



Confidentiality Requested:

Yes No

KANSAS CORPORATION COMMISSION 1251561
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

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 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
- Plug Back Conv. to GSW Conv. to Producer
- Commingled Permit #: _____
- Dual Completion Permit #: _____
- SWD Permit #: _____
- ENHR Permit #: _____
- GSW Permit #: _____

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

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
- Geologist Report Received
- UIC Distribution
- ALT I II III Approved by: _____ Date: _____



1251561

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 <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 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
<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)*

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

DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____ <i>(Submit ACO-4)</i>	PRODUCTION INTERVAL: _____ _____
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ALLIED OIL & GAS SERVICES, LLC 065216

Federal Tax I.D. # 20-8651475

REMIT TO: P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT: Great Bend

DATE <u>3-17-15</u>	SEC <u>28</u>	TWP <u>18S</u>	RANGE <u>11W</u>	CALLED OUT	ON LOCATION <u>7:30 AM</u>	JOB START <u>9:00</u>	JOB FINISH <u>6:00</u>
LEASE <u>Robt</u>	WELL # <u>1-29H</u>	LOCATION <u>Elliswood 7N 1E</u>			COUNTY <u>Barton</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one) <u>NEW</u>				<u>1/4 S E 1/4</u>			

CONTRACTOR Don D Drilling
 TYPE OF JOB Intermediate 7"
 HOLE SIZE _____ T.D. _____
 CASING SIZE 7" 26# DEPTH 3823.65
 TUBING SIZE _____ DEPTH _____
 DRILL PIPE _____ DEPTH _____
 TOOL _____ DEPTH _____
 PRES. MAX _____ MINIMUM _____
 MEAS. LINE _____ SHOE JOINT _____
 CEMENT LEFT IN CSC. _____
 PERFS. _____
 DISPLACEMENT 1425 bbls Freshwater

OWNER _____
 CEMENT AMOUNT ORDERED 260 sks + 27 gal + 6 gal
61-160 + 1542 water + 25' Pla + 31' salt

COMMON <u>260</u>	@ 17.90	4,654.00
POZMIX _____	@ _____	_____
GEL <u>488</u>	@ 1.05	512.40
CHLORIDE _____	@ _____	_____
ASC <u>DV 1100 12</u>	@ 130.00	1,560.00
260 sks @ 17.90		
520	@ _____	_____
Salt <u>402</u>	@ 0.68	273.36
Fl-1100 <u>146</u>	@ 18.70	2,759.40
Sodium <u>36</u>	@ 3.30	118.80
OP <u>64</u>	@ 3.50	224.00
_____	@ _____	10,101.96
_____	@ 40%	4,040.78
HANDLING <u>280.47x</u>	@ 2.48	695.57
MILEAGE <u>12.75 x 10 x</u>	2.75	351.73
TOTAL		_____

REMARKS:

Mix 500 gal of DV-1100 pump blend
Mix 260 sks cement + 27 gal + 6 gal
Displace 1425 water plug @ 1500 #
Top 1/2" pressure Release a ball
plug down 5:45 pm
Brig Down
Mixed cement at 1.34 yield @
1542 @ 6.16 gal / gal sk

CHARGE TO: Gulf
 STREET _____
 CITY _____ STATE _____ ZIP _____

SERVICE

DEPTH OF JOB <u>3823</u>		
PUMPTRUCK CHARGE _____		2,558.75
EXTRA FOOTAGE _____	@ _____	_____
MILEAGE <u>Hum 10</u>	@ 7.70	77.00
MANIFOLD _____	@ _____	275.00
_____ <u>Hum 10</u>	@ 4.40	44.00
wait time <u>3</u>	@ 440.00	1,320.00
wait time <u>4</u>	N/A	_____
TOTAL		5,322.95
2.128.82		

PLUG & FLOAT EQUIPMENT

16-7" spiral Glider _____	@ 190.00	3040.00
4-7" controllers _____	@ 65.00	260.00
1-7" rotary plug _____	@ 100.00	100.00
1-7" sure seal float collar _____	@ 887.00	887.00
1-7" sure seal float shoe _____	@ 713.00	713.00
TOTAL		5,000.00
40% 2000.00		

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (if Any) _____
 TOTAL CHARGES 20,424.01
 DISCOUNT 8,169.40
 IF PAID IN 30 DAYS
12,254.61

PRINTED NAME Ronald Webb SR 3-17-15
 SIGNATURE Ronald Webb SR 3-17-15
Thank you!

ALLIED OIL & GAS SERVICES, LLC 063748

Federal Tax I.D. # 20-8651475

REMIT TO: P.O. BOX 93999
SOUTHLAKE, TEXAS 76092

SERVICE POINT:
Great Bend KS

DATE <u>03-10-15</u>	SEC. <u>28</u>	TWP. <u>18</u>	RANGE <u>11</u>	CALLED OUT	ON LOCATION <u>12:30 AM</u>	JOB START <u>4:00 AM</u>	JOB FINISH <u>5:00 AM</u>
LEASE <u>Robt</u>	WELL# <u>1-29 H</u>	LOCATION <u>Ellinwood To 110 Rd 7 North</u>			COUNTY <u>Barton</u>	STATE <u>KS</u>	
OLD OR NEW (Circle one)		<u>East 1/2 South East 1/4</u>					

CONTRACTOR DAN Drilling
 TYPE OF JOB Surface
 HOLE SIZE 12 1/4 T.D.
 CASING SIZE 9 5/8 38 ^{CS} DEPTH 481.74
 TUBING SIZE DEPTH
 DRILL PIPE DEPTH
 TOOL DEPTH
 PRES. MAX MINIMUM
 MEAS. LINE SHOE JOINT
 CEMENT LEFT IN CSG. 96.75
 PERFS.
 DISPLACEMENT 33.73 BRK Fresh H2O

OWNER GLHF
 CEMENT
 AMOUNT ORDERED 200 = 45/55 + 6% Gal +
3% cc + 1/2 flt
100 Sx CLASS A 3% CC.
 COMMON @
 POZMIX @
 GEL @
 CHLORIDE 8.25 @ 1.10 9.07.50
 ASC @
200 Sx 65/55 + 6% @ 19.88 3.976.00
flr 50 @ 2.97 148.50
 @ 38% 5.932.00
 @
 @
 @
 @
 HANDLING 439.99 @ 2.48 1091.28
 MILEAGE 19.19 X 10 X 2.75 527.23
 TOTAL

EQUIPMENT
 PUMP TRUCK CEMENTER Kevin Eddy
 # 597 HELPER Dustin Chambers
 BULK TRUCK
 # 609/235 DRIVER Bon Newell
 BULK TRUCK
 # DRIVER

REMARKS:

ON Location. Held safety meeting / Rig up
Rig Ran 481.74 ft of 9 5/8 casing - Pump 5
Ahead - mix 200 Sx 65/55 + 6% Gal + 3% cc 1/2 flt
Mix 5x CLASS A + 3% CC. Release Plug
Displace 33.73 BRK Fresh H2O - Land Plug
@ 600 PST. LFP Press was 150 PST
Rig Down Cement Die cure

SERVICE

DEPTH OF JOB 481.74
 PUMP TRUCK CHARGE 1 1512.25 1512.25
 EXTRA FOOTAGE @
 MILEAGE Hum 7.70 m @ 97.00 77.00
 MANIFOLD Head @ 275.00 275.00
1/4m @ 44.00 44.00
 @

CHARGE TO: GLHF
 STREET _____
 CITY _____ STATE _____ ZIP _____

TOTAL 3.527.16
38% 1.340.02

PLUG & FLOAT EQUIPMENT

3 Centralizers @ 590.00 270.00
1 Rubber Plug @ 185.00 185.00
1 BASKET @ 595.00 595.00
AFU INSERT @ 535.00 535.00
1 Wide SHOC @ 553.00 553.00

TOTAL 2.138.00
38% 812.44

To: Allied Oil & Gas Services, LLC.
 You are hereby requested to rent cementing equipment and furnish cementer and helper(s) to assist owner or contractor to do work as is listed. The above work was done to satisfaction and supervision of owner agent or contractor. I have read and understand the "GENERAL TERMS AND CONDITIONS" listed on the reverse side.

SALES TAX (If Any) _____
 TOTAL CHARGES 10.697.16
4.064.23
 DISCOUNT _____ IF PAID IN 30 DAYS
6.632.34

PRINTED NAME Ronald Webb SR
 SIGNATURE Ronald Webb Sr 31045

GEOSITE, INC.

GEOLOGICAL WELL SITE SERVICE
 Office: 325-655-4356 Fax 325-655-3100
 Web Site: www.geosite.us E-mail: geosite@geosite.us

HYDROCARBON LOG Vertical Log

COMPANY: GULF EXPLORATION, LLC		
WELL: ROBL #1-29H		
FIELD: WILDCAT		
COUNTY: BARTON	STATE: KS	
API #: 15-009-26082		
SEC-28-18S-11W	LEGAL LOCATION	ELEVATION KB: 1817 DF: 1815 GL: 1807 Log Measured From KB Elevation
LAT:	LONG:	
START DATE: 3/10/2015	LOGGING INTERVAL	END DATE: 3/22/2015
HOLE START DEPTH: 900		HOLE END DEPTH: 6365
LOGGING UNIT Unit #5	LOGGERS QUINN FLOCH	BRICE WINTERS
RIG INFORMATION CONTRACTOR: DAN D RIG NUMBER: 9 RIG PHONE:		MUD INFORMATION CONTRACTOR: FOSSIL FLUIDS, LLC ENGINEER: CHUCK WRIGHT PHONE: 680-450-4504
TOOL PUSHER INFORMATION TOOL PUSHER: RICK CREEKMORE PUSHER PHONE: PUSHER EMAIL:		COMPANY INFORMATION REP: RON WEBB PHONE: EMAIL:

JOBID: 15787 wslab05-IDDLO-USRMF Server Version: 4.0b Log Version: 3.2012.7.44 AG

All interpretations are opinions based on inferences from the hole condition, sampling, electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretations, and who shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages, for expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents, or employees.

DRILL RATE COLUMN ABBREVIATIONS

BOB	BACK ON BOTTOM	PP	PUMP PRESSURE
CO	CIRCULATING OUT	RPM	ROTARY RPM
CRG	CORING	SPM	PUMP STROKES
DST	DRILL STEM TEST	TFNB	TRIP FOR NEW BIT
NB	NEW BIT	TIH	TRIP IN HOLE
NR	NO RETURNS	TOH	TRIP OUT OF HOLE
WOB WEIGHT ON BIT			

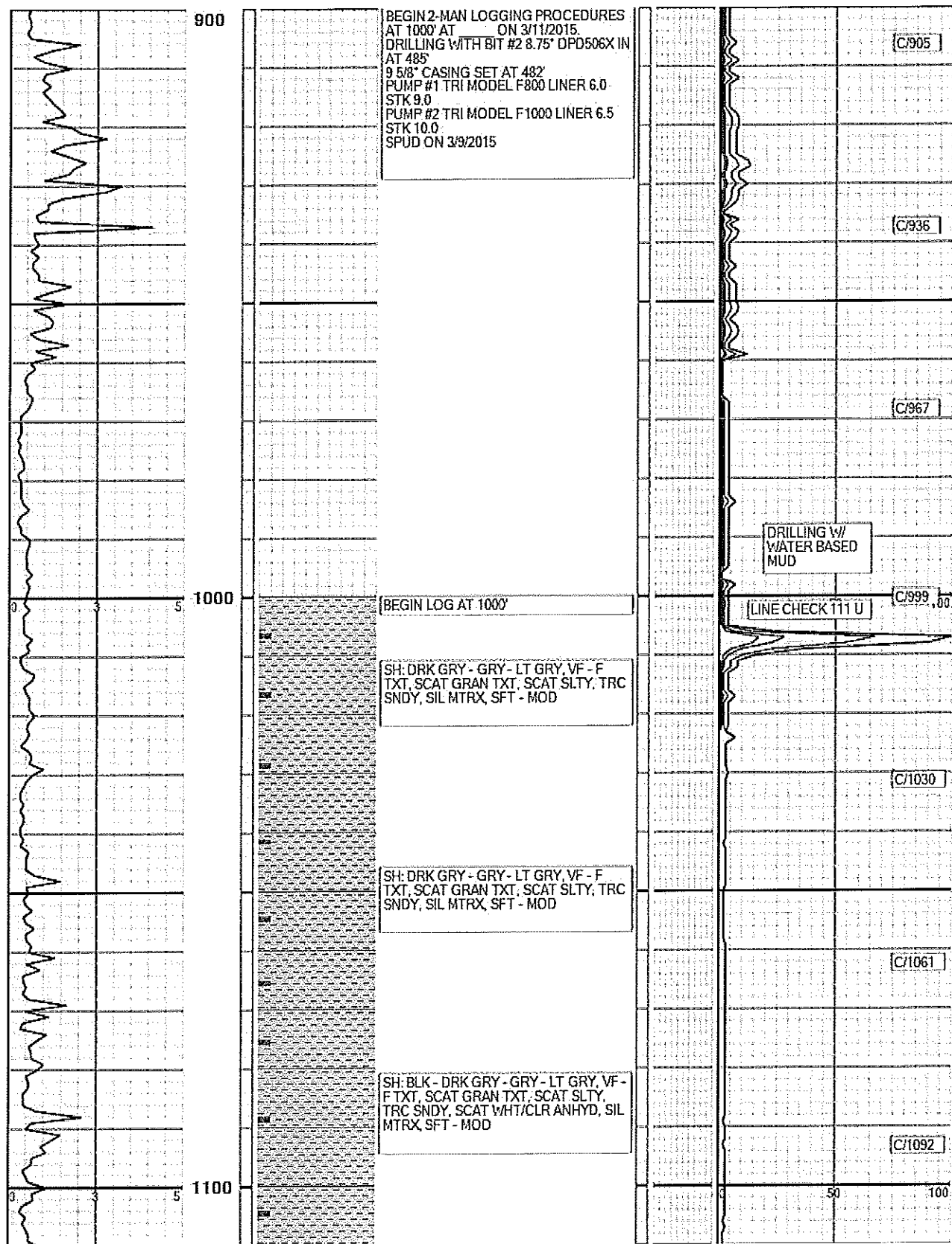
GAS RATE COLUMN ABBREVIATIONS

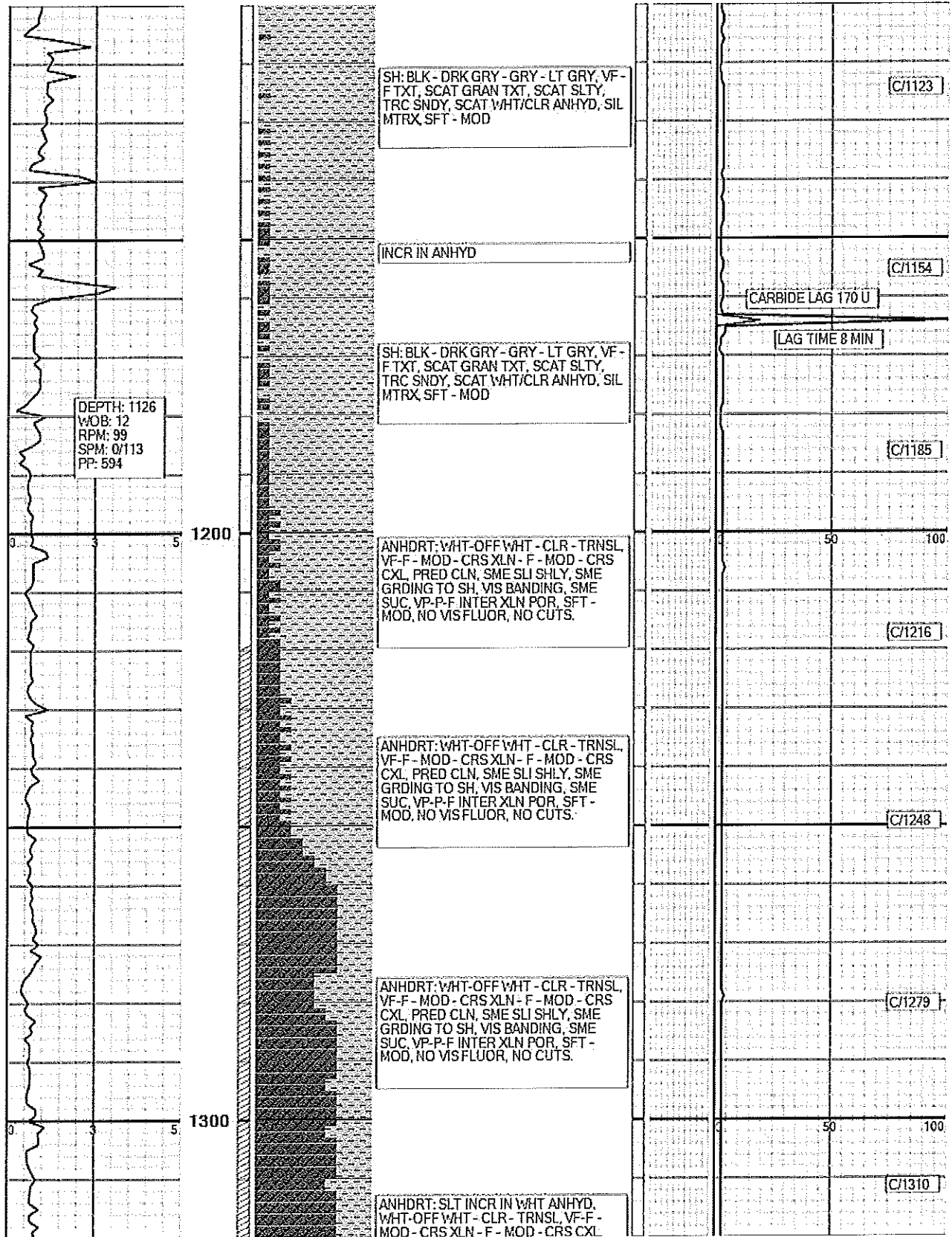
CG	CONNECTION DEPTH	LAST	LOG AFTER SHORT TRIP
CG	CONNECTION GAS	PH	POTENTIAL HYDROGEN
CK	MUD CAKE	VIS	VISCOSITY
CHL	CHLORIDE	WT	MUD WEIGHT
FIL	FILTRATE	WL	LOG AFTER TRIP

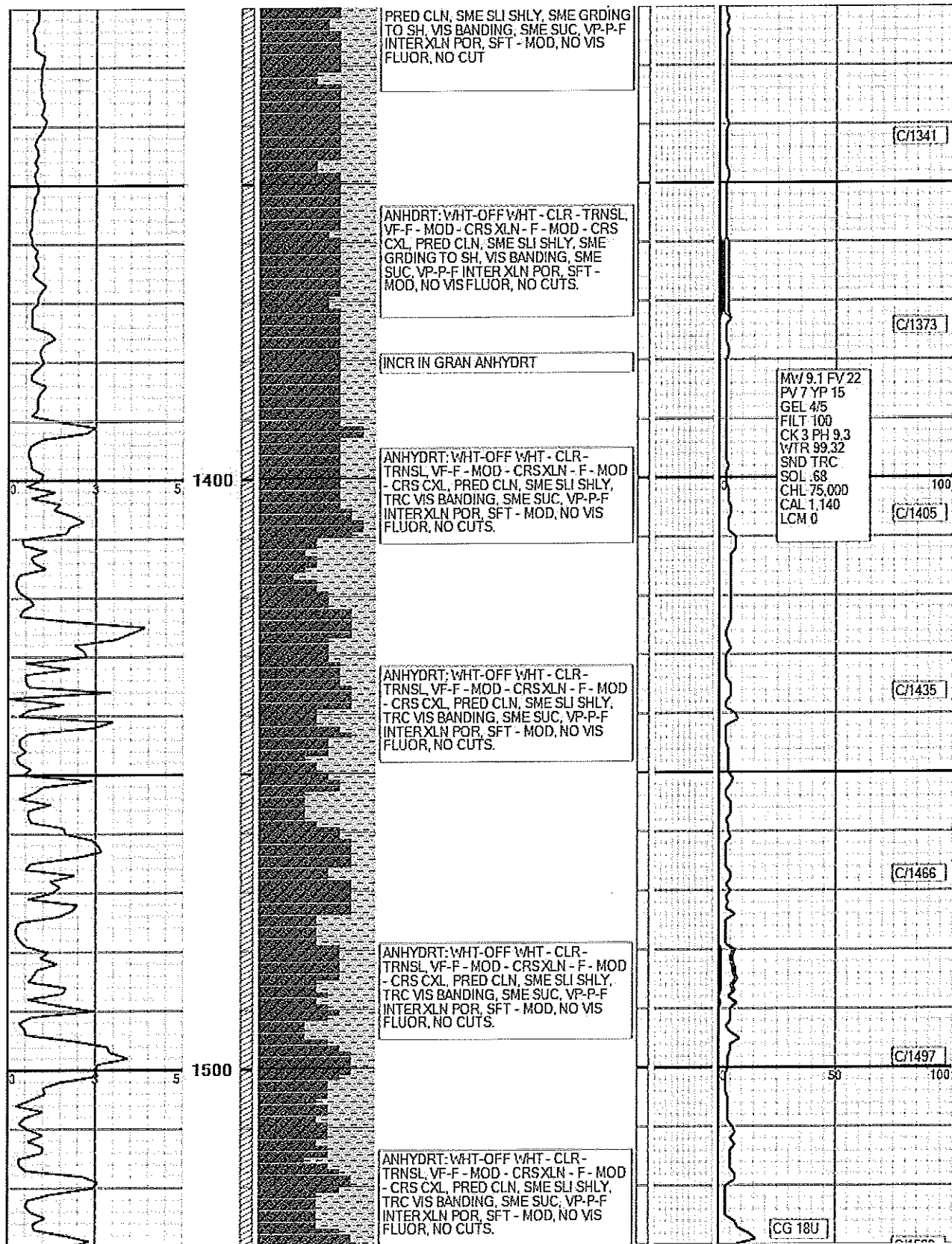
Anhydrite	Lime	Sand	Shale	0	METHANE (C1)	100
Hot Shale				0	ETHANE (C2)	100
				0	PROPANE (C3)	100
				0	BUTANE (C4)	100
				0	PENTANE (C5)	100
				0	TOTAL GAS	100

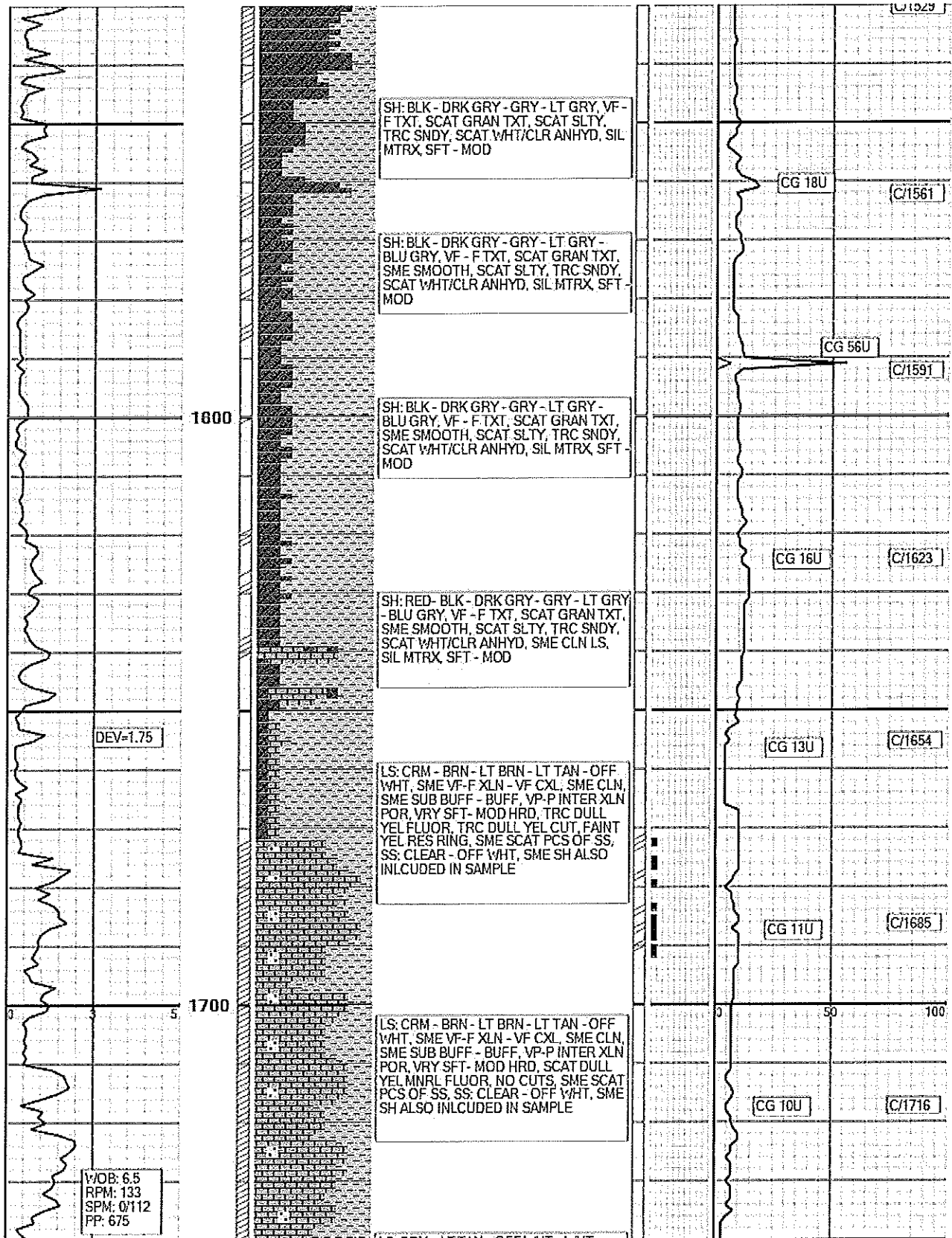
0	Gamma	150
0	DRILLRATE	5

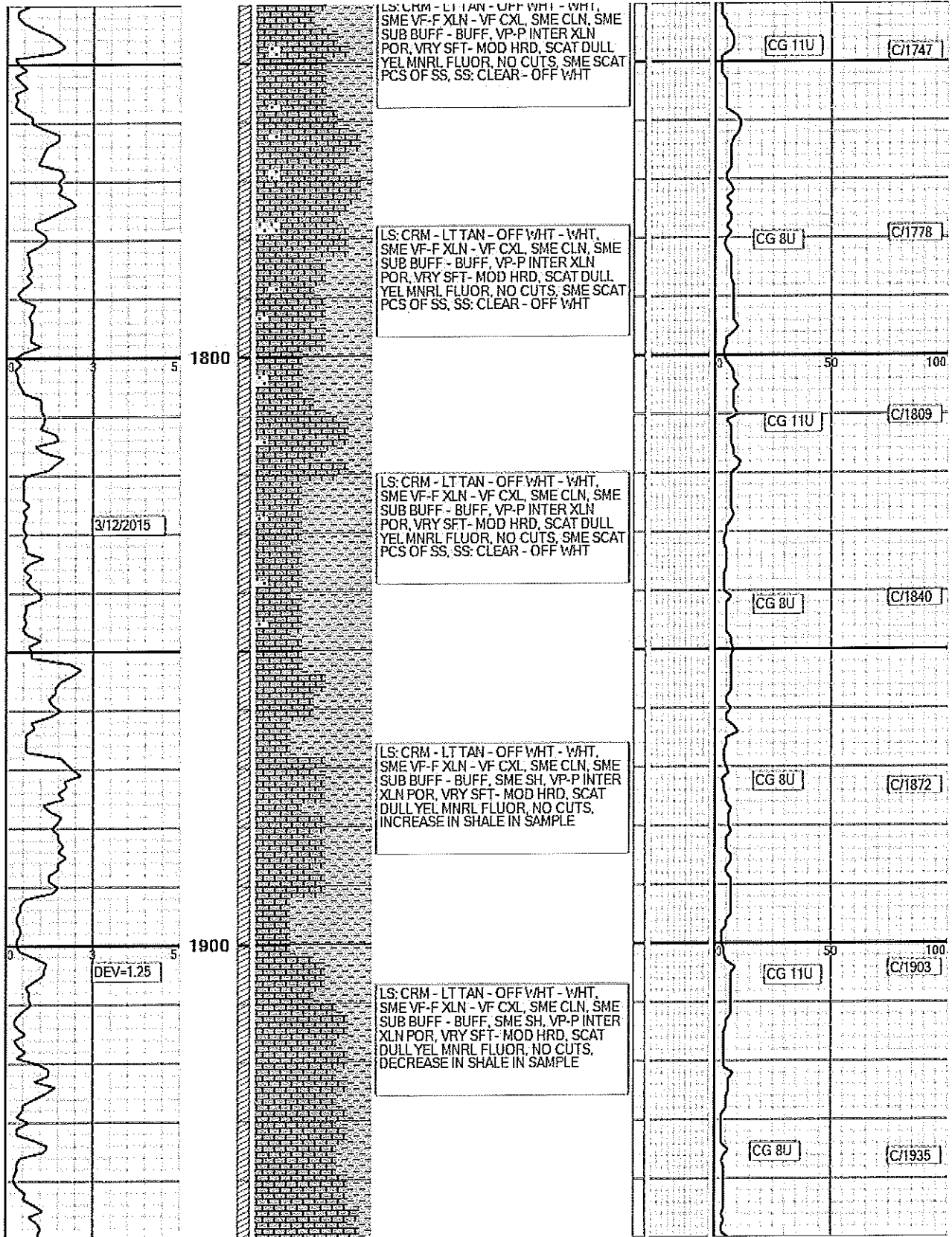
CUT / POR / OIL		
TRACE /	FAIR X	GOOD ■
P		C
O		U
R	LITHOLOGY	T
	DESCRIPTIONS	

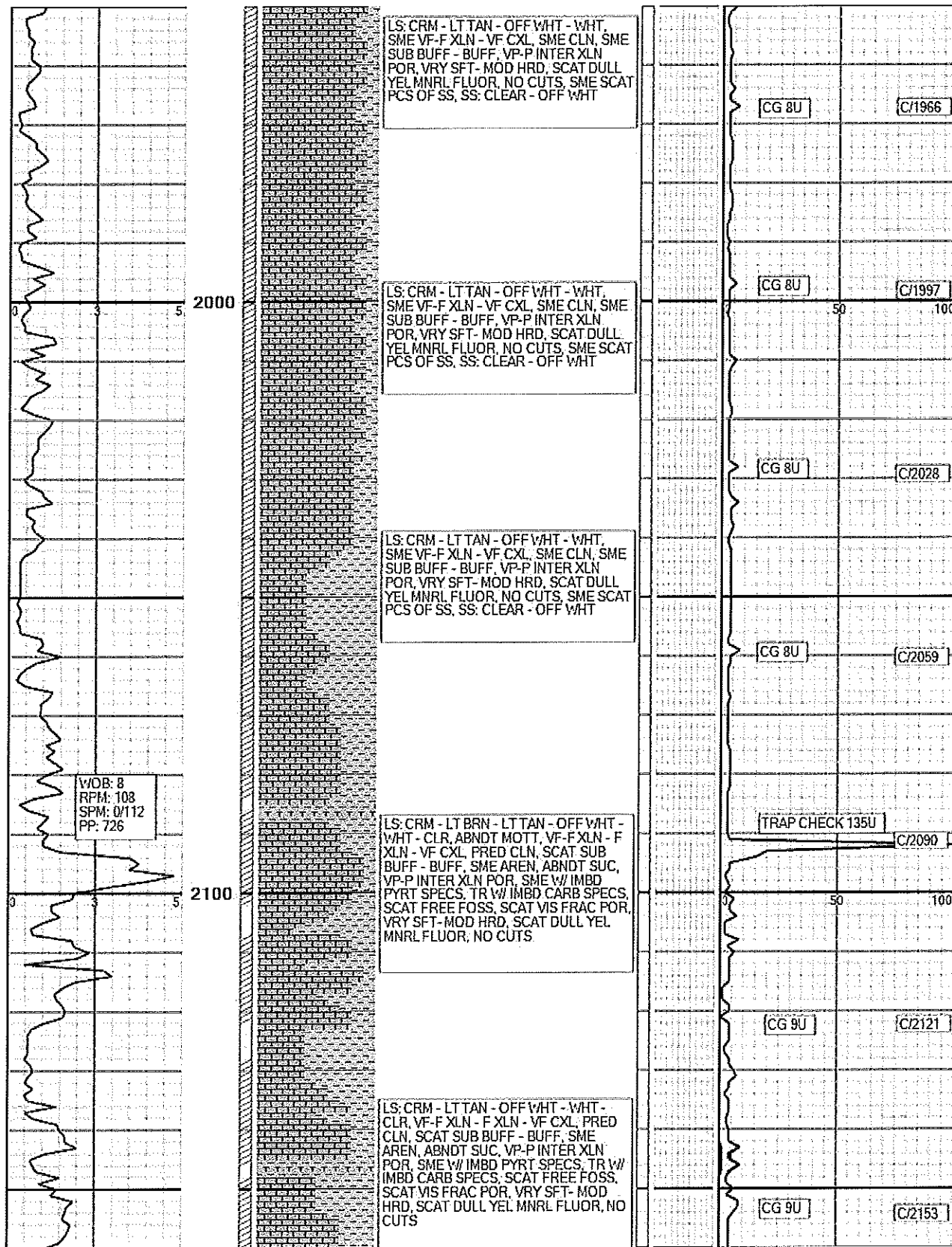


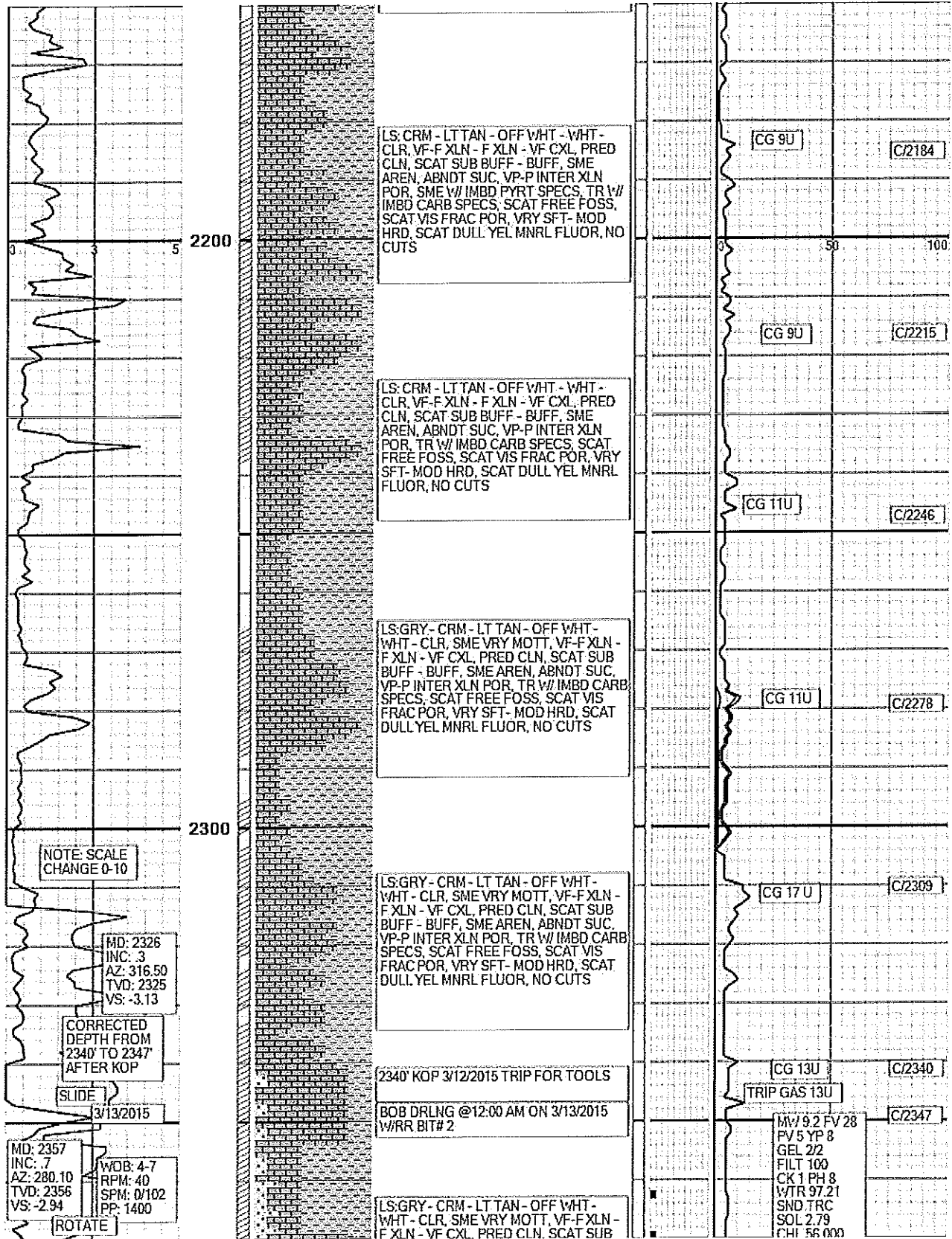


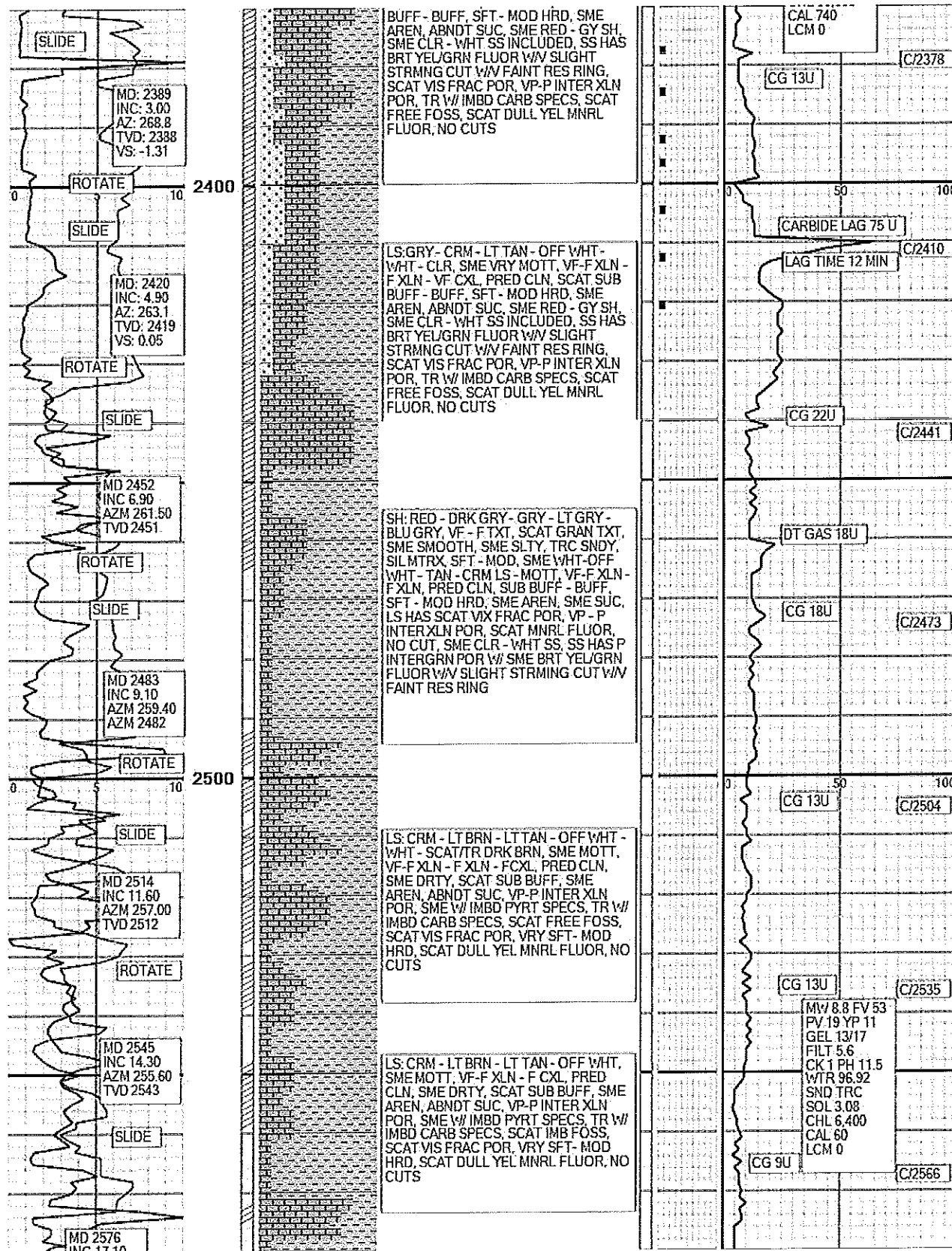


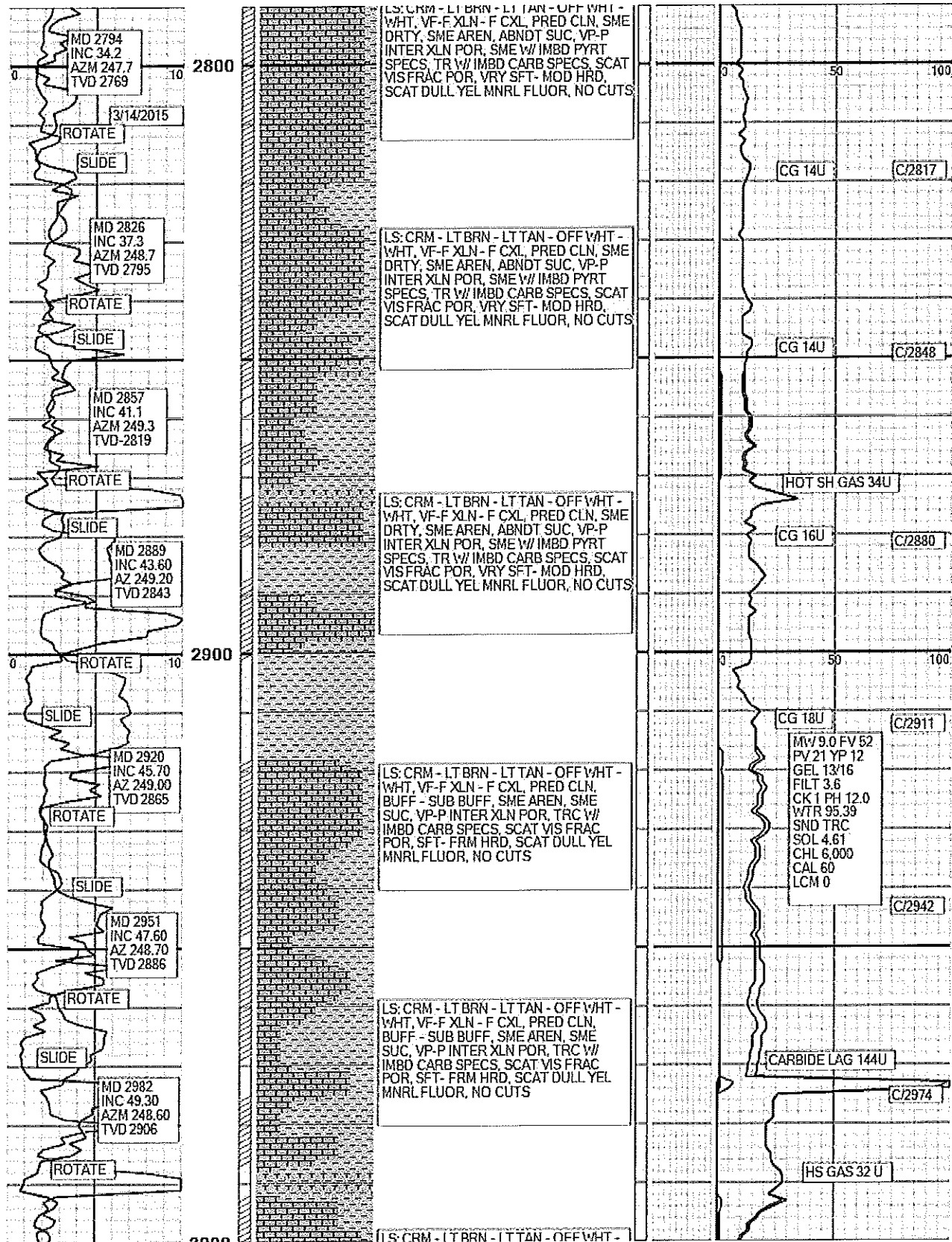


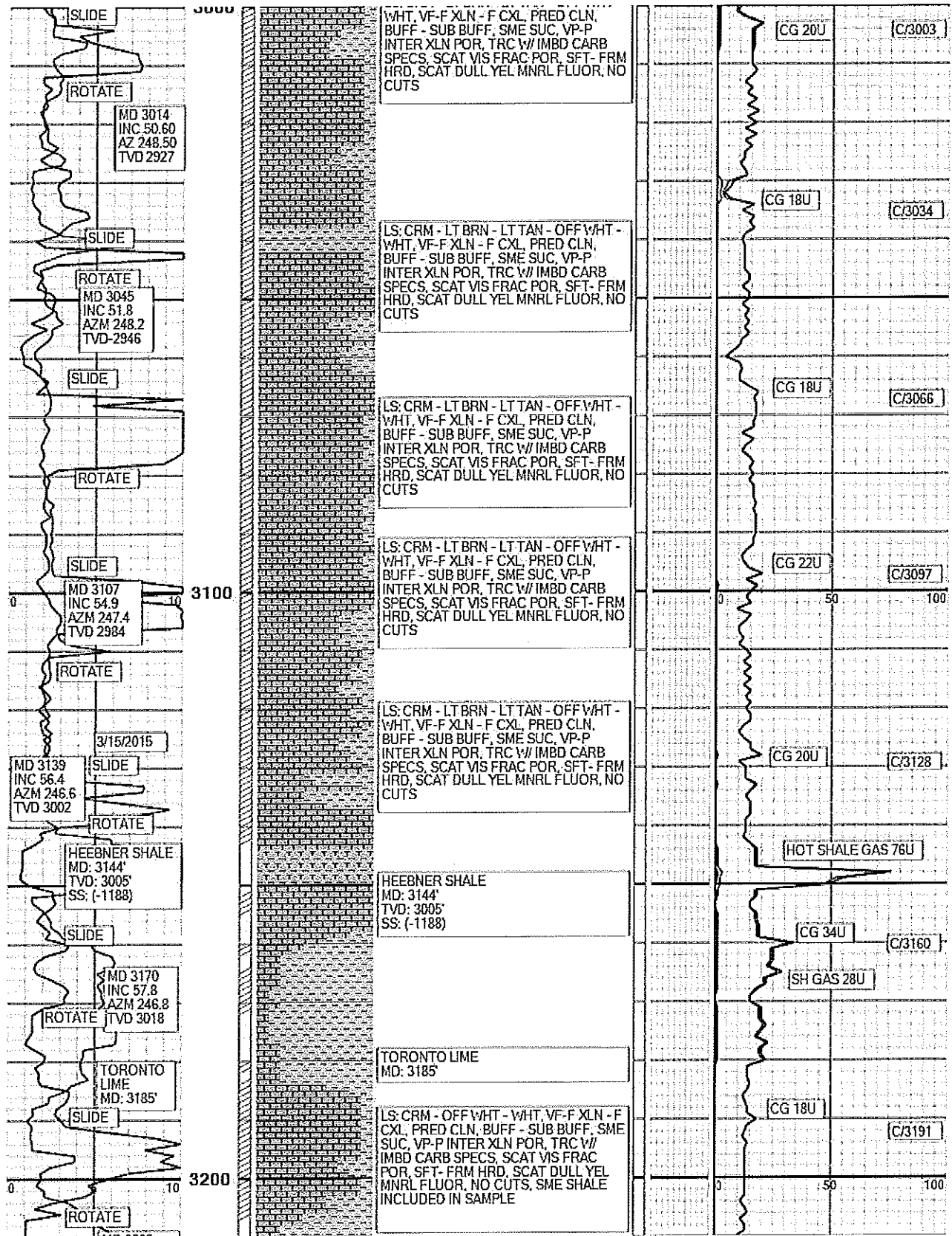


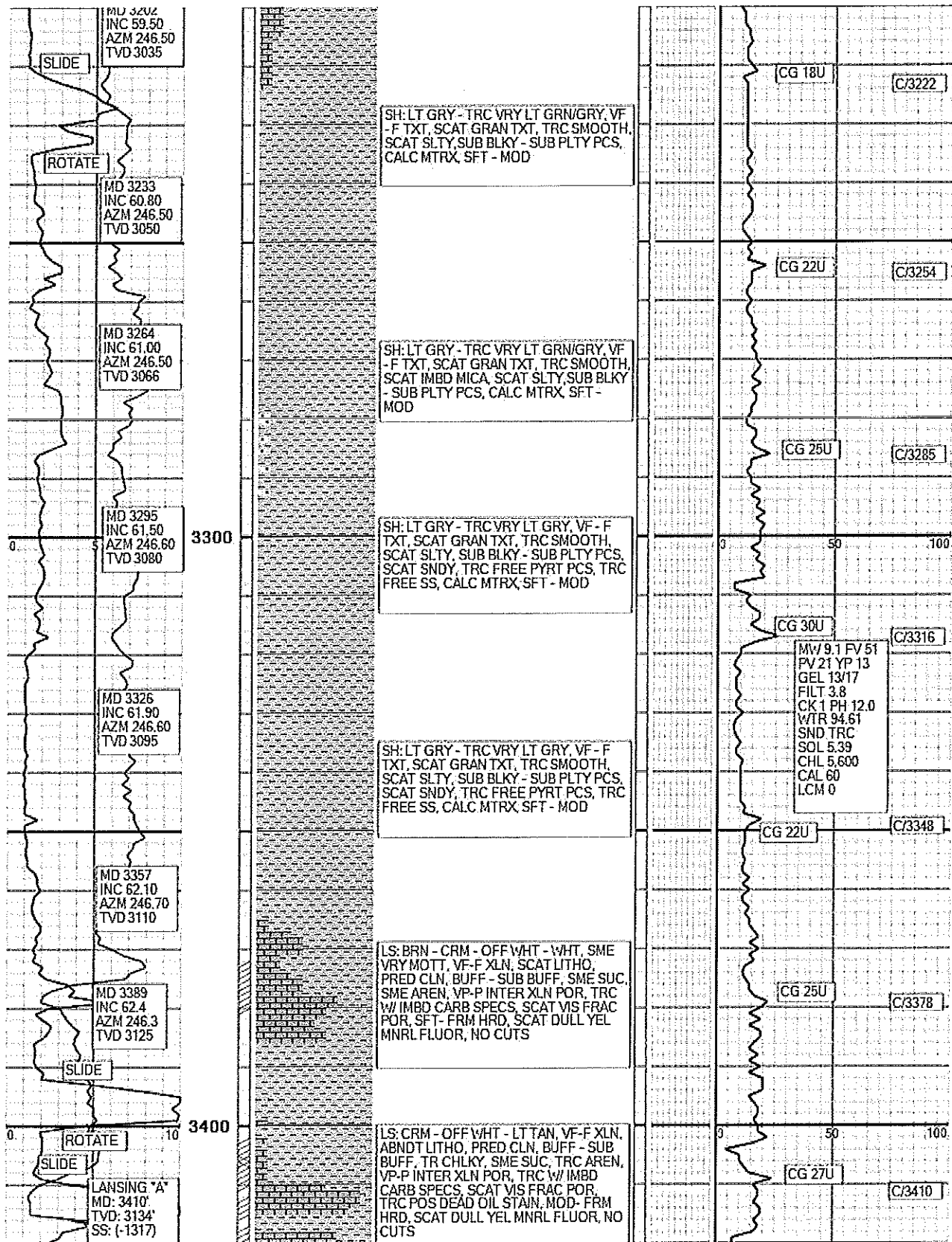


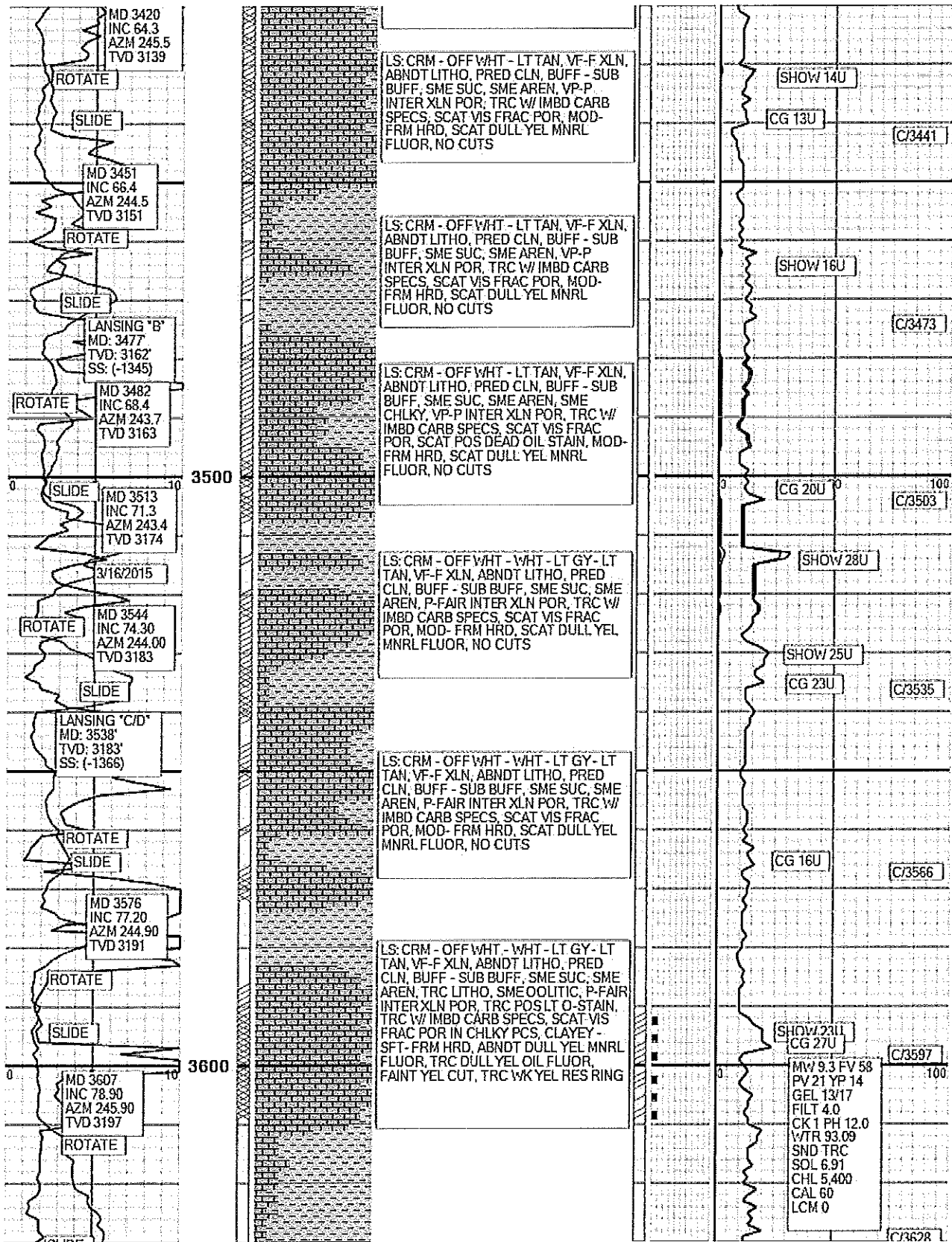


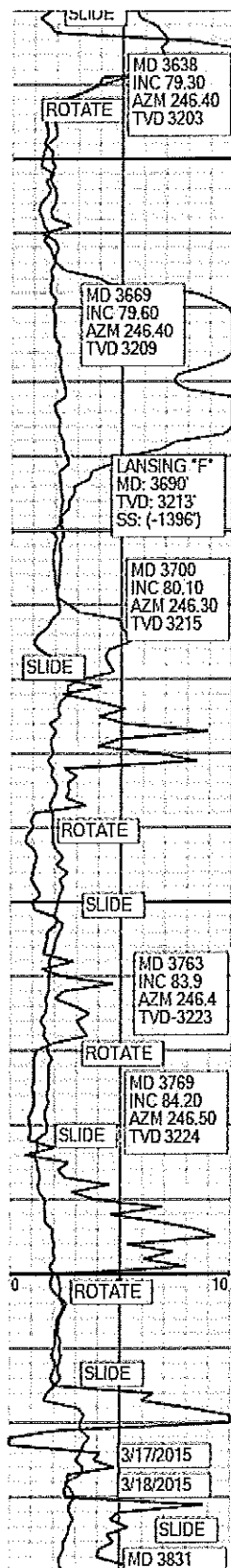






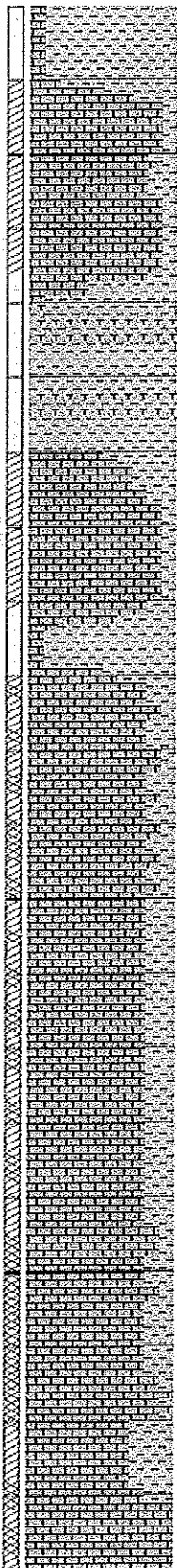






3700

3800



LS: CRM - OFF WHT - WHT - LT GY - LT TAN - LT GRY, SME MOTT, VF-F XLN, TRC LITHO, SME CLN, SME DRTY, BUFF - SUB BUFF, SME SUC, SME AREN, SME OOLITIC, P-FAIR INTER XLN POR, TRC W/IMBD CARB SPECS, SCAT VIS FRAC POR, SFT-FRM HRD, ABNDT DULL YEL MNRL FLUOR, VRY TRC DULL YEL OIL FLUOR, VRY W/K CLR YEL CUT, VRY TRC W/K YEL RES RING

LS: CRM - OFF WHT - WHT - LT TAN, VF-F XLN - F CXL, ABNDT CHLKY, SCAT LITHO, CLN, BUFF - SUB BUFF, SME SUC, SME AREN, P-FAIR INTER XLN POR, TRC W/IMBD CARB SPECS, SCAT VIS FRAC POR, VRY SFT- MOD HRD, ABNDT DULL YEL MNRL FLUOR, VRY TRC BRT YEL OIL FLUOR, VRY W/K CLR YEL CUT, VRY TRC W/K YEL RES RING

INCR IN CHLKY LS

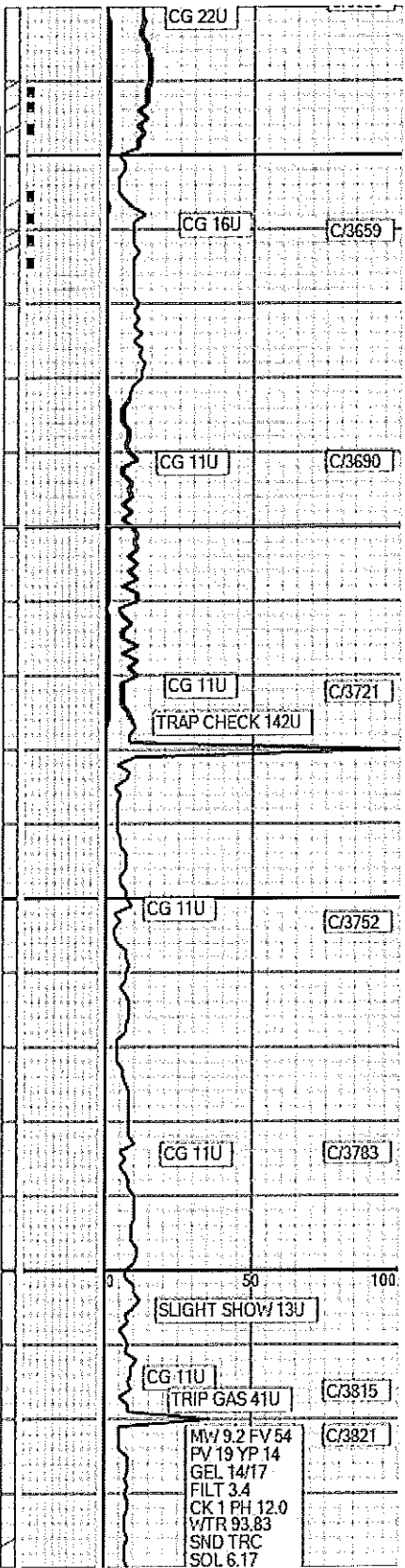
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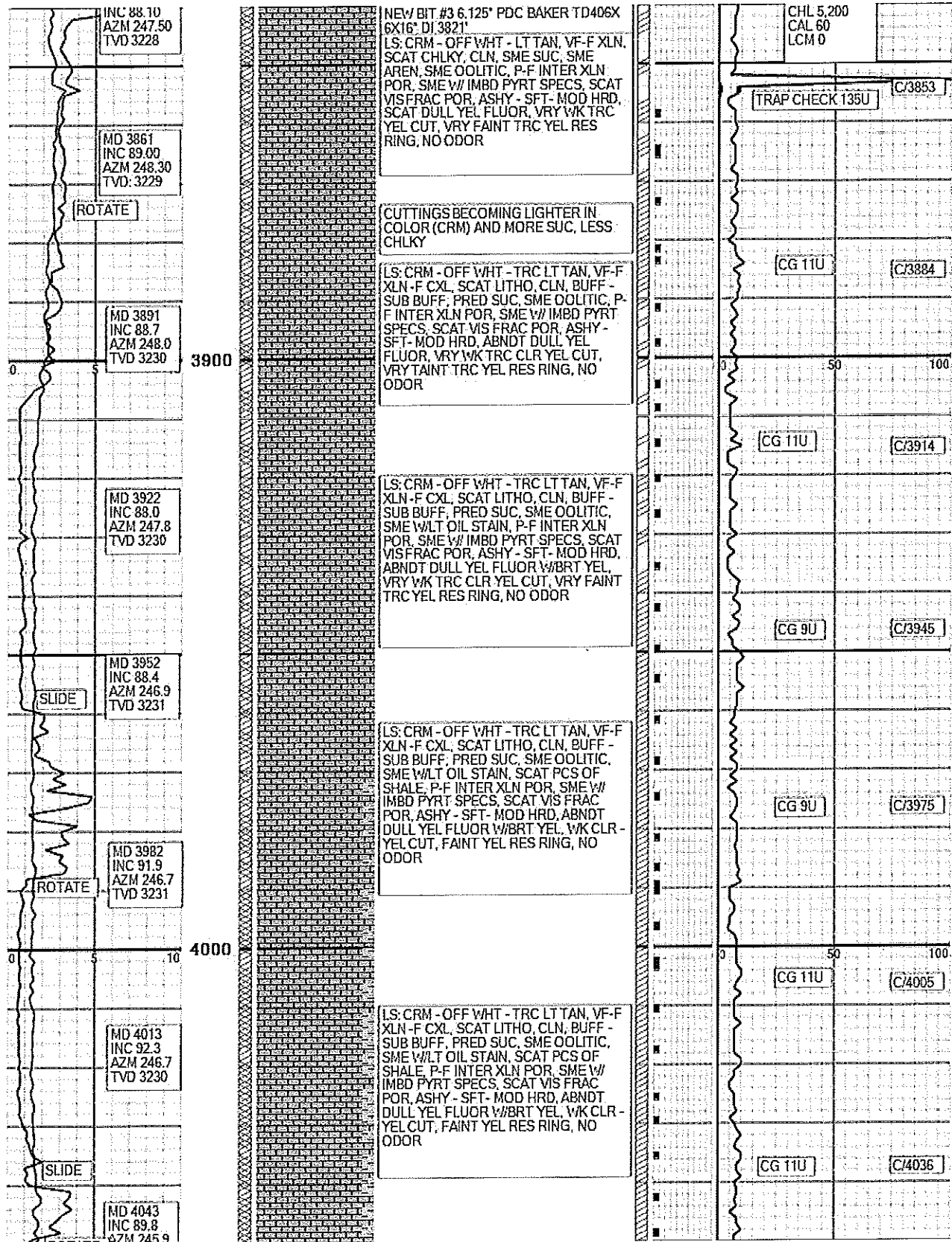
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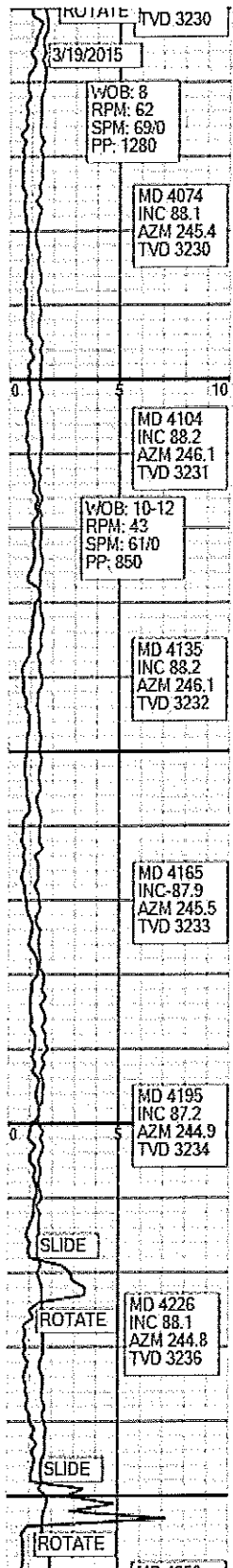
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TD CURVE @3,821' AT 9:45PM ON 3/16/2015, TOH FOR CASING

RESUME DRILLING 1:00 PM 3/18/2015







4100

4200

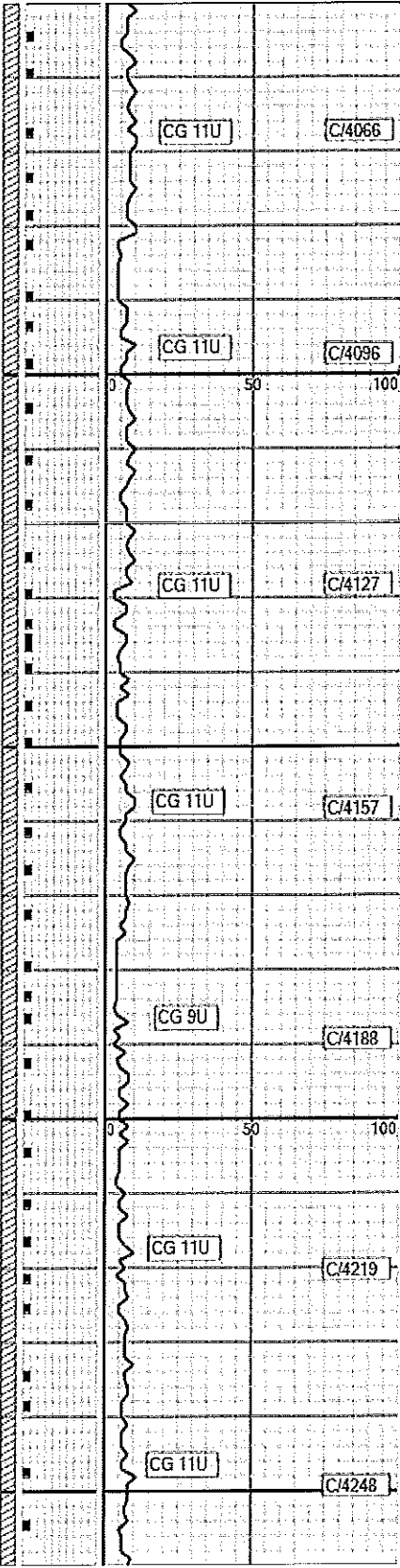


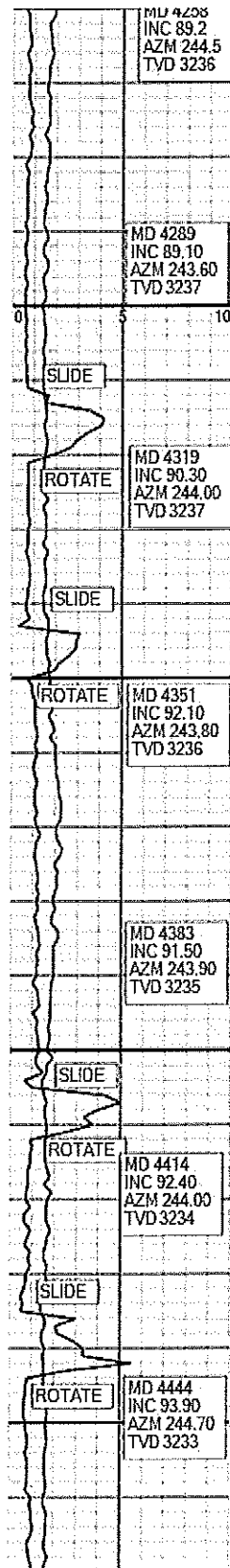
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LS: CRM - OFF WHT - TRC LT TAN, VF-F XLN - F CXL, SCAT LITHO, CLN, BUFF - SUB BUFF, PRED SUC, SME OOLITIC, SME W/LT OIL STAIN, SCAT PCS OF SHALE, P-F INTER XLN POR, SME W/OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SCAT VIS FRAC POR, ASHY - SFT - MOD HRD, ABNDT DULL YEL FLUOR W/BRT YEL, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

LS: CRM - OFF WHT - TRC LT TAN, VF-F XLN - F CXL, SCAT LITHO, CLN, BUFF - SUB BUFF, PRED SUC, SME OOLITIC, SME W/LT OIL STAIN, SCAT PCS OF SHALE, P-F INTER XLN POR, SME W/OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SCAT VIS FRAC POR, ASHY - SFT - MOD HRD, ABNDT DULL YEL FLUOR W/BRT YEL, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

LS: CRM - OFF WHT - TRC LT TAN, VF-F XLN - F CXL, SCAT LITHO, CLN, BUFF - SUB BUFF, PRED SUC, SME OOLITIC, SME W/LT OIL STAIN, P-F INTER XLN POR, SME W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SCAT VIS FRAC POR, ASHY - SFT - MOD HRD, ABNDT DULL YEL FLUOR W/BRT YEL, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR





4300

4400



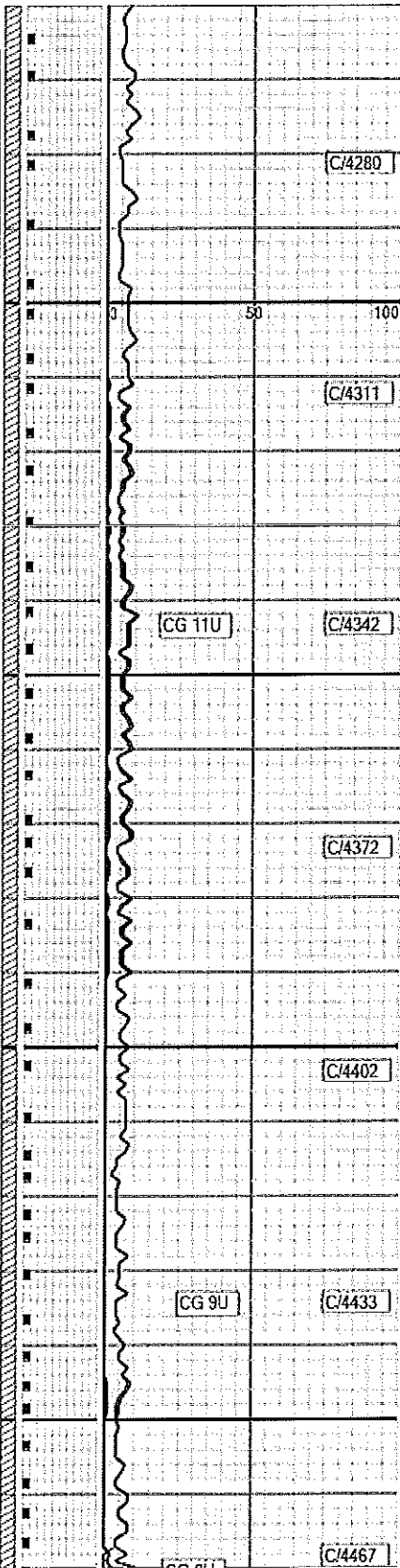
LS; CRM - OFF WHT - TRC LT TAN, VF-F XLN-F CXL, SCAT LITHO, CLN, BUFF - SUB BUFF, PRED SUC, SME OOLITIC, SME W/LT OIL STAIN, P-F INTER XLN POR, SME W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SCAT VIS FRAC POR, ASHY - SFT - MOD HRD, ABNDT DULL YEL FLUOR W/BRT YEL, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

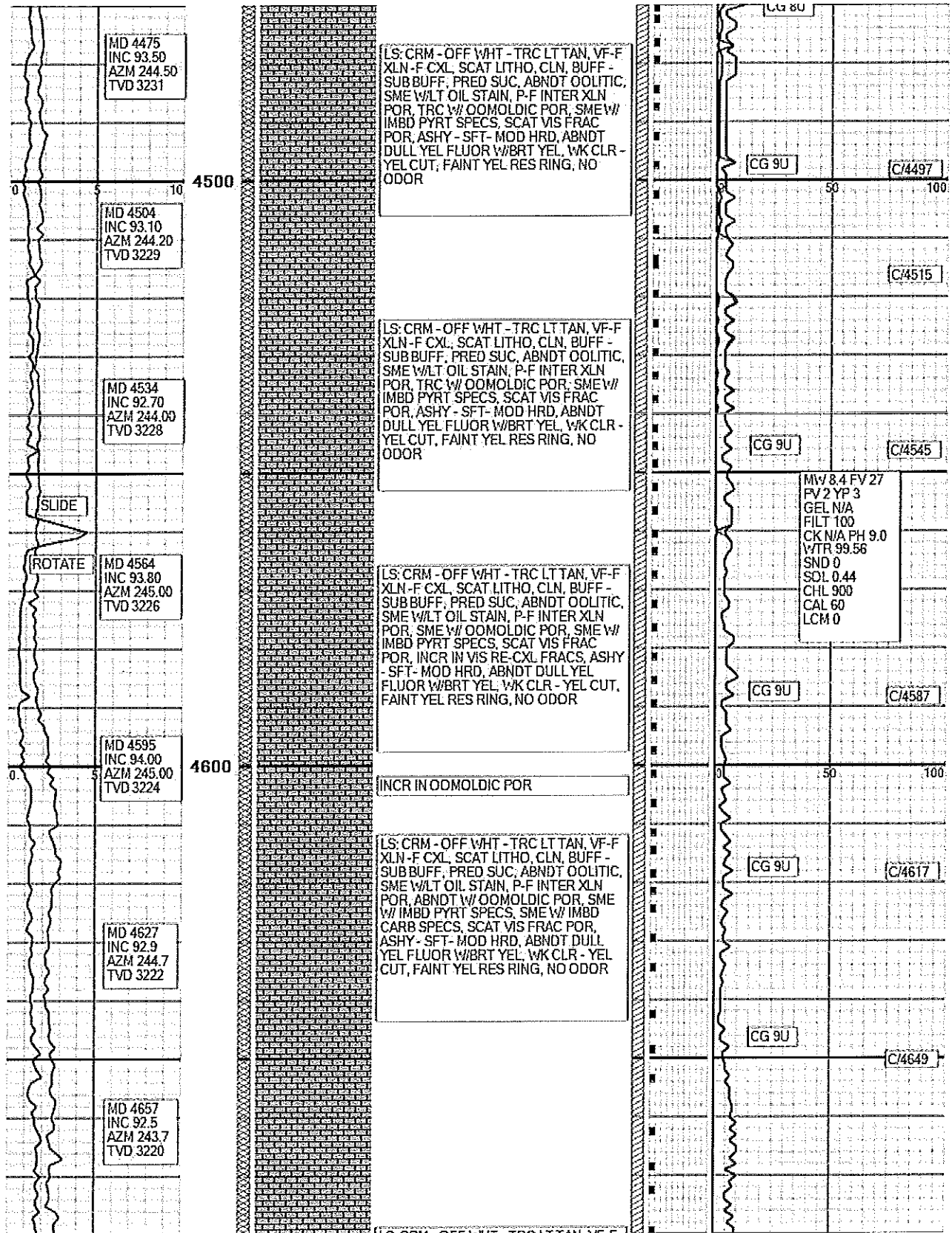
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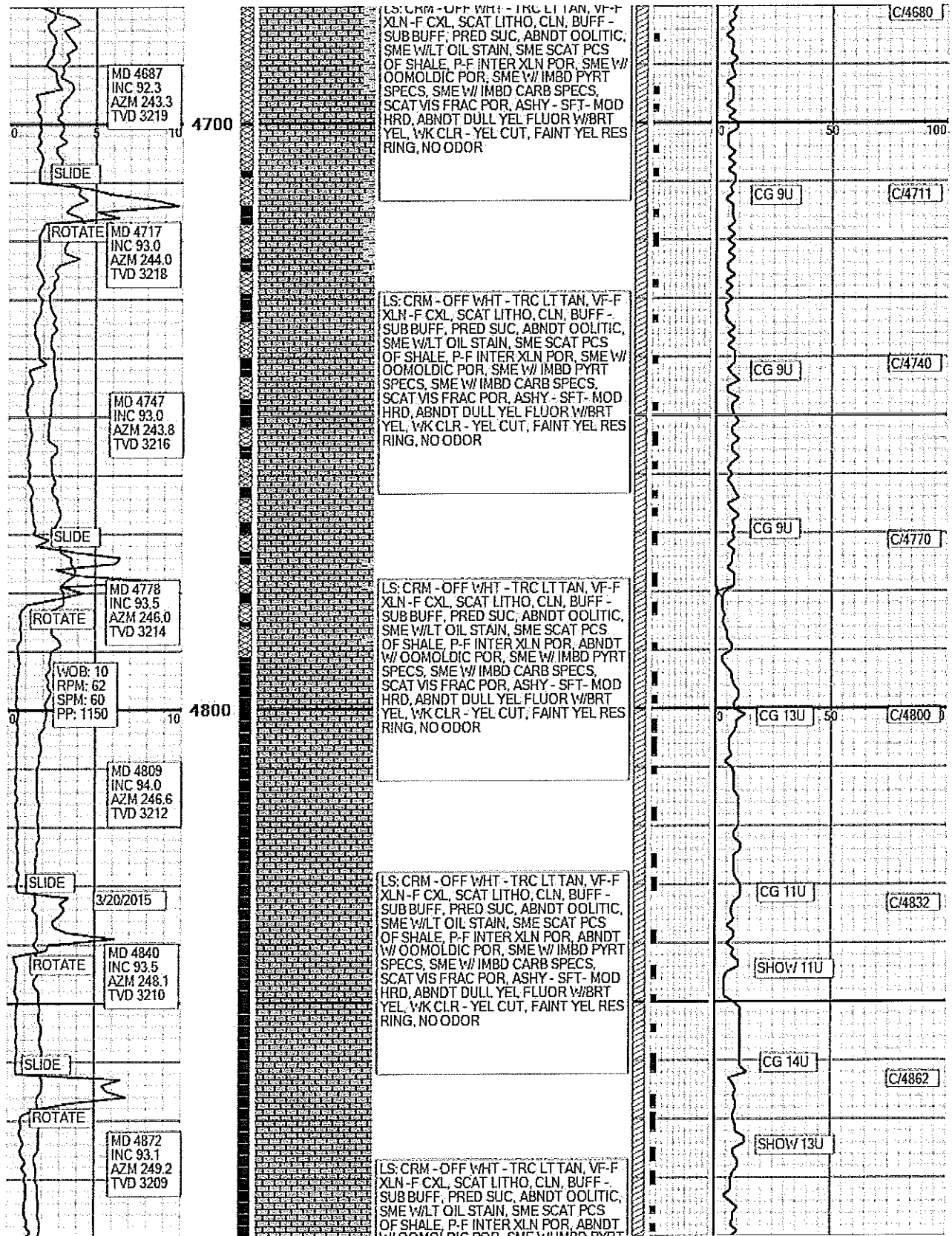
LS; CRM - OFF WHT - TRC LT TAN - LT GRY, VRY MOTT, VF-F XLN-F CXL, SCAT LITHO, CLN, BUFF - SUB BUFF, PRED SUC, ABNDT OOLITIC, SME POS W/LT OIL STAIN, P-F INTER XLN POR, NO VIS OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SCAT VIS FRAC POR, MOD SFT - MOD HRD, ABNDT DULL YEL FLUOR W/TRC BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

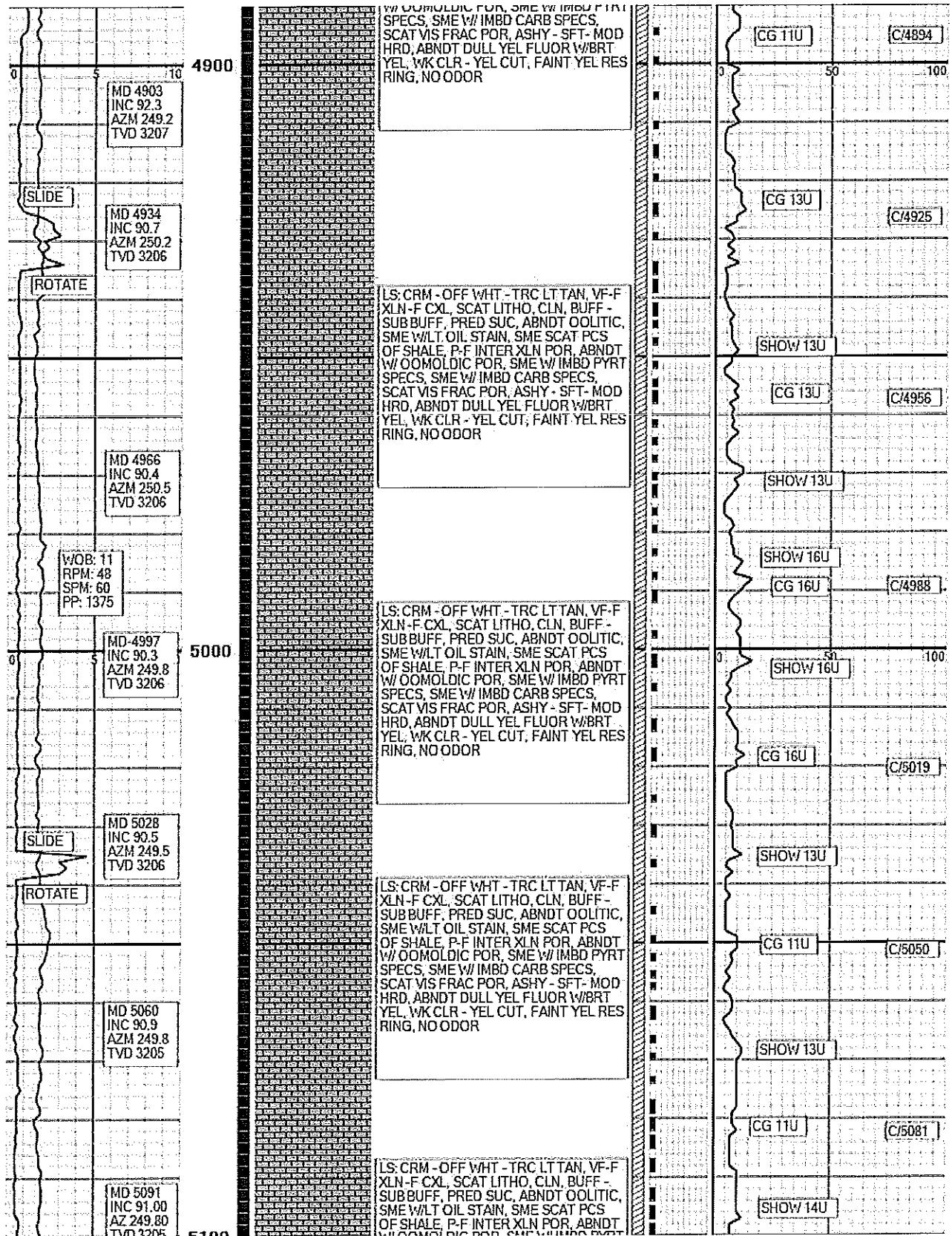
TRC INCR IN OOMOLDIC POR

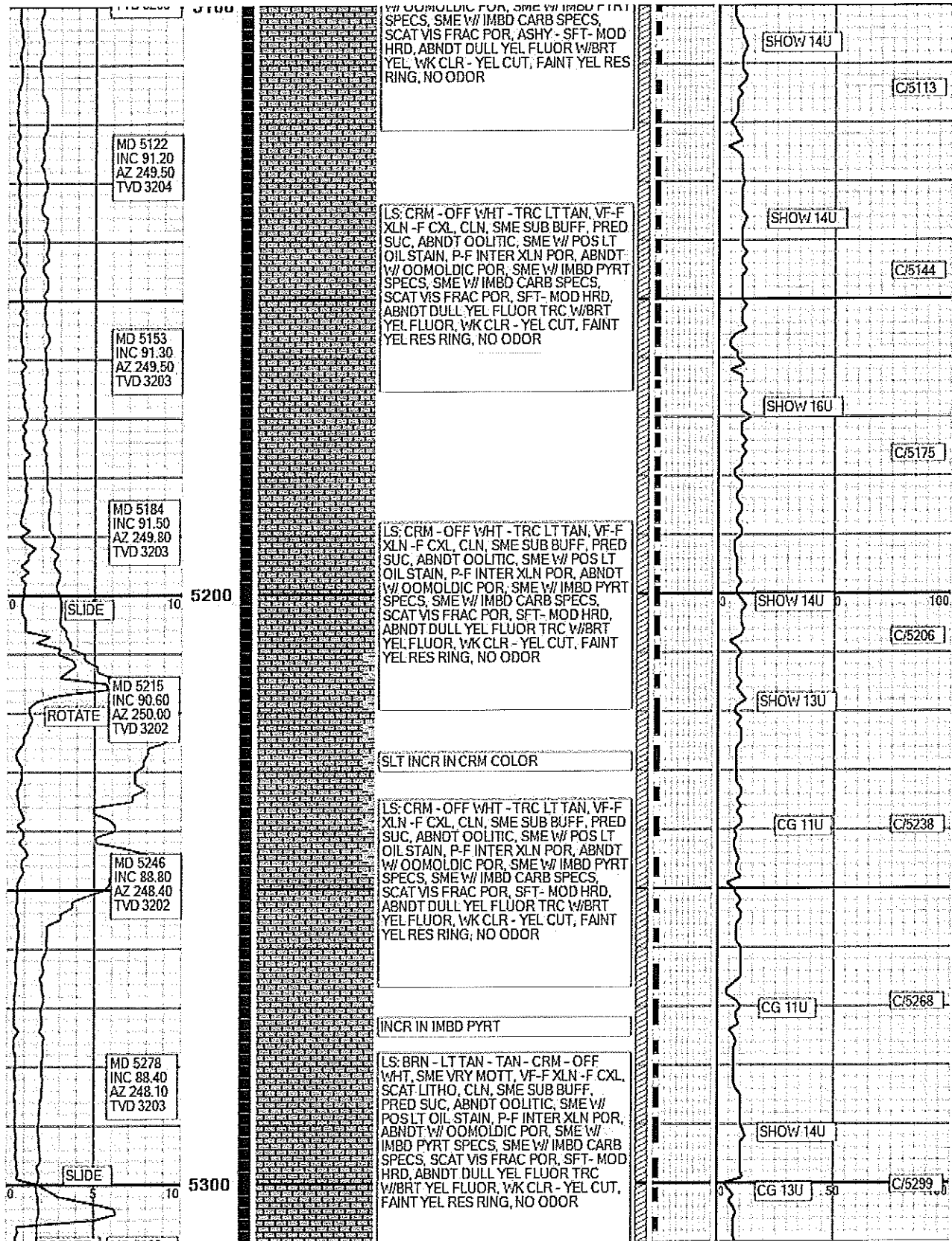
LS; CRM - OFF WHT - TRC LT TAN, VF-F XLN-F CXL, SCAT LITHO, CLN, BUFF - SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/LT OIL STAIN, P-F INTER XLN POR, TRC W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SCAT VIS FRAC POR, ASHY - SFT - MOD HRD, ABNDT DULL YEL FLUOR W/BRT YEL, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

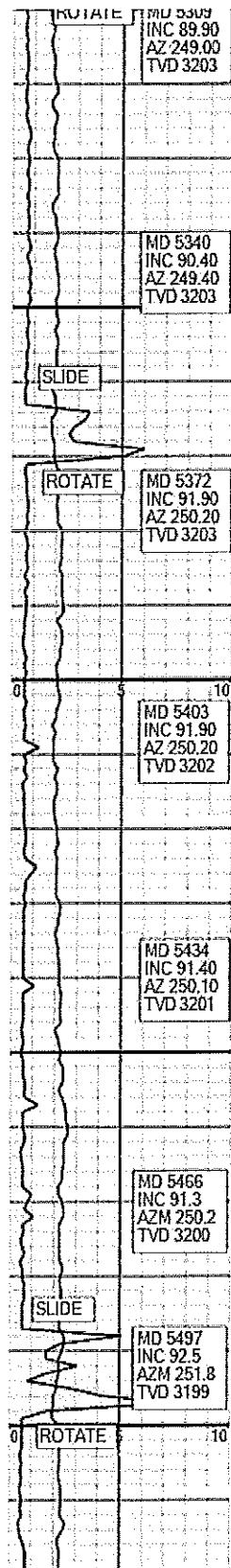












5400

5500

INCR IN LT BRN, DECR IN CRM

LS: BRN - LT TAN - TAN - CRM - OFF WHT, SME VRY MOTT, VF-F XLN - F CXL, SCAT LTHD, CLN, SME SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/ POS LT OIL STAIN, P-F INTER XLN POR, ABNDT W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL FLUOR TRC W/BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

LS: BRN - TAN - CRM - OFF WHT, SME MOTT, VF-F XLN - F CXL, PRED CLN, SME SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/ POS LT OIL STAIN, P-F INTER XLN POR, ABNDT W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL FLUOR TRC W/BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

INCR IN OOMOLDIC POR

LS: PRED BRN - TAN - CRM - OFF WHT, SME MOTT, VF-F XLN - F CXL, PRED CLN, SME SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/ POS LT OIL STAIN, P-F INTER XLN POR, ABNDT W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL FLUOR TRC W/BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

SLT INCR IN BRT YEL FLUOR

LS: PRED BRN - TAN - CRM - OFF WHT, SME MOTT, VF-F XLN - F CXL, PRED CLN, SME SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/ POS LT OIL STAIN, P-F INTER XLN POR, ABNDT W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL FLUOR TRC W/BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

INCR IN LT BRN, DECR IN CRM

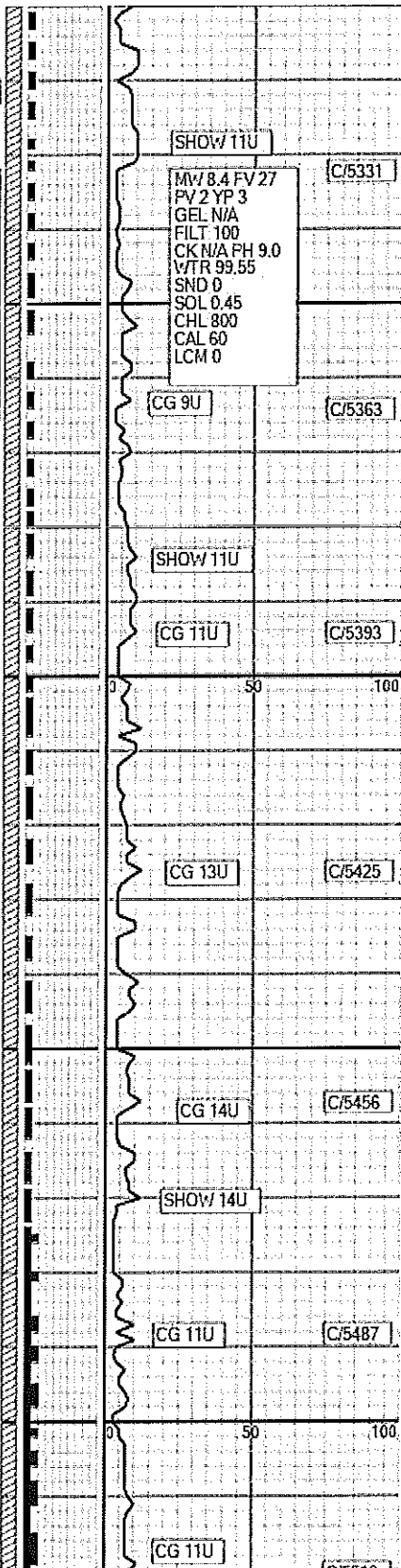
LS: BRN - TAN - CRM - OFF WHT, SME MOTT, VF-F XLN - F CXL, PRED CLN, SME SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/ POS LT OIL STAIN, P-F INTER XLN POR, ABNDT W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL FLUOR TRC W/BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

INCR IN OOMOLDIC POR

LS: PRED BRN - TAN - CRM - OFF WHT, SME MOTT, VF-F XLN - F CXL, PRED CLN, SME SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/ POS LT OIL STAIN, P-F INTER XLN POR, ABNDT W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL FLUOR TRC W/BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

SLT INCR IN BRT YEL FLUOR

LS: PRED BRN - TAN - CRM - OFF WHT, SME MOTT, VF-F XLN - F CXL, PRED CLN, SME SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/ POS LT OIL STAIN, P-F INTER XLN POR, ABNDT W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL FLUOR TRC W/BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR



SHOW 11U

MW 8.4 FV 27
PV 2 YP 3
GEL N/A
FILT 100
CK N/A PH 9.0
WTR 99.55
SND 0
SOL 0.45
CHL 800
CAL 60
LCM 0

CG 9U

SHOW 11U

CG 11U

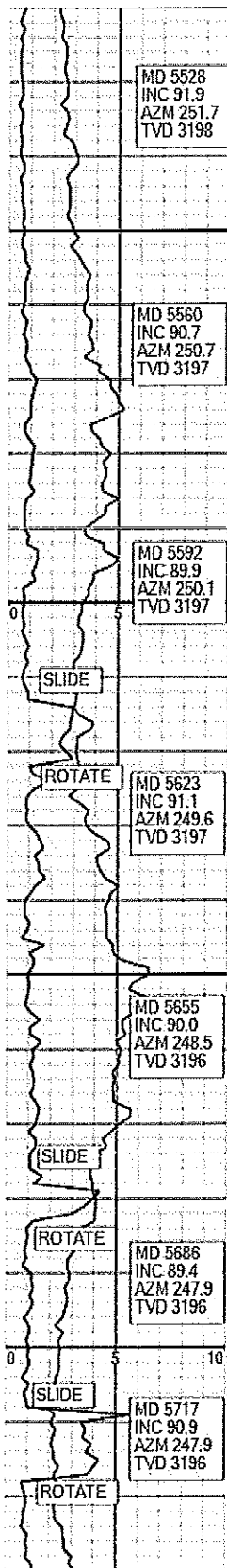
CG 13U

CG 14U

SHOW 14U

CG 11U

CG 11U



5600

5700

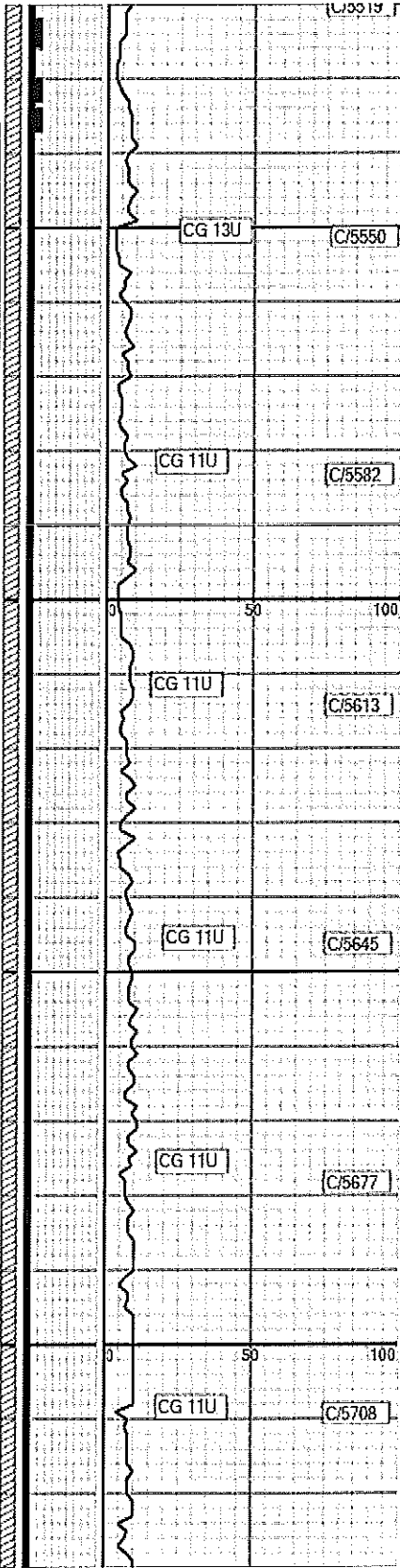
LS: PRED BRN - TAN - CRM - OFF WHT, SME MOTT, VF-F XLN - F CXL, PRED CLN, SME SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/ POS LT OIL STAIN, P-F INTER XLN POR, ABNDT W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL FLUOR TRC W/BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

LS: PRED BRN - TAN - CRM - OFF WHT, SME MOTT, VF-F XLN - F CXL, PRED CLN, SME SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/ POS LT OIL STAIN, P-F INTER XLN POR, ABNDT W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL FLUOR TRC W/BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

LS: PRED BRN - TAN - CRM - OFF WHT, SME MOTT, VF-F XLN - F CXL, PRED CLN, SME SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/ POS LT OIL STAIN, SME SCAT PCS OF SHALE INCLUDED, P-F INTER XLN POR, ABNDT W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL FLUOR TRC W/BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

LS: PRED BRN - TAN - CRM - OFF WHT, SME MOTT, VF-F XLN - F CXL, PRED CLN, SME SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/ POS LT OIL STAIN, SME SCAT PCS OF SHALE INCLUDED, P-F INTER XLN POR, ABNDT W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL FLUOR TRC W/BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR

LS: PRED BRN - TAN - CRM - OFF WHT, SME MOTT, VF-F XLN - F CXL, PRED CLN, SME SUB BUFF, PRED SUC, ABNDT OOLITIC, SME W/ POS LT OIL STAIN, P-F INTER XLN POR, ABNDT W/ OOMOLDIC POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL FLUOR TRC W/BRT YEL FLUOR, WK CLR - YEL CUT, FAINT YEL RES RING, NO ODOR



U3519 F

CG 13U C/5550

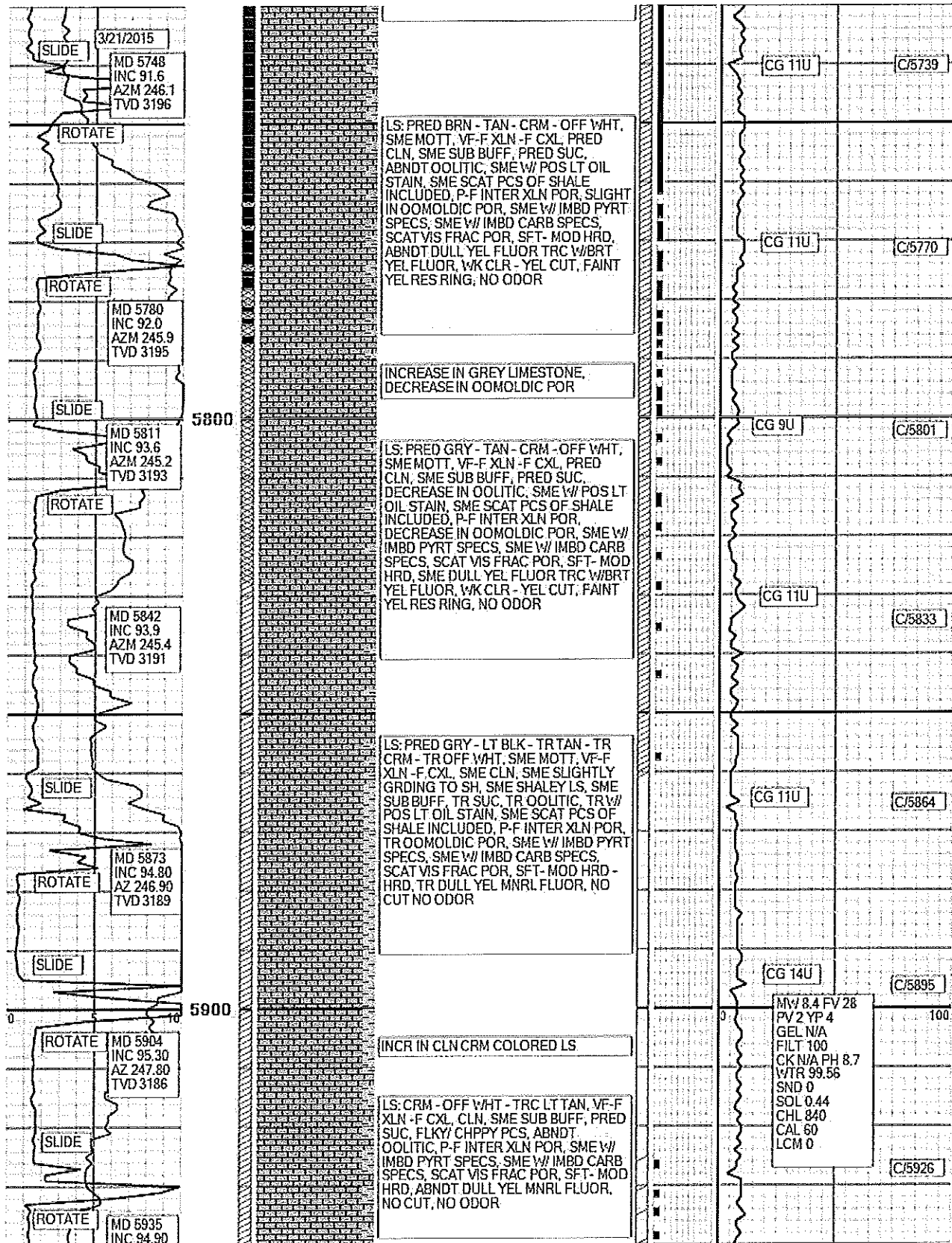
CG 11U C/5582

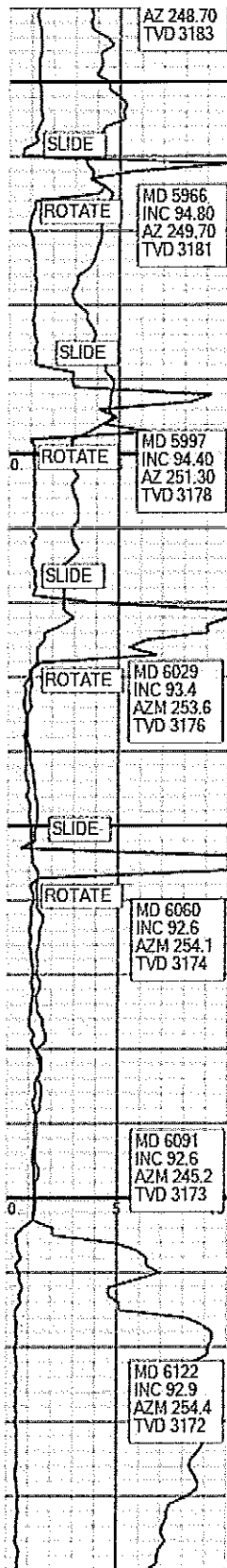
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CG 11U C/5645

CG 11U C/5677

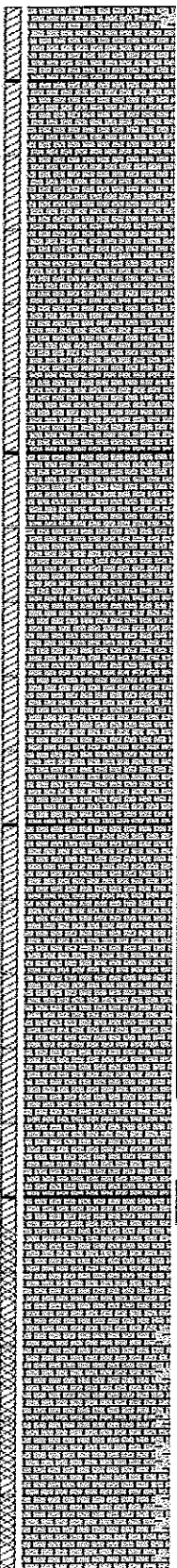
CG 11U C/5708





6000

6100

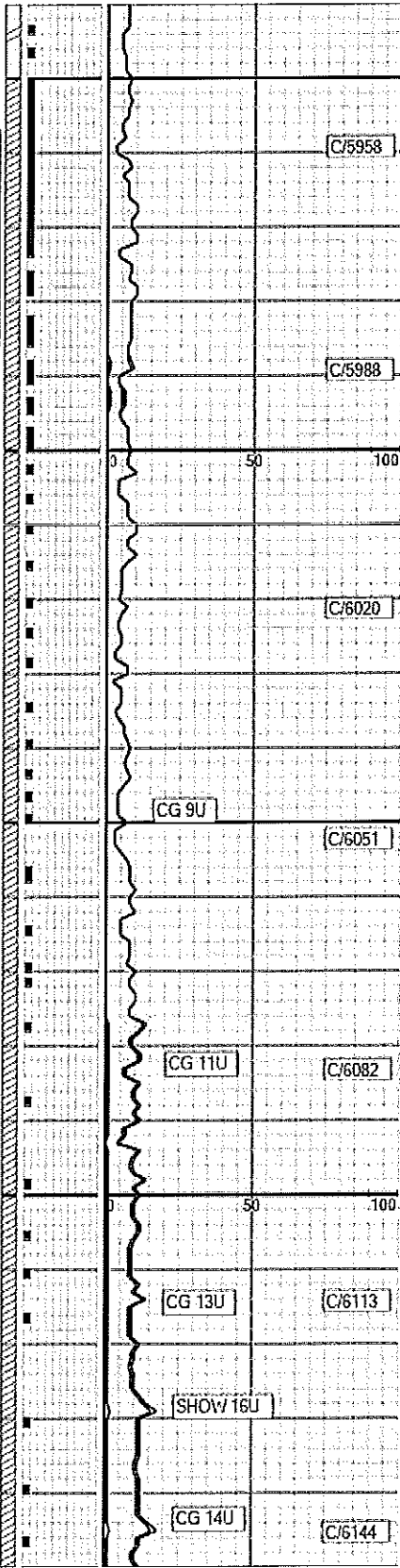


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LS: CRM - OFF WHT - TRC LT TAN - SCAT GRY/BRN, VF-F XLN - F CXL, CLN, SME SUB BUFF, PRED SUC, FLKY/ CHPPY PCS, ABNDT OOLITIC, P-F INTER XLN POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL MNRL FLUOR, TRC BRT YEL OIL FLUOR, TRC CLR YEL CUT, FAINT YEL RES RING. NO ODOR

LS: CRM - OFF WHT - TRC LT TAN - VF-F LS: CRM - OFF WHT - TRC LT TAN - SCAT GRY/BRN, VF-F XLN - F CXL, CLN, SME SUB BUFF, PRED SUC, FLKY/ CHPPY PCS, ABNDT OOLITIC, P-F INTER XLN POR, SME W/ IMBD PYRT SPECS, SME W/ IMBD CARB SPECS, SCAT VIS FRAC POR, SFT- MOD HRD, ABNDT DULL YEL MNRL FLUOR, TRC BRT YEL OIL FLUOR, TRC CLR YEL CUT, FAINT YEL RES RING. NO ODOR

INCR IN BRN COLOR AND INCR IN OOLMOLDIC POR



C/5958

C/5988

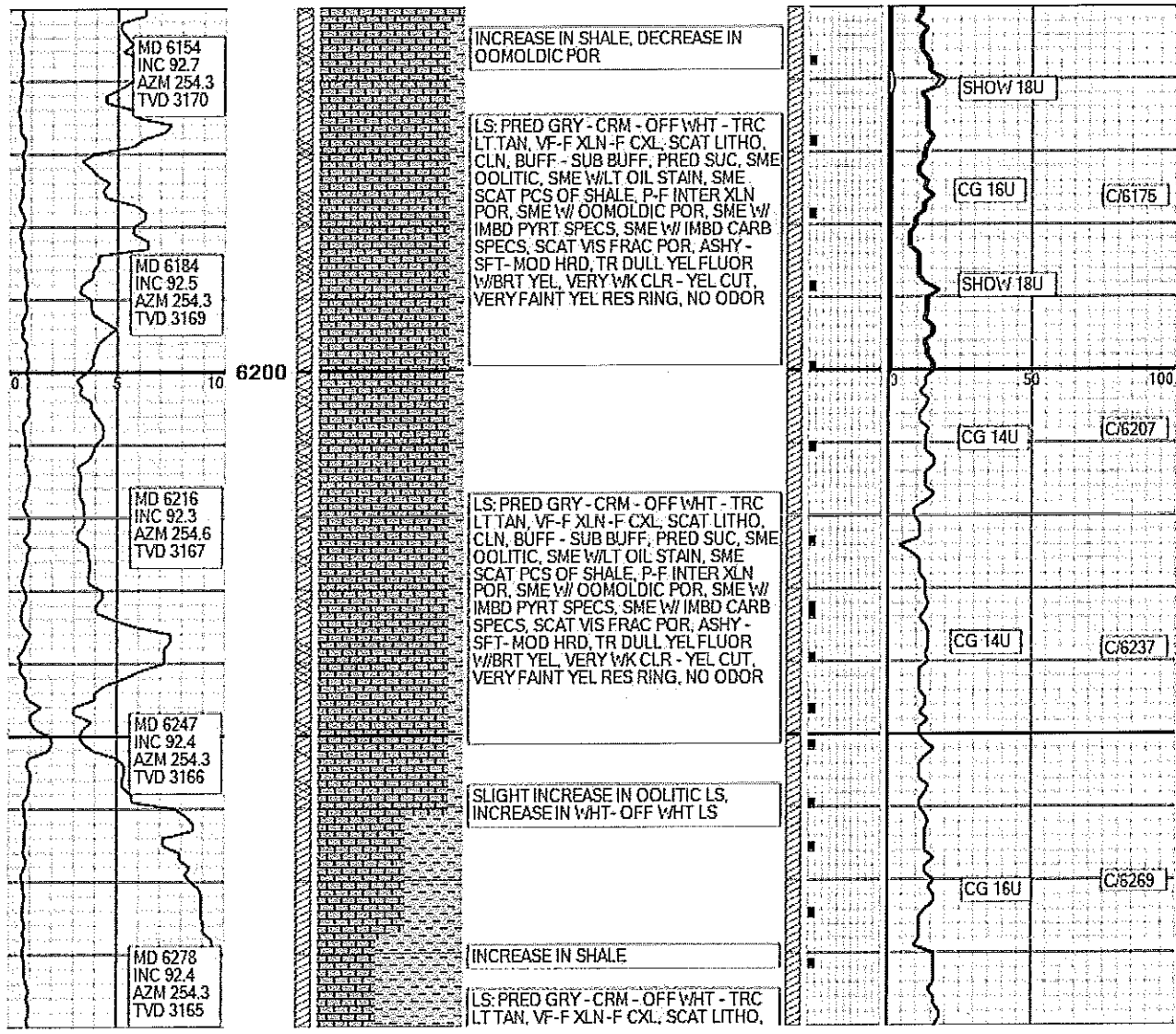
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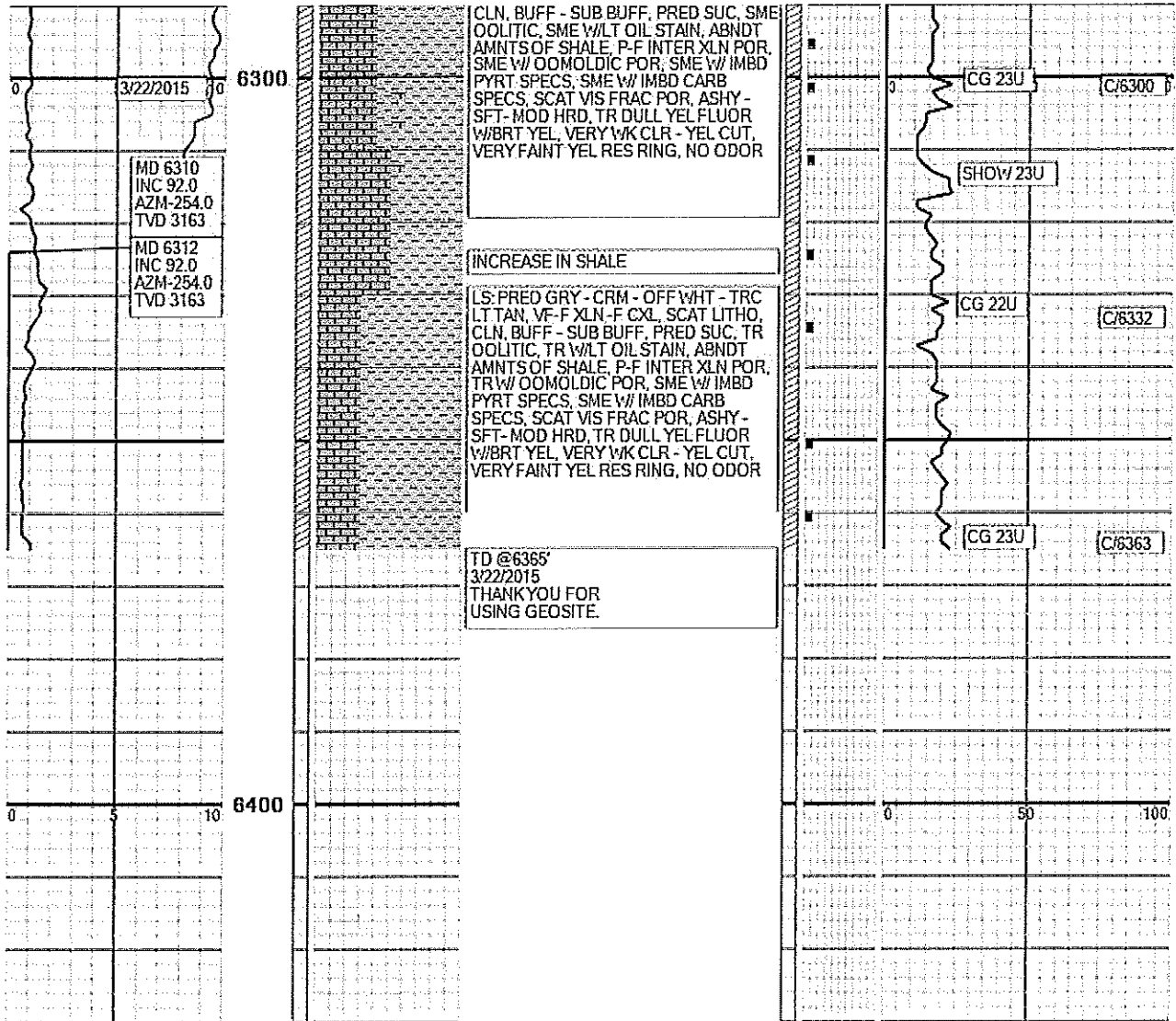
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C/6082

C/6113

C/6144



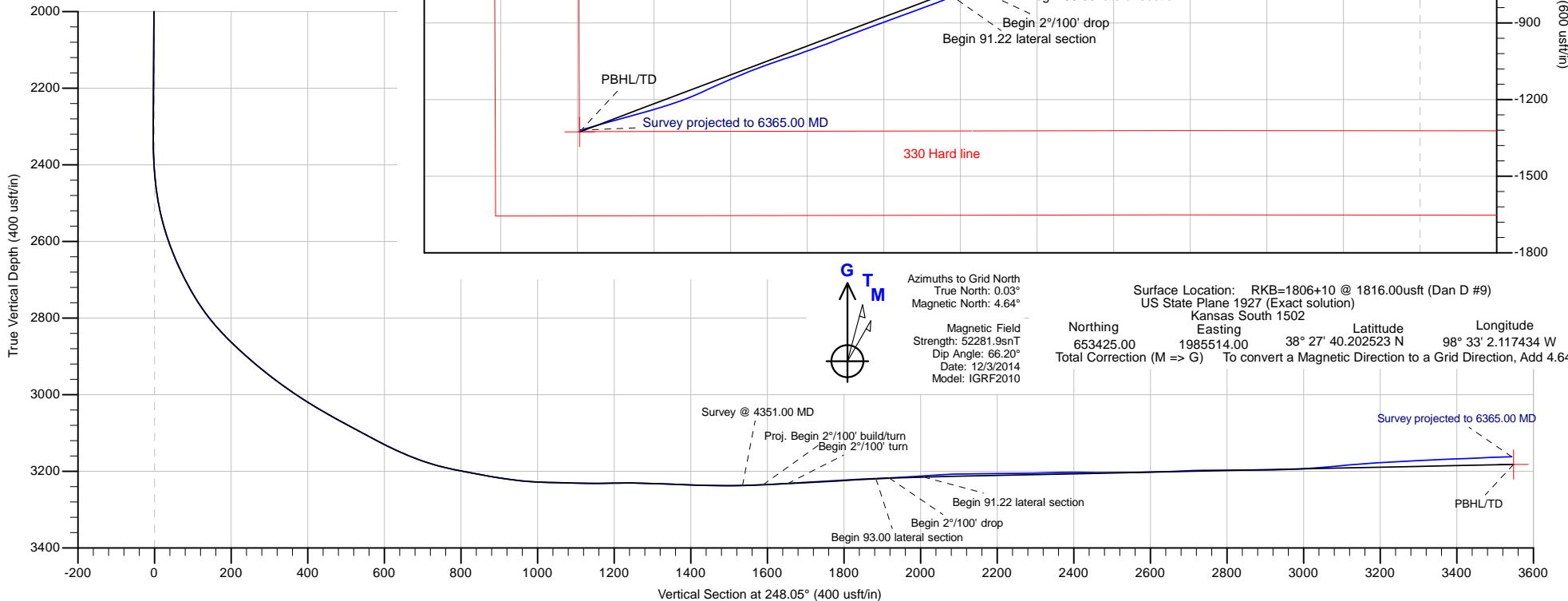
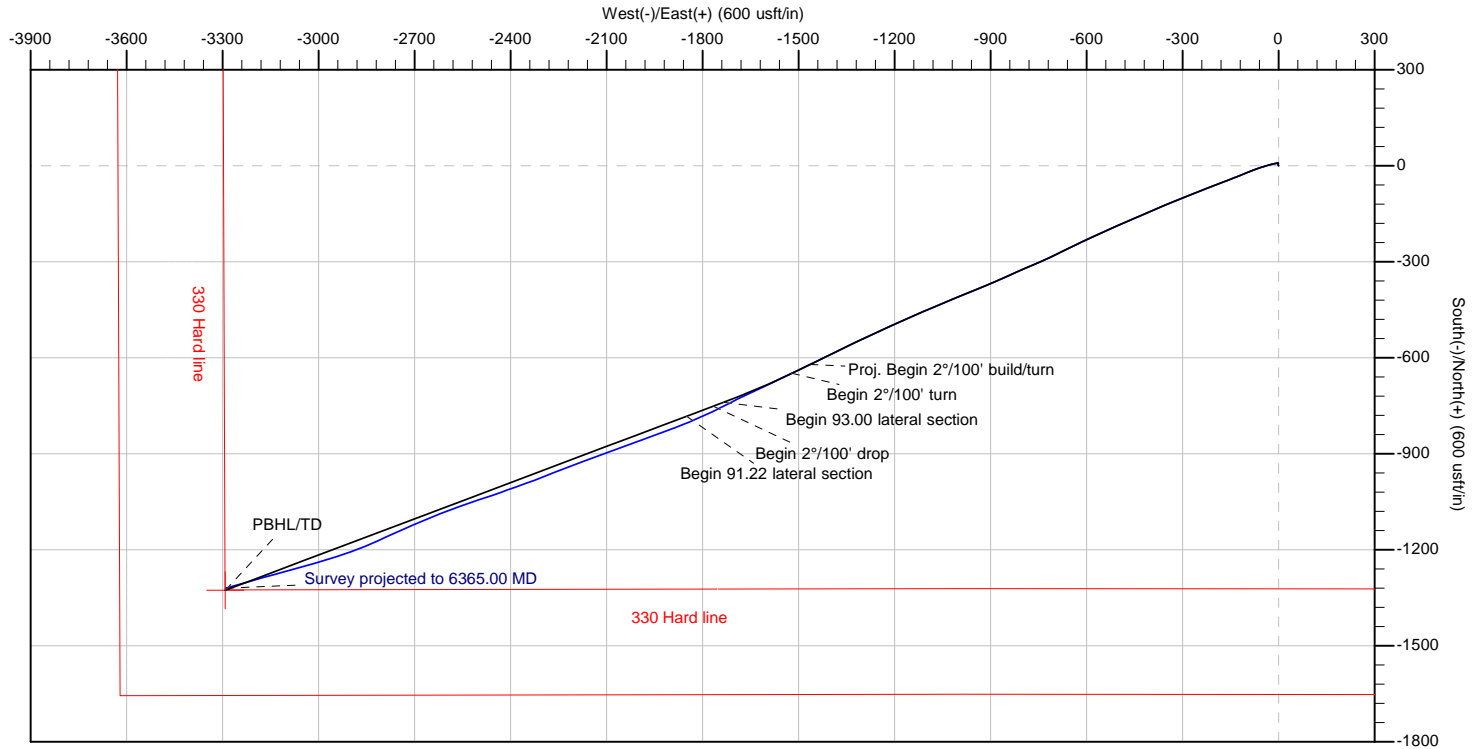


Gulf Exploration LLC

Well: Robl 1-29H
 Site: Blood Creek Prospect
 Project: Barton County, Kansas
 Design: rev6
 Rig: Dan D #9

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	4351.00	92.10	243.80	3236.91	-596.83	-1414.73	0.00	0.00	1535.27	Survey @ 4351.00 MD
2	4405.00	92.10	243.80	3234.93	-620.66	-1463.15	0.00	0.00	1589.09	Proj. Begin 2°/100' build/turn
3	4469.00	93.00	244.71	3232.08	-648.43	-1520.74	2.00	45.00	1652.88	Begin 2°/100' turn
4	4700.50	93.00	249.34	3219.95	-738.66	-1733.52	2.00	90.00	1883.96	Begin 93.00 lateral section
5	4735.50	93.00	249.34	3218.11	-750.99	-1766.22	0.00	0.00	1918.91	Begin 2°/100' drop
6	4824.71	91.22	249.34	3214.82	-782.45	-1849.63	2.00	179.94	2008.03	Begin 91.22 lateral section
7	6365.51	91.22	249.34	3182.00	-1326.00	-3291.00	0.00	0.00	3548.09	PBHL/TD

ANNOTATIONS									
TVD	MD	Inc	Azi	+N/-S	+E/-W	VSect	Departure	Annotation	
546.00	546.00	0.00	171.20	0.00	0.00	0.00	0.00	MWD surveys	
3162.07	6365.00	92.00	254.00	-1319.66	-3288.73	3543.62	3561.25	Survey projected to 6365.00 MD	



Azimuths to Grid North
 True North: 0.03°
 Magnetic North: 4.64°
 Magnetic Field
 Strength: 52281.9snT
 Dip Angle: 66.20°
 Date: 12/3/2014
 Model: IGRF2010

Surface Location: RKB=1806+10 @ 1816.00usft (Dan D #9)
 US State Plane 1927 (Exact solution)
 Kansas South 1502
 Northing: 653425.00
 Easting: 1985514.00
 Latitude: 38° 27' 40.202523 N
 Longitude: 98° 33' 2.117434 W
 Total Correction (M => G) To convert a Magnetic Direction to a Grid Direction, Add 4.64°

Standard_report

Company:	Gulf Exploration LLC	Local Co-ordinate Reference:	Well Robl 1-29H
Project:	Barton County, Kansas	TVD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Site:	Blood Creek Prospect	MD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Well:	Robl 1-29H	North Reference:	Grid
Wellbore:	Original hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original hole	Database:	Dbase Nov0914

Project	Barton County, Kansas		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Kansas South 1502		

Site	Blood Creek Prospect				
Site Position:	Northing:	667,658.96 usft	Latitude:	38° 30' 0.000000 N	
From:	Lat/Long	Easting:	1,928,450.13 usft	Longitude:	98° 45' 0.000000 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	-0.15 °

Well	Robl 1-29H, Surf Loc: Sect 28					
Well Position	+N/-S	0.00 usft	Northing:	653,425.00 usft	Latitude:	38° 27' 40.202523 N
	+E/-W	0.00 usft	Easting:	1,985,514.00 usft	Longitude:	98° 33' 2.117434 W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	1,806.00 usft

Wellbore	Original hole				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	12/3/2014	4.61	66.20	52,282

Design	Surveys Original hole				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	248.05	

Survey Program	Date	3/22/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
546.00	6,365.00	MWD (Original hole)	MWD	MWD - Standard

Standard_report

Company:	Gulf Exploration LLC	Local Co-ordinate Reference:	Well Robl 1-29H
Project:	Barton County, Kansas	TVD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Site:	Blood Creek Prospect	MD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Well:	Robl 1-29H	North Reference:	Grid
Wellbore:	Original hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original hole	Database:	Dbase Nov0914

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	653,425.00	1,985,514.00	
546.00	0.00	171.20	546.00	0.00	0.00	0.00	0.00	653,425.00	1,985,514.00	
MWD surveys										
1,046.00	0.00	182.30	1,046.00	0.00	0.00	0.00	0.00	653,425.00	1,985,514.00	
1,545.00	0.60	344.90	1,544.99	2.52	-0.68	0.12	-0.31	653,427.52	1,985,513.32	
1,920.00	0.50	8.80	1,919.97	6.04	-0.94	0.07	-1.38	653,431.04	1,985,513.06	
2,288.00	0.30	42.80	2,287.97	8.33	-0.04	0.08	-3.07	653,433.33	1,985,513.96	
2,326.00	0.30	316.50	2,325.97	8.47	-0.04	1.08	-3.13	653,433.47	1,985,513.96	
2,357.00	0.70	280.10	2,356.96	8.57	-0.28	1.59	-2.94	653,433.57	1,985,513.72	
2,389.00	3.00	268.80	2,388.95	8.58	-1.31	7.24	-1.99	653,433.58	1,985,512.69	
2,420.00	4.90	263.10	2,419.87	8.41	-3.44	6.25	0.05	653,433.41	1,985,510.56	
2,452.00	6.90	261.50	2,451.70	7.96	-6.70	6.27	3.24	653,432.96	1,985,507.30	
2,483.00	9.10	259.40	2,482.40	7.23	-10.95	7.16	7.45	653,432.23	1,985,503.05	
2,514.00	11.60	257.00	2,512.89	6.08	-16.40	8.18	12.94	653,431.08	1,985,497.60	
2,545.00	14.30	255.60	2,543.10	4.43	-23.14	8.77	19.81	653,429.43	1,985,490.86	
2,576.00	17.10	254.90	2,572.94	2.29	-31.25	9.05	28.13	653,427.29	1,985,482.75	
2,608.00	19.70	254.10	2,603.30	-0.42	-40.98	8.16	38.17	653,424.58	1,985,473.02	
2,640.00	22.20	252.60	2,633.18	-3.70	-51.94	7.99	49.56	653,421.30	1,985,462.06	
2,671.00	24.50	250.60	2,661.64	-7.59	-63.60	7.85	61.82	653,417.41	1,985,450.40	
2,702.00	25.90	249.00	2,689.69	-12.15	-75.98	5.02	75.01	653,412.85	1,985,438.02	
2,732.00	28.30	247.70	2,716.40	-17.20	-88.68	8.24	88.68	653,407.80	1,985,425.32	
2,763.00	31.20	247.40	2,743.31	-23.07	-102.89	9.37	104.06	653,401.93	1,985,411.11	
2,794.00	34.20	247.70	2,769.39	-29.47	-118.37	9.69	120.80	653,395.53	1,985,395.63	
2,826.00	37.30	248.70	2,795.36	-36.40	-135.73	9.86	139.50	653,388.60	1,985,378.27	
2,857.00	41.10	249.30	2,819.38	-43.42	-154.02	12.32	159.08	653,381.58	1,985,359.98	
2,889.00	43.60	249.20	2,843.02	-51.06	-174.18	7.82	180.63	653,373.94	1,985,339.82	
2,920.00	45.70	249.00	2,865.08	-58.83	-194.53	6.79	202.42	653,366.17	1,985,319.47	

Standard_report

Company:	Gulf Exploration LLC	Local Co-ordinate Reference:	Well Robl 1-29H
Project:	Barton County, Kansas	TVD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Site:	Blood Creek Prospect	MD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Well:	Robl 1-29H	North Reference:	Grid
Wellbore:	Original hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original hole	Database:	Dbase Nov0914

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
2,951.00	47.60	248.70	2,886.36	-66.96	-215.55	6.17	224.95	653,358.04	1,985,298.45	
2,982.00	49.30	248.60	2,906.92	-75.41	-237.16	5.49	248.15	653,349.59	1,985,276.84	
3,014.00	50.60	248.50	2,927.51	-84.37	-259.95	4.07	272.65	653,340.63	1,985,254.05	
3,045.00	51.80	248.20	2,946.93	-93.28	-282.41	3.94	296.80	653,331.72	1,985,231.59	
3,076.00	53.20	248.20	2,965.80	-102.41	-305.24	4.52	321.40	653,322.59	1,985,208.76	
3,107.00	54.90	247.40	2,984.00	-111.90	-328.48	5.87	346.49	653,313.10	1,985,185.52	
3,139.00	56.40	246.60	3,002.06	-122.22	-352.79	5.12	372.91	653,302.78	1,985,161.21	
3,170.00	57.80	246.80	3,018.90	-132.52	-376.70	4.55	398.93	653,292.48	1,985,137.30	
3,202.00	59.50	246.50	3,035.54	-143.35	-401.79	5.37	426.25	653,281.65	1,985,112.21	
3,233.00	60.80	246.50	3,050.97	-154.07	-426.44	4.19	453.12	653,270.93	1,985,087.56	
3,264.00	61.00	246.50	3,066.05	-164.87	-451.28	0.65	480.20	653,260.13	1,985,062.72	
3,295.00	61.50	246.60	3,080.96	-175.69	-476.22	1.64	507.37	653,249.31	1,985,037.78	
3,326.00	61.90	246.60	3,095.66	-186.53	-501.27	1.29	534.65	653,238.47	1,985,012.73	
3,357.00	62.10	246.70	3,110.21	-197.37	-526.40	0.71	562.02	653,227.63	1,984,987.60	
3,389.00	62.40	246.30	3,125.11	-208.67	-552.37	1.45	590.33	653,216.33	1,984,961.63	
3,420.00	64.30	245.50	3,139.01	-219.98	-577.66	6.55	618.01	653,205.02	1,984,936.34	
3,451.00	66.40	244.50	3,151.94	-231.89	-603.19	7.38	646.14	653,193.11	1,984,910.81	
3,482.00	68.40	243.70	3,163.86	-244.39	-628.93	6.88	674.69	653,180.61	1,984,885.07	
3,513.00	71.30	243.40	3,174.53	-257.35	-654.99	9.40	703.70	653,167.65	1,984,859.01	
3,544.00	74.30	244.00	3,183.70	-270.47	-681.53	9.85	733.23	653,154.53	1,984,832.47	
3,576.00	77.20	244.90	3,191.58	-283.84	-709.51	9.46	764.18	653,141.16	1,984,804.49	
3,607.00	78.90	245.90	3,197.99	-296.47	-737.09	6.33	794.47	653,128.53	1,984,776.91	
3,638.00	79.30	246.40	3,203.86	-308.78	-764.93	2.04	824.90	653,116.22	1,984,749.07	
3,669.00	79.60	246.40	3,209.53	-320.98	-792.85	0.97	855.36	653,104.02	1,984,721.15	
3,700.00	80.10	246.30	3,214.99	-333.22	-820.81	1.64	885.86	653,091.78	1,984,693.19	
3,731.00	81.70	246.30	3,219.90	-345.52	-848.83	5.16	916.46	653,079.48	1,984,665.17	
3,763.00	83.90	246.40	3,223.91	-358.26	-877.91	6.88	948.19	653,066.74	1,984,636.09	

Standard_report

Company:	Gulf Exploration LLC	Local Co-ordinate Reference:	Well Robl 1-29H
Project:	Barton County, Kansas	TVD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Site:	Blood Creek Prospect	MD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Well:	Robl 1-29H	North Reference:	Grid
Wellbore:	Original hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original hole	Database:	Dbase Nov0914

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
3,769.00	84.20	246.50	3,224.53	-360.64	-883.38	5.27	954.15	653,064.36	1,984,630.62	
3,831.00	88.10	247.50	3,228.69	-384.81	-940.31	6.49	1,015.99	653,040.19	1,984,573.69	
3,861.00	89.00	248.30	3,229.45	-396.09	-968.10	4.01	1,045.98	653,028.91	1,984,545.90	
3,891.00	88.70	248.00	3,230.05	-407.25	-995.94	1.41	1,075.97	653,017.75	1,984,518.06	
3,922.00	88.00	247.80	3,230.95	-418.91	-1,024.65	2.35	1,106.96	653,006.09	1,984,489.35	
3,952.00	88.40	246.90	3,231.89	-430.46	-1,052.32	3.28	1,136.94	652,994.54	1,984,461.68	
3,982.00	91.90	246.70	3,231.81	-442.27	-1,079.89	11.69	1,166.93	652,982.73	1,984,434.11	
4,013.00	92.30	246.70	3,230.67	-454.53	-1,108.35	1.29	1,197.90	652,970.47	1,984,405.65	
4,043.00	89.80	245.90	3,230.12	-466.58	-1,135.81	8.75	1,227.88	652,958.42	1,984,378.19	
4,074.00	88.10	245.40	3,230.69	-479.36	-1,164.04	5.72	1,258.85	652,945.64	1,984,349.96	
4,104.00	88.20	246.10	3,231.66	-491.68	-1,191.38	2.36	1,288.81	652,933.32	1,984,322.62	
4,135.00	88.20	246.10	3,232.63	-504.23	-1,219.71	0.00	1,319.77	652,920.77	1,984,294.29	
4,165.00	87.90	245.50	3,233.66	-516.52	-1,247.06	2.24	1,349.73	652,908.48	1,984,266.94	
4,195.00	87.20	244.90	3,234.94	-529.09	-1,274.27	3.07	1,379.67	652,895.91	1,984,239.73	
4,226.00	88.10	244.80	3,236.21	-542.25	-1,302.30	2.92	1,410.59	652,882.75	1,984,211.70	
4,258.00	89.20	244.50	3,236.96	-555.95	-1,331.21	3.56	1,442.53	652,869.05	1,984,182.79	
4,289.00	89.10	243.60	3,237.42	-569.52	-1,359.09	2.92	1,473.45	652,855.48	1,984,154.91	
4,319.00	90.30	244.00	3,237.58	-582.76	-1,386.00	4.22	1,503.37	652,842.24	1,984,128.00	
4,351.00	92.10	243.80	3,236.91	-596.83	-1,414.73	5.66	1,535.27	652,828.17	1,984,099.27	
4,383.00	91.50	243.90	3,235.90	-610.93	-1,443.44	1.90	1,567.17	652,814.07	1,984,070.56	
4,414.00	92.40	244.00	3,234.85	-624.54	-1,471.28	2.92	1,598.07	652,800.46	1,984,042.72	
4,444.00	93.90	244.70	3,233.20	-637.50	-1,498.28	5.52	1,627.97	652,787.50	1,984,015.72	
4,475.00	93.50	244.50	3,231.20	-650.77	-1,526.22	1.44	1,658.84	652,774.23	1,983,987.78	
4,504.00	93.10	244.20	3,229.53	-663.30	-1,552.32	1.72	1,687.74	652,761.70	1,983,961.68	
4,534.00	92.70	244.00	3,228.01	-676.39	-1,579.27	1.49	1,717.63	652,748.61	1,983,934.73	
4,564.00	93.80	245.00	3,226.31	-689.29	-1,606.31	4.95	1,747.52	652,735.71	1,983,907.69	
4,595.00	94.00	245.00	3,224.20	-702.36	-1,634.34	0.65	1,778.40	652,722.64	1,983,879.66	

Standard_report

Company:	Gulf Exploration LLC	Local Co-ordinate Reference:	Well Robl 1-29H
Project:	Barton County, Kansas	TVD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Site:	Blood Creek Prospect	MD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Well:	Robl 1-29H	North Reference:	Grid
Wellbore:	Original hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original hole	Database:	Dbase Nov0914

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
4,627.00	92.90	244.70	3,222.28	-715.93	-1,663.25	3.56	1,810.30	652,709.07	1,983,850.75	
4,657.00	92.50	243.70	3,220.87	-728.97	-1,690.23	3.59	1,840.19	652,696.03	1,983,823.77	
4,687.00	92.30	243.30	3,219.61	-742.35	-1,717.05	1.49	1,870.07	652,682.65	1,983,796.95	
4,717.00	93.00	244.00	3,218.22	-755.65	-1,743.91	3.30	1,899.95	652,669.35	1,983,770.09	
4,747.00	93.00	243.80	3,216.65	-768.83	-1,770.81	0.67	1,929.83	652,656.17	1,983,743.19	
4,778.00	93.50	246.00	3,214.89	-781.96	-1,798.84	7.27	1,960.73	652,643.04	1,983,715.16	
4,809.00	94.00	246.60	3,212.87	-794.39	-1,827.16	2.52	1,991.65	652,630.61	1,983,686.84	
4,840.00	93.50	248.10	3,210.84	-806.30	-1,855.71	5.09	2,022.58	652,618.70	1,983,658.29	
4,872.00	93.10	249.20	3,209.00	-817.93	-1,885.46	3.65	2,054.53	652,607.07	1,983,628.54	
4,903.00	92.30	249.20	3,207.54	-828.93	-1,914.41	2.58	2,085.49	652,596.07	1,983,599.59	
4,934.00	90.70	250.20	3,206.73	-839.68	-1,943.47	6.09	2,116.46	652,585.32	1,983,570.53	
4,966.00	90.40	250.50	3,206.42	-850.44	-1,973.61	1.33	2,148.44	652,574.56	1,983,540.39	
4,997.00	90.30	249.80	3,206.23	-860.97	-2,002.77	2.28	2,179.41	652,564.03	1,983,511.23	
5,028.00	90.50	249.80	3,206.01	-871.67	-2,031.86	0.65	2,210.40	652,553.33	1,983,482.14	
5,060.00	90.90	249.80	3,205.62	-882.72	-2,061.89	1.25	2,242.38	652,542.28	1,983,452.11	
5,091.00	91.00	249.80	3,205.11	-893.42	-2,090.98	0.32	2,273.36	652,531.58	1,983,423.02	
5,122.00	91.20	249.50	3,204.51	-904.20	-2,120.04	1.16	2,304.34	652,520.80	1,983,393.96	
5,153.00	91.30	249.50	3,203.84	-915.05	-2,149.07	0.32	2,335.33	652,509.95	1,983,364.93	
5,184.00	91.50	249.80	3,203.08	-925.83	-2,178.12	1.16	2,366.31	652,499.17	1,983,335.88	
5,215.00	90.60	250.00	3,202.51	-936.48	-2,207.23	2.97	2,397.28	652,488.52	1,983,306.77	
5,246.00	88.80	248.40	3,202.67	-947.49	-2,236.21	7.77	2,428.28	652,477.51	1,983,277.79	
5,278.00	88.40	248.10	3,203.45	-959.34	-2,265.92	1.56	2,460.27	652,465.66	1,983,248.08	
5,309.00	89.90	249.00	3,203.91	-970.68	-2,294.77	5.64	2,491.26	652,454.32	1,983,219.23	
5,340.00	90.40	249.40	3,203.83	-981.69	-2,323.75	2.07	2,522.25	652,443.31	1,983,190.25	
5,372.00	91.90	250.20	3,203.19	-992.73	-2,353.77	5.31	2,554.23	652,432.27	1,983,160.23	
5,403.00	91.90	250.20	3,202.16	-1,003.23	-2,382.92	0.00	2,585.19	652,421.77	1,983,131.08	
5,434.00	91.40	250.10	3,201.27	-1,013.75	-2,412.07	1.64	2,616.16	652,411.25	1,983,101.93	

Standard_report

Company:	Gulf Exploration LLC	Local Co-ordinate Reference:	Well Robl 1-29H
Project:	Barton County, Kansas	TVD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Site:	Blood Creek Prospect	MD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Well:	Robl 1-29H	North Reference:	Grid
Wellbore:	Original hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original hole	Database:	Dbase Nov0914

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)		
5,466.00	91.30	250.20	3,200.52	-1,024.61	-2,442.16	0.44	2,648.13	652,400.39	1,983,071.84		
5,497.00	92.50	251.80	3,199.49	-1,034.70	-2,471.45	6.45	2,679.07	652,390.30	1,983,042.55		
5,528.00	91.90	251.70	3,198.30	-1,044.40	-2,500.87	1.96	2,709.98	652,380.60	1,983,013.13		
5,560.00	90.70	250.70	3,197.57	-1,054.71	-2,531.16	4.88	2,741.92	652,370.29	1,982,982.84		
5,592.00	89.90	250.10	3,197.41	-1,065.45	-2,561.30	3.12	2,773.89	652,359.55	1,982,952.70		
5,623.00	91.10	249.60	3,197.13	-1,076.12	-2,590.40	4.19	2,804.88	652,348.88	1,982,923.60		
5,655.00	90.00	248.50	3,196.83	-1,087.56	-2,620.28	4.86	2,836.87	652,337.44	1,982,893.72		
5,686.00	89.40	247.90	3,196.99	-1,099.08	-2,649.07	2.74	2,867.87	652,325.92	1,982,864.93		
5,717.00	90.90	247.90	3,196.91	-1,110.74	-2,677.79	4.84	2,898.87	652,314.26	1,982,836.21		
5,748.00	91.60	246.10	3,196.23	-1,122.85	-2,706.32	6.23	2,929.85	652,302.15	1,982,807.68		
5,780.00	92.00	245.90	3,195.23	-1,135.86	-2,735.54	1.40	2,961.82	652,289.14	1,982,778.46		
5,811.00	93.60	245.20	3,193.71	-1,148.67	-2,763.72	5.63	2,992.75	652,276.33	1,982,750.28		
5,842.00	93.90	245.40	3,191.69	-1,161.60	-2,791.82	1.16	3,023.65	652,263.40	1,982,722.18		
5,873.00	94.80	246.90	3,189.33	-1,174.10	-2,820.09	5.63	3,054.54	652,250.90	1,982,693.91		
5,904.00	95.30	247.80	3,186.61	-1,185.99	-2,848.59	3.31	3,085.42	652,239.01	1,982,665.41		
5,935.00	94.90	248.70	3,183.85	-1,197.43	-2,877.27	3.17	3,116.29	652,227.57	1,982,636.73		
5,966.00	94.80	249.70	3,181.23	-1,208.40	-2,906.15	3.23	3,147.18	652,216.60	1,982,607.85		
5,997.00	94.40	251.30	3,178.74	-1,218.71	-2,935.27	5.30	3,178.05	652,206.29	1,982,578.73		
6,029.00	93.40	253.60	3,176.57	-1,228.34	-2,965.71	7.82	3,209.88	652,196.66	1,982,548.29		
6,060.00	92.60	254.10	3,174.94	-1,236.95	-2,995.45	3.04	3,240.68	652,188.05	1,982,518.55		
6,091.00	92.60	254.20	3,173.54	-1,245.41	-3,025.24	0.32	3,271.47	652,179.59	1,982,488.76		
6,122.00	92.90	254.40	3,172.05	-1,253.79	-3,055.05	1.16	3,302.25	652,171.21	1,982,458.95		
6,154.00	92.70	254.30	3,170.49	-1,262.41	-3,085.82	0.70	3,334.02	652,162.59	1,982,428.18		
6,184.00	92.50	254.30	3,169.13	-1,270.52	-3,114.67	0.67	3,363.81	652,154.48	1,982,399.33		
6,216.00	92.30	254.60	3,167.79	-1,279.09	-3,145.47	1.13	3,395.58	652,145.91	1,982,368.53		
6,247.00	92.40	254.30	3,166.51	-1,287.39	-3,175.32	1.02	3,426.36	652,137.61	1,982,338.68		
6,278.00	92.40	254.30	3,165.22	-1,295.77	-3,205.13	0.00	3,457.15	652,129.23	1,982,308.87		

Standard_report

Company:	Gulf Exploration LLC	Local Co-ordinate Reference:	Well Robl 1-29H
Project:	Barton County, Kansas	TVD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Site:	Blood Creek Prospect	MD Reference:	RKB=1806+10 @ 1816.00usft (Dan D #9)
Well:	Robl 1-29H	North Reference:	Grid
Wellbore:	Original hole	Survey Calculation Method:	Minimum Curvature
Design:	Surveys Original hole	Database:	Dbase Nov0914

Survey										
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	N/S (usft)	E/W (usft)	DLeg (°/100usft)	V. Sec (usft)	Northing (usft)	Easting (usft)	
6,310.00	92.00	254.00	3,163.99	-1,304.51	-3,235.89	1.56	3,488.95	652,120.49	1,982,278.11	
6,365.00	92.00	254.00	3,162.07	-1,319.66	-3,288.73	0.00	3,543.62	652,105.34	1,982,225.27	
Survey projected to 6365.00 MD										

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
546.00	546.00	0.00	0.00	MWD surveys	
6,365.00	3,162.07	-1,319.66	-3,288.73	Survey projected to 6365.00 MD	