u>LESLEY</u>	<u>LAWRENCE</u>	<u>—</u>	<u>JESSE</u>						

Time	Casing Pressure	Tubing Pressure	Bbbs. Pumped	Rate	Service Log
<u>11:30 PM</u>	<u>1-11-12</u>				<u>ON LOCATION - SAFETY MEETING</u>
<u>12:15 AM</u>	<u>1-12-12</u>				<u>SPOT TRUCKS ON LOCATION</u>
<u>12:40 AM</u>					<u>RUN 8 JTS. 10 3/4" x " CSG.</u>
<u>3:00 AM</u>					<u>CSG. ON BOTTOM</u>
<u>3:05 AM</u>					<u>HOOKE UP TO CSG. / BREAK CIRC. W/RIG</u>
<u>4:05 AM</u>	<u>350</u>		<u>5</u>	<u>6</u>	<u>H2O AHEAD</u>
<u>4:08 AM</u>	<u>300</u>		<u>75.5</u>	<u>6</u>	<u>MIX 350 SK 60/40 P02 @ 14.9 #/GAL</u>
<u>4:20 AM</u>	<u>12</u>		<u>0</u>	<u>4</u>	<u>START DISPLACEMENT</u>
<u>4:28 AM</u>	<u>350</u>		<u>25</u>	<u>3</u>	<u>SLOWRATE</u>
<u>4:30 AM</u>	<u>400</u>		<u>30.5</u>	<u>3</u>	<u>CMT. @ DESIRED DEPTH</u>
					<u>CIRC. THRU JOBS</u>
					<u>CIRC. 10 BBL TO PIT</u>
<u>JOB COMPLETE,</u>					
<u>THANKS -</u>					
<u>KEVEN LESLEY</u>					



**BASIC**<sup>SM</sup>  
ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET  
1718 05523 A

DATE \_\_\_\_\_ TICKET NO. \_\_\_\_\_

DATE OF JOB: 1-21-2012 DISTRICT: PRATT, KS.		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: LD DRILLING, INC.		LEASE: KUMBERG WELL NO. 1-14							
ADDRESS:		COUNTY: BARBER STATE: KS.							
CITY: STATE:		SERVICE CREW: LESLEY, LAWRENCE, MARQUEZ							
AUTHORIZED BY:		JOB TYPE: CNW - 5 1/2" 2-STAGE L.S.							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
37586	5.5					1-20-12		PM	8:30
27463	5.5							PM	10:00
19832-21010	5.5							AM	1:30
19807								AM	6:45
								AM	7:30
						RELEASED		AM	7:30
						MILES FROM STATION TO WELL		20	

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

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SIGNED: \_\_\_\_\_  
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP100C	COMMON CMT.	SK	125		2,000.00	
CP100C	COMMON CMT.	SK	100		1,600.00	
CP100C	COMMON CMT.	SK	50		800.00	
CC 105	C-411P	lb	52		208.00	
CC 111	SALT	lb	1364		682.00	
CC 113	GYP SUM	lb	1295		971.25	
CC 115	C-44	lb	259		1,333.85	
CC 129	FLA-322	lb	208		1,560.00	
CC 201	GILSONITE	lb	1375		921.25	
CF 401	TWO STAGE CMT. COLLAR, 5 1/2"	EA	1		6,100.00	
CF 601	LATCH DOWN PLUG & ASSEMBLY, 5 1/2"	EA	1		850.00	
CF 1251	AUTO FILL FLOAT SHOULDER, 5 1/2"	EA	1		360.00	
CF 1651	TURBO LIZER, 5 1/2"	EA	10		1,100.00	
CF 1901	BASKET, 5 1/2"	EA	2		580.00	
CC 151	MOD FLUSH	GAL	2000		1,700.00	
					SUB TOTAL	DCS

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: <i>David Lesley</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <i>L.D. Davis &amp; D. Scott</i>
FIELD SERVICE ORDER NO.:	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



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ENERGY SERVICES  
PRESSURE PUMPING & WIRELINE

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

FIELD SERVICE TICKET

1718 ~~05524~~ A

"CONTINUATION"

DATE \_\_\_\_\_ TICKET NO. 171805523A

DATE OF JOB: 1-21-2012	DISTRICT: PRATT, KS.	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: LD DRILLING, INC.	LEASE: KUMBERG	WELL NO. 1-14							
ADDRESS:	COUNTY: BARBER	STATE: KS.							
CITY:	STATE:	SERVICE CREW: LESLEY, LAWRENCE, MARQUEZ, GORDLEY							
AUTHORIZED BY:	JOB TYPE: CNW-5 1/2" 2-STAGE L.S.								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE: 1-20-12	AM	TIME
375846	5.5					ARRIVED AT JOB	9	PM	10:00
27463	5.5					START OPERATION	1-21-12	AM	1:30
19907	5.5					FINISH OPERATION	9	AM	6:45
19832-21010						RELEASED	9	AM	7:30
							MILES FROM STATION TO WELL	20	

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
E 100	PICKUP MILEAGE	MI	20		85.00
E 101	HEAVY EQUIPMENT MILEAGE	MI	40		280.00
E 113	BULK DELIVERY CHARGE	TM	259		414.40
CE 205	DEPTH CHARGE: 4000'-5000'	HR	1-4		2,520.00
CE 240	BLENDING SERVICE CHARGE	SK	275		385.00
CE 504	PLUG CONTAINER CHARGE	JOB	1		250.00
S 003	SERVICE SUPERVISOR	FA	1		175.00

SUB TOTAL 205 \$19,667.60

CHEMICAL / ACID DATA:			

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

SERVICE REPRESENTATIVE: <i>Lesley</i>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: L.D. Davis By D. Scott
FIELD SERVICE ORDER NO.	(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



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energy services, L.P.

PG. # 1 OF # 2

## TREATMENT REPORT

Customer <b>LD DRILLING, INC.</b>	Lease No.	Date <b>1-21-2012</b>
Lease <b>KUMBERG</b>	Well # <b>1-14</b>	
Field Order # <b>05523</b>	Station <b>PRATT, KS.</b>	Casing <b>3 1/2"</b>
Type Job <b>CNW - 5 1/2" TWO STAGE L.S.</b>	Depth <b>4517</b>	County <b>BARBER</b>
	Formation <b>TD - 4760</b>	State <b>KS.</b>
		Legal Description <b>14-22-12</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size <b>5 1/2" x 4 1/2"</b>	Tubing Size	Shots/Ft	<b>CMT -</b>	Acid	<b>125SK Common</b>	RATE	PRESS	ISIP
Depth <b>4509.15</b>	Depth	From	To	Pre Pad	<b>@ 1.43 CUFT<sup>3</sup></b>	Max		5 Min.
Volume	Volume	From	To	Pad		Min		10 Min.
Max Press <b>1500</b>	Max Press	From	To	Frac		Avg		15 Min.
Well Connection	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth <b>4414.40</b>	Packer Depth	From	To	Flush	<b>109.6 BBL</b>	Gas Volume		Total Load

Customer Representative <b>LD DAVIS</b>	Station Manager <b>SCOTTY</b>	Treater <b>LESLEY / GORDLEY</b>
Service Units <b>19907 37586 27463 19832 21010</b>		
Driver Names <b>GORDLEY LESLEY LAURENCE MARQUEZ</b>		

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
10:00 PM					ON LOCATION - SAFETY MEETING
11:00 PM					SPOT TRUCKS ON LOC.
11:36 PM					RUN 105 JTS. 5 1/2" x 4 1/2" # C59. / 55 = 14.75'
					CENT. - 1, 3, 5, 7, 9, 33, 35, 37, 39, 41
					BASK. - BOTTOM OF #1 @ 34'
					DV TOOL - TOP #34 @ 3000'
1:25 AM					C59 ON BOTTOM
1:30 AM					HOOK UP TO C59. / BREAK CIRC. W/ RIG
2:40 AM	300		24	6	MUD FLUSH
3:05 AM	200		5	6	H2O SPACER
3:10 AM	200		32	6	MIX 125SK CMT. @ 15.0 PPG
3:14 AM					CLEAR PUMP & LINE / DROP L.D. PLUG
3:19 AM	0		0	6	START DISPLACEMENT W/ H2O
3:27 AM	200		40	6	SWITCH TO MUD DISPLACEMENT
3:35 AM	400		85	6	LIFT PRESSURE
3:39 AM	500		105	5	SLOW RATE
3:40 AM	1500		109.6	4	PLUG DOWN - HELD
					CIRC. THRU BOTTOM STAGE
3:45 AM					DROP DV OPEN TOOL - WAIT 15 MIN.
4:00 AM	1000				OPEN DV TOOL W/ MUD
					CIRC. 2 HOURS

OVER →

# BASIC

energy services, L.P.

Pg # 2 of # 2

## TREATMENT REPORT

Customer <b>LD DRILLING, INC.</b>	Lease No.	Date
Lease <b>KUMBERG</b>	Well # <b>1-14</b>	<b>1-21-2012</b>
Field Order # <b>05523</b>	Station <b>PRATT, KS.</b>	Casing <b>5/2"</b>
Type Job <b>CNW - 5 1/2" TWO STAGE L.S.</b>	Depth <b>4517</b>	County <b>BARBER</b>
	Formation <b>3000'-DV</b>	State <b>KS</b>
		Legal Description <b>14-22-12</b>

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size # <b>5 1/2 x 14</b>	Tubing Size	Shots/Ft	<b>CMT -</b>	Aeje <b>100SK Common</b>	RATE	PRESS	ISIP	
Depth <b>4509.15</b>	Depth	From	To	Pre Pad <b>@ 1.43 cuft</b>	Max		5 Min.	
Volume <b>73.2 BBL</b>	Volume	From	To	Pad	Min		10 Min.	
Max Press <b>7500</b>	Max Press	From	To	Frac	Avg		15 Min.	
Well Connection <b>P.C.</b>	Annulus Vol.	From	To		HHP Used		Annulus Pressure	
Plug Depth <b>3000'</b>	Packer Depth	From	To	Flush <b>73.2 BBL</b>	Gas Volume		Total Load	

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

Service Units	<b>19907</b>	<b>37586</b>	<b>27463</b>	<b>19832</b>	<b>21010</b>				
Driver Names	<b>GORDLEY</b>	<b>LESLEY</b>	<b>LAWRENCE</b>	<b>MARGUEZ</b>					

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
					<b>TOP STAGE</b>
<b>6:00AM</b>	<b>250</b>		<b>24</b>	<b>6</b>	<b>MUD FLUSH</b>
<b>6:17AM</b>	<b>200</b>		<b>5</b>	<b>6</b>	<b>H<sub>2</sub>O SPACER</b>
<b>6:21AM</b>	<b>150</b>		<b>25</b>	<b>6</b>	<b>MIX 100SK CMT. @ 15.0 PPG</b>
<b>6:25AM</b>					<b>CLEAR PUMP &amp; LINE / DROP DU PLUG</b>
<b>6:28AM</b>	<b>0</b>		<b>0</b>	<b>5</b>	<b>START DISPLACEMENT</b>
<b>6:39AM</b>	<b>250</b>		<b>55</b>	<b>5</b>	<b>LIFT PRESSURE</b>
<b>6:42AM</b>	<b>500</b>		<b>6.5</b>	<b>4</b>	<b>SLOW RATE</b>
<b>6:45AM</b>	<b>2000</b>		<b>73.2</b>	<b>4</b>	<b>PLUG DOWN - CLOSE DU TOOL</b>
					<b>CIRC. THRU TOP STAGE</b>
			<b>7.5</b>		<b>PLUG R.H. &amp; M.H.</b>
					<b>WASH UP TRUCK</b>
					<b>JOB COMPLETE,</b>
					<b>THANKS -</b>
					<b>KEVEN LESLEY</b>

Taylor Printing, Inc. 620-672-3656



# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M259
Well Name	KUMBERG #1-14	Representative	MIKE COCHRAN
Unique Well ID	DST#1 3662-3696 UPPER DOUGLAS SANDSTONE	Well Operator	L.D. DRLG
Surface Location	SEC.14-30S-12W BARBER CO.KS.	Report Date	2012/01/16
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	SCOTT ALBERG
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#1 3662-3696 UPPER DOUGLAS SANDSTONE		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/01/16	Start Test Time	01:20:00
Final Test Date	2012/01/16	Final Test Time	09:05:00
		Well Fluid Type	01 Oil
Gauge Name	E1150		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED:  
2190' GIP  
80' GMW 1% GAS, 43% WTR, 56% MUD  
80' TOTAL FLUID

CHLOR: 23,000 PPM  
PH: 7.0  
RW: .58 @54 DEG

TOOL SAMPLE: 70% WTR, 30% MUD



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

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

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 \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 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 STERLING 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 _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	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

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M260
Well Name	KUMBERG #1-14	Representative	MIKE COCHRAN
Unique Well ID	DST#2 4283-4319 MISSISSIPPI	Well Operator	L.D. DRLG
Surface Location	SEC.14-30S-12W BARBER CO.KS.	Report Date	2012/01/18
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	SCOTT ALBERG
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#2 4283-4319 MISSISSIPPI		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/01/17	Start Test Time	22:10:00
Final Test Date	2012/01/18	Final Test Time	06:20:00
		Well Fluid Type	01 Oil
Gauge Name	E1150		
Gauge Serial Number			

### Test Results

#### Remarks

RECOVERED:  
GTS 2 MIN  
88' GDM 2% GAS, 98% MUD  
88' TOTAL FLUID

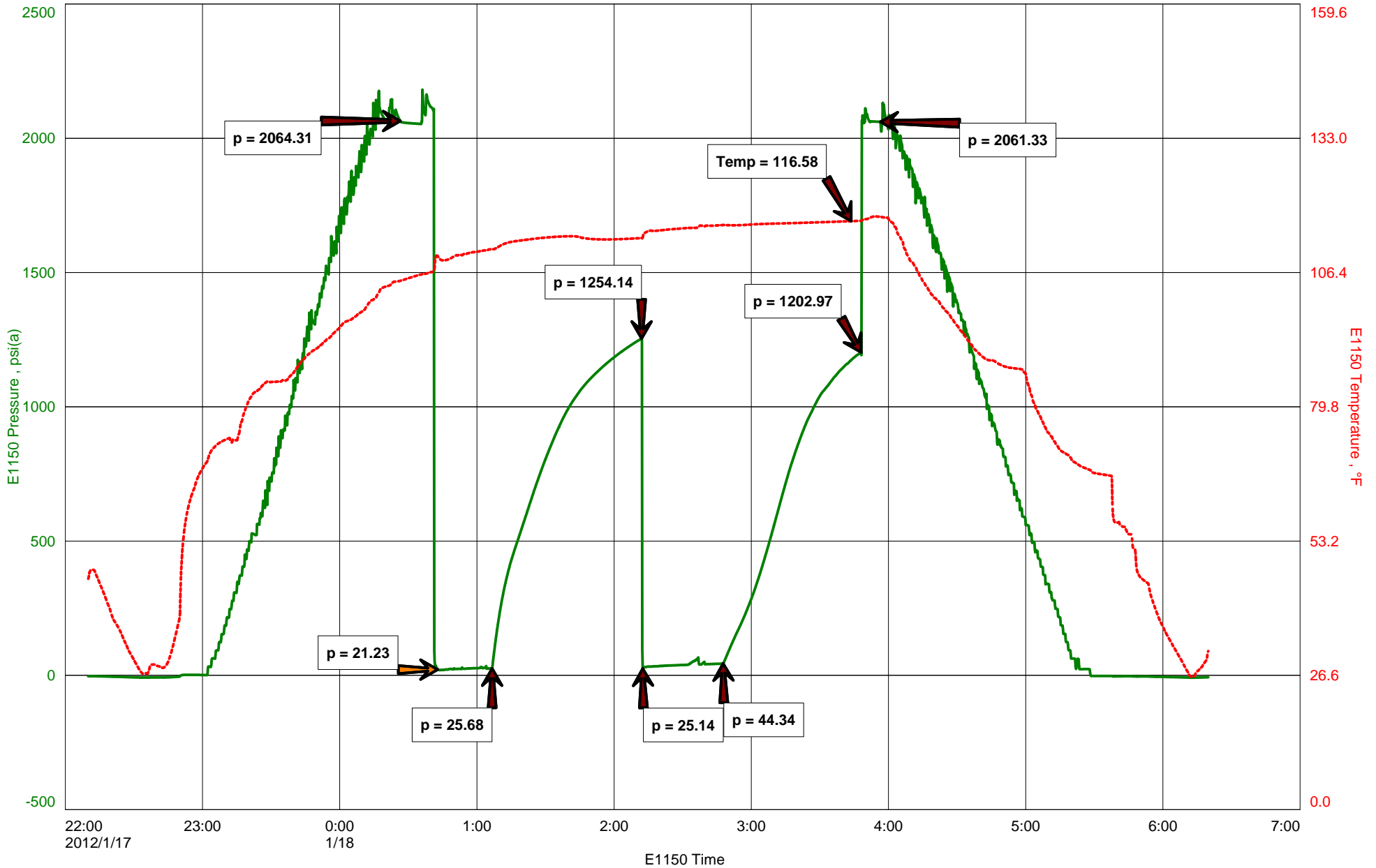
GAS VOLUME TSTM, DID BURN NICELY, BLUE&ORANGE

TOOL SAMPLE: GASSY DM W/ A FEW SPOTS OF OIL

L.D. DRLG  
DST#2 4283-4319 MISSISSIPPI  
Start Test Date: 2012/01/17  
Final Test Date: 2012/01/18

KUMBERG #1-14  
Formation: DST#2 4283-4319 MISSISSIPPI  
Pool: WILDCAT  
Job Number: M260

# KUMBERG #1-14





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

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

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 \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 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 STERLING 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 _____	Price Job Other Charges Insurance Total
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Remarks: _____	

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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# DIAMOND TESTING

## Pressure Survey Report

### General Information

Company Name	L.D. DRLG	Job Number	M261
Well Name	KUMBERG #1-14	Representative	MIKE COCHRAN
Unique Well ID	DST#3 4320-4340 MISSISSIPPI	Well Operator	L.D. DRLG
Surface Location	SEC.14-30S-12W BARBER CO.KS.	Report Date	2012/01/18
Field	WILDCAT	Prepared By	MIKE COCHRAN
Well Type	Vertical	Qualified By	SCOTT ALBERG
		Test Unit	NO. 1

### Test Information

Test Type	CONVENTIONAL		
Formation	DST#3 4320-4340 MISSISSIPPI		
Test Purpose (AEUB)	Initial Test		
Start Test Date	2012/01/18	Start Test Time	13:25:00
Final Test Date	2012/01/18	Final Test Time	20:25:00
		Well Fluid Type	01 Oil
Gauge Name	E1150		
Gauge Serial Number			

### Test Results

#### Remarks

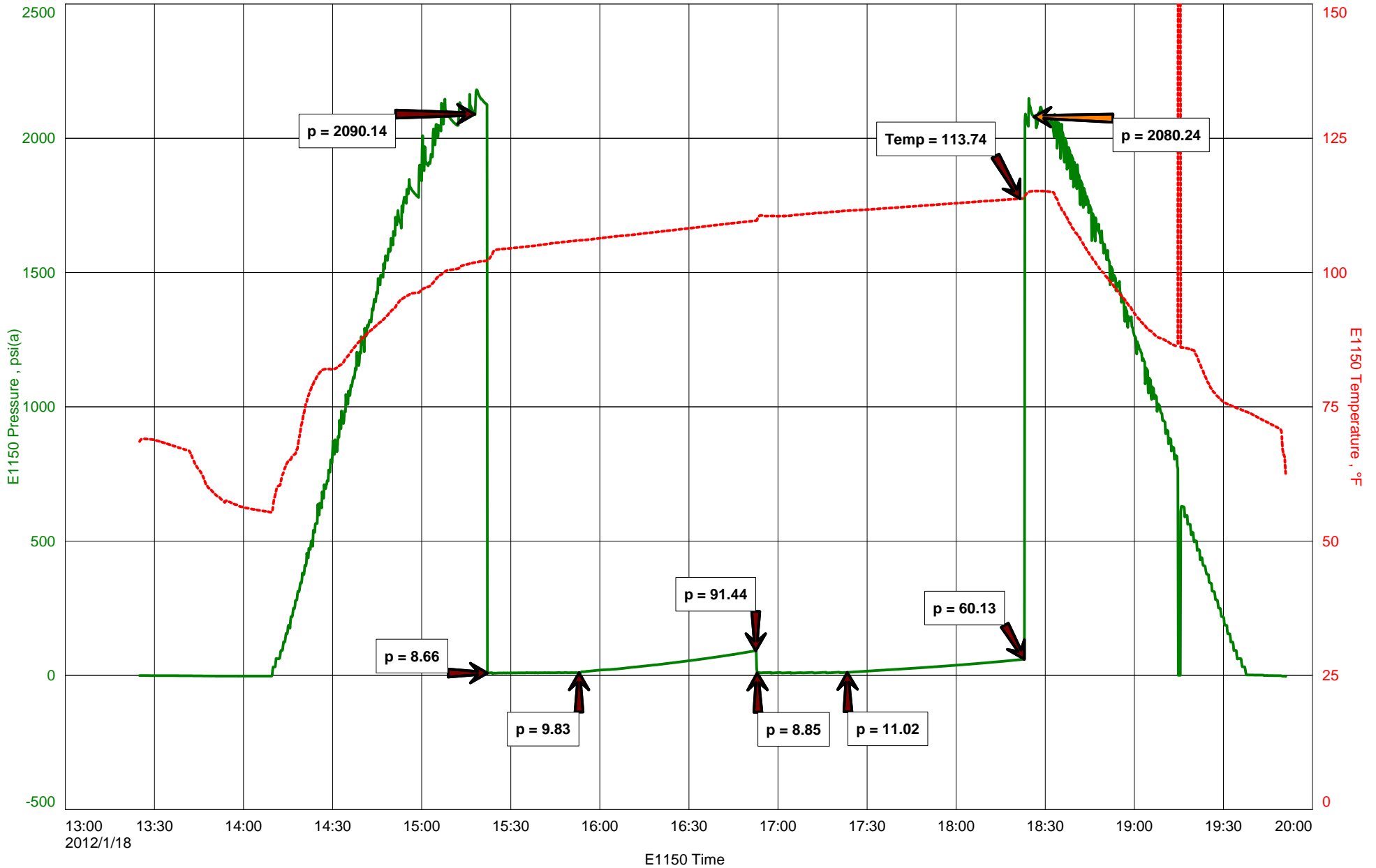
RECOVERED:  
50' GIP  
15' DM 100% MUD  
15' TOTAL FLUID

TOOL SAMPLE:100% MUD

L.D. DRLG  
DST#3 4320-4340 MISSISSIPPI  
Start Test Date: 2012/01/18  
Final Test Date: 2012/01/18

KUMBERG #1-14  
Formation: DST#3 4320-4340 MISSISSIPPI  
Pool: WILDCAT  
Job Number: M261

# KUMBERG #1-14





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

TIME ON: \_\_\_\_\_  
TIME OFF: \_\_\_\_\_

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 \_\_\_\_\_

Formation Test No. \_\_\_\_\_ Interval Tested from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Total Depth \_\_\_\_\_ ft.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth \_\_\_\_\_ ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 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 STERLING 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 _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: _____	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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# LITHOLOGY STRIP LOG

## WellSight Systems

Scale 1:240 (5"=100') Imperial  
Measured Depth Log

Well Name: Kumberg #1-14  
Location: S/2 NW SE SW  
License Number: API: 15-007-23819-00-00  
Spud Date: January 11, 2012  
Surface Coordinates: 865' FSL, 1650' FWL Section 14-Twp 30 South - Rge 12 West  
Meairs Pool  
Region: Barber County, Kansas  
Drilling Completed: January 20, 2012

Bottom Hole Coordinates: Vertical Hole

Ground Elevation (ft): 1755  
Logged Interval (ft): 2500 To: 4760 K.B. Elevation (ft): 1763  
Total Depth (ft): 4760

Formation: Arbuckle

Type of Drilling Fluid: Chemical Mud, Displace at 2450'.

Printed by WellSight Log Viewer from WellSight Systems 1-800-447-1534 www.WellSight.com

### OPERATOR

Company: L. D. Drilling, INC  
Address: 7 SW 26th AVE  
Great Bend, KS 67530-6525

### GEOLOGIST

Name: W. Scott Alberg  
Company: Alberg Petroleum, LLC  
Address: 609 Meadowlark Lane  
Pratt, Kansas 67124

	SAMPLE TOPS	FORMATION TOPS	LOG TOPS
ONAGA SHALE	2698(-935)		2697(-934)
WABAUNSEE	2744(-981)		2743(-980)
STOTLER	2885(-1122)		2886(-1123)
HOWARD	3119(-1356)		3119(-1356)
TOPEKA	3276(-1512)		3274(-1512)
ELGIN SAND	3456(-1693)		3457(-1694)
HEEBNER	3634(-1871)		3634(-1871)
TORONTO	3650(-1887)		3654(-1881)
DOUGLAS SHALE	3670(-1907)		3671(-1908)
BROWN LIME	3814(-2051)		3816(-2052)
LANSING	3827(-2064)		3827(-2064)
STARK	4139(-2376)		4138(-2376)
B/KC	4248(-2485)		4246(-2483)
MISSISSIPPIAN	4300(-2537)		4300(-2537)
KINDERHOOK SHALE	4378(-2615)		4376(-2613)
VIOLA	4525(-2761)		4526(-2761)
SIMPSON	4610(-2847)		4611(-2848)
ARBUCKLE	4724(-2961)		4724(-2961)
RTD			
LTD	4760(-2997)		4760(-2997)

### COMMENTS

Surface Casing: Set 8 joints 10 3/4", 32#, " at 333' with 350sxs 60/40 Poz, 3% cc 2% gel, Plug down at 4:30 am on January 12, 2012. Cement did circulate.  
Surveys: 1 - 335', 1 1/8 - 3696', 1 - 4319', 1 1/2 - 4760'.  
Production Casing: 5 1/2".  
Contractor Bit Record: 1 - 14 3/4' out at 335'  
2 - 7 7/8" out at 4760'

Gas Detector: Bluestem  
Mud System: Andy's Mud, Dennis Rector, Engineer  
DSTs.: Diamond Testing, Mike Cochran, Tester  
Logged By Log Tech, Inc  
LTD 4760'

DSTs

DST #1 3662 to 3696' Upper Douglas Sand

Times 30-60-30-60

1st Opening - Strong Blow BOB 30 Seconds, no blow back

2nd Opening - Strong Blow, BOB 25 Seconds, no blow back

Recovery: 2160' GIP, 80' GWM (1% G, 43% W, 56% M)

Chlorides 23,000 ppm

IFP 15-24# FFP 31-42#

ISIP 1251# FSIP 1190#

IHP 1731# FHP 1731#

DST #2 4283 to 4319' Mississippi

Times 30-60-30-60

1st Opening, Strong Blow, BOB 30 Seconds, weak 1/8" blow back

2nd Opening, strong Blow, GTS 2 Minutes, TSTM, weak 1/8" blow back

Recovery

88' GDM (2%G, 98% M), trace of oil in tool.

IFP 21-26# FFP 25-44#

ISIP 1254# FSIP 1203#

IHP 2064# FHP 2061#

DST #3 4320 to 4340 Mississippi

Times 30-60-30-60

1st Opening, weak Blow, 1 1/4", no blow back

2nd Opening, Weak Blow 1 1/2", no blow back

Recovery 50' GIP, 15' Mud

IFP 9-20# FFP 9-11#

ISIP 91# FSIP 60#

IHP 2090# FHP 2080#

CREWS

Duke Drilling Rig #2

Tool Pusher - John Armstrong

Drillers - Days - Dion Vasquez

Evening - Kevin Martin

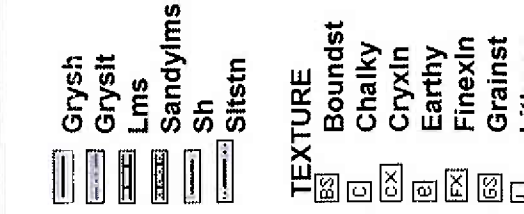
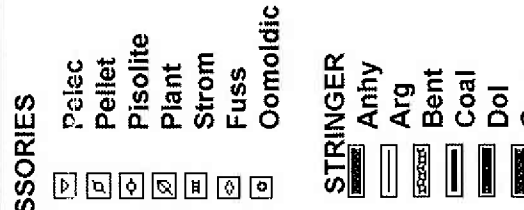
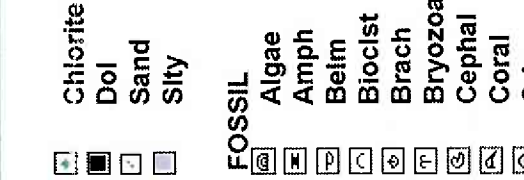
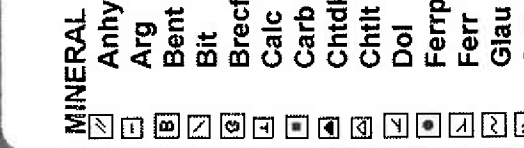
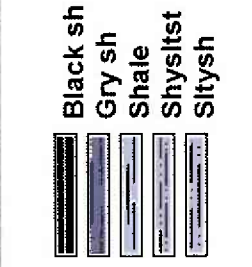
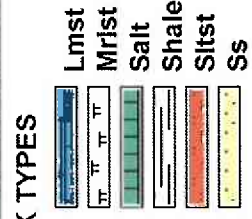
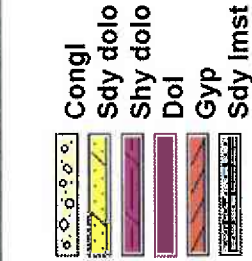
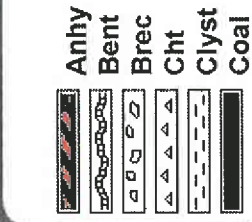
Morning - Rodney Shelton

RECOMMENDATIONS

With the results of log calculations and DST #2, it was recommended that casing be set to further evaluate the Mississippian and the Stotler Sand.

Respectfully,

W. Scott Alberg



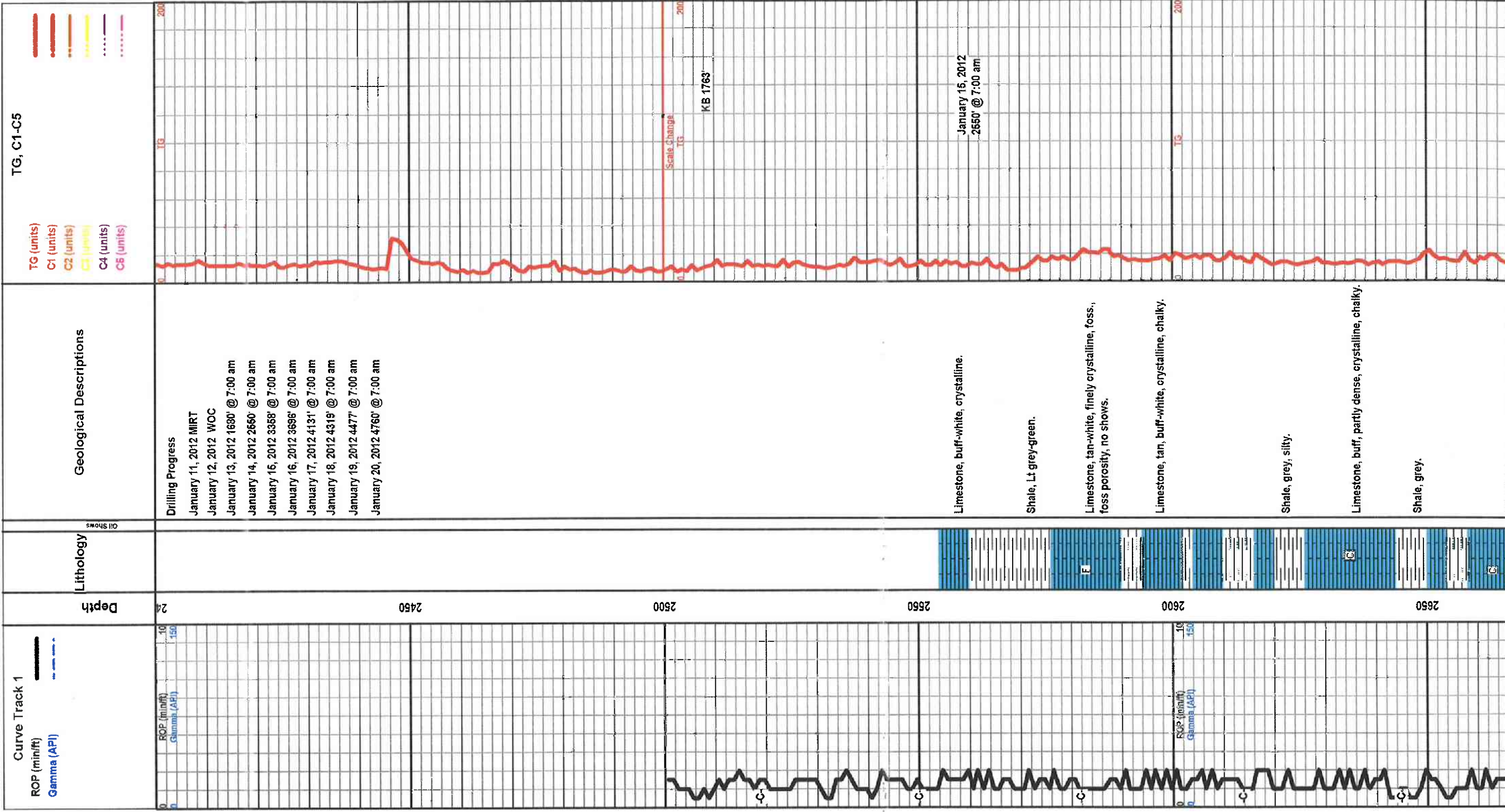
- Ferrpet
- Ferr
- Glau
- Gyp
- Marl
- Nodule
- Phos
- Pyr
- Salt
- Sandy
- Silt

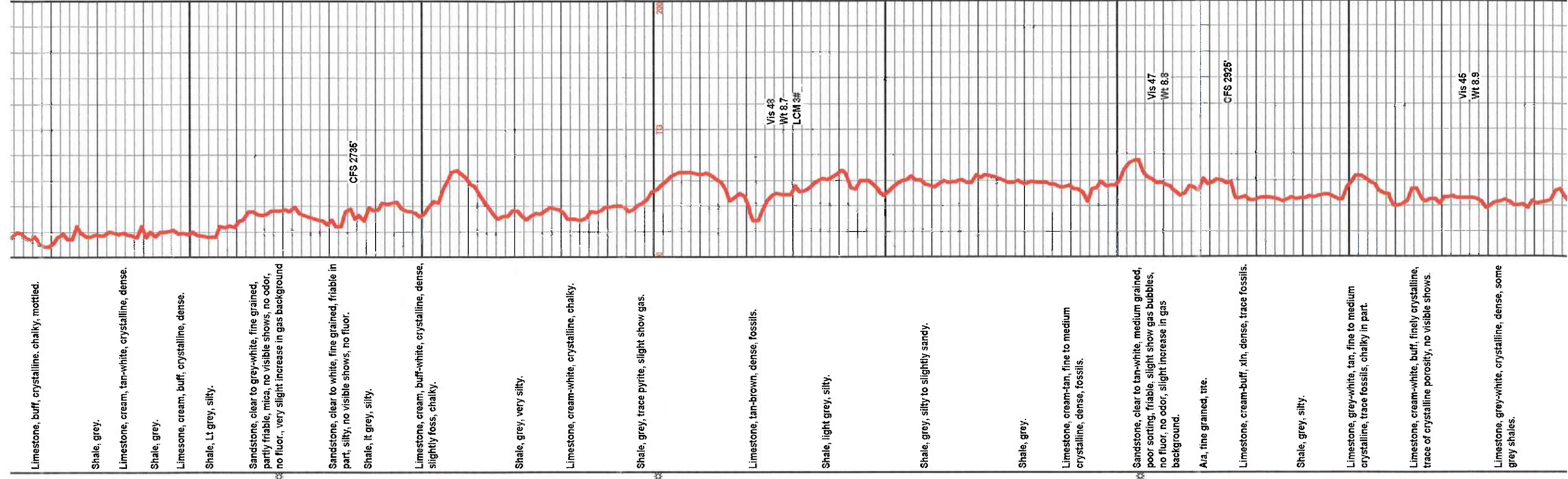
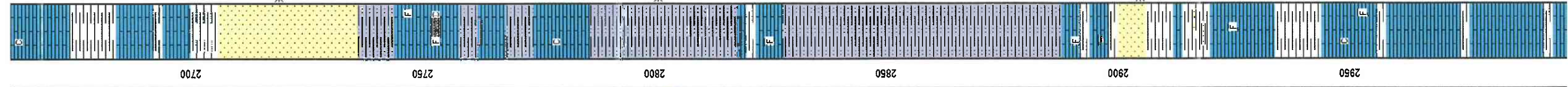
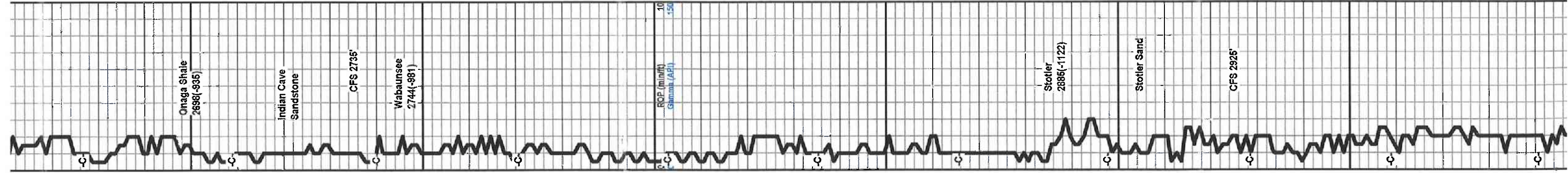
- Bryozoa
- Cephal
- Coral
- Crin
- Echin
- Fish
- Foram
- Fossil
- Gastro
- Oolite
- Ostra

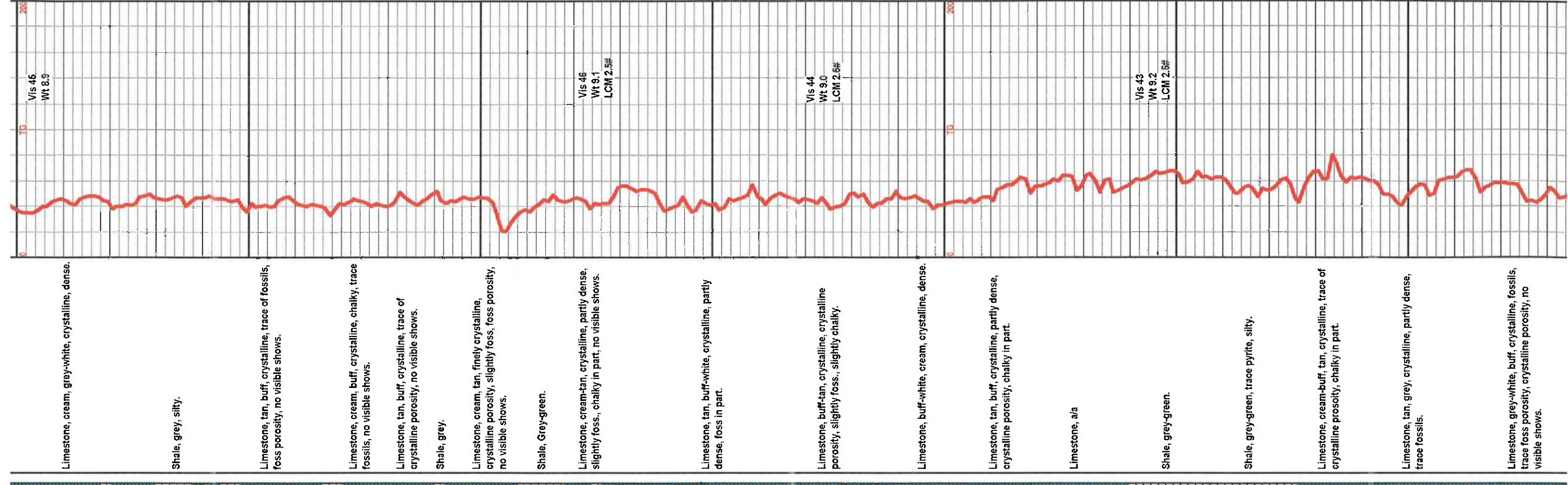
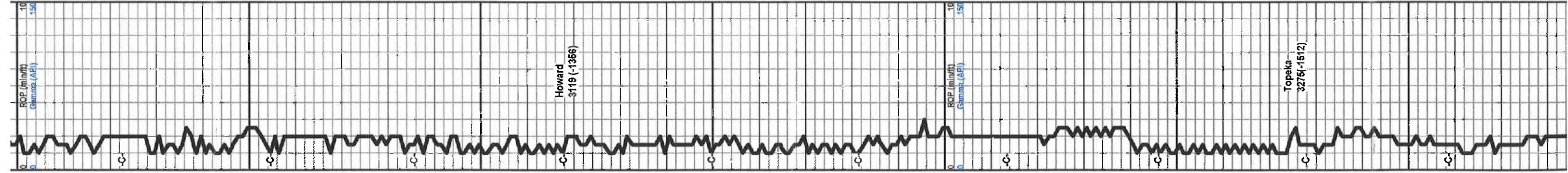
- Bent
- Coal
- Dol
- Gyp
- Ls
- Mrst
- Siltstrg
- Ssstrg
- Carbsh
- Clystrn
- Dol

- FX
- GS
- L
- MX
- MS
- PS
- WS

- Earry
- Finexin
- Grainst
- Lithogr
- Microxin
- Mudst
- Packst
- Wackest







Limestone, cream, grey-white, crystalline, dense.

Shale, grey, silty.

Limestone, tan, buff, crystalline, trace of fossils, no visible shows.

Limestone, cream, buff, crystalline, chalky, trace fossils, no visible shows.

Limestone, tan, buff, crystalline, trace of crystalline porosity, no visible shows.

Shale, grey.

Limestone, cream, tan, finely crystalline, crystalline porosity, slightly foss, foss porosity, no visible shows.

Shale, Grey-green.

Limestone, cream-tan, crystalline, partly dense, slightly foss., chalky in part, no visible shows.

Limestone, tan, buff-white, crystalline, partly dense, foss in part.

Limestone, buff-tan, crystalline, crystalline porosity, slightly foss., slightly chalky.

Limestone, buff-white, cream, crystalline, dense.

Limestone, tan, buff, crystalline, partly dense, crystalline porosity, chalky in part.

Limestone, aia

Shale, grey-green.

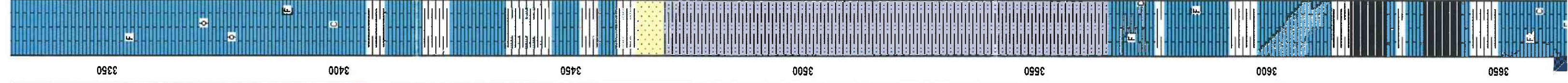
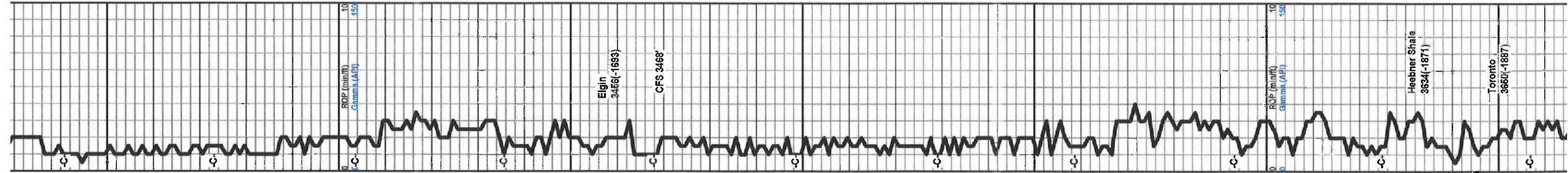
Shale, grey-green, trace pyrite, silty.

Limestone, cream-buff, tan, crystalline, trace of crystalline porosity, chalky in part.

Limestone, tan, grey, crystalline, partly dense, trace fossils.

Limestone, grey-white, buff, crystalline, fossils, trace foss porosity, crystalline porosity, no visible shows.





Limestone, cream, grey-white, crystalline, fossils, chalky on part, crystalline porosity, no visible shows, traces of oolitic porosity.

Limestone, buff-white, crystalline, trace of oolitic porosity, no visible shows.

Limestone, cream-tan, crystalline, dense in part, slightly chalky.

Limestone, cream-tan, buff, xln, dense.

Shale, grey.

Limestone, tan-white, crystalline, dense.

Shale, dark grey, silty.

Limestone, cream-tan, crystalline, dense.

Limestone, cream-tan, crystalline, dense.

Sandstone, clear to grey-white, fine grained, silty, some friable, mica, no visible shows, no odor, no fluor.

Shale, light grey, silty to sandy, no shows.

Shale, a/a

Shale, grey, light grey, silty, soft.

Shale, a/a.

Limestone, tan, crystalline, dense, trace fossils.

Limestone, tan, crystalline, dense, trace fossils.

Shale, dark grey

Limestone, tan-brown, crystalline, dense.

Limestone, a/a, tan, buff

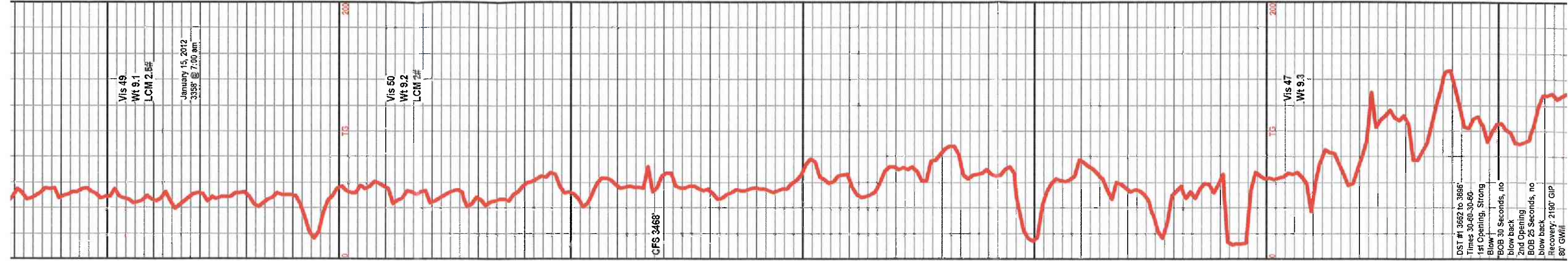
Shale, grey-black, carb

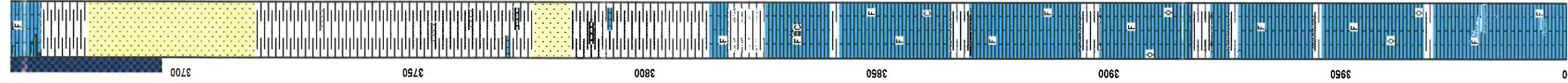
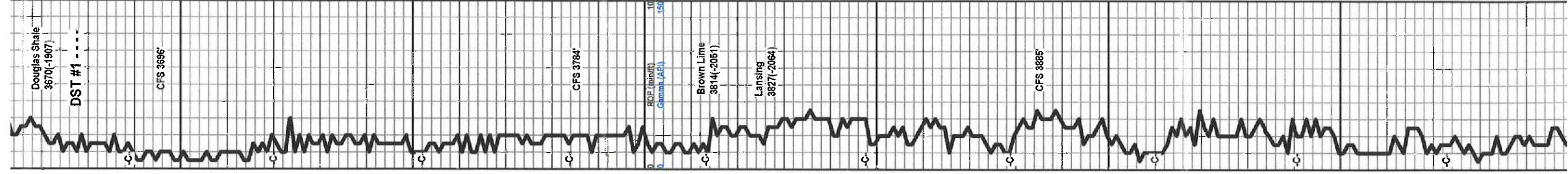
Limestone, buff, tan, dense, crystalline.

Shale, grey-black, carb

Limestone, grey-white, crystalline, dense.

Limestone, tan-white, cream, crystalline, fossils, trace of crystalline porosity, slightly chalky, no visible shows.





Shale, Light grey, silty.

Sandstone, clear to grey-white, fine grained, slightly friable, slight show gas bubbles, no visible show of oil, no odor.

Sandstone, ala, very friable, slight show gas bubbles, faint odor, good gas indication.

Sandstone, ala, friable, slight show gas bubbles, mica, faint odor, slight show of oil, spotty fluor.

Shale, Light grey, silty to sandy.

Shale, grey, light grey, silty sandy in part.

Sandstone, grey, fine to medium grained, some limestone fragments, few pieces friable, no visible shows, no odor, no fluor.

Shale, dark grey, silty.

Limestone, tan-brown, fine to medium crystalline, dense, fossils.

Shale, grey.

Limestone, cream-white, tan, crystalline, dense, slightly foss, chalky, no visible shows.

Limestone, cream-tan, crystalline, trace crystalline porosity, chalky, fossils, no visible shows.

Shale, grey.

Limestone, cream, buff, crystalline, crystalline porosity, some pin point porosity, no visible shows, no odor, no gas kick.

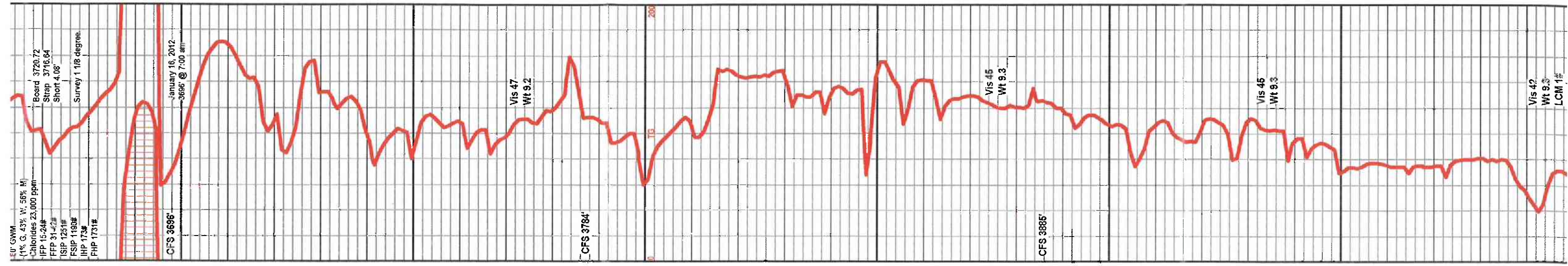
Shale, grey.

Limestone, buff, cream-white, crystalline, slightly foss., trace of oolitic porosity, crystalline porosity, no visible shows.

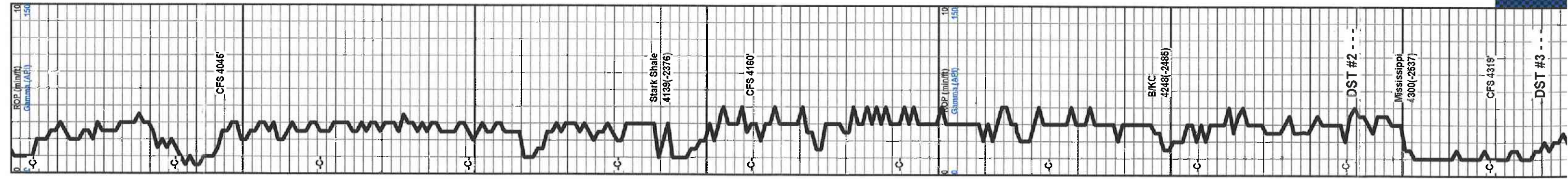
Limestone, grey-white, finely crystalline, dense, fossils, no visible shows.

Limestone, buff-white, crystalline, trace oolitic porosity, oolitic, no visible shows.

Limestone, buff-white, crystalline, crystalline porosity, slightly foss, traces of grey chert, no visible shows.



UO GWM  
 (1% G, 43% W, 56% M)  
 Chlorides 23,000 ppm  
 IFP 15-24#  
 Board 3720.72  
 Strap 3716.64  
 Shot 4.08  
 FFP 31-2#  
 TSP 1281#  
 FSP 1198#  
 IHP 173#  
 FHP 1731#  
 Survey 1 11% degree.  
 CFS 3696  
 -January 16, 2012-  
 -3696 @ 7:00 am



40 4050 4100 4150 4200 4250 4300



Limestone, a/a, oolitic, trace of oolitic porosity, no visible shows.

Limestone, tan-brown, crystalline, dense, fossils, no visible shows.

Shale, grey-green.

Limestone, cream-white, crystalline, oolites, oolitic porosity, barron, no odor, no gas kick, no visible shows.

Limestone, tan, buff, fine to medium crystalline, dense, slightly foss. no visible shows.

Limestone, tan, grey, crystalline, dense, fossils, no visible shows, traces of grey shales, grey cherts.

Limestone, tan-white, crystalline, fossils, oolitic porosity, no visible shows, no odor, no gas kick.

Limestone, tan-grey, off-white, crystalline, dense, grey cherts, no shows.

Shale, grey-black, carb.

Limestone, buff-white, finely crystalline, traces of crystalline porosity, some foss. porosity, no visible shows, no odor, no kick, slightly chalky in part.

Shale, grey-black, carb.

Limestone, tan-brown, buff, crystalline, dense, slightly foss., no visible shows.

Limestone, tan, fine to medium crystalline, dense, slightly foss, trace tan cherts, no visible shows.

Limestone, tan-buff, crystalline, oolitic, trace of foss. porosity, no visible shows.

Limestone, grey-tan, fine to medium crystalline, dense, foss, no visible shows.

Shale, grey.

Limestone, tan-white, crystalline, dense.

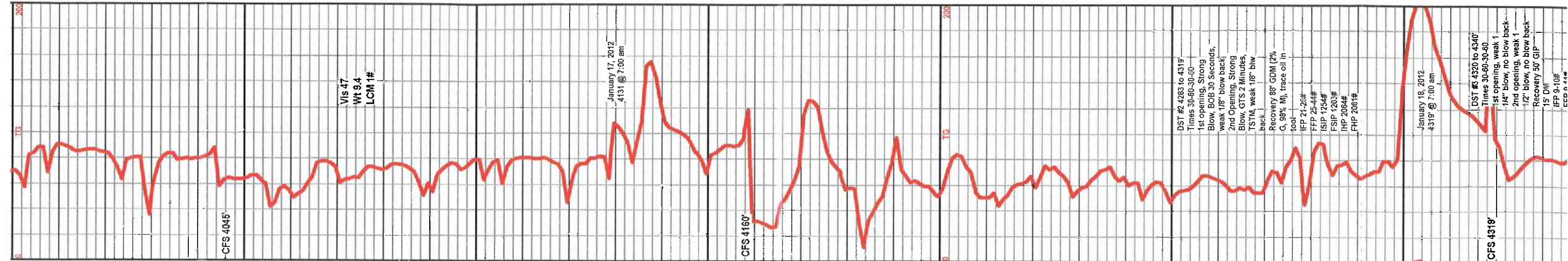
Shale, grey-green.

Limestone, tan-white, crystalline, dense, trace dark asphaltic staining, no odor, no gas kick.

Shale, grey-green.

Chert, white, bone-white, sharp, trace of weathered, some light edge staining, very slight show oil, poor odor, very dull spotty fluor., trace small vugs, trace asphaltic staining.

Chert, white to off-white, bone-white, sharp, some weathered, scattered small vugs, edge staining, asphaltic staining, slight odor, spotty fluor., some free oil in tray.



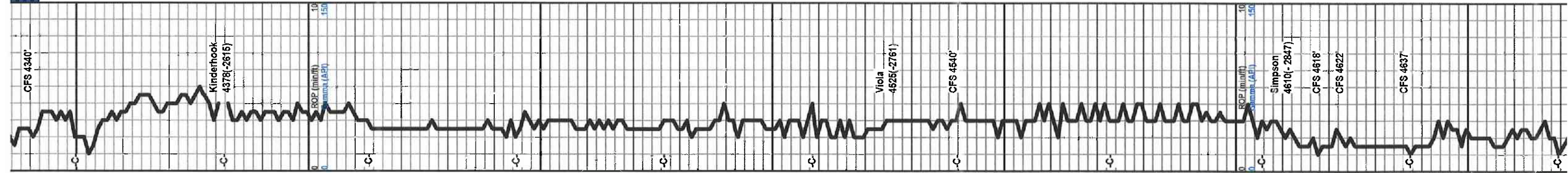
200

January 17, 2012  
4:13 @ 7:00 am

January 18, 2012  
4:31 @ 7:00 am

DST #2 4283 to 4319'  
Times 30-60-30-60  
1st opening, Strong  
Blow, BOB 30 Seconds,  
weak 1/8" blow back  
2nd Opening, Strong  
Blow, GTS 2 Minutes,  
TSTM, weak 1/8" blow  
back  
Recovery 88% GDM (2%  
G, 98% M), trace oil in  
tool  
IFP 21-26#  
FFP 25-44#  
ISJP 1254#  
IHP 2064#  
FHP 2081#

DST #3 4320 to 4340'  
Times 30-60-30-60  
1st opening, weak 1  
1/4" blow, no blow back  
2nd opening, weak 1  
1/2" blow, no blow back  
Recovery 50% GIP  
15' DM  
IFP 9-10#  
FCD 0.44#



Limestone, tan-white, crystalline, slightly cherty, trace chalky.

Chert, white to translucent, sharp, very clean, no visible shows.

Limestone, tan, buff-white, crystalline, dense, chalky in part.

Shale, light grey, silty.

Shale, it grey, grey, traces of pyrite.

Shale, grey, silty.

Shale, grey, dark grey.

Shale, grey, dark grey.

Shale, dark grey, brownish grey, silty, traces of pyrite.

Shale, dark grey brownish grey, traces of sand clusters, slight possible staining on sand clusters, questionable slight show on sand., very faint odor.

Limestone, buff-white, very finely crystalline, trace of crystalline porosity, traces of tan chert, sharp, dolomitic in part, some granular texture, few pieces had a very slight show of light oil, faint odor, poor porosity, dull spotty fluor.

Limestone, tan-white, finely crystalline, dense, traces of sharp tan cherts, some chalky limestone, very slightly dolomitic in part, no visible shows, no odor, dull spotty fluor.

Limestone, tan, crystalline, dolomitic, granular texture, tan cherts, no visible show, no odor, no fluor.

Limestone, tan-white, tan, crystalline, granular, chert, slightly dolomitic, no visible shows.

Shale, pale green to green.

Sandstone, clear to white, SA, fair sorting, friable, some grey-white, no visible shows, no odor no fluor, questionable slight gas increase.

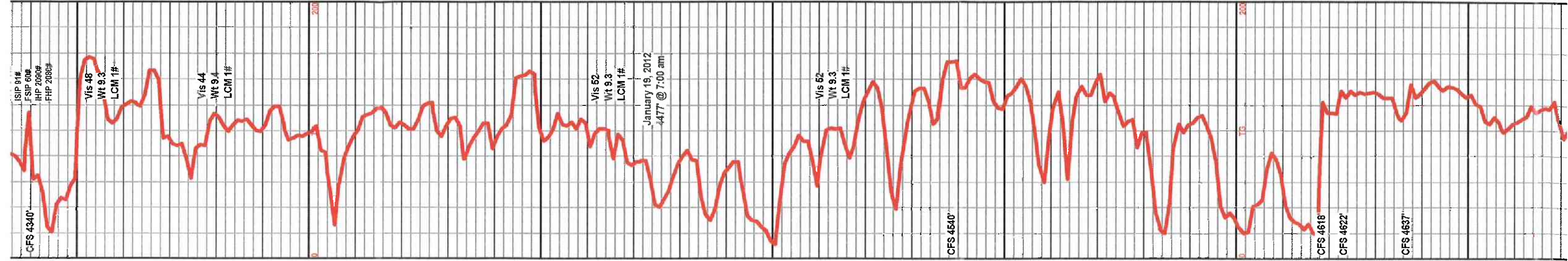
Sandstone, clear to grey-white, fair sorting, some well cemented, sa to sr, no visible shows, no odor, no fluor.

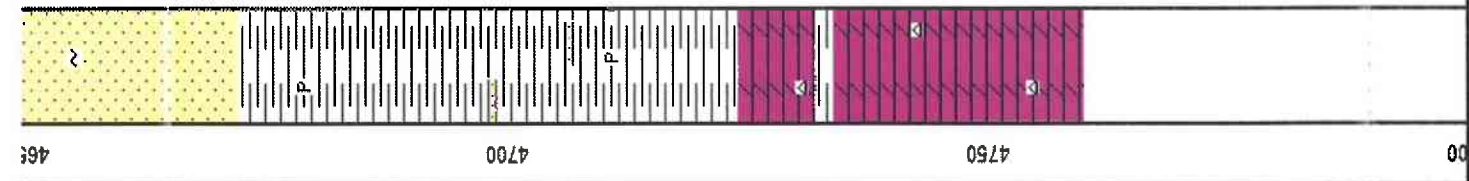
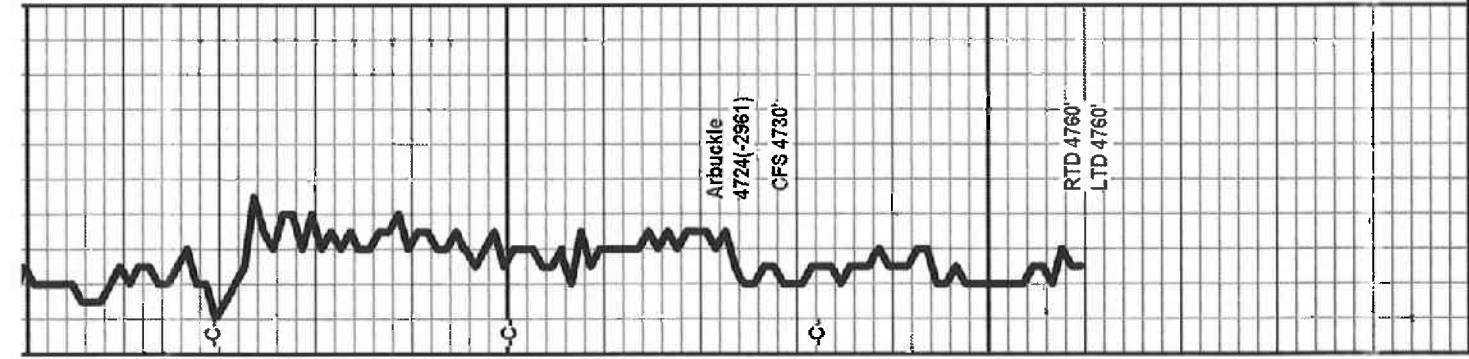
Sandstone, clear to grey-white, a/a

Sandstone, clear to grey, sa to sr, friable in part, no visible shows, no odor, no fluor.

Sandstone, grey, white, SA to SR, friable in part, some dolomitic, no visible shows, no odor, no kick.

a/a





some dolomitic, no visible shows, no odor, no kick.  
 a/a  
 Shale, green, dark green, firm.  
 Shale, dark green, firm, few sand clusters.  
 Dolomite, tan, granular, some crystalline, xln porosity, trace of tan chert, no visible shows, no odor, very sandy, some sand clusters.  
 Dolomite, a/a, traces of dark green shales, no visible shows.  
 Dolomite, tan, xln, dense, chalky in part, tan sharp chert, no visible shows.

