

Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1362169
OIL & GAS CONSERVATION DIVISION

Form ACO-1
November 2016

Form must be Typed
Form must be Signed
All blanks must be Filled

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

Gas DH EOR

OG GSW

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 EOR Conv. to SWD

Plug Back Liner Conv. to GSW Conv. to Producer

Commingled Permit #: _____

Dual Completion Permit #: _____

SWD Permit #: _____

EOR Permit #: _____

GSW Permit #: _____

Spud Date or Date Reached TD Completion Date or Recompletion Date

API No.: _____

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

GPS Location: Lat: _____, Long: _____
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum: NAD27 NAD83 WGS84

County: _____

Lease Name: _____ Well #: _____

Field Name: _____

Producing Formation: _____

Elevation: Ground: _____ Kelly Bushing: _____

Total Vertical 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

Confidentiality Requested

Date: _____

Confidential Release Date: _____

Wireline Log Received Drill Stem Tests Received

Geologist Report / Mud Logs Received

UIC Distribution

ALT I II III Approved by: _____ Date: _____

1362169

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

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

INSTRUCTIONS: Show important tops 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.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Geologist Report / Mud Logs	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

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
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

- Did you perform a hydraulic fracturing treatment on this well? Yes No *(If No, skip questions 2 and 3)*
- Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons? Yes No *(If No, skip question 3)*
- Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry? Yes No *(If No, fill out Page Three of the ACO-1)*

Date of first Production/Injection or Resumed Production/Injection:	Producing Method: <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other <i>(Explain)</i> _____				
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity

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>	PRODUCTION INTERVAL: Top _____ Bottom _____
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Shots Per Foot	Perforation Top	Perforation Bottom	Bridge Plug Type	Bridge Plug Set At	Acid, Fracture, Shot, Cementing Squeeze Record <i>(Amount and Kind of Material Used)</i>

TUBING RECORD:	Size:	Set At:	Packer At:
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Form	ACO1 - Well Completion
Operator	Lotus Operating Company, L.L.C.
Well Name	KADAU 1-14
Doc ID	1362169

All Electric Logs Run

Dual Induction
Neutron / Density
Micro
Sonic



PAGE 1 of 1	CUST NO 1002427	YARD # 1718	INVOICE DATE 05/03/2017
INVOICE NUMBER 92414470			

RECEIVED

Pratt (620) 672-1201
 B LOTUS OPERATING CO. LLC
 I 100 S MAIN ST STE 420
 L WICHITA
 L KS US 67202
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Kadau 1-14 MAY 6 2017
 O LOCATION
 B COUNTY Cowley
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41021149	19843		Net - 30 days	06/02/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 04/29/2017 to 04/29/2017</i>				
0041021149				
171814958A Cement-New Well Casing/Pi 04/29/2017				
Cement 8 5/8 Surface				
Common Cement	200.00	EA	6.56	1,312.00 T
Celloflake	50.00	EA	1.52	75.85 T
Calcium Chloride	564.00	EA	0.43	242.80 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	65.60	65.60
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	1.85	184.50
Heavy Equipment Mileage	200.00	MI	3.08	615.00
"Proppant & Bulk Del. Chgs., per ton mil	940.00	EA	1.03	963.50
Blending & Mixing Service Charge	200.00	BAG	0.57	114.80
Depth Charge; 0-500'	1.00	EA	410.00	410.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	71.95	71.95

GL# 9208
 DESC. 200 sq -
Cement + surface

WELL # Kadav

ENTERED
MAY 15 2017

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,056.00
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	110.07
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	4,166.07
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

14-335-SE

DMH-12

FIELD SERVICE TICKET
1718 14958 A

DATE _____ TICKET NO. _____

DATE OF JOB: 4/29/2017	DISTRICT: Prstd, 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: Lotus Operating Company LLC		LEASE: K929U		WELL NO: 1-14						
ADDRESS:		COUNTY: Cowley		STATE: KS						
CITY:		STATE:		SERVICE CREW: Derrin, M. McGraw, M. Clymer						
AUTHORIZED BY:		JOB TYPE: 242/8 5/8 Surface								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
19843	X		1/2				4/29			10:00
19918	X		1/2				4/29			3:00
							4/29	AM		3:45
							4/29	AM		4:15
							4/29	AM		4:45
						MILES FROM STATION TO WELL	136			

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: Shane Dow
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP100	Common Cement	SK	200		3,200 00	
CC109	Calcium Chloride	Lb	564		552 20	
CC102	Celloflake	Lb	30		185 00	
CF153	Wooden Cement Plug, 8 5/8	ES	1		160 00	
F100	Unit mileage charge - pickups, small use & access	Mi	100		450 00	
E101	Heavy Equipment Mileage	Mi	200		1,500 00	
E113	Proppant gas Bulk Delivery Charge, per ton/mi	Ton/mi	940		2,350 00	
CE200	Depth Charge 0-500'	4hrs	1		1,000 00	
CE240	Blending & mixing Service Charge	SK	200		280 00	
S003	Service Supervisor, first 8 hrs on loc.	ES	1		175 00	
					SUB TOTAL	9,892 20

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
Discount		TOTAL 4,056 00

SERVICE REPRESENTATIVE: Corin Fulton THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Shane Dow
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____



PAGE 1 of 1	CUST NO 1002427	YARD # 1718	INVOICE DATE 05/12/2017
INVOICE NUMBER 92421748			

RECEIVED
MAY 15 2017

Pratt (620) 672-1201
 B LOTUS OPERATING CO. LLC
 I 100 S MAIN ST STE 420
 L WICHITA
 L KS US 67202
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Kadau 1-14
 O LOCATION
 B COUNTY Cowley
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB # 41023608	EQUIPMENT # 19843	PURCHASE ORDER NO.	TERMS Net - 30 days	DUE DATE 06/11/2017
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	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 05/06/2017 to 05/06/2017</i>				
0041023608				
171815105A Cement-New Well Casing/Pi 05/06/2017				
Cement 5 1/2" Longstring				
AA2 Cement	160.00	EA	6.80	1,088.00 T
60/40 POZ	30.00	EA	4.80	144.00 T
Salt	853.00	EA	0.20	170.60 T
Celloflake	41.00	EA	1.48	60.68 T
Gilsonite	802.00	EA	0.27	214.94 T
FLA-322	76.00	EA	3.00	228.00 T
C-41P	38.00	EA	1.60	60.80 T
Mud Flush	500.00	EA	0.60	300.00 T
"Auto Fill' Float Shoe 5 1/2" (Blue)"	1.00	EA	144.00	144.00
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	160.00	160.00
"Turbolizer, 5 1/2" (Blue)"	5.00	EA	44.00	220.00
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	1.80	180.00
Heavy Equipment Mileage	200.00	MI	3.00	600.00
"Proppant & Bulk Del. Chgs., per ton mil	885.00	EA	1.00	885.00
Blending & Mixing Service Charge	190.00	BAG	0.56	106.40
Plug Container Util. Chg.	1.00	EA	100.00	100.00
Depth Charge; 3001-4000'	1.00	EA	864.00	864.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	70.00	70.00
GL#	9208			
DESC.	Cement			
	Production casing			
WELL #	Kadav			

ENTERED
MAY 23 2017

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5,596.42
BASIC ENERGY SERVICES,LP	BASIC ENERGY SERVICES,LP	TAX	153.02
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	5,749.44
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

TTM 47 FIELD SERVICE TICKET
1718 15105 A

DATE _____ TICKET NO. _____

DATE OF JOB: 5-6-17	DISTRICT: Pratt	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: LOTS OPERATING COMPANY LLC		LEASE: K9294		WELL NO.: 1-14					
ADDRESS:		COUNTY: Cowley		STATE: KS					
CITY:		STATE:		SERVICE CREW: Mattai, McGraw, White					
AUTHORIZED BY:		JOB TYPE: 2-42 5 1/2" long string							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19843	1					5	5-6-17	AM	4:00
						ARRIVED AT JOB		AM	8:20
19860	.5					START OPERATION	5-6-17	AM	3:57
						FINISH OPERATION		AM	4:45
						RELEASED		AM	5:50
						MILES FROM STATION TO WELL			100

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: X Robin Brown
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	FIA-2 CRT	SN	160		2,720.00
CP 103	60/40 P02	SK	30		360.00
CC 111	SALT	LB	853		426.50
CC 102	CellFlax	LB	41		151.70
CC 201	Gilsonite	LB	802		537.34
CC 129	FIA-322	LB	76		570.00
CC 105	C-41P	LB	38		152.00
CF 125	AUTO FILL FLOOR STOP	EA	1		360.00
CF 607	LATCH DOWN PLUG + BUFFLE	EA	1		400.00
CF 1651	TURBO-LER	EA	5		550.00
CC 151	MUD FLUSH	GAL	500		750.00
E 100	P.M. miles	MI	100		450.00
E 101	heavy eq. miles	MI	200		1,500.00
E 113	PROP + bulk del	YAM	2785		2212.50
CC 204	DEPTH CHARGE 3000-4000'	4hr	1		2,160.00
CC 240	Blend + mix	SN	190		266.00
S003	Supervisor	hr	1		175.00
C504	PLUG CONTAINER	JOB	1		250.00
SUB TOTAL					13,991.04

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		5783.62
TOTAL		5596.42

SERVICE REPRESENTATIVE: <u>Mike Mattai</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Robin Brown</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
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FIELD SERVICE ORDER NO. _____



PAGE 1 of 1	CUST NO 1002427	YARD # 1718	INVOICE DATE 05/03/2017
INVOICE NUMBER 92414470			

RECEIVED

Pratt (620) 672-1201
 B LOTUS OPERATING CO. LLC
 I 100 S MAIN ST STE 420
 L WICHITA
 L KS US 67202
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Kadau 1-14 MAY 6 2017
 O LOCATION
 B COUNTY Cowley
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41021149	19843		Net - 30 days	06/02/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 04/29/2017 to 04/29/2017</i>				
0041021149				
171814958A Cement-New Well Casing/Pi 04/29/2017				
Cement 8 5/8 Surface				
Common Cement	200.00	EA	6.56	1,312.00 T
Celloflake	50.00	EA	1.52	75.85 T
Calcium Chloride	564.00	EA	0.43	242.80 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	65.60	65.60
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	1.85	184.50
Heavy Equipment Mileage	200.00	MI	3.08	615.00
"Proppant & Bulk Del. Chgs., per ton mil	940.00	EA	1.03	963.50
Blending & Mixing Service Charge	200.00	BAG	0.57	114.80
Depth Charge; 0-500'	1.00	EA	410.00	410.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	71.95	71.95
<p>GL# <u>9208</u></p> <p>DESC. <u>200 sq -</u> <u>cement + surface</u></p> <p>WELL # <u>Kadav</u></p> <p style="text-align: center;">ENTERED MAY 15 2017</p>				

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,056.00
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	110.07
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	4,166.07
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

14-335-SE

DMH-12

FIELD SERVICE TICKET
1718 14958 A

DATE _____ TICKET NO. _____

DATE OF JOB: 4/29/2017	DISTRICT: Prstd, 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: Lotus Operating Company LLC		LEASE: K929U		WELL NO: 1-14						
ADDRESS:		COUNTY: Cowley		STATE: KS						
CITY:		STATE:		SERVICE CREW: Derrin, M. McGraw, M. Clymer						
AUTHORIZED BY:		JOB TYPE: 242/8 5/8 Surface								
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	PM	TIME
19843	X		1/2				4/29			10:00
19918	X		1/2				4/29			3:00
							4/29			3:45
							4/29			4:15
							4/29			4:45
						MILES FROM STATION TO WELL	136			

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

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SIGNED: *Shane Dow*
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP100	Common Cement	SK	200		3,200 00	
CC109	Calcium Chloride	Lb	564		552 20	
CC102	Celloflake	Lb	30		185 00	
CF153	Wooden Cement Plug, 8 5/8	ES	1		160 00	
E100	Unit mileage charge - pickups, small use & access	Mi	100		450 00	
E101	Heavy Equipment Mileage	Mi	200		1,500 00	
E113	Proppant gas Bulk Delivery Charge, per ton/mile	Ton/m	940		2,350 00	
CE200	Depth Charge 0-500'	4hrs	1		1,000 00	
CE240	Blending & mixing Service Charge	SK	200		280 00	
S003	Service Supervisor, first 8 hrs on loc.	ES	1		175 00	
					SUB TOTAL	9,892 20

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
Discount		TOTAL 4,056 00

SERVICE REPRESENTATIVE: *Corin Kuhn* THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: *Shane Dow*
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____



PAGE 1 of 1	CUST NO 1002427	YARD # 1718	INVOICE DATE 05/12/2017
INVOICE NUMBER 92421748			

RECEIVED
MAY 15 2017

Pratt (620) 672-1201
 B LOTUS OPERATING CO. LLC
 I 100 S MAIN ST STE 420
 L WICHITA
 L KS US 67202
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Kadau 1-14
 O LOCATION
 B COUNTY Cowley
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB # 41023608	EQUIPMENT # 19843	PURCHASE ORDER NO.	TERMS Net - 30 days	DUE DATE 06/11/2017
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	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 05/06/2017 to 05/06/2017</i>				
0041023608				
171815105A Cement-New Well Casing/Pi 05/06/2017 Cement 5 1/2" Longstring				
AA2 Cement	160.00	EA	6.80	1,088.00 T
60/40 POZ	30.00	EA	4.80	144.00 T
Salt	853.00	EA	0.20	170.60 T
Celloflake	41.00	EA	1.48	60.68 T
Gilsonite	802.00	EA	0.27	214.94 T
FLA-322	76.00	EA	3.00	228.00 T
C-41P	38.00	EA	1.60	60.80 T
Mud Flush	500.00	EA	0.60	300.00 T
"Auto Fill' Float Shoe 5 1/2" (Blue)"	1.00	EA	144.00	144.00
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	160.00	160.00
"Turbolizer, 5 1/2" (Blue)"	5.00	EA	44.00	220.00
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	1.80	180.00
Heavy Equipment Mileage	200.00	MI	3.00	600.00
"Proppant & Bulk Del. Chgs., per ton mil	885.00	EA	1.00	885.00
Blending & Mixing Service Charge	190.00	BAG	0.56	106.40
Plug Container Util. Chg.	1.00	EA	100.00	100.00
Depth Charge; 3001-4000'	1.00	EA	864.00	864.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	70.00	70.00
GL#	9208			
DESC.	Cement Production casing			
WELL #	Kadav			

ENTERED
MAY 23 2017

PLEASE REMIT TO: BASIC ENERGY SERVICES, LP PO BOX 841903 DALLAS, TX 75284-1903	SEND OTHER CORRESPONDENCE TO: BASIC ENERGY SERVICES, LP 801 CHERRY ST, STE 2100 FORT WORTH, TX 76102	SUB TOTAL TAX INVOICE TOTAL	5,596.42 153.02 5,749.44
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BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

TTM 47 FIELD SERVICE TICKET
1718 15105 A

DATE _____ TICKET NO. _____

DATE OF JOB 5-6-17 DISTRICT Pratt		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 LOTS OPERATING COMPANY LLC		LEASE K9d94 WELL NO. 1-14							
ADDRESS		COUNTY Cowley STATE KS							
CITY STATE		SERVICE CREW Mattai, McGraw, White							
AUTHORIZED BY		JOB TYPE: 2-42 5 1/2" long string							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19843	1					5	5-6-17	AM	4:00
						ARRIVED AT JOB		AM	8:20
19860	.5					START OPERATION	5-6-17	AM	3:57
						FINISH OPERATION		AM	4:45
						RELEASED		AM	5:50
						MILES FROM STATION TO WELL			100

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: X Robin Brown
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	FIA-2 cmt	SA	160		2,720.00
CP 103	60/40 P02	SK	30		360.00
CC 111	SALT	LB	853		426.50
CC 102	CellFlax	lb	41		151.70
CC 201	Gilsonite	lb	802		537.34
CC 129	FIA-322	lb	76		570.00
CC 105	C-41P	lb	38		152.00
CF 125	Auto fill Floor Stop	EA	1		360.00
CF 607	Latch down Plug + buffer	EA	1		400.00
CF 1651	Turboliner	EA	5		550.00
CC 151	mud flush	gal	500		750.00
E 100	P.M. miles	mi	100		450.00
E 101	heavy eq. miles	mi	200		1,500.00
E 113	PROP + bulk del	YAM	2785		2212.50
CC 204	DEPTH CHARGE 3000-4000'	4hr	1		2,160.00
CC 240	Blend + mix	SA	190		266.00
S003	supervisor	hr	1		175.00
C504	plug container	JOB	1		250.00
SUB TOTAL					13,991.04

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		5783.62
TOTAL		5596.42

SERVICE REPRESENTATIVE: <u>Mike Mattai</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Robin Brown</u> (WELL OWNER OPERATOR CONTRACTOR OR AGENT)
--	---

FIELD SERVICE ORDER NO. _____

Conservation Division
266 N. Main St., Ste. 220
Wichita, KS 67202-1513



Phone: 316-337-6200
Fax: 316-337-6211
<http://kcc.ks.gov/>

Pat Apple, Chairman
Shari Feist Albrecht, Commissioner
Jay Scott Emler, Commissioner

Sam Brownback, Governor

September 01, 2017

Tim Hellman
Lotus Operating Company, L.L.C.
100 S Main St, Ste 420
Wichita, KS 67202-3737

Re: ACO-1
API 15-035-24669-00-00
KADAU 1-14
SE/4 Sec.14-33S-05E
Cowley County, Kansas

Dear Tim Hellman:

K.A.R. 82-3-107 provides for all completion information to be filed within 120 days of the spud date. Subsection(e)(2) of that regulation states "All rights to confidentiality shall be lost if the filings are not timely."

The above referenced well was spudded on 4/28/2017 and the ACO-1 was received on September 01, 2017 (not within the 120 days timely requirement).

Therefore, your request for confidential treatment of data contained within the ACO-1 filing cannot be granted at this time.

If you should have any questions, please do not hesitate to contact me at (316)337-6200.

Sincerely,

Production Department



PAGE 1 of 1	CUST NO 1002427	YARD # 1718	INVOICE DATE 05/03/2017
INVOICE NUMBER 92414470			

RECEIVED

Pratt (620) 672-1201
 B LOTUS OPERATING CO. LLC
 I 100 S MAIN ST STE 420
 L WICHITA
 L KS US 67202
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Kadau 1-14 MAY 6 2017
 O LOCATION
 B COUNTY Cowley
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 E JOB CONTACT

JOB #	EQUIPMENT #	PURCHASE ORDER NO.	TERMS	DUE DATE
41021149	19843		Net - 30 days	06/02/2017

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 04/29/2017 to 04/29/2017</i>				
0041021149				
171814958A Cement-New Well Casing/Pi 04/29/2017				
Cement 8 5/8 Surface				
Common Cement	200.00	EA	6.56	1,312.00 T
Celloflake	50.00	EA	1.52	75.85 T
Calcium Chloride	564.00	EA	0.43	242.80 T
"Wooden Cmt Plug, 8 5/8""	1.00	EA	65.60	65.60
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	1.85	184.50
Heavy Equipment Mileage	200.00	MI	3.08	615.00
"Proppant & Bulk Del. Chgs., per ton mil	940.00	EA	1.03	963.50
Blending & Mixing Service Charge	200.00	BAG	0.57	114.80
Depth Charge; 0-500'	1.00	EA	410.00	410.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	71.95	71.95

GL# 9208
 DESC. 200 sq -
Cement + surface

WELL # Kadav
 ENTERED
 MAY 15 2017

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	4,056.00
BASIC ENERGY SERVICES, LP	BASIC ENERGY SERVICES, LP	TAX	110.07
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	4,166.07
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

14-335-SE

DMH-12

FIELD SERVICE TICKET
1718 14958 A

DATE _____ TICKET NO. _____

DATE OF JOB: 4/29/2017	DISTRICT: Prstd, 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: Lotus Operating Company LLC		LEASE: K929U		WELL NO: 1-14					
ADDRESS:		COUNTY: Cowley		STATE: KS					
CITY:		STATE:		SERVICE CREW: Derrin, M. McGraw, M. Clymer					
AUTHORIZED BY:		JOB TYPE: 242/8 5/8 Surface							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM/PM	TIME
19843	X 1/2						4/29	AM	10:00
19918	X 1/2						4/29	AM	3:00
							4/29	AM	3:45
							4/29	AM	4:15
							4/29	AM	4:45
						MILES FROM STATION TO WELL	136		

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: Shane Dow
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT	
CP100	Common Cement	SK	200		3,200 00	
CC109	Calcium Chloride	Lb	564		552 20	
CC102	Celloflake	Lb	30		185 00	
CF153	Wooden Cement Plug, 8 5/8	ES	1		160 00	
F100	Unit mileage charge - pickups, small use & access	Mi	100		450 00	
E101	Heavy Equipment Mileage	Mi	200		1,500 00	
E113	Proppant gas Bulk Delivery Charge, per ton/mile	Ton/m	940		2,350 00	
CE200	Depth Charge 0-500'	4hrs	1		1,000 00	
CE240	Blending & mixing Service Charge	SK	200		280 00	
S003	Service Supervisor, first 8 hrs on loc.	ES	1		175 00	
					SUB TOTAL	9,892 20

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
Discount		TOTAL 4,056 00

SERVICE REPRESENTATIVE: Corin Fulton THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: Shane Dow
(WELL OWNER OPERATOR CONTRACTOR OR AGENT)

FIELD SERVICE ORDER NO. _____



ASIC Energy services, L.P.

TREATMENT REPORT

Customer OTUS Operating Company LLC	Lease No.	Date 4/29/2017
Lease # K9890	Well # 1-14	
Field Order # 14958	Station	Casing 8 5/8 Depth
Type Job 242/8 5/8 surface	Formation	County Cowley State KS
		Legal Description 14-33S-5E

PIPE DATA		PERFORATING DATA		FLUID USED	TREATMENT RESUME		
Casing 8 5/8	Tubing Size	Shots/Ft		Acid	RATE	PRESS	ISIP
Depth	Depth	From	To	Pre Pad	Max		5 Min.
Volume	Volume	From	To	Pad	Min		10 Min.
Max Press	Max Press	From	To	Frac	Avg		15 Min.
Well Connection	Annulus Vol.	From	To		HHP Used		Annulus Pressure
Plug Depth	Packer Depth	From	To	Flush Freshwater	Gas Volume		Total Load

Customer Representative **Shane Downs** Station Manager **Justin Westerman** Treater **Darin Franklin**

Service Units	92911	84981	19843	19889	19918				
Driver Names	Darin	Clymer	Clymer	McGraw	McGraw				

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
3:00pm					On location / Safety meeting
					8 5/8 casing set &
					200 SK Common Cement, 3%acc, 1/4# Cellulose
					15.6 ppg, 1.21 vels, 5.23 wgr
					Pipe on bottom & Break circulation
3:45pm	100		3	4	Pump 3 bbls water
	100		43	4	mix 200 SK common
					Shut down,
					Wash pump Release Plug
	100		2	3	Displace
4:15pm					Shut in
					Cement did circulation - 10bbls
					Job complete / Darin & crew
					Thank you!!!



PAGE 1 of 1	CUST NO 1002427	YARD # 1718	INVOICE DATE 05/12/2017
INVOICE NUMBER 92421748			

RECEIVED
MAY 15 2017

Pratt (620) 672-1201
 B LOTUS OPERATING CO. LLC
 I 100 S MAIN ST STE 420
 L WICHITA
 L KS US 67202
 T
 O ATTN: ACCOUNTS PAYABLE

J LEASE NAME Kadau 1-14
 O LOCATION
 B COUNTY Cowley
 S STATE KS
 I JOB DESCRIPTION Cement-New Well Casing/Pi
 T JOB CONTACT
 E

JOB # 41023608	EQUIPMENT # 19843	PURCHASE ORDER NO.	TERMS Net - 30 days	DUE DATE 06/11/2017
-------------------	----------------------	--------------------	------------------------	------------------------

	QTY	U of M	UNIT PRICE	INVOICE AMOUNT
<i>For Service Dates: 05/06/2017 to 05/06/2017</i>				
0041023608				
171815105A Cement-New Well Casing/Pi 05/06/2017				
Cement 5 1/2" Longstring				
AA2 Cement	160.00	EA	6.80	1,088.00 T
60/40 POZ	30.00	EA	4.80	144.00 T
Salt	853.00	EA	0.20	170.60 T
Celloflake	41.00	EA	1.48	60.68 T
Gilsonite	802.00	EA	0.27	214.94 T
FLA-322	76.00	EA	3.00	228.00 T
C-41P	38.00	EA	1.60	60.80 T
Mud Flush	500.00	EA	0.60	300.00 T
"Auto Fill' Float Shoe 5 1/2" (Blue)"	1.00	EA	144.00	144.00
"Latch Down Plug & Baffle, 5 1/2" (Blu	1.00	EA	160.00	160.00
"Turbolizer, 5 1/2" (Blue)"	5.00	EA	44.00	220.00
"Unit Mileage Chg (PU, cars one way)"	100.00	MI	1.80	180.00
Heavy Equipment Mileage	200.00	MI	3.00	600.00
"Proppant & Bulk Del. Chgs., per ton mil	885.00	EA	1.00	885.00
Blending & Mixing Service Charge	190.00	BAG	0.56	106.40
Plug Container Util. Chg.	1.00	EA	100.00	100.00
Depth Charge; 3001-4000'	1.00	EA	864.00	864.00
"Service Supervisor, first 8 hrs on loc.	1.00	EA	70.00	70.00
GL#	9208			
DESC.	Cement			
	Production casing			
WELL #	Kadav			

ENTERED
MAY 23 2017

PLEASE REMIT TO:	SEND OTHER CORRESPONDENCE TO:	SUB TOTAL	5,596.42
BASIC ENERGY SERVICES,LP	BASIC ENERGY SERVICES,LP	TAX	153.02
PO BOX 841903	801 CHERRY ST, STE 2100	INVOICE TOTAL	5,749.44
DALLAS, TX 75284-1903	FORT WORTH, TX 76102		



BASICSM
ENERGY SERVICES
PRESSURE PUMPING & WIRELINE

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

TTM 47 FIELD SERVICE TICKET
1718 15105 A

DATE _____ TICKET NO. _____

DATE OF JOB 5-6-17 DISTRICT Pratt		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 LOTS OPERATING COMPANY LLC		LEASE K9d94 WELL NO. 1-14							
ADDRESS		COUNTY Cowley STATE KS							
CITY STATE		SERVICE CREW Mattai, McGraw, White							
AUTHORIZED BY		JOB TYPE: 2-42 5 1/2" long string							
EQUIPMENT#	HRS	EQUIPMENT#	HRS	EQUIPMENT#	HRS	TRUCK CALLED	DATE	AM	TIME
19843	1					15	5-6-17	AM	4:00
								AM	8:20
19860	.5						5-6-17	AM	3:57
								AM	4:45
								AM	5:50
						MILES FROM STATION TO WELL 100			

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: X Robin Brown
(WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

ITEM/PRICE REF. NO.	MATERIAL, EQUIPMENT AND SERVICES USED	UNIT	QUANTITY	UNIT PRICE	\$ AMOUNT
CP 105	FIA-2 CRT	SA	160		2,720.00
CP 103	60/40 P02	SK	30		360.00
CC 111	SALT	LB	853		426.50
CC 102	CellFlax	lb	41		151.70
CC 201	gilsonite	lb	802		537.34
CC 129	FIA-322	lb	76		570.00
CC 105	C-41P	lb	38		152.00
CF 125	Auto fill Floor Stop	EA	1		360.00
CF 607	latch down plug + buffer	EA	1		400.00
CF 1651	TURBOLIZER	EA	5		550.00
CC 151	MUD FLUSH	gal	500		750.00
E 100	P.M. miles	mi	100		450.00
E 101	heavy eq. miles	mi	200		1,500.00
E 113	PROP + bulk del	YAM	2785		2212.50
CC 204	DEPTH CHARGE 3000-4000'	4hr	1		2,160.00
CC 240	Blend + mix	SA	190		266.00
S003	supervisor	hr	1		175.00
C504	plug container	JOB	1		250.00
SUB TOTAL					13,991.04

CHEMICAL / ACID DATA:			

SERVICE & EQUIPMENT	%TAX ON \$	
MATERIALS	%TAX ON \$	
TOTAL		5783.62
TOTAL		5596.42

SERVICE REPRESENTATIVE: <u>Mike Mattai</u>	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: <u>Robin Brown</u>
--	--

FIELD SERVICE ORDER NO. _____

(WELL OWNER OPERATOR CONTRACTOR OR AGENT)



ASIC Energy services, L.P.

TREATMENT REPORT

Customer Lotus Operating Company LLC	Lease No. 111	Date 5-6-17
Lease Kadav	Well # 1-14	
Field Order # 15105	Station Pratt	Casing 5 1/2
		Depth RTD 3940
Type Job Z-42 5 1/2" long string	Formation LTO 3941 Shoe 36,82	County Cowley
		State KS
		Legal Description 14-33S-05E

PIPE DATA		PERFORATING DATA		FLUID USED		TREATMENT RESUME		
Casing Size 5 1/2	Tubing Size	Shots/Ft		Acid CMT	160 Sds AA-2	RATE	PRESS	ISIP
Depth 3930	Depth 306	From	To	Pre Pad	50 SN 60% POZ			5 Min.
Volume 79.7	Volume	From	To	Pad		Min		10 Min.
Max Press 1,500	Max Press	From	To	Frac		Avg		15 Min.
Well Connection P.C.	Annulus Vol.	From	To			HHP Used		Annulus Pressure
Plug Depth 3393.24	Packer Depth	From	To	Flush	78.8	Gas Volume		Total Load

Customer Representative Robin Brown	Station Manager J. Westerman	Treater Mike Murray
--	---------------------------------	------------------------

Service Units 83353	84981	19843	84980	19860
Driver James MATTM	McGraw			

Time	Casing Pressure	Tubing Pressure	Bbls. Pumped	Rate	Service Log
8:20					ON LOCATION / Safety meeting
1:40					run 5 1/2" 17# csng, 36.82" shoe
					tubos on 5, 10, 15, 20, 25
3:25					CSng on bottom
3:30					hook to CSng / Break circ. w. Rig
3:57	300		3	5	Pump 3 bbl water
3:58	300		12	5	Pump 500 gal. mud flush
4:01	300		5	5	Pump 5 bbl water
4:02	300		40	5.5	Mix 160 Sds AA-2 CMT @ 14.8 PPG
4:11			3	4	WASH Pump + Line / release plug
4:14	100			5.5	START displacement
4:23	175		52	5.5	LIFT Pressure
4:27	400			3	Slow rate
4:29	1,500		78.9	-	Plug down, released + held
4:35			7.8		Plug FAT 3000 holes
					circulation thru JUB
					JOB COMPLETE
					THANK YOU!
					Mike Murray
					Mike + Brian

Scale: 5" / 100'
Measured Depth Log

Well Name 1-14 Kadau Lotus Operating

State Kansas

County Cowley

Country USA

Rig Number Duke 8

API Number 15-035-24669

Drilling Completed 5/4/2017

Geographic Region Mid Cont

Spud Date 4/28/2017

Surface Coordinates Sec 14 Twp 33s Range 5e

Ground Elevation 1,163'

K.B. Elevation 1,171'

Logged Interval 330' To 3,446'

Total Depth 3,446'

Formation Mississippi Lime

Type of Drilling Fluid Water Base

Operator

Company Lotus Operating

Address 100 S. Main, Ste 420
Wichita, Ks 67202

Geologist

Name Tim Hellman

Company Lotus Operating

Address 100 S. Main, Ste 420
Wichita, Ks 67202

Zone Color Coding

 Oil	 Condensate	 Gas
 Note	 Core	 Pressure
 Error	 Water	 Seal

Other

Loggers: Chad Timkin and Amy Thrailkill

Services Provided: 2-Man 24-Hour Mudlogging

Equipment: ML-594

Start Date: 4/29/2017

Release Date: 5/04/2017

Contractor: ALS Oil & Gas
6510 Guhn Road
Houston, Texas 77010

Rock Types

<ul style="list-style-type: none"> UNKNOWN ANHYDRITE GYPSUM SALT SIDERITE or LIMONITE LIMESTONE 	<ul style="list-style-type: none"> DOLOMITE CHERT COAL MARLSTONE CHALK SHALE 	<ul style="list-style-type: none"> SHALE GRAY SHALE COLORED SILTSTONE SANDSTONE CONGLOMERATE BRECCIA 	<ul style="list-style-type: none"> TILL BENTONITE TUFF IGNEOUS METAMORPHIC CEMENT
---	--	--	---

Accessories

Fossils

- ALGAE
- AMPHIPORA
- BELEMNITE
- BIOCLASTIC
- BRACHIOPOD
- BRYOZOA
- CEPHALOPOD
- CORAL
- CRINOID
- ECHINOID
- FISH
- FORAMINIFERA

F FOSSIL

- GASTROPOD
- OOLITE
- OSTRACOD
- PELECYPOD
- PELLET
- PISOLITE
- PLANT REMAINS
- PLANT SPORES
- SCAPHOPOD
- STROMATOPOROID

Minerals

- ANHYDRITIC

ARGILLACEOUS

- ARGILLITE GRAIN
- BENTONITE
- BITUMENOUS SUBSTANCE
- BRECCIA FRAGMENTS
- CALCAREOUS
- CARBONACEOUS FLAKES
- CHTDK
- CHTLT
- COAL - THIN BEDS
- DOLOMITIC
- FELDSPAR
- FERRUGINOUS PELLET
- FERRUGINOUS

GLAUCONITE

- GYPSIFEROUS
- HEAVY MINERAL
- KAOLIN
- MARLSTONE
- MINERAL CRYSTALS
- NODULES
- PHOSPHATE PELLETS
- PYRITE
- SALT CAST
- SANDY
- SILICEOUS
- SILTY
- TUFFACEOUS

Stringer

- ANHYDRITE STRINGER
- BENTONITE STRINGER
- COAL STRINGER
- DOLOMITE STRINGER
- GYPSUM STRINGER
- LIMESTONE STRINGER
- MARLSTONE (CALC) STRG
- MARLSTONE (DOL) STRG
- SANDSTONE STRINGER
- SHALE STRINGER
- SILTSTONE STRINGER

Other Symbols

Oil Show

- DEAD
- EVEN
- QUESTIONABLE
- SPOTTED STAINING

Porosity

- E EARTHY
- F FENESTRAL
- F FRACTURE
- X INTERCRYSTALLINE
- O INTEROOLITIC
- M MOLDIC

ORGANIC

- P PINPOINT
- V VUGGY

Engineering

- BIT
- CASING
- CONNECTION (LEFT)
- CONNECTION (RIGHT)
- CONNECTION GAS
- CORE - LOST
- CORE - RECOVERED
- DST INTERVAL
- FAULT

FORMATION TOP

- GAS SHOW
- MN DEPTH
- NORMAL FAULT
- OIL SHOW
- OVERTURNED STRATA
- REVERSE FAULT
- SIDEWALL CORE (LEFT)
- SIDEWALL CORE (RIGHT)
- SLIDE
- SURVEY
- TRIP GAS
- WIRELINE TESTED - LEFT
- WIRELINE TESTED - RT

Rounding

- A ANGULAR
- R ROUNDED
- B SUBANG
- R SUBRND

Textures

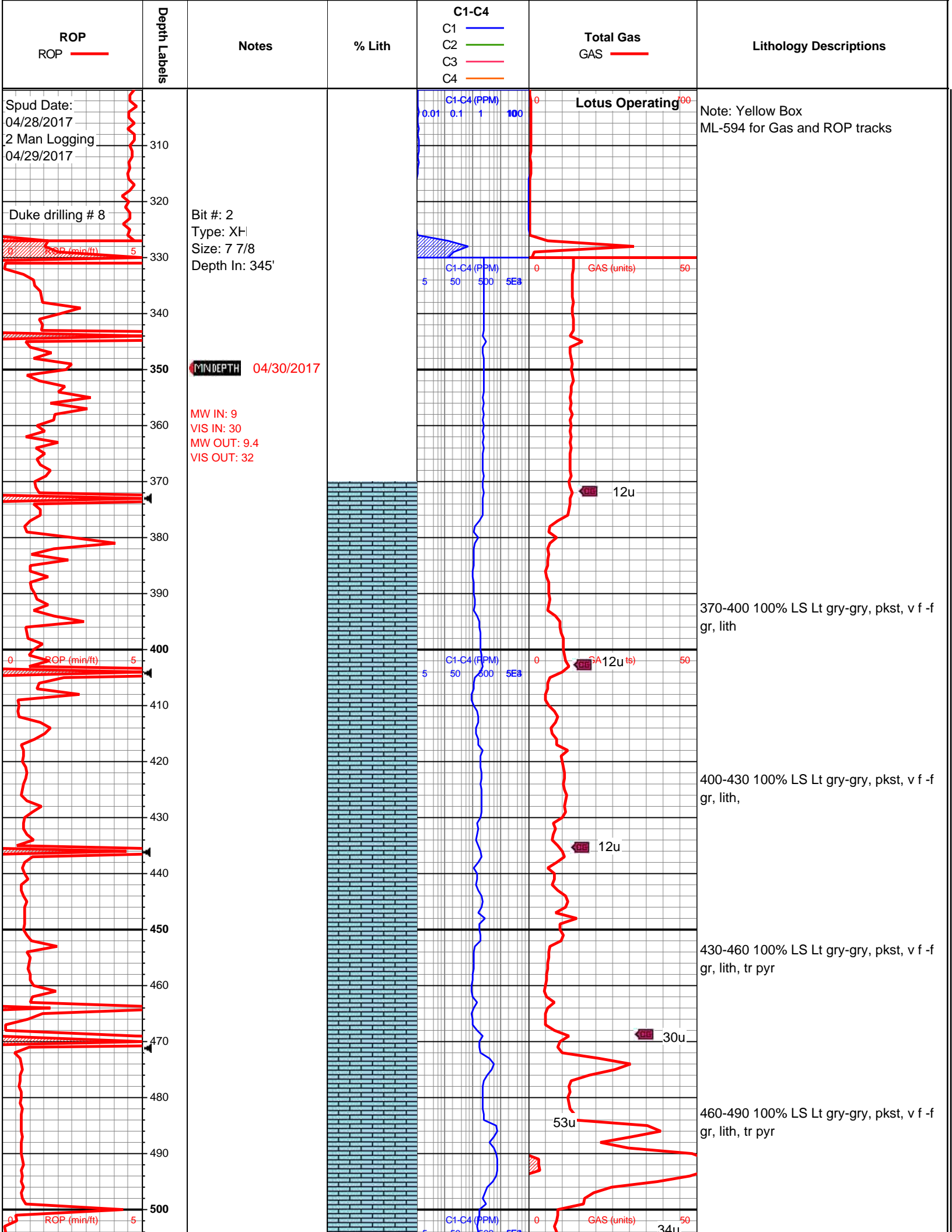
- BS BOUNDSTONE
- C CHALKY
- CX CRYPTOXLN
- E EARTHY
- FX FINELYXLN
- GS GRAINSTONE

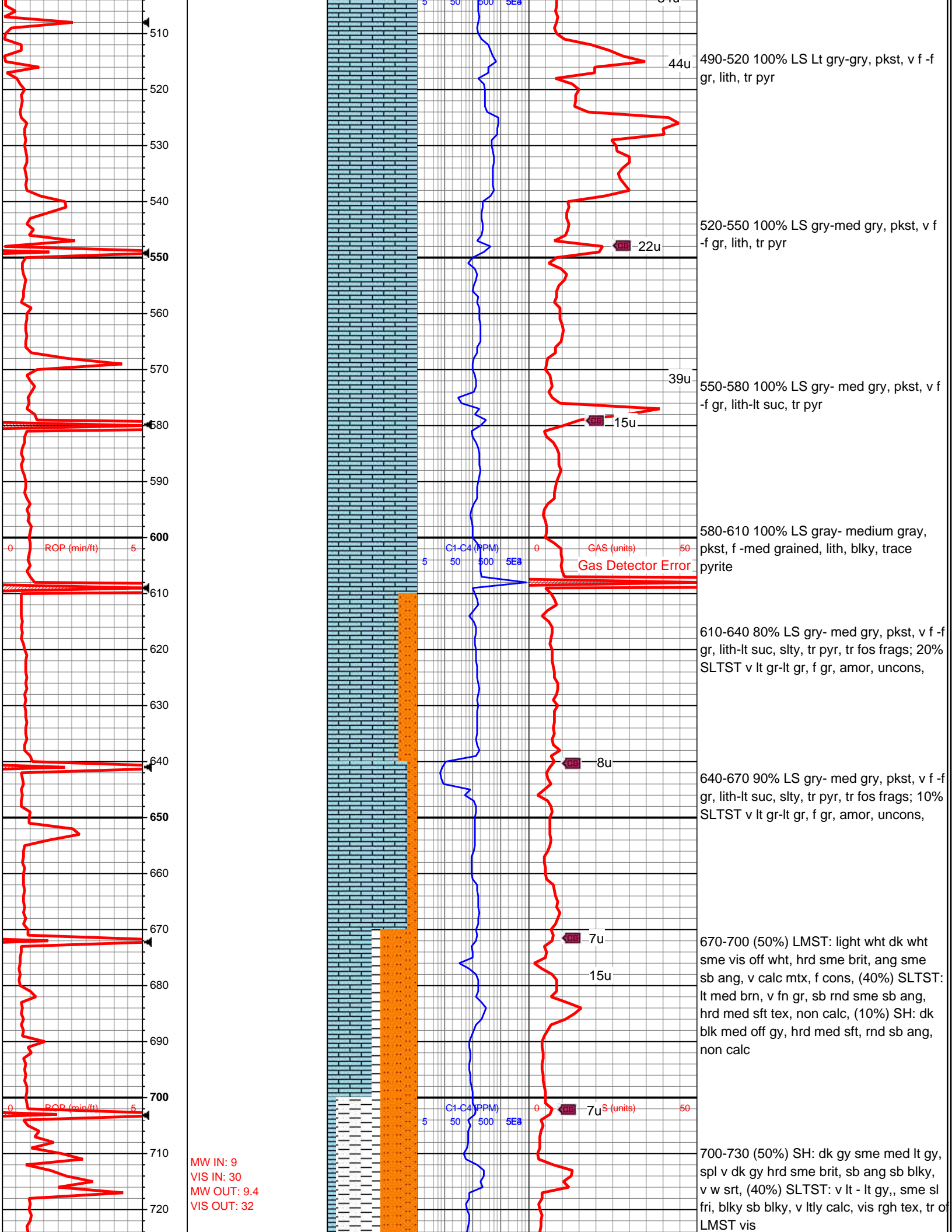
L LITHOGRAPHIC

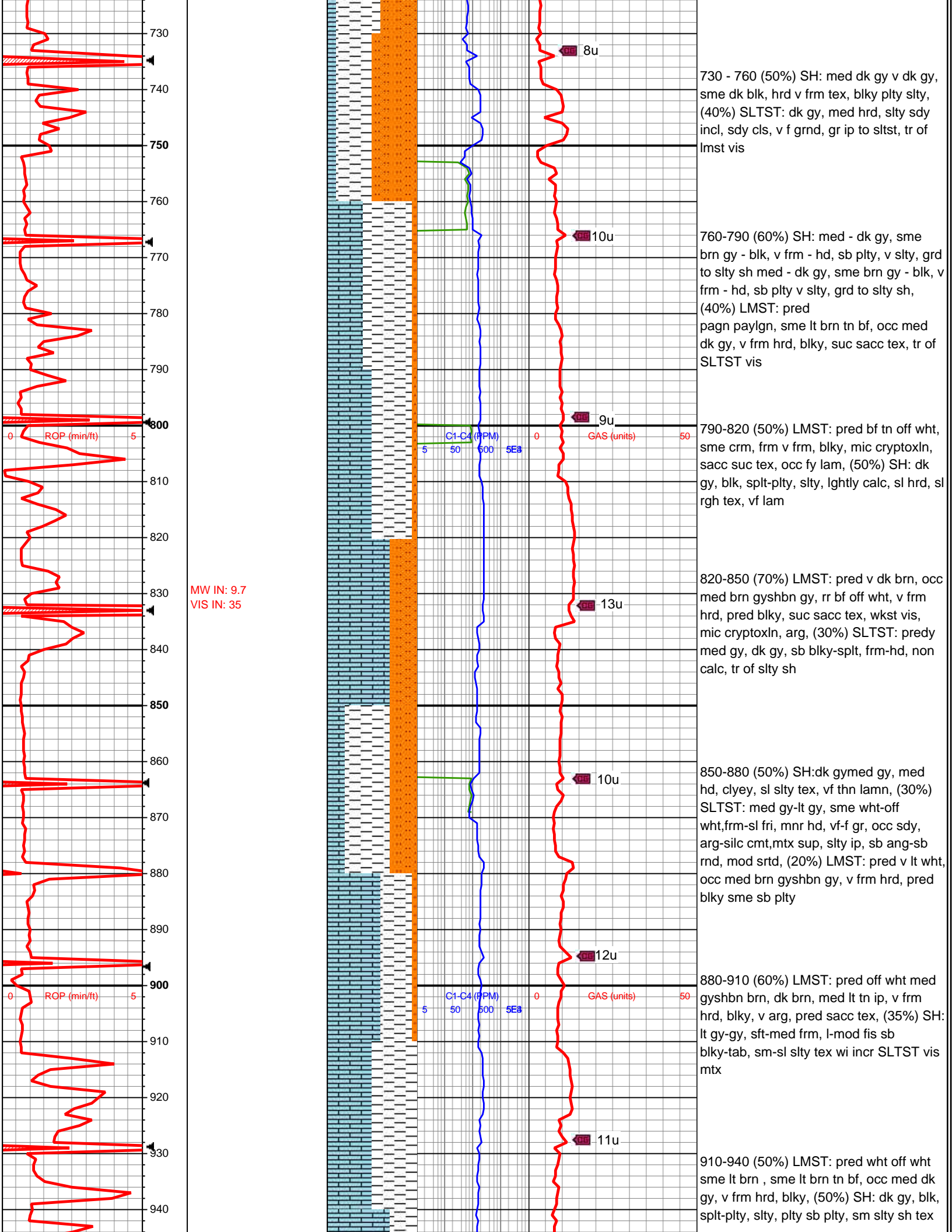
- MX MICROXLN
- MS MUDSTONE
- PS PACKSTONE
- WS WACKESTONE

Sorting

- M MODERATE
- P POOR
- W WELL







MW IN: 9.7
VIS IN: 35

730 - 760 (50%) SH: med dk gy v dk gy, sme dk blk, hrd v frm tex, blkly plty slty, (40%) SLTST: dk gy, med hrd, slty sdy incl, sdy cls, v f grnd, gr ip to sltst, tr of lmst vis

760-790 (60%) SH: med - dk gy, sme brn gy - blk, v frm - hd, sb plty, v slty, grd to slty sh med - dk gy, sme brn gy - blk, v frm - hd, sb plty v slty, grd to slty sh, (40%) LMST: pred pagn paylgn, sme lt brn tn bf, occ med dk gy, v frm hrd, blkly, suc sacc tex, tr of SLTST vis

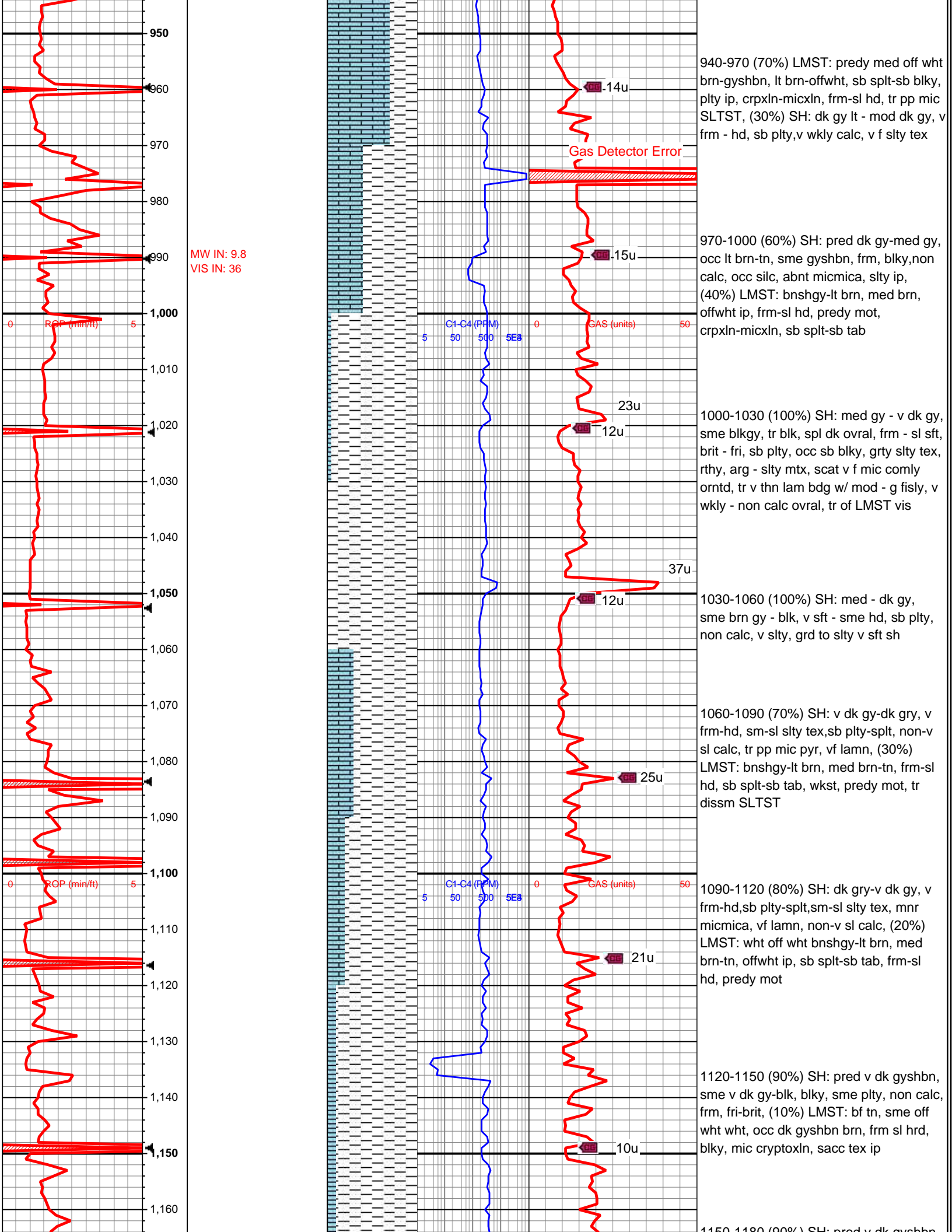
790-820 (50%) LMST: pred bf tn off wht, sme crm, frm v frm, blkly, mic cryptoxln, sacc suc tex, occ fy lam, (50%) SH: dk gy, blk, splty-plty, slty, lghtly calc, sl hrd, sl rgh tex, vf lam

820-850 (70%) LMST: pred v dk brn, occ med brn gyshbn gy, rr bf off wht, v frm hrd, pred blkly, suc sacc tex, wkst vis, mic cryptoxln, arg, (30%) SLTST: predy med gy, dk gy, sb blkly-splty, frm-hd, non calc, tr of slty sh

850-880 (50%) SH: dk gymed gy, med hd, cleye, sl slty tex, vf thn lamn, (30%) SLTST: med gy-lt gy, sme wht-off wht, frm-sl fri, mnr hd, vf-f gr, occ sdy, arg-silc cmt, mtx sup, slty ip, sb ang-sb rnd, mod srted, (20%) LMST: pred v lt wht, occ med brn gyshbn gy, v frm hrd, pred blkly sme sb plty

880-910 (60%) LMST: pred off wht med gyshbn brn, dk brn, med lt tn ip, v frm hrd, blkly, v arg, pred sacc tex, (35%) SH: lt gy-gy, sft-med frm, l-mod fis sb blkly-tab, sm-sl slty tex wi incr SLTST vis mtz

910-940 (50%) LMST: pred wht off wht sme lt brn, sme lt brn tn bf, occ med dk gy, v frm hrd, blkly, (50%) SH: dk gy, blk, splty-plty, slty, plty sb plty, sm slty sh tex



MW IN: 9.8
VIS IN: 36

940-970 (70%) LMST: predy med off wht brn-gyshbn, lt brn-offwht, sb splt-sb blkly, plty ip, crpxln-micxln, frm-sl hd, tr pp mic SLTST, (30%) SH: dk gy lt - mod dk gy, v frm - hd, sb plty, v wkly calc, v f slty tex

970-1000 (60%) SH: pred dk gy-med gy, occ lt brn-tn, sme gyshbn, frm, blkly, non calc, occ silc, abnt micmica, slty ip, (40%) LMST: bnshgy-lt brn, med brn, offwht ip, frm-sl hd, predy mot, crpxln-micxln, sb splt-sb tab

1000-1030 (100%) SH: med gy - v dk gy, sme blkgy, tr blk, spl dk ovral, frm - sl sft, brit - fri, sb plty, occ sb blkly, grty slty tex, rthy, arg - slty mtx, scat v f mic comly orntd, tr v thn lam bdg w/ mod - g fisly, v wkly - non calc ovral, tr of LMST vis

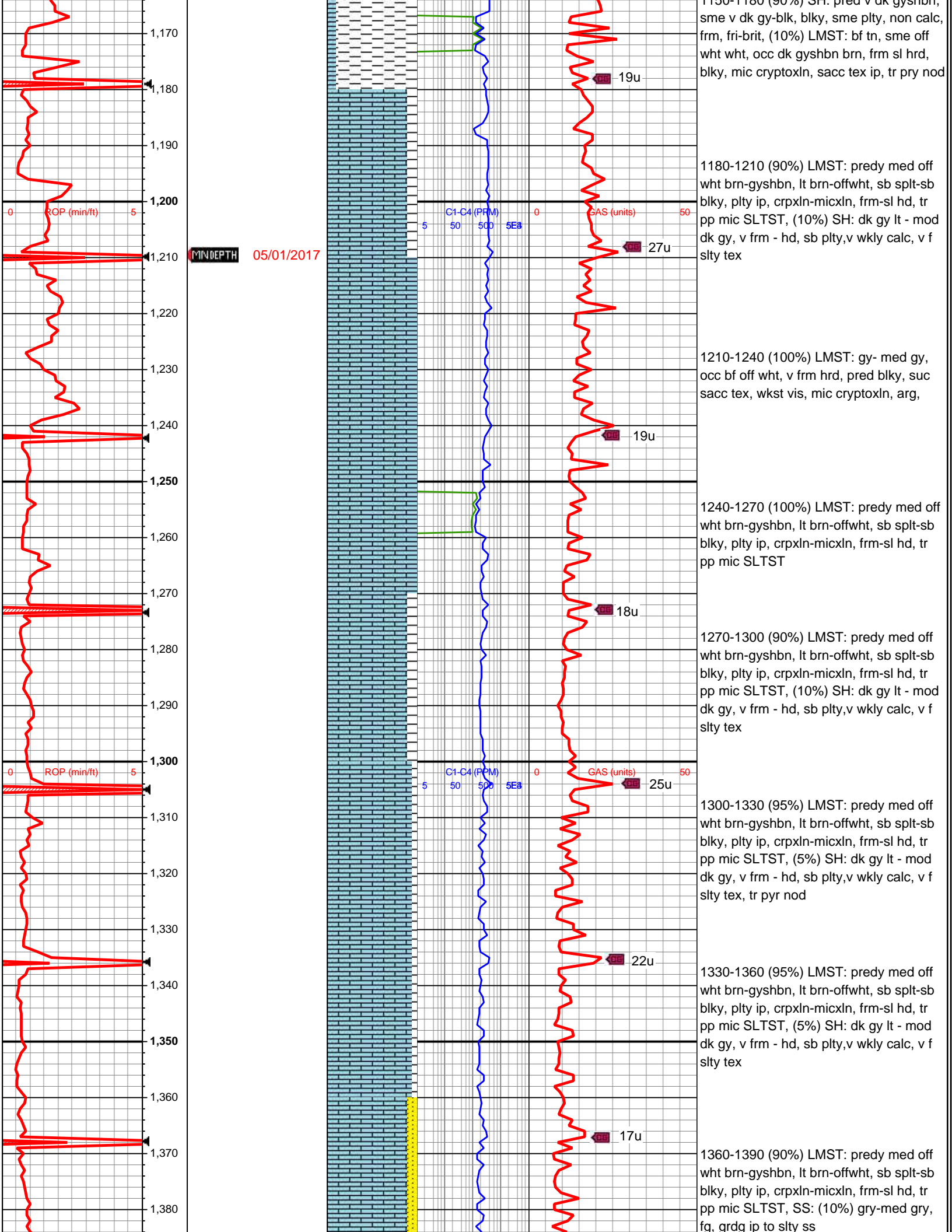
1030-1060 (100%) SH: med - dk gy, sme brn gy - blk, v sft - sme hd, sb plty, non calc, v slty, grd to slty v sft sh

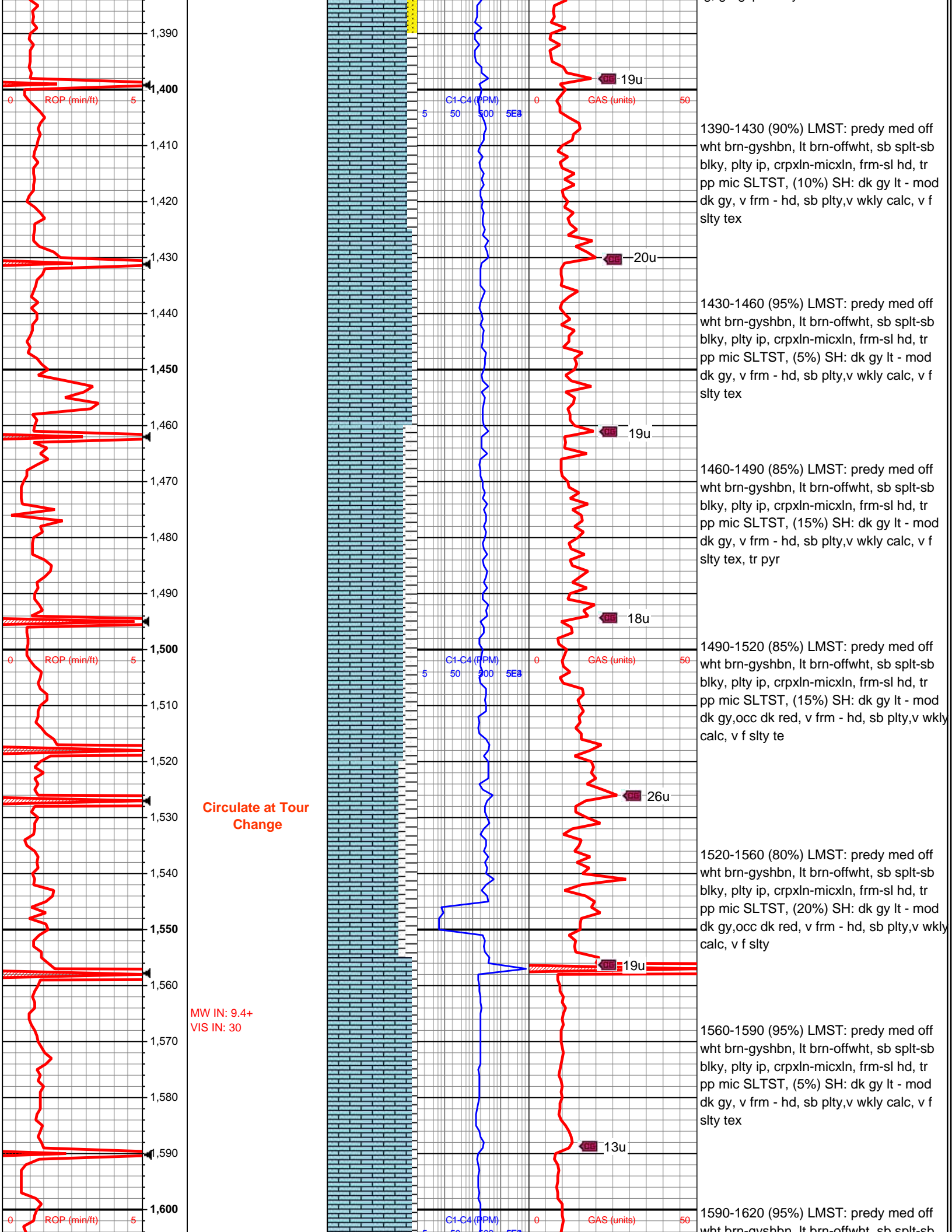
1060-1090 (70%) SH: v dk gy-dk gry, v frm-hd, sm-sl slty tex, sb plty-splt, non-v sl calc, tr pp mic pyr, vf lamn, (30%) LMST: bnshgy-lt brn, med brn-tn, frm-sl hd, sb splt-sb tab, wkst, predy mot, tr dissm SLTST

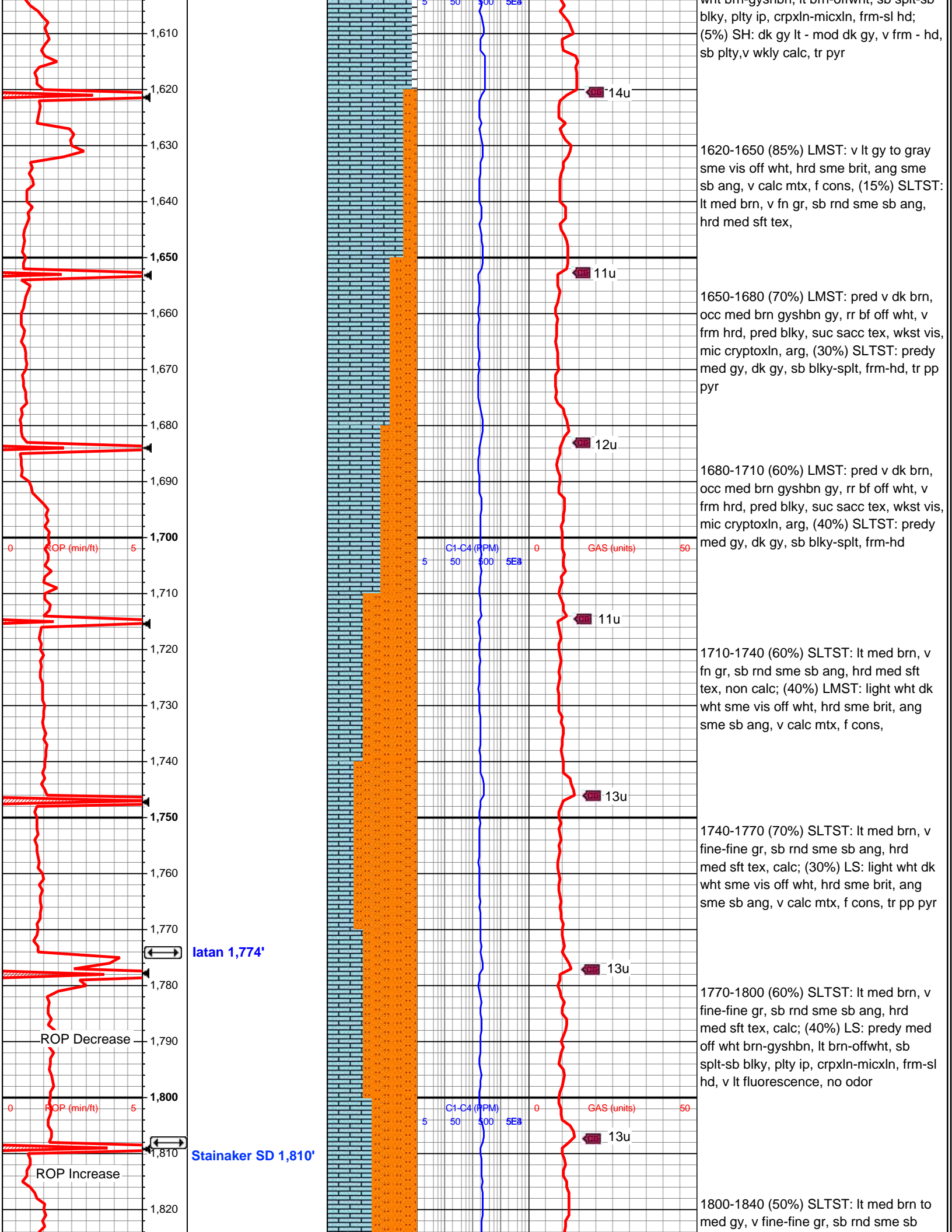
1090-1120 (80%) SH: dk gry-v dk gy, v frm-hd, sb plty-splt, sm-sl slty tex, mnr micmica, vf lamn, non-v sl calc, (20%) LMST: wht off wht bnshgy-lt brn, med brn-tn, offwht ip, sb splt-sb tab, frm-sl hd, predy mot

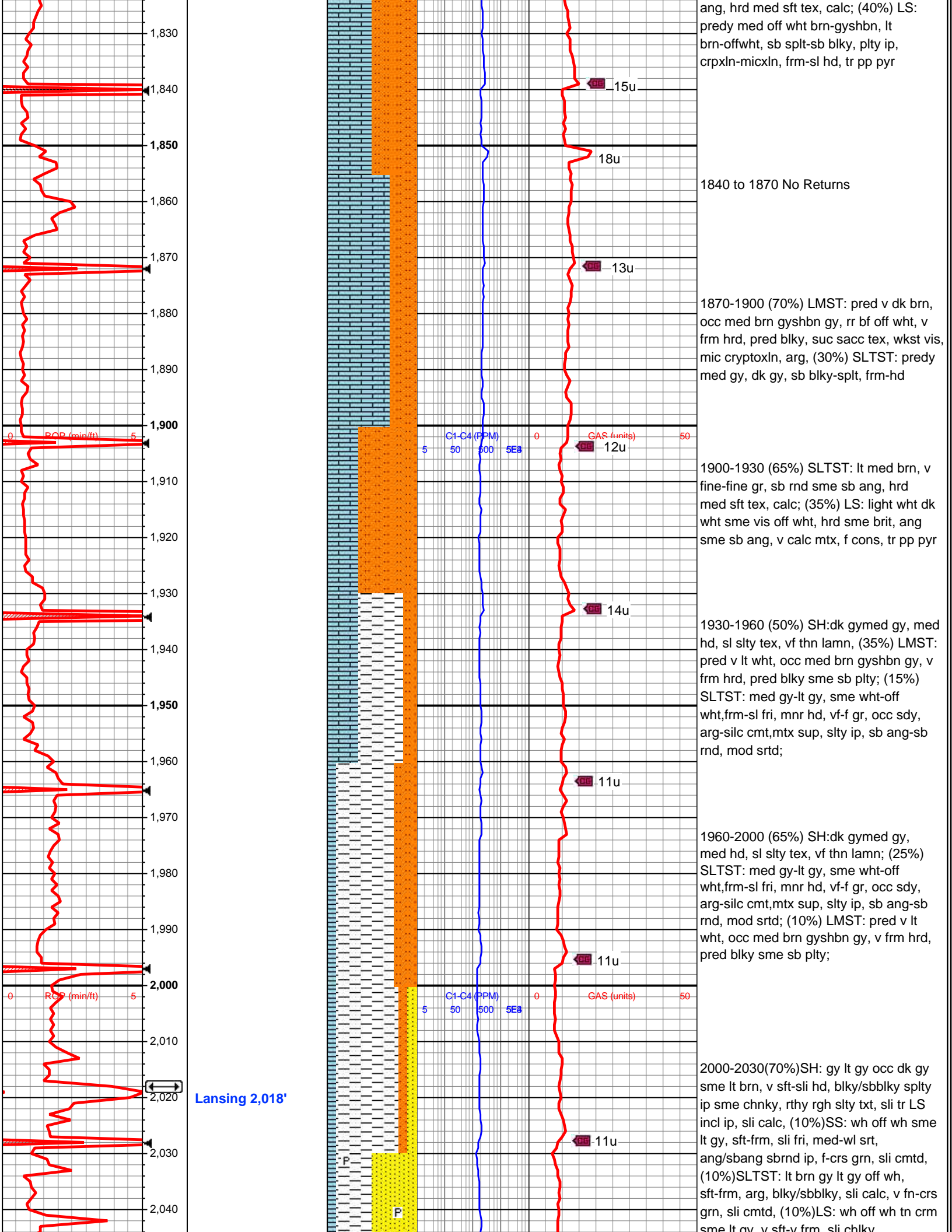
1120-1150 (90%) SH: pred v dk gyshbn, sme v dk gy-blk, blkly, sme plty, non calc, frm, fri-brit, (10%) LMST: bf tn, sme off wht wht, occ dk gyshbn brn, frm sl hrd, blkly, mic cryptoxln, sacc tex ip

1150-1180 (90%) SH: pred v dk gyshbn









ang, hrd med sft tex, calc; (40%) LS: predy med off wht brn-gyshbn, lt brn-offwht, sb splt-sb blk, plty ip, crpxln-micxln, frm-sl hd, tr pp pyr

15u

18u

1840 to 1870 No Returns

13u

1870-1900 (70%) LMST: pred v dk brn, occ med brn gyshbn gy, rr bf off wht, v frm hrd, pred blk, suc sacc tex, wkst vis, mic cryptoxln, arg, (30%) SLTST: predy med gy, dk gy, sb blk-splt, frm-hd

ROP (min/ft)

C1-C4 (PPM)

12u

GAS (units)

1900-1930 (65%) SLTST: lt med brn, v fine-fine gr, sb rnd sme sb ang, hrd med sft tex, calc; (35%) LS: light wht dk wht sme vis off wht, hrd sme brit, ang sme sb ang, v calc mtx, f cons, tr pp pyr

14u

1930-1960 (50%) SH:dk gymed gy, med hd, sl slty tex, vf thn lamn, (35%) LMST: pred v lt wht, occ med brn gyshbn gy, v frm hrd, pred blk sme sb plty; (15%) SLTST: med gy-lt gy, sme wht-off wht,frm-sl fri, mnrd, vf-f gr, occ sdy, arg-silc cmt,mtx sup, slty ip, sb ang-sb rnd, mod srted;

11u

1960-2000 (65%) SH:dk gymed gy, med hd, sl slty tex, vf thn lamn; (25%) SLTST: med gy-lt gy, sme wht-off wht,frm-sl fri, mnrd, vf-f gr, occ sdy, arg-silc cmt,mtx sup, slty ip, sb ang-sb rnd, mod srted; (10%) LMST: pred v lt wht, occ med brn gyshbn gy, v frm hrd, pred blk sme sb plty;

ROP (min/ft)

C1-C4 (PPM)

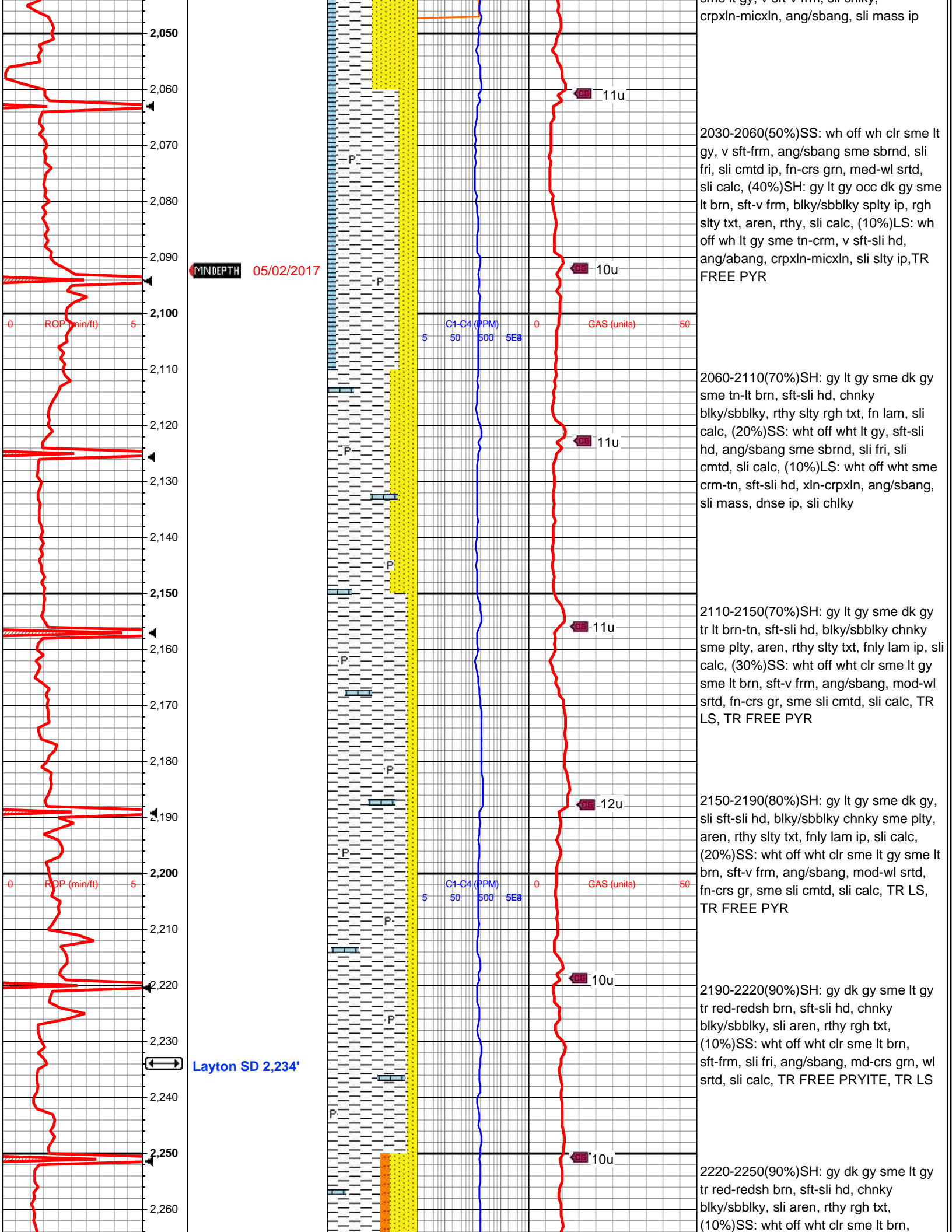
11u

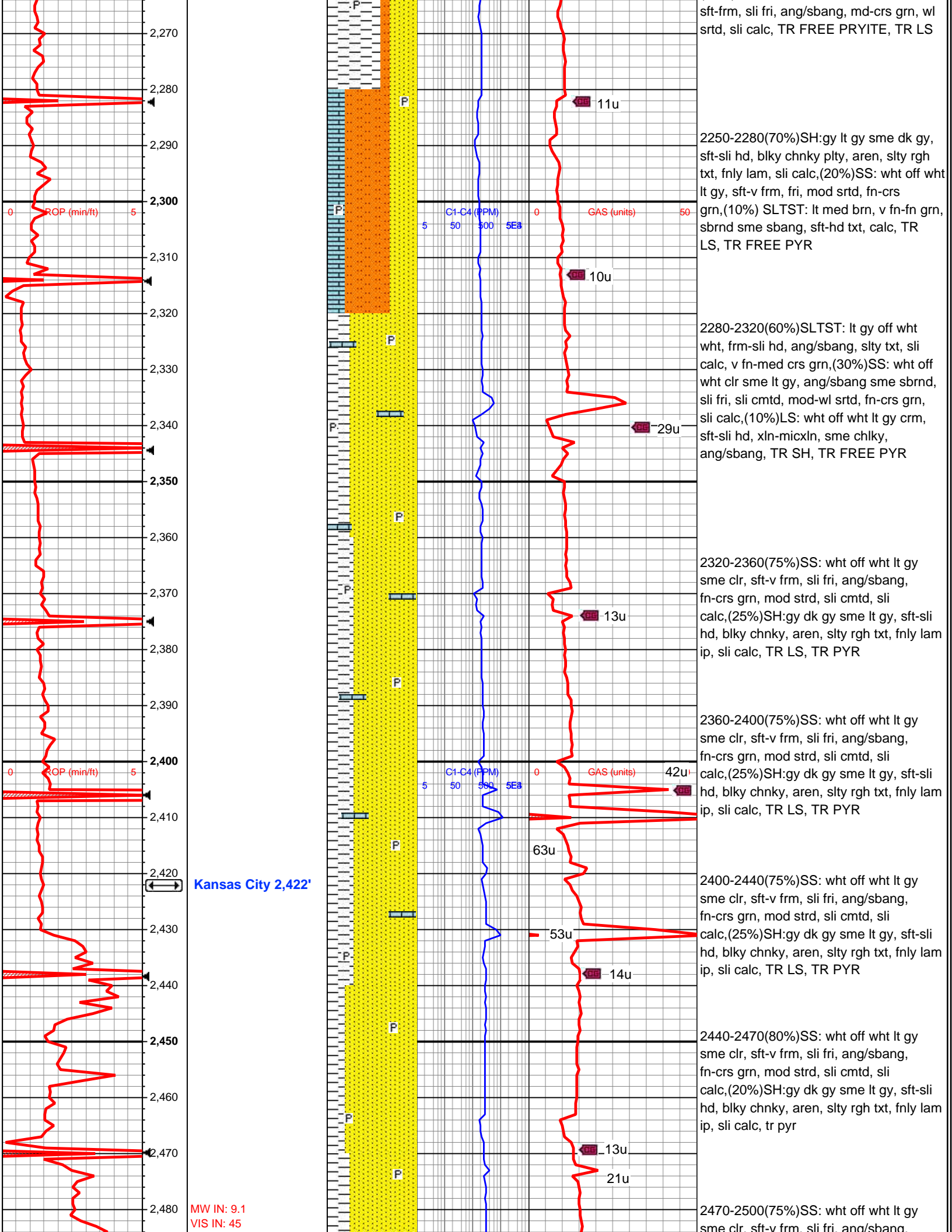
GAS (units)

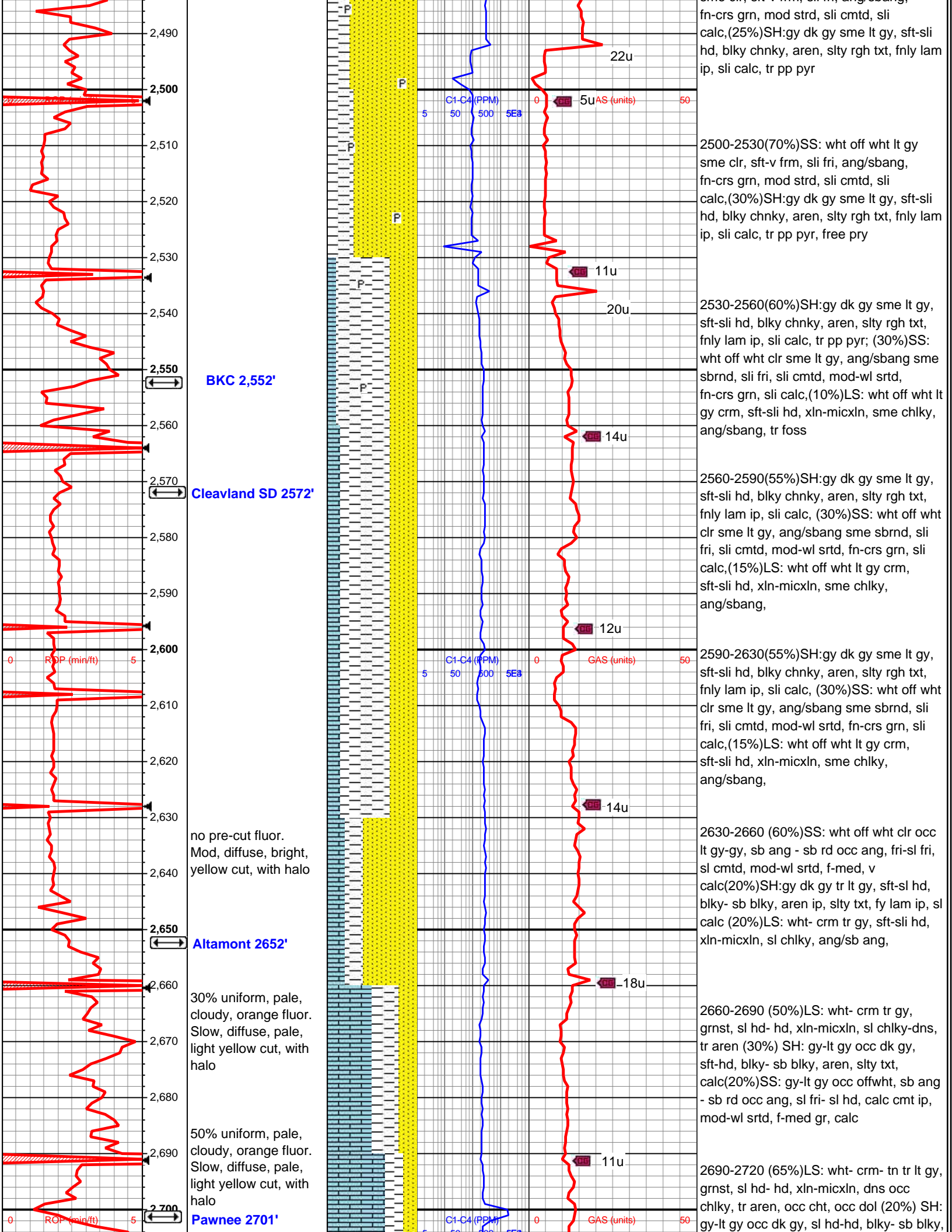
Lansing 2,018'

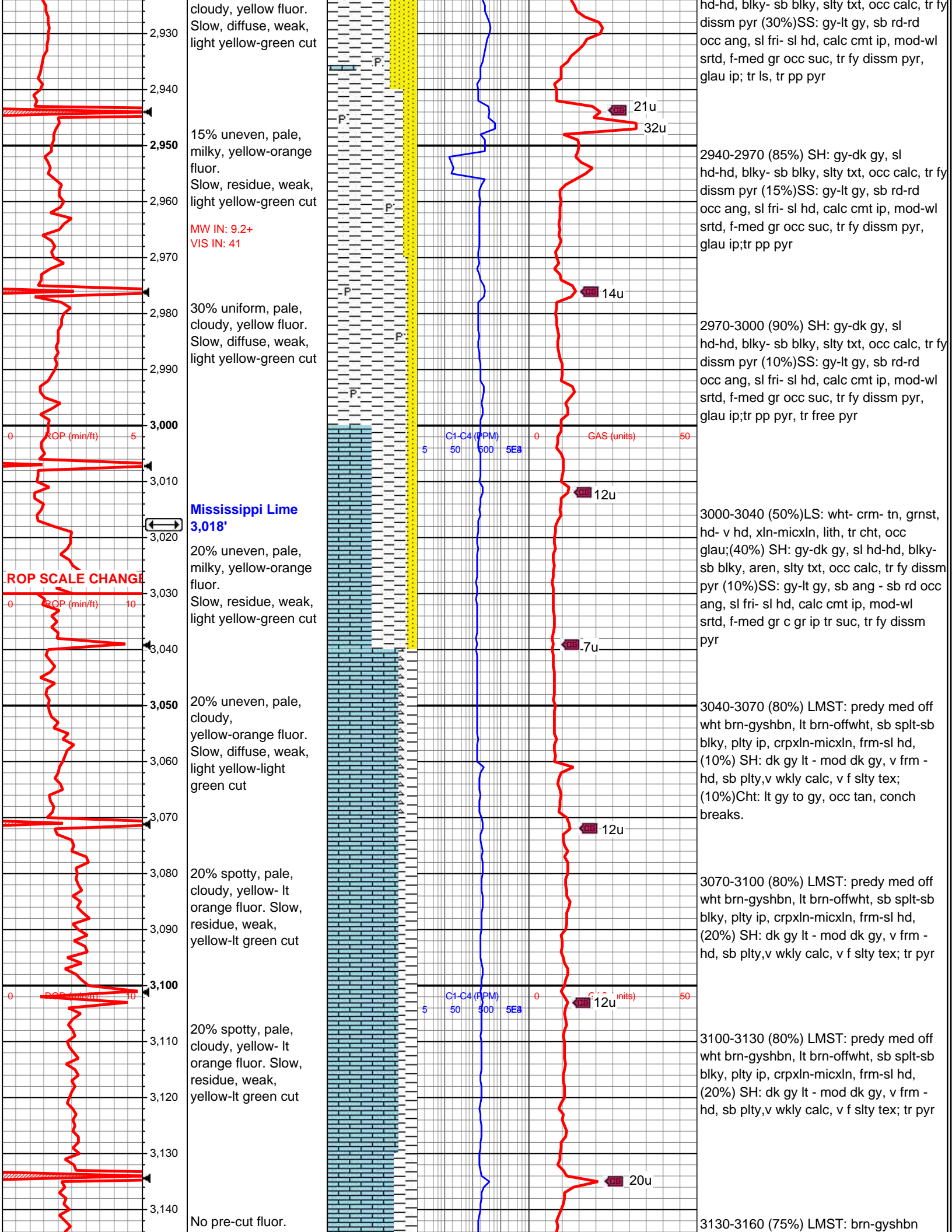
2000-2030(70%)SH: gy lt gy occ dk gy sme lt brn, v sft-sli hd, blk/sbblk splty ip sme chnky, rthy rgh slty txt, sli tr LS incl ip, sli calc, (10%)SS: wh off wh sme lt gy, sft-frm, sli fri, med-wl srt, ang/sbang sbrnd ip, f-crs grn, sli cmted, (10%)SLTST: lt brn gy lt gy off wh, sft-frm, arg, blk/sbblk, sli calc, v frn-crs grn, sli cmted, (10%)LS: wh off wh tn crm sme lt gy, v sft-v frm sli chlky

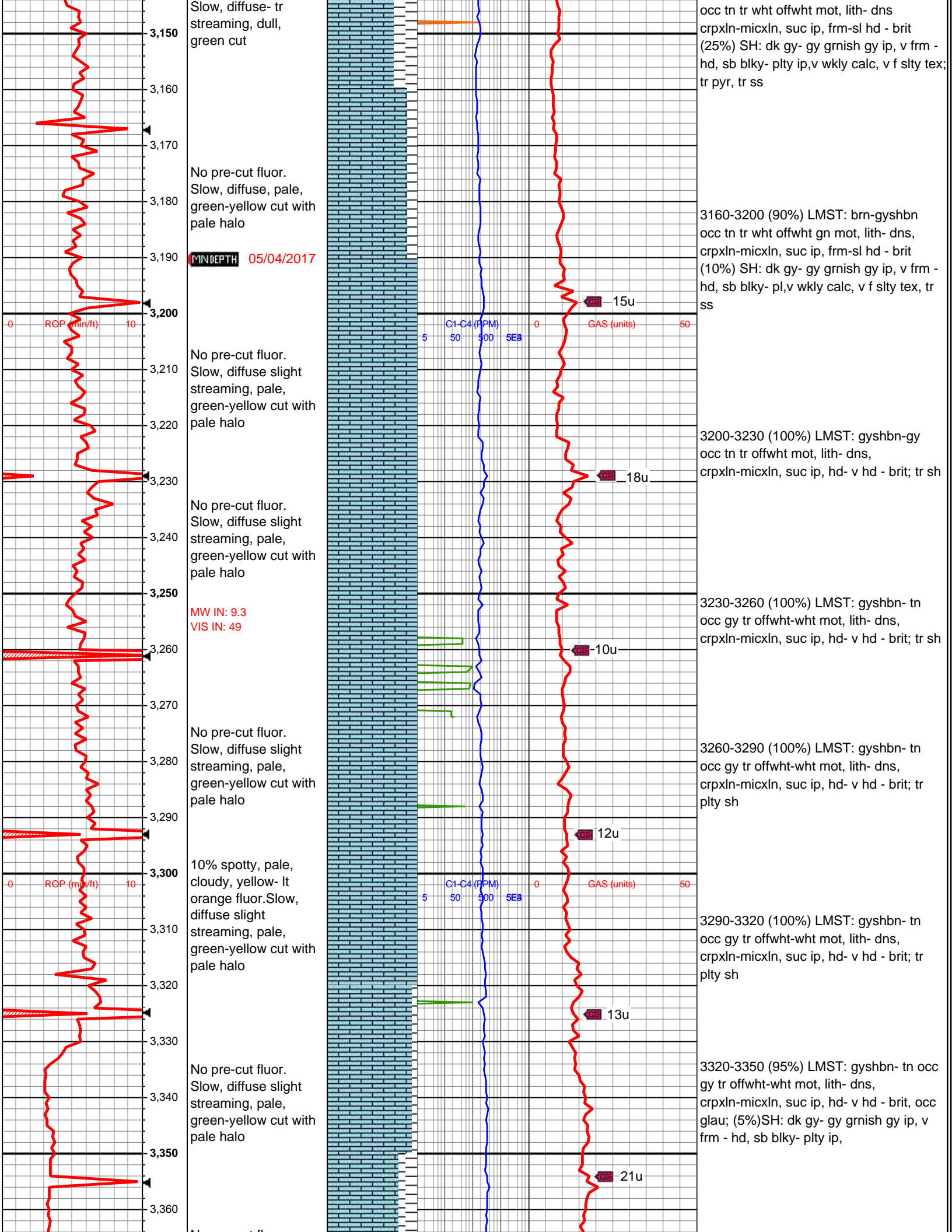
11u











Slow, diffuse- tr streaming, dull, green cut

No pre-cut fluor. Slow, diffuse, pale, green-yellow cut with pale halo

MINDEPTH 05/04/2017

No pre-cut fluor. Slow, diffuse slight streaming, pale, green-yellow cut with pale halo

No pre-cut fluor. Slow, diffuse slight streaming, pale, green-yellow cut with pale halo

MW IN: 9.3
VIS IN: 49

No pre-cut fluor. Slow, diffuse slight streaming, pale, green-yellow cut with pale halo

10% spotty, pale, cloudy, yellow-lt orange fluor. Slow, diffuse slight streaming, pale, green-yellow cut with pale halo

No pre-cut fluor. Slow, diffuse slight streaming, pale, green-yellow cut with pale halo

occ tn tr wht offwht mot, lith- dns crpxln-micxln, suc ip, frm-sl hd - brit (25%) SH: dk gy- gy grnish gy ip, v frm - hd, sb blkly- plty ip, v wkly calc, v f slty tex; tr pyr, tr ss

3160-3200 (90%) LMST: brn-gyshbn occ tn tr wht offwht gn mot, lith- dns, crpxln-micxln, suc ip, frm-sl hd - brit (10%) SH: dk gy- gy grnish gy ip, v frm - hd, sb blkly- plty ip, v wkly calc, v f slty tex, tr ss

3200-3230 (100%) LMST: gyshbn-gy occ tn tr offwht mot, lith- dns, crpxln-micxln, suc ip, hd- v hd - brit; tr sh

3230-3260 (100%) LMST: gyshbn- tn occ gy tr offwht-wht mot, lith- dns, crpxln-micxln, suc ip, hd- v hd - brit; tr sh

3260-3290 (100%) LMST: gyshbn- tn occ gy tr offwht-wht mot, lith- dns, crpxln-micxln, suc ip, hd- v hd - brit; tr plty sh

3290-3320 (100%) LMST: gyshbn- tn occ gy tr offwht-wht mot, lith- dns, crpxln-micxln, suc ip, hd- v hd - brit; tr plty sh

3320-3350 (95%) LMST: gyshbn- tn occ gy tr offwht-wht mot, lith- dns, crpxln-micxln, suc ip, hd- v hd - brit, occ glau; (5%)SH: dk gy- gy grnish gy ip, v frm - hd, sb blkly- plty ip,

ROP (min/ft)

C1-C4 (PPM)

GAS (units)

5 50 300 5E8

0 50

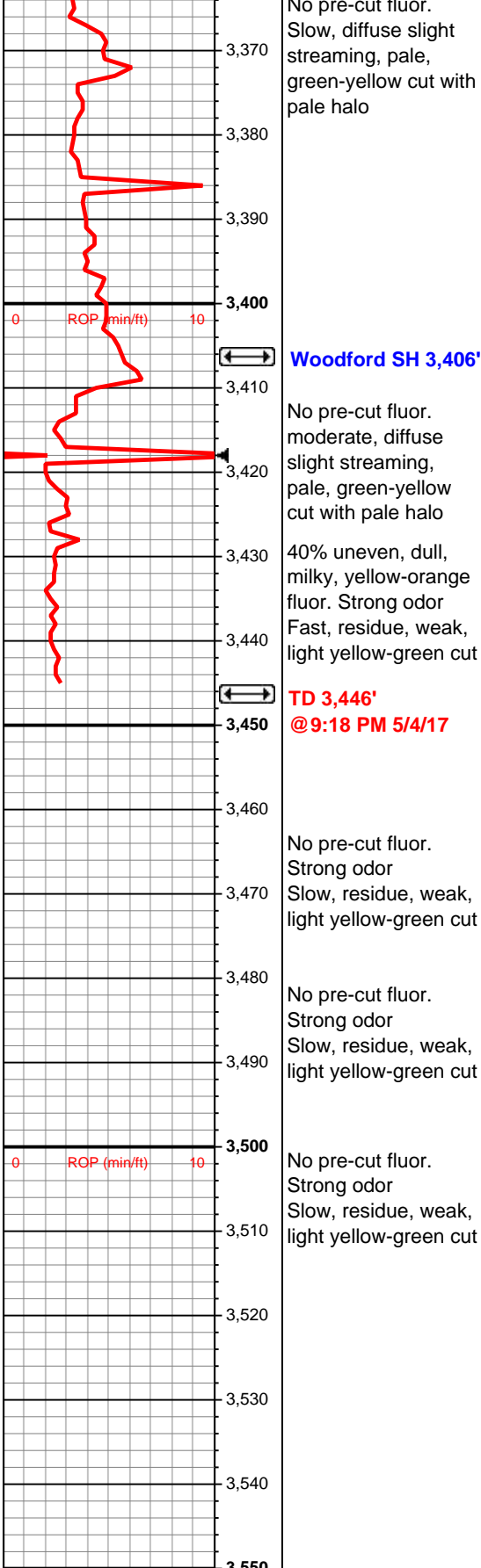
ROP (min/ft)

C1-C4 (PPM)

GAS (units)

5 50 300 5E8

0 50



No pre-cut fluor.
Slow, diffuse slight streaming, pale, green-yellow cut with pale halo

Woodford SH 3,406'

No pre-cut fluor.
moderate, diffuse slight streaming, pale, green-yellow cut with pale halo

40% uneven, dull, milky, yellow-orange fluor. Strong odor
Fast, residue, weak, light yellow-green cut

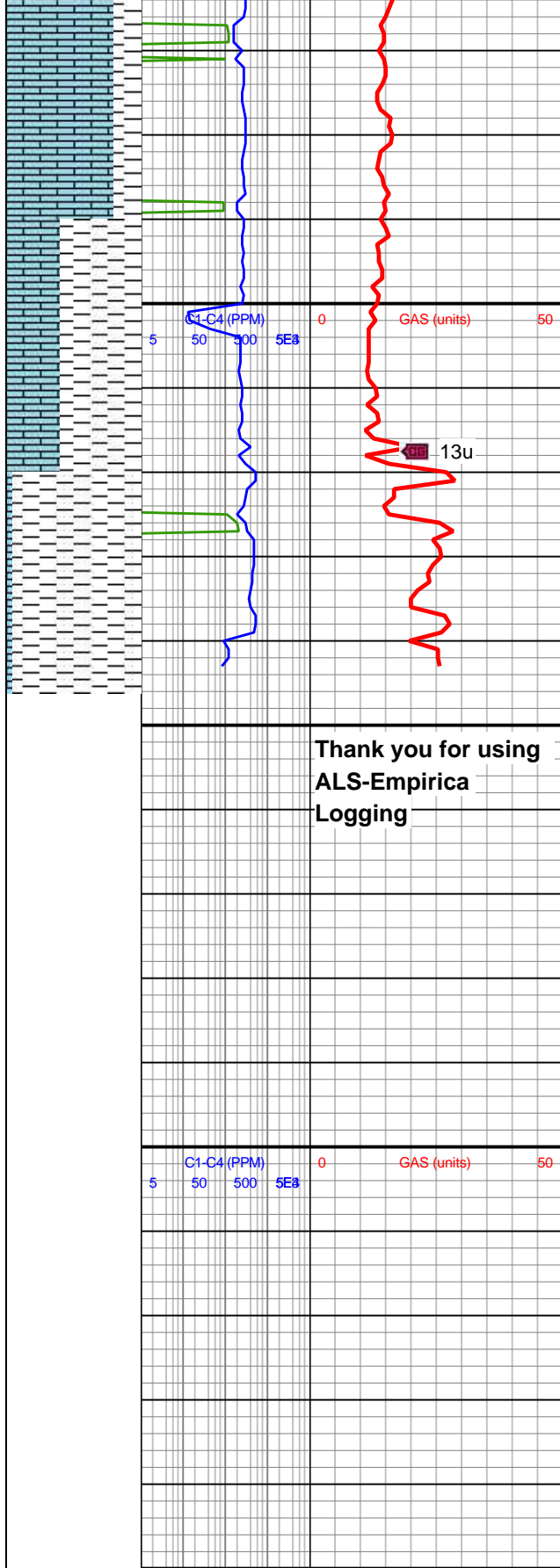
TD 3,446'
@9:18 PM 5/4/17

No pre-cut fluor.
Strong odor

Slow, residue, weak, light yellow-green cut

No pre-cut fluor.
Strong odor
Slow, residue, weak, light yellow-green cut

No pre-cut fluor.
Strong odor
Slow, residue, weak, light yellow-green cut



3350-3390 (80%) LMST: gyshbn- to gy, w/ offwht-wht mot, lith- dns, crpxln-micxln, hd- v hd - brit, occ glau; (20%)SH: dk gy- gy,grnsh gy ip, v frm - hd, sb blkly- plty ip,

3390-3420 (60%)SH: dk gy- gy,grnsh gy ip, v frm - hd, sb blkly- plty ip,(40%) LMST: gyshbn- to gy, w/ offwht-wht mot, lith- dns, crpxln-micxln, hd- v hd - brit, occ glau;

3420-3446 (95%)SH: dk gy- gy,grnsh gy ip, v frm - hd, sb blkly- plty ip, (5%) LS: gyshbn- to gy, w/ offwht-wht mot, lith- dns, crpxln-micxln, hd- v hd - brit, occ glau;

Thank you for using ALS-Empirica Logging

TD 3446 +15min (100%) SH; dk gy-v dk gy, frm-hd, sb blkly-plty

TD 3446 +30min (100%) SH; dk gy-v dk gy, frm-hd, sb blkly-plty

TD 3446 +60min (100%) SH; dk gy-v dk gy, frm-hd, sb blkly-plty