Confidentiality Requested:
☐ Yes ☐ No

KANSAS CORPORATION COMMISSION
OIL & GAS CONSERVATION DIVISION

1083004

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 # 34574
Name: Shell Gulf of Mexico Inc.
Address 1: 150 N DAIRY-ASHFORD (77079)
Address 2: PO BOX 576 (77001-0576)
City: HOUSTON State: TX Zip: 77001 + 0576
Contact Person: DAMONICA PIERSON
Phone: (832) 337-2172
CONTRACTOR: License # 34718
Name: Nabors Drilling USA, LP
Wellsite Geologist: Abby Woody
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 #:

04/10/2012 Spud Date or Recompletion Date
5/22/2012 Date Reached TD
06/10/2012 Completion Date or Recompletion Date

API No. 15 - 15-077-21755-00-00
Spot Description:
SE - NW - NW - NE Sec. 30 Twp. 33 S. R. 7 ☐ East ☑ West
350 Feet from ☑ North / ☐ South Line of Section
2199 Feet from ☑ East / ☐ West Line of Section
Footages Calculated from Nearest Outside Section Corner:
☑ NE ☐ NW ☐ SE ☐ SW
GPS Location: Lat: *(e.g. xx.xxxxx)* , Long: *(e.g. -xxx.xxxxx)*
Datum: ☐ NAD27 ☐ NAD83 ☐ WGS84
County: Harper
Lease Name: Starks & Masner 3307 Well #: 30-1
Field Name: Wildcat
Producing Formation: Mississippi
Elevation: Ground: 1384 Kelly Bushing: 1410
Total Vertical Depth: 5460 Plug Back Total Depth:
Amount of Surface Pipe Set and Cemented at: 802 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: 0 ppm Fluid volume: 0 bbls
Dewatering method used: Hauled to Disposal
Location of fluid disposal if hauled offsite:
Operator Name: Plumb Thicket Landfill
Lease Name: n/a License #: 99999
Quarter SW Sec. 4 Twp. 31 S. R. 6 ☐ East ☑ West
County: Harper Permit #: KDHE Permit No. 0842

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: 06/08/2012
☑ **Confidential Release Date:** 06/08/2014
☑ **Wireline Log Received**
☐ **Geologist Report Received**
☑ **UIC Distribution**
ALT ☑ **I** ☐ **II** ☐ **III** **Approved by:** NAOMI JAMES **Date:** 06/18/2012

[redacted] 1083004

Operator Name: Shell Gulf of Mexico Inc. Lease Name: Starks & Masner 3307 Well #: 30-1

Sec. 30 Twp. 33 S. R. 7 ☐ East ☑ West County: Harper

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 ☐ Yes ☑ No
(Attach Additional Sheets)

Samples Sent to Geological Survey ☑ Yes ☐ No

Cores Taken ☐ Yes ☑ No

Electric Log Run ☑ Yes ☐ No

List All E. Logs Run:

Triple Combo (Gamma Ray Resistivity, Neutron Porosity, Density)

☐ Log Formation (Top), Depth and Datum ☐ Sample

Name	Top	Datum
ARBUCKLE	5300	
BONNETERRE DOLOMITE	6170	

CASING RECORD ☑ New ☐ 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
Conductor	24	18	47.44	60	Type 1/2 Portland cement	48	15% Fly Ash
Surface	12.25	9.625	36	802	Class C	500	See attached
Intermediate	8.75	7	23	5359	Class C	990	See attached

ADDITIONAL CEMENTING / SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
☐ Perforate ☐ Protect Casing ☐ Plug Back TD ☐ Plug Off Zone	-			
	-			

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 *(Amount and Kind of Material Used)*	Depth

TUBING RECORD: Size: 4.5" 11.6# Duoline Set At: 5089 Packer At: 5071 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:
☐ Vented ☐ Sold ☐ Used on Lease
(If vented, Submit ACO-18.)

METHOD OF COMPLETION:
☑ Open Hole ☐ Perf. ☐ Dually Comp. *(Submit ACO-5)* ☐ Commingled *(Submit ACO-4)*
☐ Other *(Specify)*

PRODUCTION INTERVAL:

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

CEMENT JOB REPORT

BAKER HUGHES

CUSTOMER: SHELL WESTERN E & P INC	DATE: 10-APR-12	F.R. #: 1001900648	SERV. SUPV.: KENNETH W STARNES
LEASE & WELL NAME: STARKS & MASNER 3307 #30-1 - API 15077217550	LOCATION: 30-33S-7W		COUNTY-PARISH-BLOCK: Harper Kansas
DISTRICT: McAlester	DRILLING CONTRACTOR RIG #:		TYPE OF JOB: Surface

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
9-5/8" Top Cem Plug, Nitrile cvr, Phe	Float Shoe 9-5/8 - 8rd						

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES: SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT3	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
Fresh water			8.34				20	
C+.01%Staticfree+2%CaCl2+.25ppsCelloflake		500	14.8	1.35	6.34	02:45	120	75.34
Fresh water			8.34				58	
						TOTAL	198	75.34

Available Mix Water: 500 Bbl. Available Displ. Fluid: 500 Bbl.

HOLE SIZE	HOLE % EXCESS	HOLE DEPTH	TBG-CSG-D.P. ID	OD	WGT.	TYPE	MD	TVD	GRADE	COLLAR DEPTHS SHOE	FLOAT	STAGE
12.25	150	802	8.921	9.625	36	CSG	802	802	H-40	802	756	

LAST CASING ID	OD	WGT	TYPE	MD	TVD	PKR-CMT RET-BR PL-LINER BRAND & TYPE	DEPTH	PERF. DEPTH TOP	BTM	TOP CONN SIZE	THREAD	WELL FLUID TYPE	WGT.
17.	18	84		60	60					9.625	8RD	WATER BASED	8.8

DISPL. VOLUME VOLUME	UOM	DISPL. FLUID TYPE	WGT.	CAL. PSI BUMP PLUG	CAL. MAX PSI TO REV.	OP. MAX SQ. PSI	MAX TBG PSI RATED	Operator	MAX CSG PSI RATED	Operator	MIX WATER
58	BBLS	Fresh water	8.34	289	0	0	0	0	2048	1500	Rig

Circulation Prior to Job

Circulated Well: Rig [X] BJ [ ] | Circulation Time: | Circulation Rate: BPM

Mud Density In: LBS/GAL Mud Density Out: LBS/GAL | PV & YP Mud In: | PV & YP Mud Out:

Gas Present: NO [X] YES [ ] Units: | Solids Present at End of Circulation: NO [X] YES [ ]

Displacement And Mud Removal

Displaced By: Rig [ ] BJ [X] | Amount Bled Back After Job: .5 BBLS

Returns During Job: [ ] NONE [ ] PARTIAL [X] FULL | Method Used to Verify Returns: Visual

Cement Returns at Surface: [X] YES [ ] NO | Were Returns Planned at Surface: [ ] NO [X] YES

Pipe Movement: [ ] ROTATION [ ] RECIPROCATION [ ] NONE [ ] UNABLE DUE TO STUCK PIPE

Centralizers: [X] NO [ ] YES Quantity: | Type: [ ] BOW [ ] RIGID

Job Pumped Through: [ ] CHOKE MANIFOLD [ ] SQUEEZE MANIFOLD [X] MANIFOLD [ ] NO MANIFOLD

Plugs

Number of Attempts by BJ: Competition: | Wiper Balls Used: [X] NO [ ] YES Quantity:

Plug Catcher Used: [X] NO [ ] YES | Parabow Used: [X] NO [ ] YES

Was There a Bottom: [X] NO [ ] YES | Top of Plug: FT Bottom of Plug: FT

Squeezes (Update Original Treatment Report for Primary Job)

BLOCK SQUEEZE [ ] SHOE SQUEEZE [ ] TOP OF LINER SQUEEZE [ ] PLANNED [ ] UNPLANNED [ ]

Liner Packer: [X] NO [ ] YES | Bond Log: [X] NO [ ] YES PSI Applied: Fluid Weight: LBS/GAL

Casing Test (Update Original Treatment Report for Primary Job)

Casing Test Pressure: PSI With LBS/GAL Mud | Time Held: Hours Minutes

Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: FT | Target EMW: LBS/GAL Actual EMW: LBS/GAL

Number of Times Tests Conducted: | Mud Weight When Test was Conducted: LBS/GAL

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING:

CEMENT JOB REPORT

BAKER HUGHES

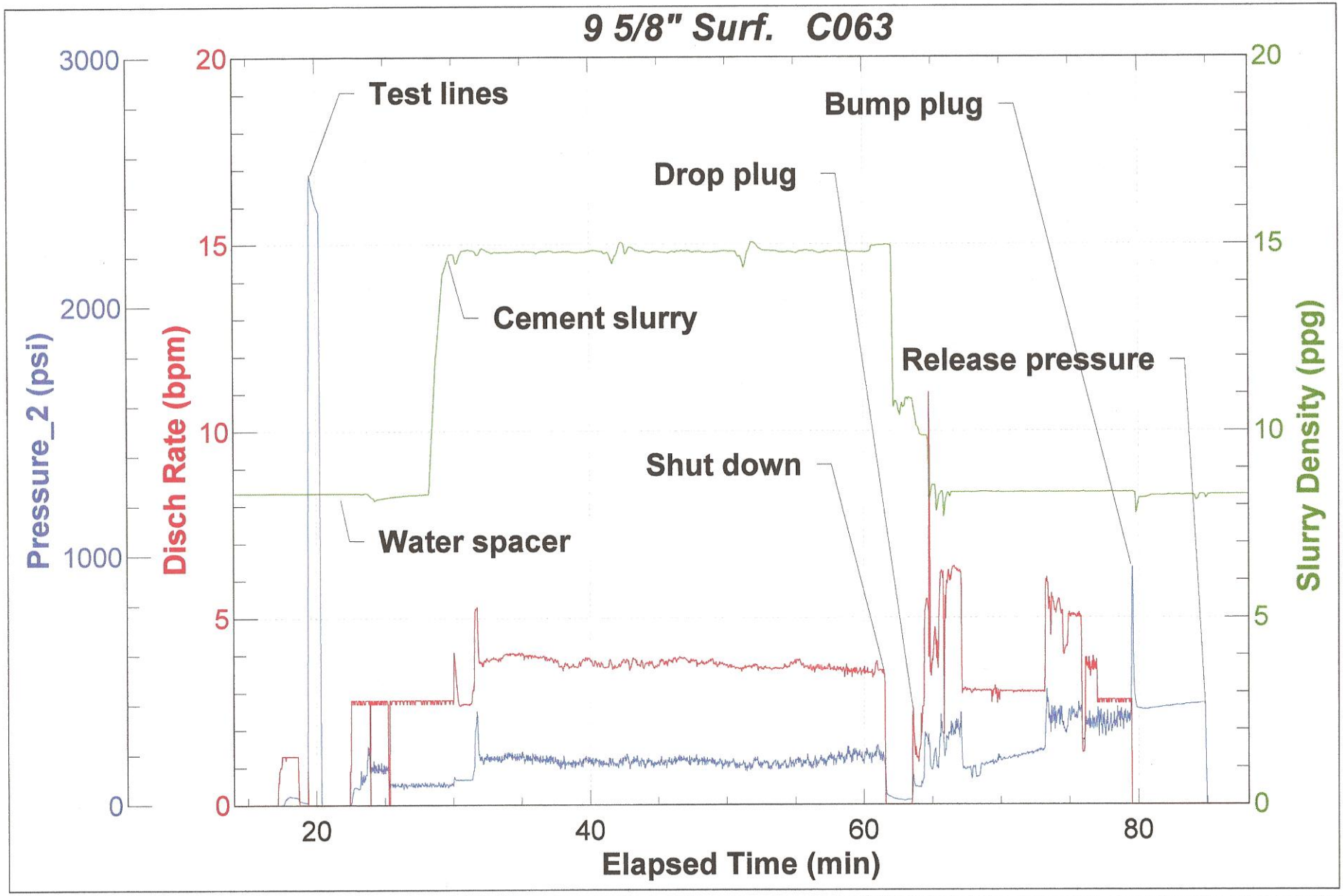
Problems Before Job (I.E. Running Casing, Circulating Well, ETC)

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)

PRESSURE/RATE DETAIL						EXPLANATION
TIME HR:MIN.	PRESSURE - PSI PIPE	PRESSURE - PSI ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW [X] CO. REP. [X]
						TEST LINES 2500 PSI
						CIRCULATING WELL - RIG [X] BJ [ ]
18:09						On location
04:09	2500				WATER	Test lines
04:12	183		5	20	WATER	Pump water spacer ahead
04:19	213		4	120	CEMENT	Pump cement @ 14.8#
04:51						Shut down
04:53	143		4	0	WATER	Drop plug / Start displacement
05:00	183		3	25	WATER	Displacement
05:06	303		3	50	WATER	Displacement
05:09	976		3	58	WATER	Bump plug
05:14				.5	WATER	Check floats

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	Service Supervisor Signature:
Y [ ] N	363	Y [ ] N	76	198	0	Y N [ ]	4-11-12


9 5/8" Surf. C063
Test lines
Bump plug
Drop plug
Cement slurry
Release pressure
Shut down
Water spacer
Pressure_2 (psi)
Disch Rate (bpm)
Slurry Density (ppg)
Elapsed Time (min)
3000
2000
1000
0
20
15
10
5
0
20
40
60
80

CEMENT JOB REPORT

BAKER HUGHES

CUSTOMER: SHELL WESTERN E & P INC	DATE: 29-APR-12	F.R. #: 1001905243	SERV. SUPV.: JONATHAN M SCHULZ III
LEASE & WELL NAME: STARKS & MASNER 3307 #30-1 - API 15077217550	LOCATION: 30-33S-7W		COUNTY-PARISH-BLOCK: Harper Kansas
DISTRICT: McAlester	DRILLING CONTRACTOR RIG #:		TYPE OF JOB: Intermediate

SIZE & TYPE OF PLUGS	LIST-CSG-HARDWARE	MECHANICAL BARRIERS	MD	TVD	HANGER TYPES	MD	TVD
7" Top Cem Plug, Nitrile cvr, Phen							

MATERIALS FURNISHED BY BJ	LAB REPORT NO.	PHYSICAL SLURRY PROPERTIES: SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT	WATER GPS	PUMP TIME HR:MIN	Bbl SLURRY	Bbl MIX WATER
SEALBOND SPACER			8.41				40	
C15:85:8 +4pps Kolseal + .5% SMS + 10% NaCl + .25		790	12.4	2.45	13.52	05:00	344.39	254.07
C50:50:2 +5% NaCl + .25pps Celloflake+4pps Kolseal		200	14.2	1.32	5.66	03:45	46.91	26.89
FRESH WATER			8.34				207.31	
						TOTAL	638.61	280.96

Available Mix Water: 500 Bbl. Available Displ. Fluid: 500 Bbl.

HOLE SIZE	HOLE % EXCESS	HOLE DEPTH	TBG-CSG-D.P. ID	OD	WGT.	TYPE	MD	TVD	GRADE	COLLAR DEPTHS SHOE	FLOAT	STAGE
8.75		5372	6.366	7	23	CSG	5359	5359				

LAST CASING ID	OD	WGT	TYPE	MD	TVD	PKR-CMT RET-BR PL-LINER BRAND & TYPE	DEPTH	PERF. DEPTH TOP	BTM	TOP CONN SIZE	THREAD	WELL FLUID TYPE	WGT.
8.9	9.625	36		800	800			4600	4600	7	8RD	WATER BASED MU	9

DISPL. VOLUME VOLUME	UOM	DISPL. FLUID TYPE	WGT.	CAL. PSI BUMP PLUG	CAL. MAX PSI TO REV.	OP. MAX SQ. PSI	MAX TBG PSI RATED	Operator	MAX CSG PSI RATED	Operator	MIX WATER
207.3	BBLS	FRESH WATER	8.34	1250						3000	RIG TANK

EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: ARRIVE ON LOCATIN @ 700, RUNNING CASING,

PRESSURE/RATE DETAIL TIME HR:MIN.	PRESSURE - PSI PIPE	ANNULUS	RATE BPM	Bbl. FLUID PUMPED	FLUID TYPE	EXPLANATION
						SAFETY MEETING: BJ CREW [X] CO. REP. [X]
						TEST LINES 4000 PSI
						CIRCULATING WELL - RIG [X] BJ [ ]
07:00						Arrive on location @ am 4/29/2012
11:30				40	SPACER	rig pumped sealbond spacer w/BRP
11:45	4000				WATER	test pumps & lines
23:47	578		2	5	WATER	open well/ pump water spacer
23:49	462		4		LEAD	start lead slurry @ 12.4ppg
00:39	236		5	211	LEAD	bbls pumped when lead at shoe
01:06	241		5	340	LEAD	end lead slurry/start tail slurry@14.2ppg
01:19	101		3	50	TAIL	end tail slurry/ shutdown
01:22	61		3		WATER	drop TRP/start displacement/ lost returns
01:53	972		5	200	WATER	slow rate to bump
01:58	789		3	209	WATER	shutdown/no bump
02:03	0			-.25		check float/ holding/ bbls return
						Thank You for using BHI Pressure Pumping
						Jonathan Schulz & Crew

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL.CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	SERVICE SUPERVISOR SIGNATURE:
Y [N]		Y [N]	0	643	0	Y [N]	

Jr8004

6 3/4 in. WeatherfordLWD™ Triple Combo
1 in. & 5 in. MEASURED DEPTH
RECORDED DATA
FINAL PRINT

Company: Shell
Well: Starks and Masner 3307 30-1
Field: Wildcat
Rig: Nabors F01
County: Harper

COMPANY **Shell**
WELL **Starks and Masner 3307 30-1**
FIELD **Wildcat**
RIG **Nabors F01**
COUNTY **Harper** STATE **Kansas**
API # **15-077-21755-00-00**

Location

Latitude: 37.15083° N x = 2,110,965.133 ft
Longitude: 98.11929° W y = 176,519.808 ft
Mag Decl: 0.79°
Mag Dip: 58.66°

Other Services: None

Permanent Datum: Mean Sea Level
Log Measured From: Drill Floor Elev: 1410.49 ft above perm. datum
Depth Reference: Drillers Tally Total Depth: 5372 ft

Depth Logged: 4348 ft to 5372 ft
Date Logged: 28-Apr-12 to 28-Apr-12
Runs: 1
Spud Date: 7-Apr-12

Elevation

K.B. Top Drive
G.L. 1384.00 ft
D.F. 1410.49 ft
W.D. Land

Borehole Record

Hole Size	From	To
8.750 in.	798 ft	5372 ft

Casing Record

Size	Weight	From	To
9.625 in.	36.00 lb/ft	Surface	798 ft

Borehole Deviation Record

Hole Size	Min. Inc.	Max. Inc.
8.750 in.	0.30°	5.20°

Mud Record

Type	Weight	From	To
WBM	9.00 ppg	4402 ft	5372 ft

All interpretations of log data are opinions based on inferences from electrical or other measurements. Weatherford International does not guarantee the accuracy or correctness of any interpretation or recommendation and we shall not be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretation or recommendation made by any of our employees or agents.

RUN SUMMARY

LWD Run Number		1	2	3	4	5	6	7
Bit Size	in.	8.750						
Bit Type		Rock						
Bit TFA	sq.in.	0.920						
Bit Start Depth	ft	4402						
Bit End Depth	ft	5372						
Top Log Interval	ft	4348						
Bottom Log Interval	ft	5372						
Begin Log Time	hrs	5:42						
Begin Log Date	DD-MMM-YY	28-Apr-12						
End Log Time	hrs	13:24						
End Log Date	DD-MMM-YY	28-Apr-12						
Drill or Wipe		Wipe						
Flow Rate	gal/min	212						
Max AV / CV @ MWD	ft/min	375 / 395						
Min Inc @ Depth	deg @ ft	5.20 @ 871						
Max Inc @ Depth	deg @ ft	0.30 @ 171						
MUD DATA								
Depth	ft	5372						
Fluid Type		WBM						
Mud Weight	ppg	9.00						
Plastic Viscosity	cP	21						
Solids / Sand	%	3.30 / 0.05						
NaCl Equiv. Chlorides	ppm	29700						
pH		8.5						
Oil:Water Ratio	% Vol	0.0 : 100.0						
Rm @ Temperature	ohm-m @ deg F	0.15 @ 109						
Rmc @ Temperature	ohm-m @ deg F	na						
Rmf @ Temperature	ohm-m @ deg F	na						
KCl	% Vol	0						
Client Representative		C. Strickland						
WeatherfordLWD Engineer		A. Gaskamp						

EQUIPMENT SUMMARY

LWD Run Number	1	2	3	4	5
HEL Serial Number	NW20569PDBI6.75				
MFR Serial Number	NW20571RBBK6.75				
TNP-AZD Serial Number	NW20570NZBB6.75				
Density Source Serial Number	26198B				
Neutron Source Serial Number	6909B				
Sensor to Bit Offsets / Acquisition Rates					
Directional ft / sec	71.61 / RT				
Gamma Ray ft / sec	13.80 / 5				
Resistivity ft / sec	23.37 / 5				
Density ft / sec	46.34 / 5				
Neutron Porosity ft / sec	54.31 / 5				
Other Information					
Total BHA Length ft	957.21				
BHA Assembly Type	Conventional				
Run Circulating Time hr	9.76				
Run Drilling Time hr	0.00				

MUD SUMMARY

Date and Time	Run	Bit Depth	Mud Weight	% K	Rm @ Temp	Rmf @ Temp	Rmc @ Temp	BHCT
28 Apr 12 @ 00:30	01	5372 ft	9.00 ppg	0	WBM	na	na	109 F

LWD RUN REMARKS

Run Number: **1 :: RECORDED DATA LOG**

WFT Services Provided:

Recorded and Real Time Logging: Gamma Ray, Deep, Medium and Shallow Resistivity, Bulk Density, Neutron Porosity and Temperature.

Directional Services: On demand Inclination and Azimuth.

Borehole and Environmental Correction:

Hole Size:	8.750 in.
Mud Weight:	9.00 ppg
Borehole Temperature:	109° F
Standard Temperature:	75° F
Mud Salinity NaCl Equiv:	29700 ppm
Mud Type:	WBM
Matrix Processing:	Limestone (2.71 g/cc)
Drilling Fluid Resistivity:	0.15 @ 109° F
KCl Concentration:	0%

Gamma Ray: Corrected for mud weight, hole size and KCl concentration.

Resistivities: Corrected for borehole temperature, hole size, drilling fluid resistivity and dielectric correction.

Bulk Density: No corrections.

Neutron Porosity: Corrected for mud type, mud salinity, mud weight, hole size, standard temperature and processed using a LIMESTONE matrix.

LWD LOG COMMENTS

Comment No. 1-1

RECORDED DATA LOG

Start of LWD Wipe Run 01

Weatherford International provided 6 3/4 in. Directional, Resistivity, Gamma Ray, Density Porosity, Neutron Porosity and Temperature for Run 01.

Run 01 started formation wiping April 28, 2012 at 05:42 at 4402 MD / 4399 TVD. Weatherford International logged the 8.750 in. borehole.

The WBM at the start of drilling was 9.00 ppg.

Comment No. 1-2

End of LWD Wipe Run 01

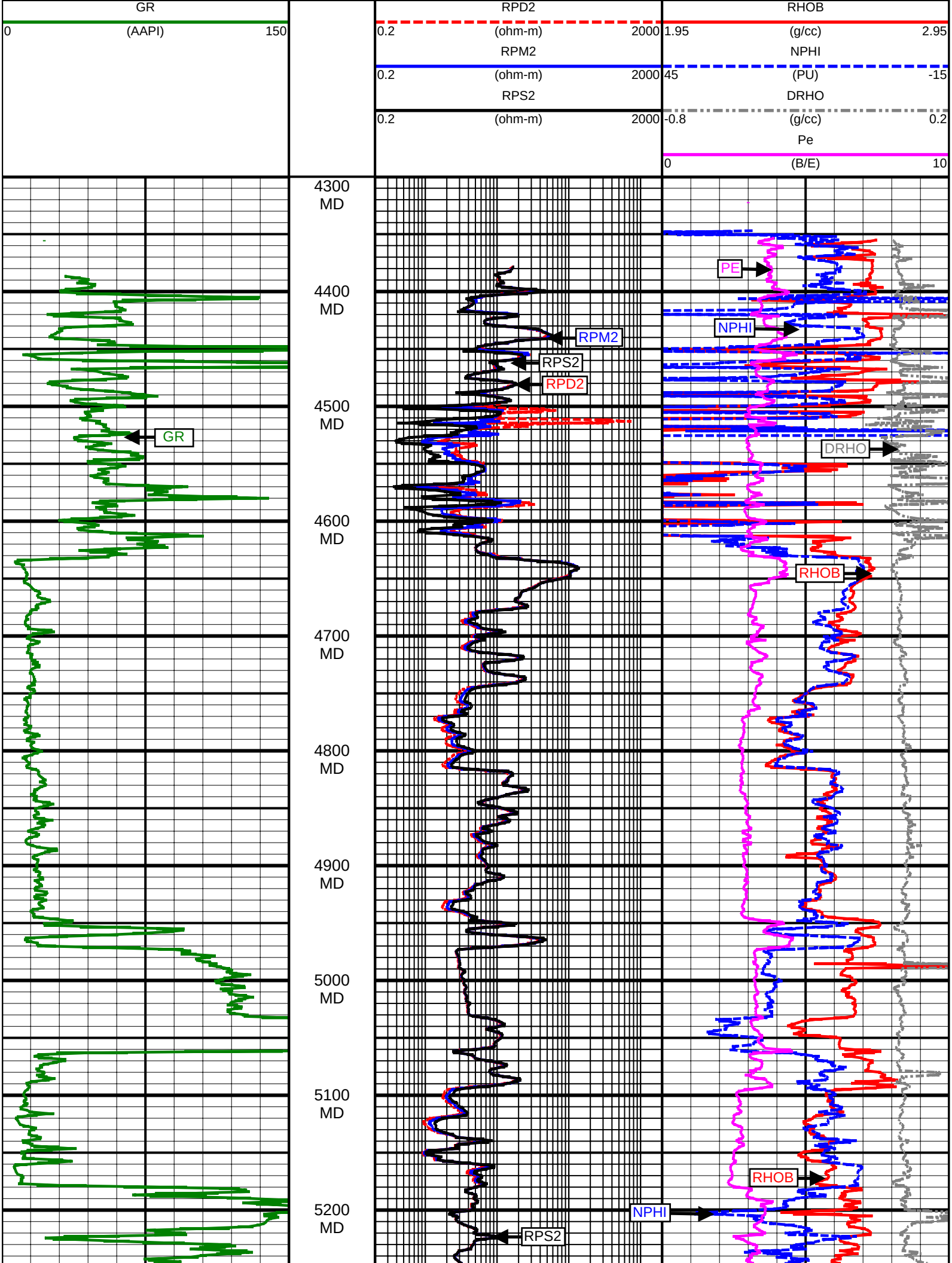
Run 01 ended formation wiping April 28, 2012 at 13:24 at 5372 MD / 5369 TVD. Weatherford International logged the 8.750 in. borehole.

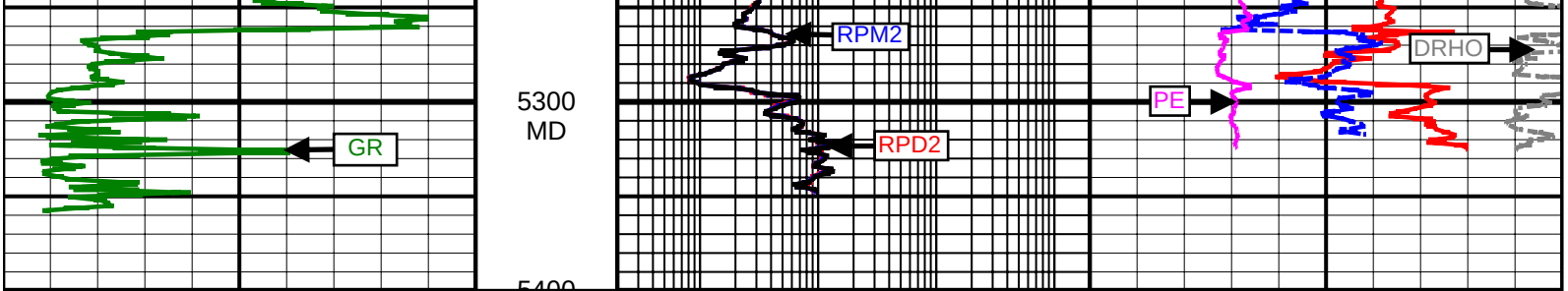
The WBM at the end of wiping was 9.00 ppg.

CURVE SPECIFICATIONS

CURVE TYPE	MNEMONIC	UNITS	COMMENTS	CORRECTIONS
Gamma Ray	GR	AAPI	Gamma Ray 3.0 ft window 0.5 ft Exponential Smoothing	See LWD Run Remarks
Deep Phase Resistivity	RPD2	ohm-m	2MHz Deep Phase Resistivity 3.0 ft window 0.5 ft Exponential Smoothing	See LWD Run Remarks
Medium Phase Resistivity	RPM2	ohm-m	2MHz Medium Phase Resistivity 3.0 ft window 0.5 ft Exponential Smoothing	
Shallow Phase Resistivity	RPS2	ohm-m	2MHz Shallow Phase Resistivity 3.0 ft window 0.5 ft Exponential Smoothing	
Bulk Density	RHOB	g/cc	Bulk Density 3.0 ft window 0.5 ft Exponential Smoothing	None
Delta RHO	DRHO	g/cc	Spine and Rib Correction 3.0 ft window 0.5 ft Exponential Smoothing	
Thermal Neutron Porosity	NPHI	PU	Neutron Porosity 3.0 ft window 0.5 ft Exponential Smoothing	See LWD Run Remarks
Photoelectric Effect Factor	PE	cts	Recorded Near Pe Count Rate 3.0 ft window 0.5 ft Exponential Smoothing	None

1 Inch - Measured Depth


GR
0
(AAPI)
150
RPD2
0.2
(ohm-m)
2000
RPM2
0.2
(ohm-m)
2000
RPS2
0.2
(ohm-m)
2000
RHOB
1.95
(g/cc)
2.95
NPHI
45
(PU)
-15
DRHO
-0.8
(g/cc)
0.2
Pe
0
(B/E)
10
4300 MD
4400 MD
4500 MD
4600 MD
4700 MD
4800 MD
4900 MD
5000 MD
5100 MD
5200 MD
GR
RPM2
RPS2
RPD2
PE
NPHI
DRHO
RHOB
RHOB
NPHI
RPS2

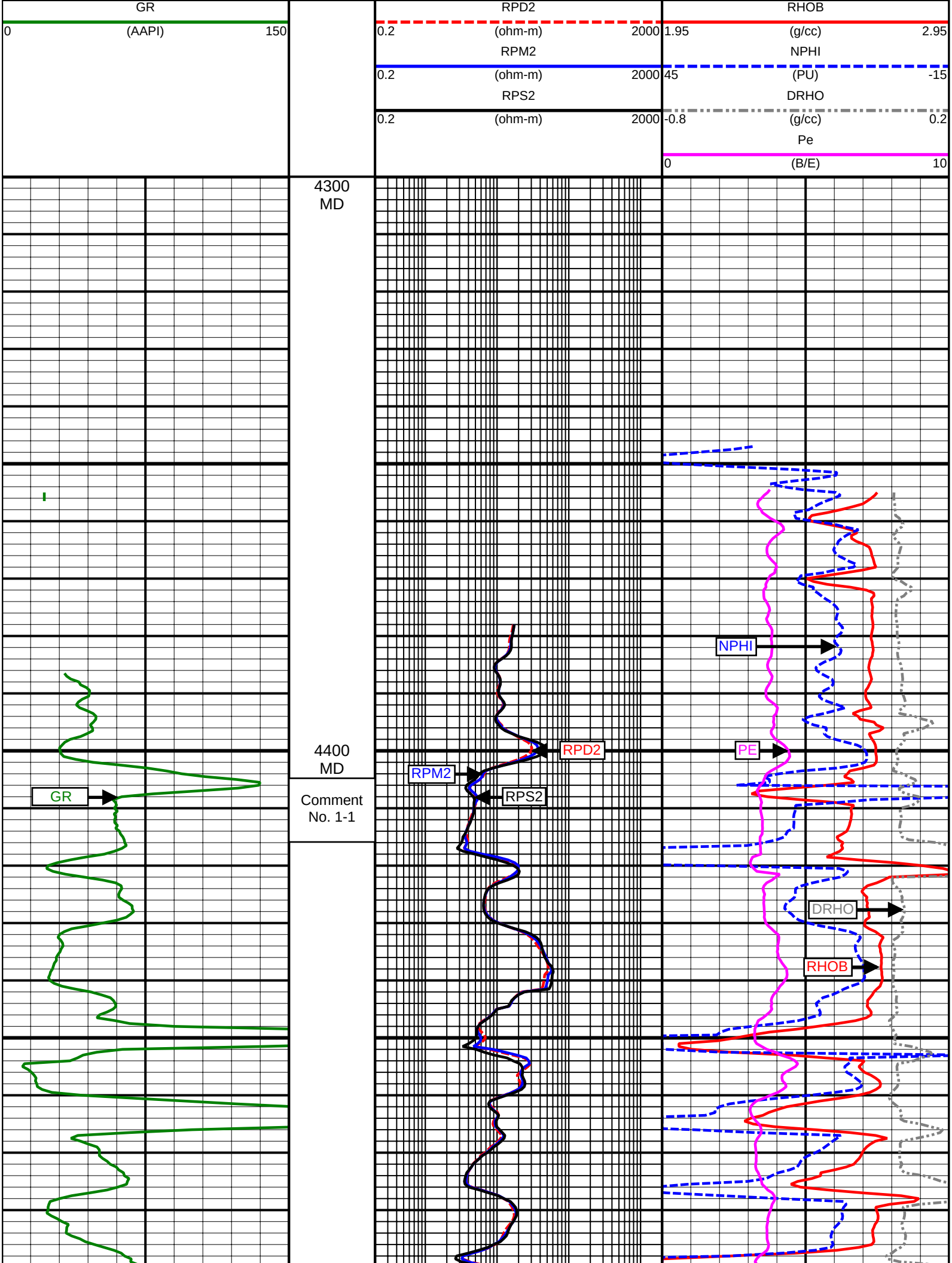


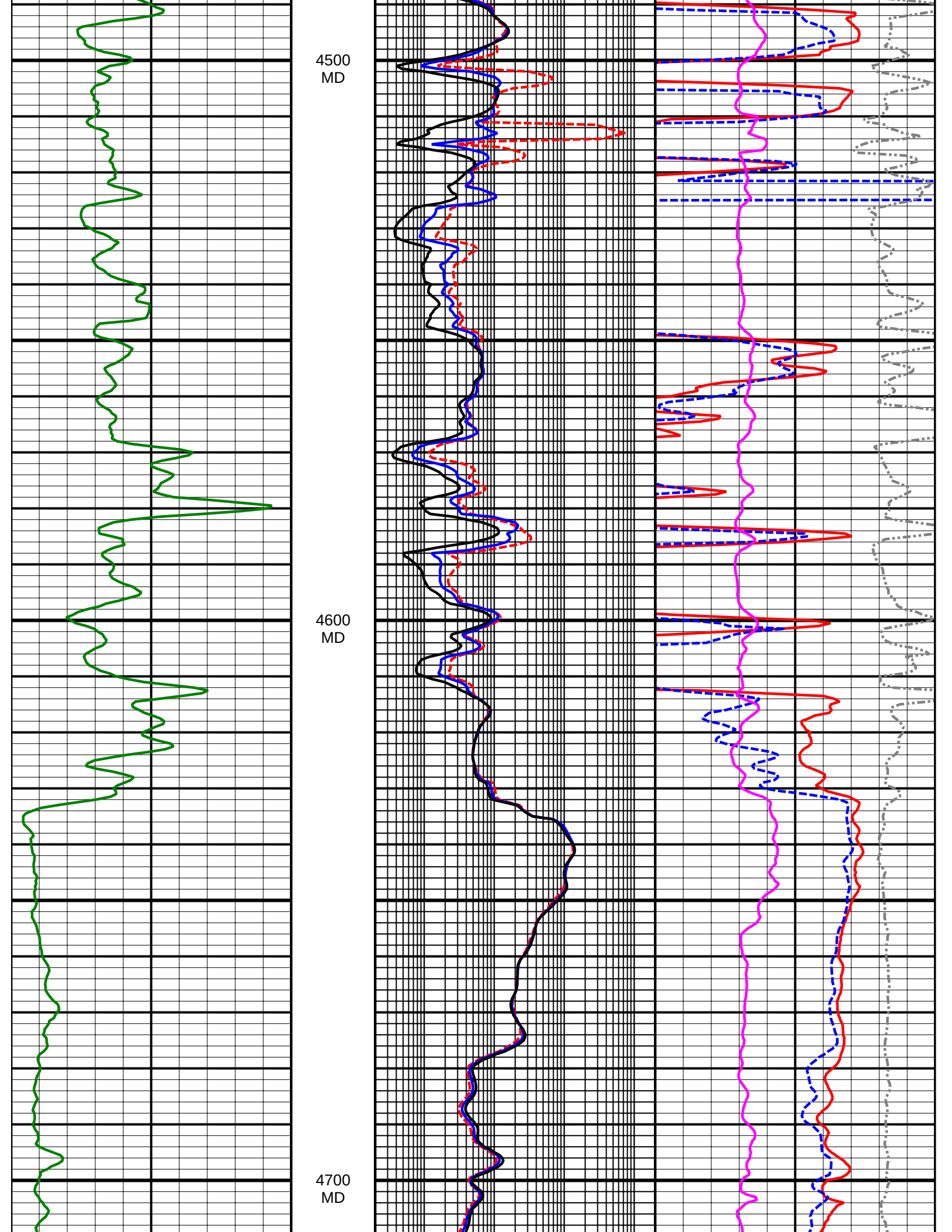
GR
0 (AAPI) 150

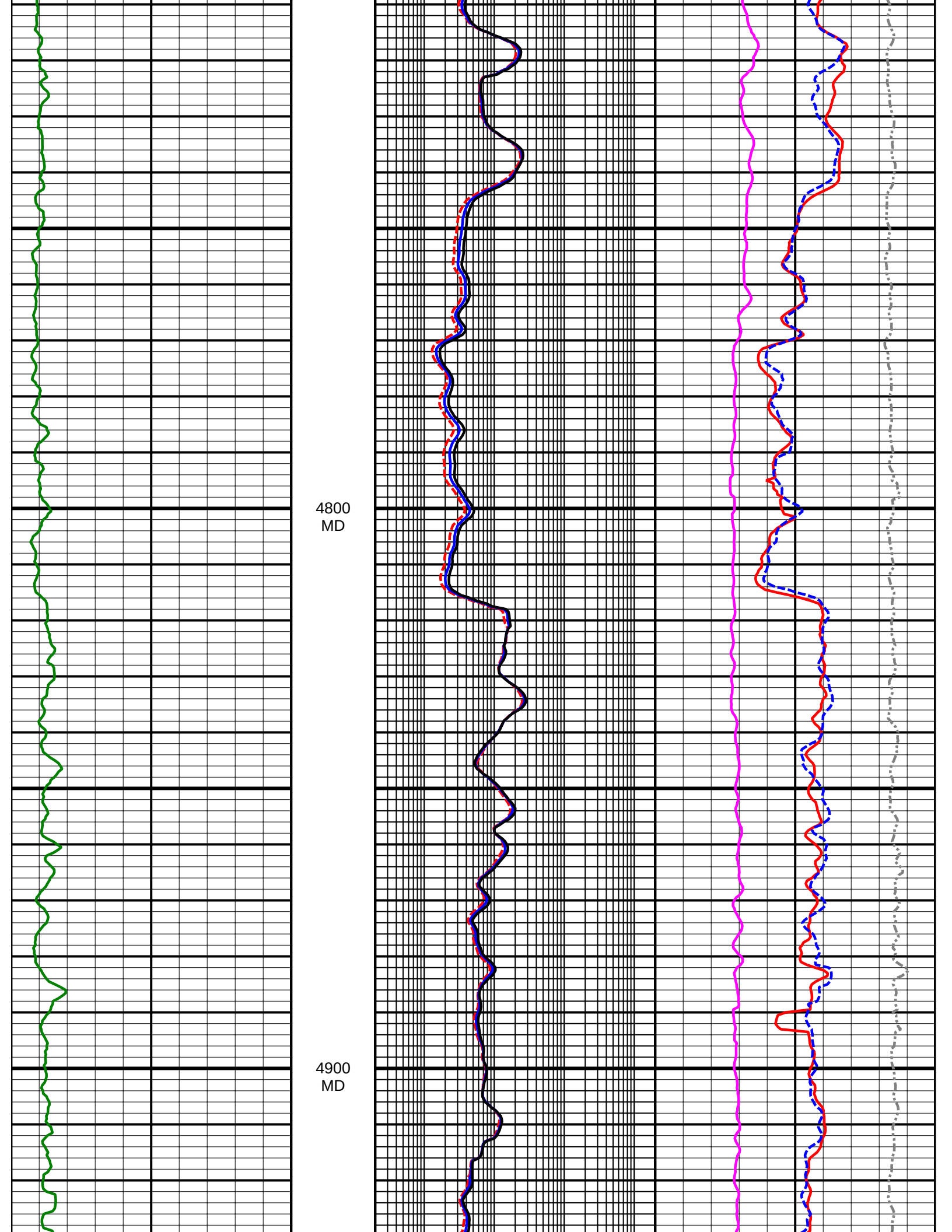
RPD2
0.2 (ohm-m) 2000
RPM2
0.2 (ohm-m) 2000
RPS2
0.2 (ohm-m) 2000

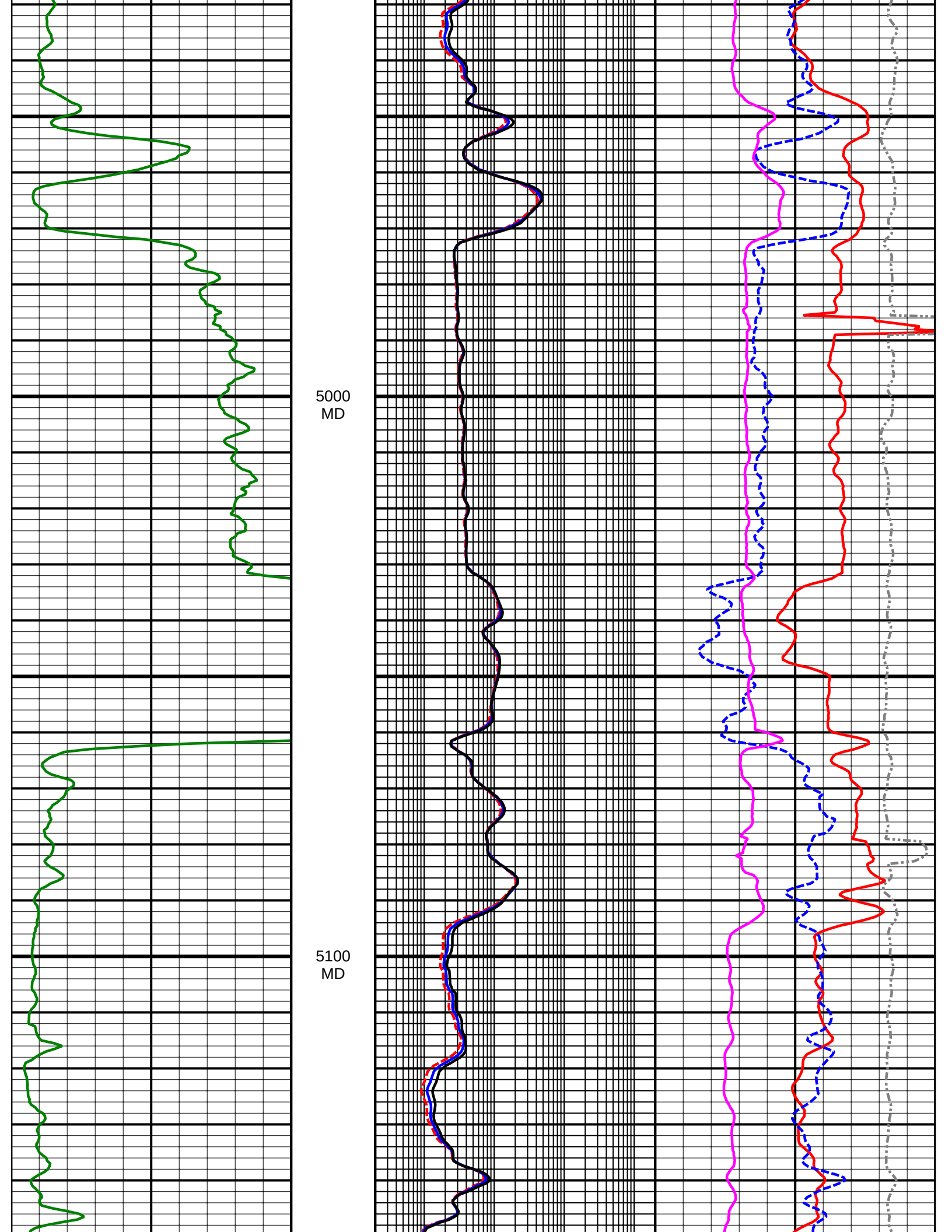
RHOB
1.95 (g/cc) 2.95
NPHI
45 (PU) -15
DRHO
-0.8 (g/cc) 0.2
Pe
0 (B/E) 10

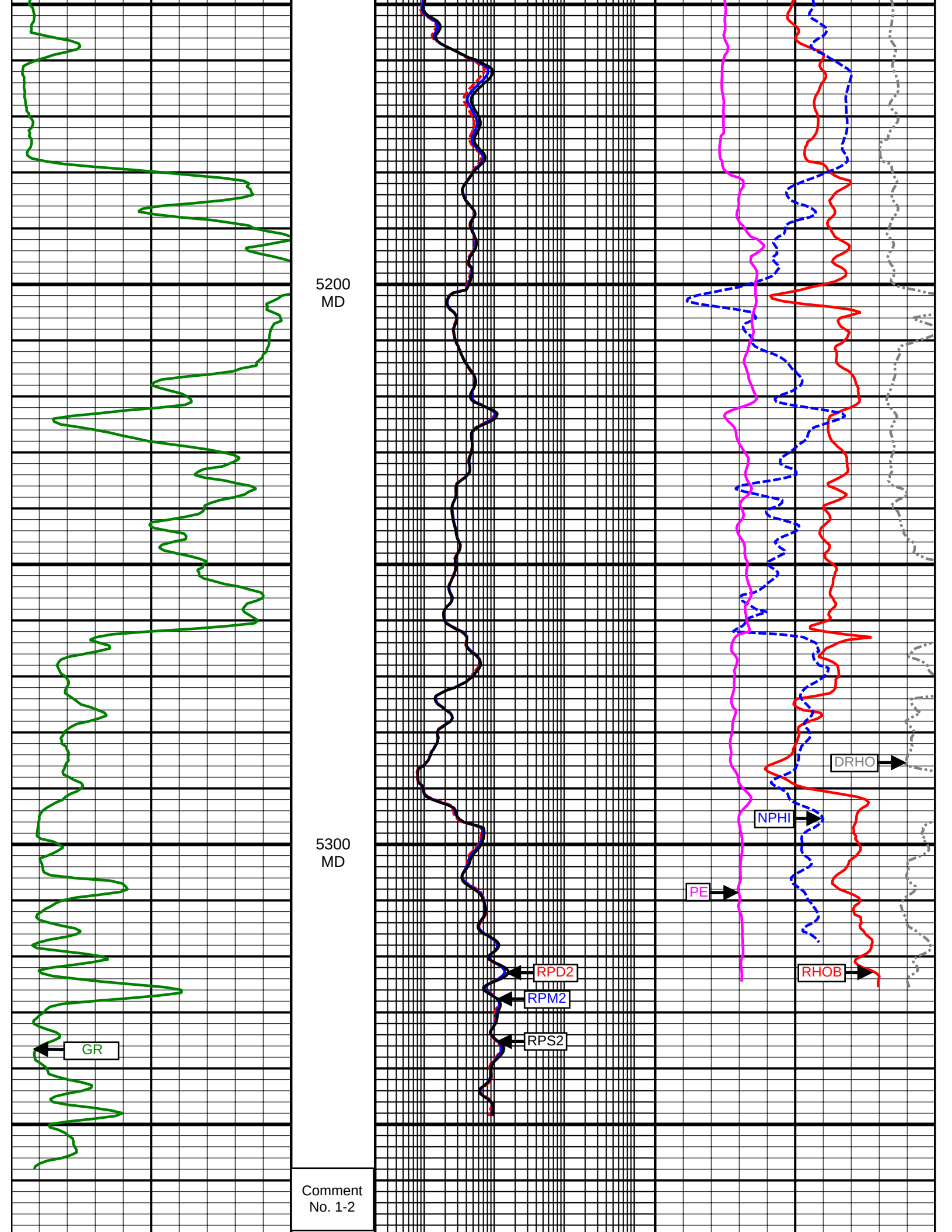
5 Inch - Measured Depth

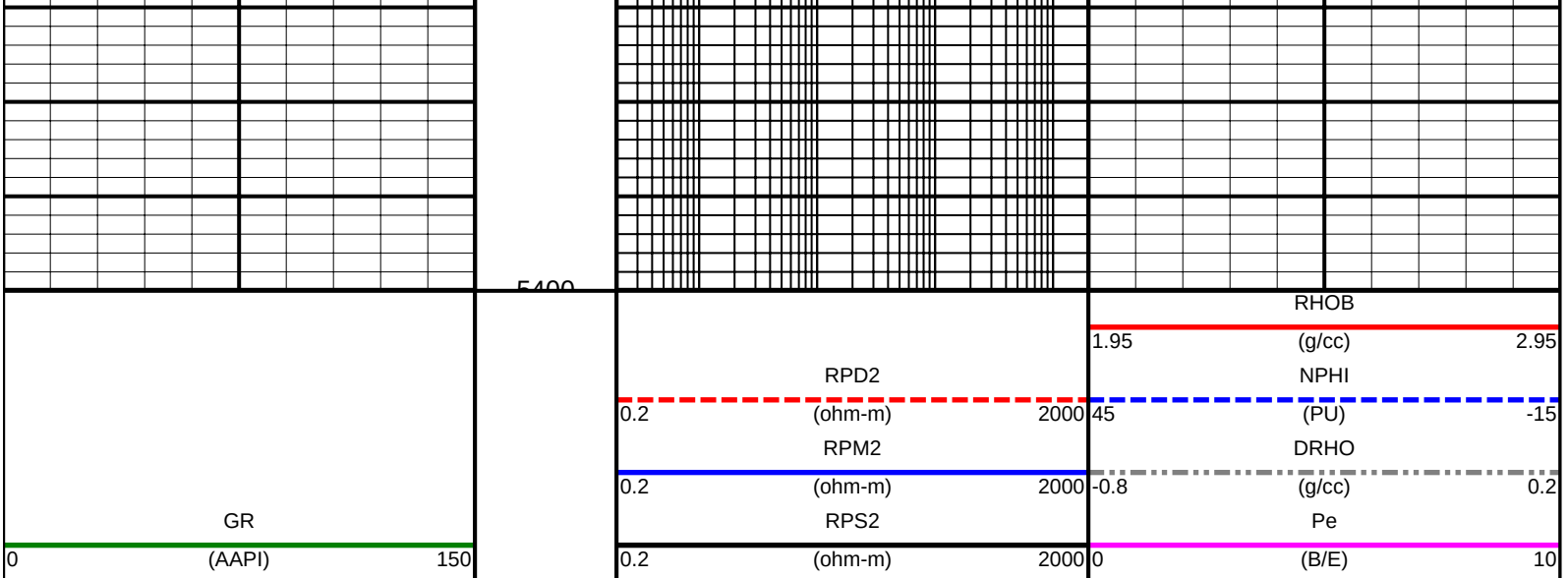

GR
0
(AAPI)
150
RPD2
0.2
(ohm-m)
2000
RPM2
0.2
(ohm-m)
2000
RPS2
0.2
(ohm-m)
2000
RHOB
1.95
(g/cc)
2.95
NPHI
45
(PU)
-15
DRHO
-0.8
(g/cc)
0.2
Pe
0
(B/E)
10
4300
MD
4400
MD
Comment
No. 1-1
GR
RPD2
RPM2
RPS2
NPHI
PE
DRHO
RHOB


4500
MD
4600
MD
4700
MD


4800
MD
4900
MD


5000
MD
5100
MD


5200
MD
5300
MD
GR
RPD2
RPM2
RPS2
DRHO
NPHI
PE
RHOB
Comment
No. 1-2


5400
GR
0
(AAPI)
150
RPD2
0.2
(ohm-m)
2000
RPM2
0.2
(ohm-m)
2000
RPS2
0.2
(ohm-m)
2000
RHOB
1.95
(g/cc)
2.95
NPHI
45
(PU)
-15
DRHO
-0.8
(g/cc)
0.2
Pe
0
(B/E)
10

AZD Density and Pe Calibration

All count rates are corrected for deadtime, without background subtraction.

Tool Serial Number:	19496	Stabilizer blade:	8.25 in.	Aluminum Block:	AL03
Insert Serial Number:	33774	Calibration Date:	Mar 17, 2012	Magnesium Block:	MG03
Source Serial Number:	26198B	Calibration Time:	11:18:14 AM	Run Numbers:	

Near Detector	Background	Al with Source	Al + SST with source	Mg with Source	Units
Peak (214-216):	215.027 (214 – 216)	214.545 (214 – 216)	214.973 (214 – 216)	214.710 (214 – 216)	Ch
Resolution (5-13.5%):	8.363 (5 – 13.5)	8.182 (5 – 13.5)	8.372 (5 – 13.5)	8.354 (5 – 13.5)	%
HV:	778.101 (600 – 1300)	777.570 (600 – 1300)	778.101 (600 – 1300)	778.101 (600 – 1300)	V
Density:	490.980	10477.670	9849.382	15513.310	CPS
Pe:	108.909	2950.247	2435.565	4373.469	CPS
Source:	234.812 (150 – 300)	254.019	253.399	259.670	CPS

Far Detector	Background	Al with Source	Al + SST with source	Mg with Source	Units
Peak (214-216):	215.047 (214 – 216)	215.090 (214 – 216)	214.753 (214 – 216)	214.913 (214 – 216)	Ch
Resolution (5-13.5%):	9.778 (5 – 13.5)	8.635 (5 – 13.5)	9.271 (5 – 13.5)	9.373 (5 – 13.5)	%
HV:	922.888 (600 – 1300)	922.888 (600 – 1300)	922.534 (600 – 1300)	922.534 (600 – 1300)	V
Density:	176.989	1005.665	777.422	6254.492	CPS
Pe:	34.375	175.725	126.732	1139.792	CPS
Source:	149.461 (100 – 200)	150.008	149.175	154.981	CPS

Results	Near Density	Far Density	Near Pe	Far Pe	
Slope:	-0.4511 (-0.56 – -0.43)	-2.2050 (-2.26 – -2.16)	3.9865 (0.1 – 10)	9.6641	
Offset:	10.3784	12.4272	-0.7745 (-3 – 0.1)	-1.2887	

TNP Neutron Calibration

All count rates are corrected for deadtime.

Tool Serial Number:	19496	Collar Diameter:	7.19 in.	Calibrator Number:	RD9THIN
Insert Serial Number:	33770	Calibration Date:	Mar 17, 2012	Verifier Number:	RD9THICK
Source Serial Number:	6909B (AmBe)	Calibration Time:	09:54:12 AM	Run Numbers:	

	Calibration Pipe	Verification Pipe	Units
Near Count Rate:	660.600	862.160	CPS
Far Count Rate:	38.990	66.300	CPS
Ratio:	16.942	13.003	
Assigned Ratio:	16.440	12.400	
Calibration Factor:	0.970		
	0.95 |  | 1.05		
Calibrated Ratio:		12.613	
Deviation:	3.05	1.72	%
	-5 |  | 5	-3 |  | 3	

Firmware: 4.88/99/5, OCX: 6.17, Operator: SChristy, District:West Hardy

3/17/2012 9:54:28 AM

SURVEY

Survey Calculation Method: **Minimum Curvature**

Magnetic Reference	Target Direction	Total Magnetic Field	Magnetic Dip Angle	Magnetic Declination	Grid Convergence	Total Correction
Grid North	**305.00 deg**	**51895 nT**	**65.29 deg**	**4.67 deg**	**0.23 deg**	**4.44 deg**

	Depth	INC	AZ	TVD	NS	EW
Survey Tie-On	**4288.00 ft**	**0.40 deg**	**258.10 deg**	**4285.24 ft**	**65.12 ft**	**-89.97 ft**

Depth (ft)	Inc (deg)	Azm (deg)	TVD (ft)	Well Head NS (ft)	Well Head EW (ft)	VSect (ft)	Dogleg (deg/100ft)
4391.00	0.35	287.75	4388.24	65.14	-90.62	111.60	0.19
4487.00	0.33	248.08	4484.24	65.13	-91.16	112.03	0.24
4582.00	0.28	263.32	4579.23	65.00	-91.64	112.35	0.10
4676.00	0.31	262.44	4673.23	64.94	-92.12	112.71	0.03
4771.00	0.70	319.22	4768.23	65.34	-92.76	113.46	0.62
4866.00	1.11	328.13	4863.22	66.57	-93.62	114.87	0.46
4961.00	1.25	337.21	4958.20	68.30	-94.51	116.59	0.25
5055.00	1.10	342.92	5052.18	70.11	-95.17	118.17	0.20
5151.00	0.96	355.57	5148.16	71.79	-95.50	119.41	0.28
5246.00	0.84	0.61	5243.15	73.28	-95.56	120.31	0.15

Weatherford Surveys 4391 ft MD to 5246 ft MD.
TD at 5372 ft MD.
The total correction is 4.44 deg relative to Grid North.

Weatherford®

Final Print

COMPANY	**Shell**		
WELL	**Starks and Masner 3307 30-1**		
FIELD	**Wildcat**		
RIG	**Nabors F01**		
STATE	**Kansas**	COUNTY	**Harper**

Conservation Division
Finney State Office Building
130 S. Market, Rm. 2078
Wichita, KS 67202-3802

Kansas
Corporation Commission

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

June 08, 2012

DAMONICA PIERSON
Shell Gulf of Mexico Inc.
150 N DAIRY-ASHFORD (77079)
PO BOX 576 (77001-0576)
HOUSTON, TX 77001-0576

Re: ACO1
API 15-077-21755-00-00
Starks & Masner 3307 30-1
NE/4 Sec.30-33S-07W
Harper County, Kansas

Dear Production Department:

We are herewith requesting that the Well Completion Form ACO-1 and attached information for the subject well be held confidential for a period of two years.

Should you have any questions or need additional information regarding subject well, please contact our office.

Respectfully,
DAMONICA PIERSON