pKRNU2133942 2 WFX 5/18/02

ExxonMobil Production Company
U.S. West
P.O. Box 4358
Houston, Texas 77210-4358

May 2, 2002

ExxonMobil
Production

Application For Authorization to Inject (Form C-108)
Avalon (Delaware) Unit #539
Sec. 31, T20S, R28E; 2600' FSL / 1322' FWL
Avalon Delaware Unit
Eddy County, New Mexico

MAY - 3 2002

New Mexico Oil Conservation Division
1220 So. St. Francis Drive
Santa Fe, New Mexico 87505

Dear Sir or Madam:

Exxon Mobil Corporation requests to convert the above referenced well to injection. This well was originally permitted as part of Avalon (Delaware) Unit waterflood under Order No. R-10460-B, March 12, 1996 as well number 2212. The following items are attached:

Application for Authorization to Inject (Form C-108) and attachments.

- Plat showing well location, 1/2 mile Area of Review (AOR), and leases within 2 miles.
- Tabulation of well data within AOR.
- Proposed operations and stimulation information.
- Geologic / lithologic data.
- Fresh water analyses within one mile.
- Proof of Notice: Names, addresses of surface owner(s), and all leasehold operators within one-half mile.
- Copy of legal newspaper advertisement.
- Copy of well log.

If you have any questions please call me at (713) 431-1779 or fax (713) 431-1600.

Sincerely,

Michael J. Barbella
Regulatory Specialist

Attachments

Xc: New Mexico Oil Conservation Division, District II
1301 W. Grand Avenue
Artesia, NM 88210

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION
POST OFFICE BOX 2088
STATE LAND OFFICE BUILDING
SANTA FE, NEW MEXICO 87501

FORM C-108
Revised 7-1-81

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose: [XX] Secondary Recovery [ ] Pressure Maintenance [ ] Disposal [ ] Storage
Application qualifies for administrative approval? [XX] yes [ ] no

II. Operator: EXXON MOBIL CORPORATION

Address: P. O. BOX 4358 HOUSTON TX 77210-4358

Contact party: Michael J. Barbella Phone: (713) 431-1779

III. Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.

IV. Is this an expansion of an existing project? [X] yes [ ] no
If yes, give the Division order number authorizing the project R-10460-B.

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: Michael J. Barbella Title Regulatory Specialist

Signature: Michael J. Barbella Date: 4-22-02

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal.

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate Division district office.

INJECTION WELL DATA SHEET

Exxon Mobil Corporation	Avalon Delaware Unit	NM NM 01119
OPERATOR	LEASE	DESIGNATION & SERIAL NO.

539	2600' FSL / 1322' FWL	31	T-20-S	R-28-E
WELL NO.	FOOTAGE LOCATION	SECTION	TOWNSHIP	RANGE

30-015-28682	Avalon Delaware 3715
API WELL NO.	FIELD and POOL

Schematic

(SEE ATTACHED DRAWINGS)

Tubular Data

Surface Casing

Size: 10-3/4" Cemented with: 515 sxs.

TOC: Surface feet determined by: Circulation

Hole Size: 14-3/4"

Intermediate Casing

Size: 7-5/8" Cemented with: 750 sxs.

TOC: Surface feet determined by: Circulation

Hole Size: 9-7/8"

Long String

Size: 4-1/2" Cemented with: 285 sxs.

TOC: 2242 feet TOL determined by: Calculation

Hole Size: 6-3/4"

Total Depth: 3820'

Injection Interval:

2516 feet to 3626 feet.

X Perforation ☐ Open-hole

Tubing size 2-3/8" lined with _____ Cement _____ (material) set in a

_____ Baker Model KBH-22S packer at 2242 feet.
(brand and model) (or describe any other casing-tubing seal)

Other Data

1. Name of the injection formation: Delaware

2. Name of Field or Pool (if applicable): Avalon

3. Is this a new well drilled for injection? / / Yes **X** No

If no, for what purpose was the well originally drilled? Oil production (pre-produced prior to planned injection conversion

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used). No

5. Give the depth and name of any overlying and/or underlying oil and gas zones (pools) in this area.
Yates (350-400'), Bone Spring (5000-7000'), Atoka (7800-10800'), Wolfcamp (9000-10000'), Stawn (10000'), Morrow (11000') [*Depths are approximate*]

SUPPLEMENT TO APPLICATION FOR AUTHORIZATION TO INJECT
AVALON (DELAWARE) UNIT #539
EDDY COUNTY, NEW MEXICO

I. - IV. Form C-108

V. Composite map attached (Wells and Leases within 2 Miles / Unit map with 1/2 Mile Area of Review).

VI. Tabulation of well data within the 1/2 mile Area of Review (AOR).

VII. Proposed Operations:

1. Average daily injection rate: = 500 BPD
   Maximum daily injection rate: = 2000 BPD
   Volumes of fluids to be injected: = 141,200,000 Bbls

2. Open system.

3. Average and Maximum injection pressures: Average: = 400 psi
   Maximum: = 500 psi

4. Sources, analysis, and compatibility of injection fluid: Source water is from the Delaware and fresh water which will not exceed 20% of total volume. The water will be produced from Avalon Unit wells, two or three source water wells completed in non-productive intervals of the Lower Delaware, and fresh water from the cities of Carlsbad and Bill Taylor, New Mexico.

5. NA

VIII. Geologic Data:

The proposed interval for injection at the Avalon (Delaware) Field is a porous and permeable zone within the Delaware Mountain Group, which in the Avalon area consists of fine sandstones and coarse siltstones of the Cherry Canyon and Brushy Canyon Formations. The estimated average top and base for the Delaware at Avalon are:

	TOP	BASE
Delaware Montain Goup	2494 ft. (767 ft. subsea)	4860 ft. (-1599 ft. subsea) Top of Bone Spring Fm., 2366 ft. thick

Fresh water in this area occurs primarily in the Capitan aquifer, which occurs at approximately 750 feet deep (2500 feet subsea) [Hiss, 1976, New Mexico Bureau of Mines and Mineral Resources Resource Map 6]. At Avalon, approximately 600 feet of low porosity Goat Seep Reef separate the Delaware from porous zones within the Capitan aquifer. Other potential fresh water zones (primarily the Rustler Formation) occur above the Salado salt and anhydrite. The top of the anhydrite/salt at this location is generally less than 300 feet deep. This unit serves as an effective barrier between injected and fresh water zones near the surface. No fresh water occurs below the proposed injection zone.

IX. Proposed Stimulation Program:

No stimulation is scheduled; only water wetting chemical squeeze if needed.

X. Well Log: Previously filed.

XI. Chemical Analyses of fresh water wells (two or more if available) within one mile of injection well are attached.

XII. Injection Well. There are no indications of open faults or other hydrological connections between the proposed injection interval and the shallower fresh water zones.

XIII. Well Data: Tabular well data and well diagram schematics are attached.

XIV. Proof of Notice: Copy of legal publication and certified notice to surface owner and leasehold operators within one-half mile of well location are attached.

AFFIDAVIT OF MAILING

STATE OF TEXAS

COUNTY OF HARRIS

Michael J. Barbella, of lawful age, being duly sworn upon oath, deposes and says:

On the 22nd day of April, 2002, copies of Exxon Mobil's Application for Authorization to Inject (Form C-108) in the Avalon Delaware Unit, Well #539, Avalon Delaware Unit Field Area, Eddy County, New Mexico, were placed in the United States mail, certified in Houston, Texas. These were duly addressed to the surface owner(s) and leasehold operators within a one-half (1/2) mile radius, as shown on the attached address list and substantiated by the enclosed copies of certified return mail receipts.

Michael J. Barbella
Regulatory Specialist

SUBSCRIBED AND SWORN TO me this 22nd day of April, 2002.

KIM LYNCH
NOTARY PUBLIC, STATE OF TEXAS
MY COMMISSION EXPIRES
AUG. 26, 2002

Notary Public in and for the
State of Texas

My Commission Expires: [illegible].

MAILING LIST

Copies of the Form C-108 Application for Authorization to Inject for the **Avalon Delaware Unit,** Well **No. 539,** Eddy County, New Mexico were mailed to the following addresses.

LAND SURFACE OWNER "Of Record"

Bureau of Land Management
Carlsbad Resource Office
P. O. Box 1778
Carlsbad NM 88220

OFFSET OPERATORS

OXY USA WTP LP
P. O. Box 50250
Midland TX 79710-0250

Mewbourne Oil Company
P. O. Box 5270
Hobbs NM 88241

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
Newbourne Oil Company
P.O. Box 5270
Hobbs NM 88241

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery
Jackie Lathan 4/26

C. Signature
X Jackie Lathan ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

APR 26 2002 88240 USPS

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7001 1140 0004 7264 6494

PS Form 3811, March 2001 Domestic Return Receipt 102595-01-M-1424

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
OXY USA WTP LP
P.O. Box 50250
Midland, TX 79710-0250

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery
ARNIE HERRERA 4/24/02

C. Signature
X Arnie Herrera ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7001 1140 0004 7264 6487

PS Form 3811, March 2001 Domestic Return Receipt 102595-01-M-1424

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
BLM
Carlsbad Resource office
P.O. Box 1778
Carlsbad, NM 88220

COMPLETE THIS SECTION ON DELIVERY

A. Received by (Please Print Clearly) B. Date of Delivery
L. Silva 4.29

C. Signature
X L. Silva ☐ Agent ☐ Addressee

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7001 1140 0004 7264 6449

PS Form 3811, March 2001 Domestic Return Receipt 102595-01-M-1424

Permits

APR 29 2002

Affidavit of Publication

No 21986

State of New Mexico,
County of Eddy, ss.

Dawn Higgins,

being first duly sworn, on oath says:

That she is Business Manager of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of thc State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

April 14	2002
	2002
	2002
	2002
	2002
	2002

That the cost of publication is $ 36.12, and that payment thereof has been made and will be assessed as court costs.

Dawn Higgins

Subscribed and sworn to before me this

18 day of April, 2002

Stephanie Dobson

My commission expires 12/13/05

Notary Public

April 14, 2002

PUBLIC NOTICE

NOTICE OF APPLICATION FOR AUTHORIZATION TO INJECT

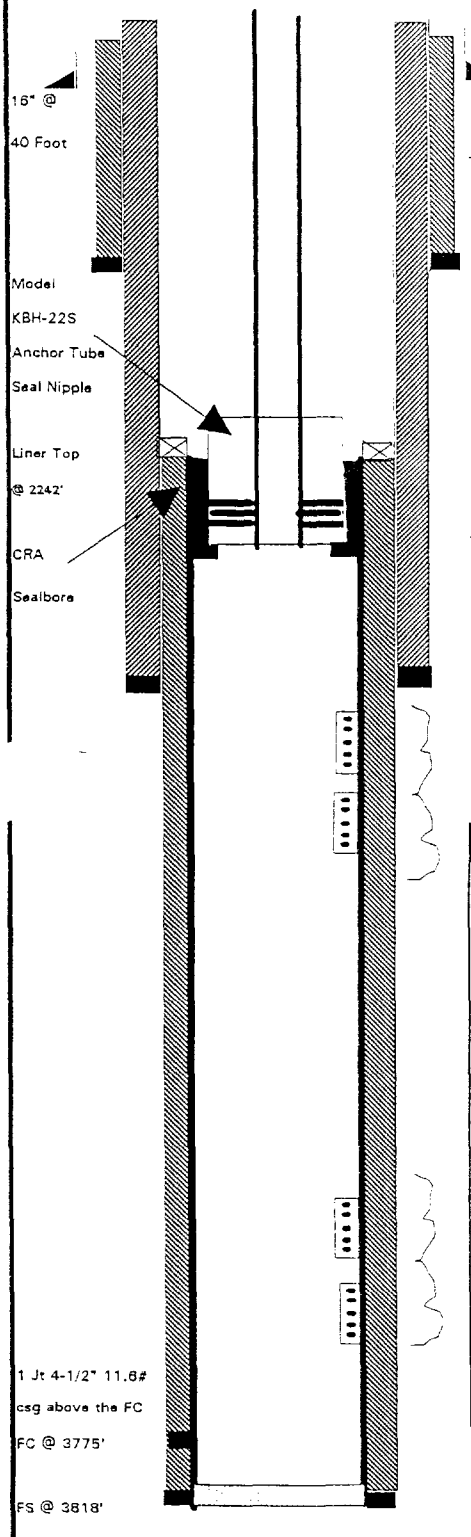
Applicant:
Exxon Mobil Corporation
P.O. Box 4358
Houston, TX
77210-4358
Contact Person - M.J. Barbella
Phone: (713) 431-1779

Item:
Application is being made to the New Mexico Oil Conservation Division for authorization to inject fluid into the Avalon Delaware Unit Well No. 539. The well is located 2600' FSL and 1322' FWL of Section 31, T20S, R28E, Eddy County, New Mexico. The injection zone will be the Delaware formation from 2516' to 3626'. The maximum injection rate will be 2000 barrels per day; the maximum injection pressure will be 500 psig. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87504-2088 within 15 days.

WELLBORE SKETCH AND WELL HISTORY

ELEV.: KB: 3264' 13 Feet ABOVE GL

Lease & Well Name: ADU 539
Field: Avalon Delaware Unit
Location: 2600' FSL/1322' FWL, Sec 31
T20S/R28E Eddy County, New Mexico
Date: 5/9/96 By: P.A. Sanchez



Hole Size 14-3/4"
TOC: Surface

10-3/4" @ 641'
CMT 515 Sx
Circ 115

PROPOSED

Hole Size 9-7/8"
TOC: Surf
7-5/8" @ 2439'

CMT 750 Sx
Circ 158 SX

Hole Size 6-3/4"
TOC: 2242' (CIRC)

Perfs

Upper Cherry Canyon
2516-20 0 Degree
2544-50 (1SPF)
2560-76 2600-44
2666-78
UCC - 87 perfs

Upper Brushy Canyon
3556-3600 (1SP2F)
3616-26 (1SPF)
0 Degree

UBC - 34 perfs

4-1/2" Liner @ 3818'

CMT 285 Sx
Circ Full Returns

MARKER JOINTS
3482' 3480'

TD: 3820' PBTD: 3775

Casing Record

Surface Casing

OD	WT/Ft	Grade	Set @
10-3/4"	40.5#	K55	641

Intermediate Casing

7-5/8"	26.4#	K-55	2439'

Production Liner

4-1/2"	5.41#	FG	2242-3734
4-1/2"	11.6#	K-55	3734-3818

Tubing

Type UNKOWN UNTIL WELL IS COMPLETED

WELL HISTORY

May-96 D&C well.

645074250

COMPANY: Exxon Company, U.S.A.

WELL: Avalon Delaware Unit No. 539

FIELD: Avalon Delaware

COUNTY: Eddy **STATE:** New Mexico

COUNTY: Eddy
Field: Avalon Delaware
Location: 2600' FSL and 1322' FWL
Well: Avalon Delaware Unit No. 539
Company: Exxon Company, U.S.A.

Schlumberger

Platform Express
Compensated Neutron
Litho-Density /GR/SP

LOCATION: 2600' FSL and 1322' FWL

Elev.: K.B. 3264.5 F
G.L. 3251 F
D.F. 3263.5 F

Permanent Datum:	Ground Level	Elev.:	3251 F
Log Measured From:	Kelly Bushing	13.5 F	above Perm. Datum
Drilling Measured From:	Kelly Bushing		

API Serial No.	SECTION	TOWNSHIP	RANGE
30-015-28682	31	20-S	28-E

Logging Date		26 April, 1996			
Run Number		One			
Depth Driller		3820 F			
Schlumberger Depth		3820 F			
Bottom Log Interval		3802 F			
Top Log Interval		150 F			
Casing Driller Size @ Depth		7.625 IN	@ 2439 F	@	
Casing Schlumberger		2437 F			
Bit Size		6.750 IN			
Type Fluid In Hole		Gel / Fresh Water			
MUD Density	Viscosity	8.4 LB/G	28 S		
MUD Fluid Loss	PH	0.C3	10		
MUD Source Of Sample		Circulation Tank			
RM @ Measured Temperature		9.680 OHMM	@ 86 DEGF	@	
RMF @ Measured Temperature		9.680 OHMM	@ 86 DEGF	@	
RMC @ Measured Temperature			@	@	
Source RMF	RMC	Measured			
RM @ MRT	RMF @ MRT	8.571 @ 98	8.571 @ 98	@	@
Maximum Recorded Temperatures		98 DEGF			
Circulation Stopped	Time	26 April, 1996	10.00		
Logger On Bottom	Time	26 April, 1996	See Log		
Unit Number	Location	3015	Roswell		
Recorded By		Fatih M. Kara			
Witnessed By		David Rosen			

Integrated Hole Volume Minor Pip Every 10 F3
Integrated Hole Volume Major Pip Every 100 F3
Integrated Cement Volume Minor Pip Every 10 F3
Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

Gamma Ray Backup
From T1 to GR_1

Gamma Ray (GR)
100 (GAPI) 200

Tension (TENS)
10000 (LBF) 0

SP (SP)
-160 (MV) 40

Caliper (HCAL)
4 (IN) 14

Gamma Ray (GR)
0 (GAPI) 100

MAIN LOG

Env.Corr.Thermal Neutron Porosity (TNPH)
0.3 (V/V) -0.1

Formation Density (RHOZ)
2 (G/C3) 3

HRDD Density Correction (HDRA)
-0.05 (G/C3) 0.45

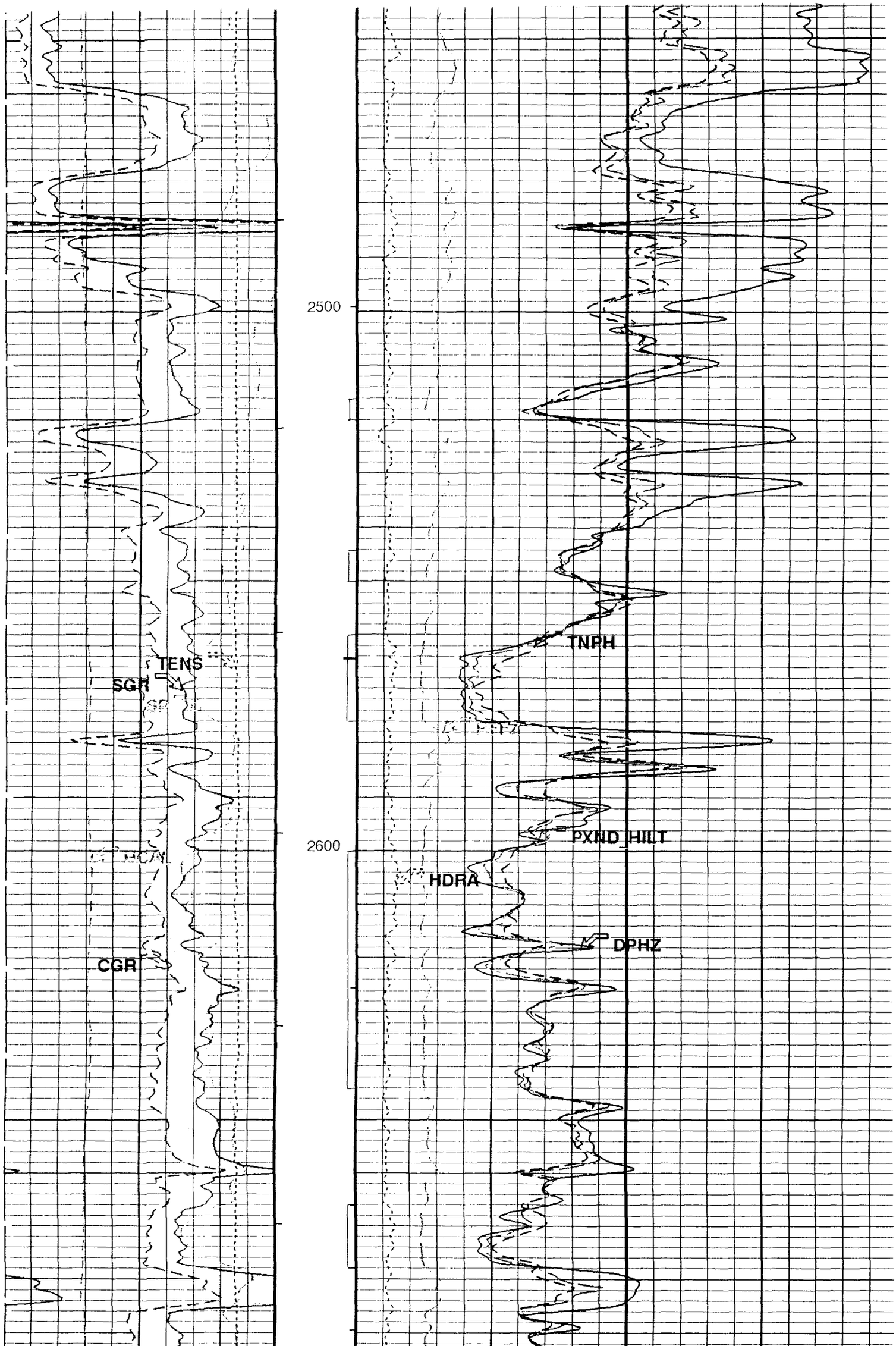
Last Reading

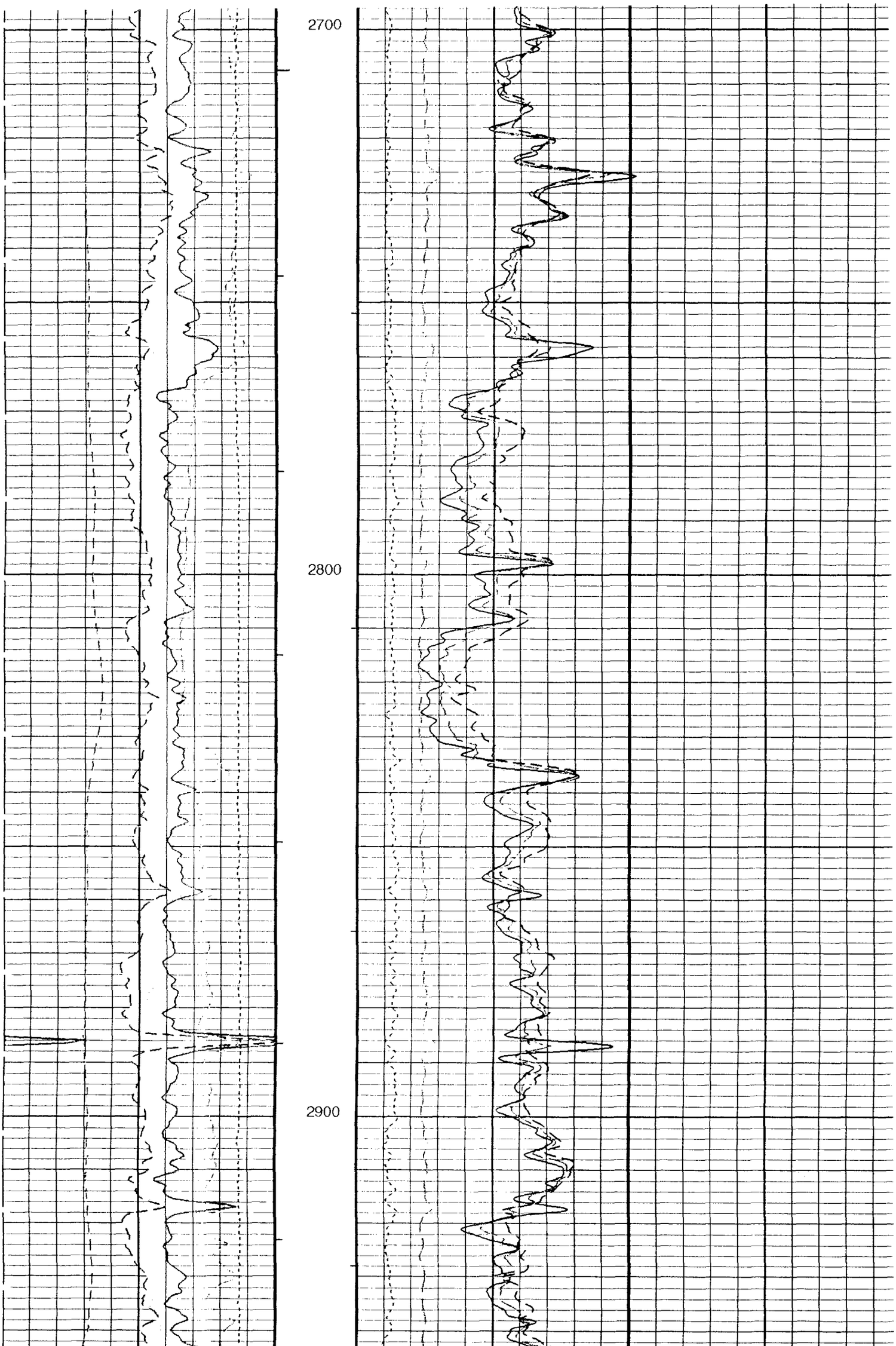
200

300

400

500


TENS
SGR
CGR
2500
2600
TNPH
PXND_HILT
HDRA
DPHZ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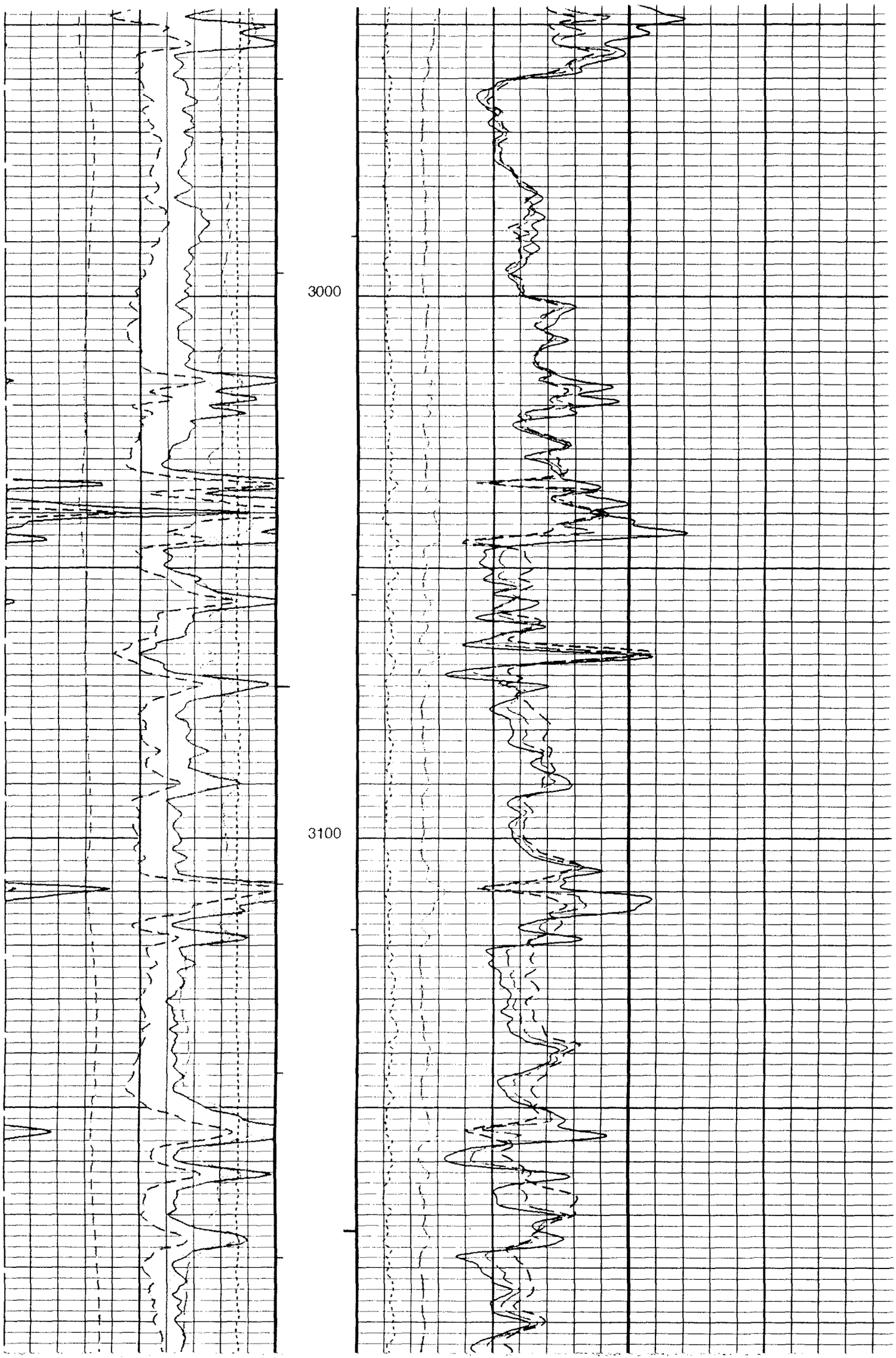
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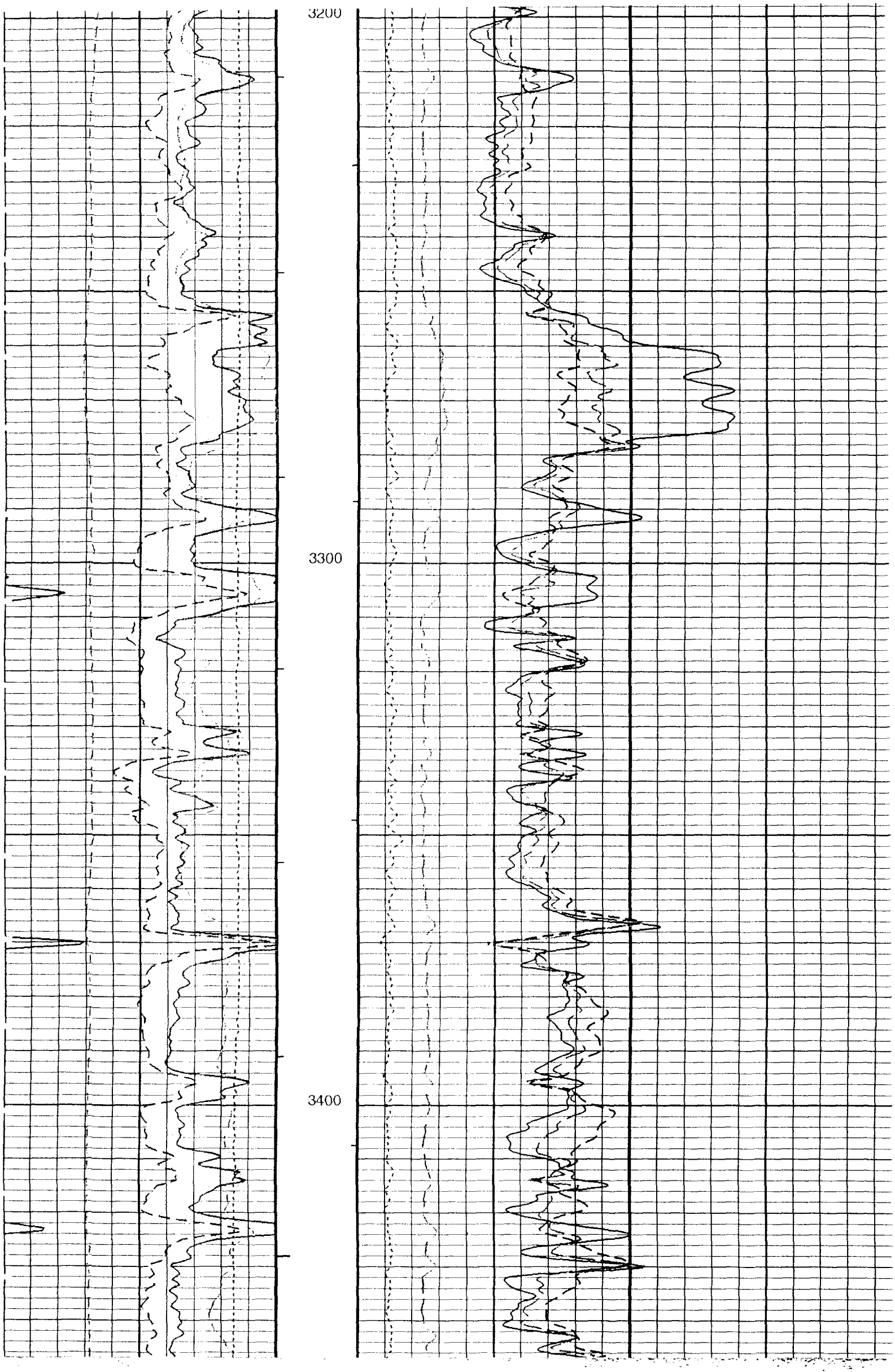
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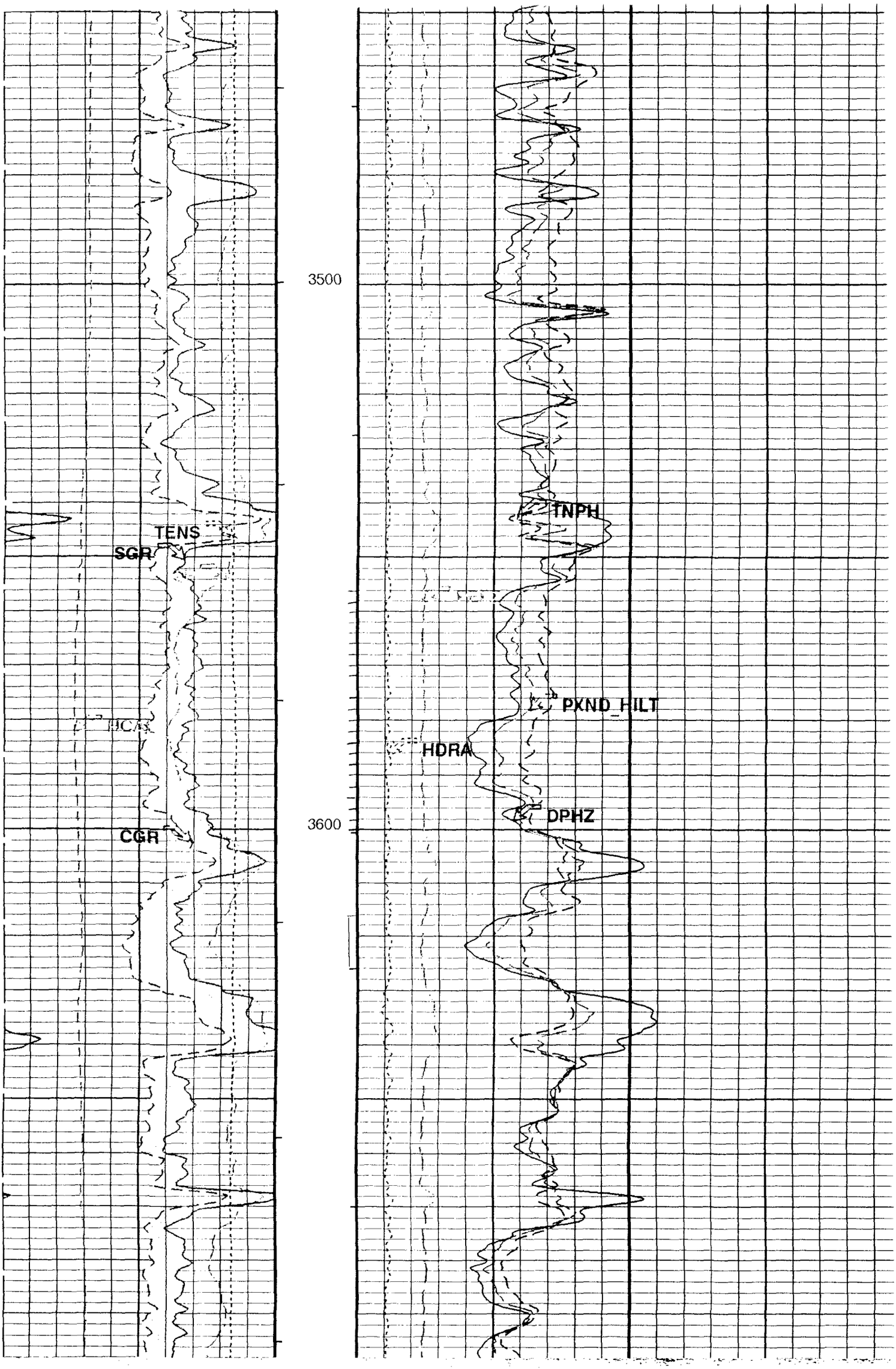
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TNPH
TENS
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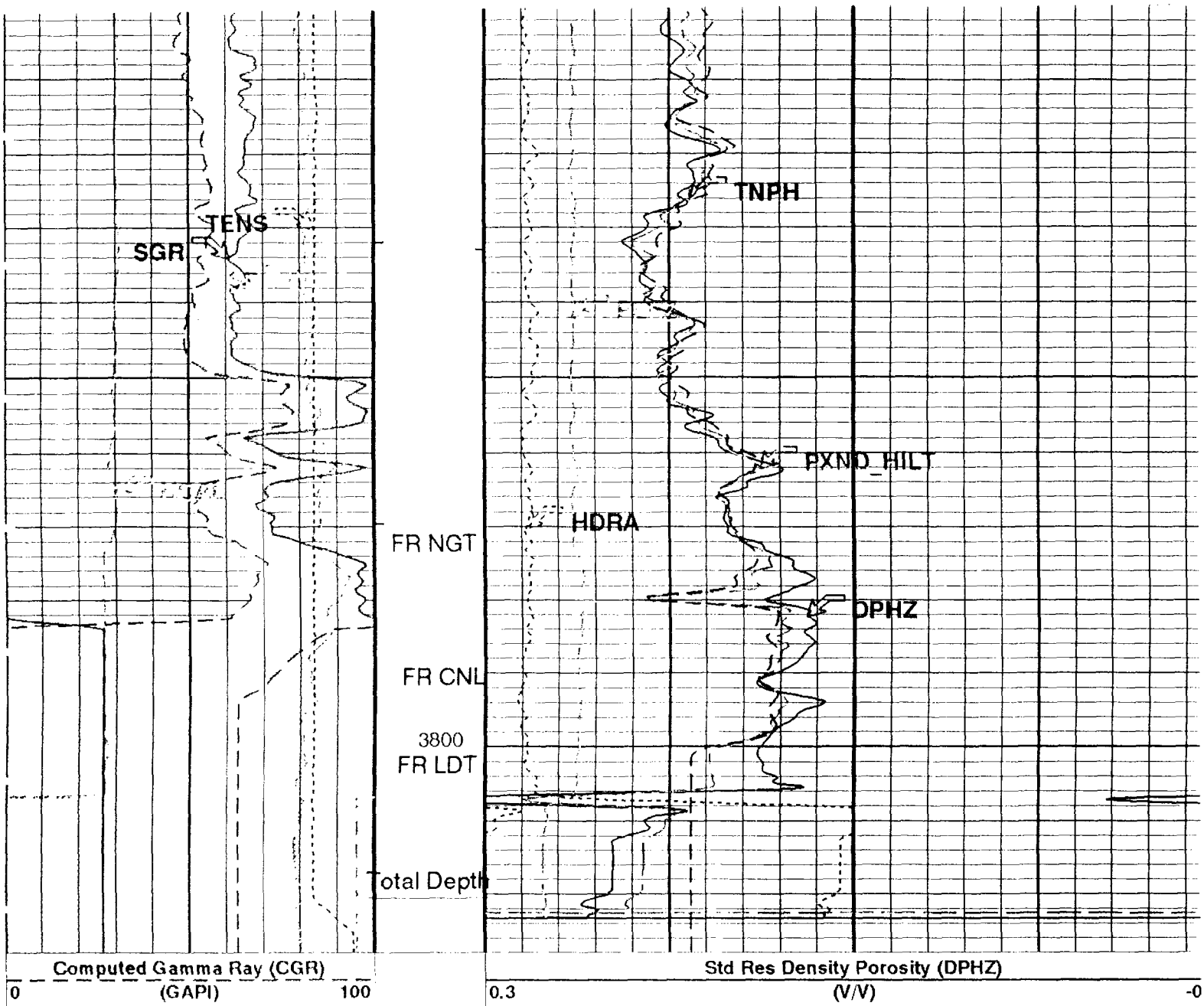
PXND_HILT
HDRA
DPHZ
3600
CGR



Computed Gamma Ray (CGR)
0 (GAPI) 100

Std Res Density Porosity (DPHZ)
0.3 (V/V) -0

HRDD Density Correction (HDRA)
-0.05 (G/C3) 0.45

Hilt Porosity CrossPlot (PXND_HILT)
0.3 (V/V) -0

Spectroscopy Gamma Ray (SGR)
0 (GAPI) 100

Tension (TENS)
10000 (LBF) 0

Thermal Neutron Porosity (TNPH)
0.3 (V/V) -0

Uranium
From CGR to SGR

MAIN LOG

PIP SUMMARY

- Integrated Hole Volume Minor Pip Every 10 F3
- Integrated Hole Volume Major Pip Every 100 F3
- Integrated Cement Volume Minor Pip Every 10 F3
- Integrated Cement Volume Major Pip Every 100 F3

Time Mark Every 60 S

AIT-H Answer Product Processing Summary. Data taken with tool # 76 (AHTNO)

...Acquired data from HILT/HAIT

***** Bhole Correction *****

Effective Tool Standoff computed. Borehole diameter and mud res. taken as input (see GCSE and GRSE parameters)

Tool is run in ECCENTERED mode with a tool stand-off of 1.00 IN. Bit Size is 6.75 IN.

***** Input Selections to AIT Answer Product processing *****

Caliper (GCSE): HCAL Mud Resistivity (GRSE): AHMF Temperature (GTSE): LINEAR_ESTIMATE Porosity (FPHI): DPHZ

***** Other parameters used by AIT-H Answer Product processing *****

Surface Hole Temperature (SHT)	68.000 DEGF	Bottom Temperature (BHT)	98.000 DEGF
Total Depth (TD)	3820.000 FT		
Form Factor Exponent (FEXP)	2.000	Form Factor Numerator (FNUM)	1.000

Avalon Delaware Unit

Wells within 1/2 mile radius of ADU 539

Operator	Well Name/#	Status	API No.	S-T-R	Location Footage	Drill / Spud	TD, Ft	Completion	CSG	Depth	Cmt(SX)
Exxon Mobil Corp.	AVALON_UT_0433	Oil	30-015-23443	36-20S-27E	2180 FSL, 660 FEL	9/4/80	4,845	4724-4766	13-3/8	410	400
									8-5/8	2405	1200
									4-1/2	4845	600
Exxon Mobil Corp.	AVALON_UT_0507W	WIW	30-015-28678	31-20S-28E	101 FNL, 1355 FWL	6/17/96	3,870	2498-3614	10-3/4	631	515
									7-5/8	2451	750
									4-1/2	3868	294
Exxon Mobil Corp.	AVALON_UT_0509	Oil	30-015-24332	31-20S-28E	660 FNL, 660 FWL	12/18/82	4,710	2506-3676	8-5/8	627	1300
									5-1/2	4704	750
Exxon Mobil Corp.	AVALON_UT_0511	Oil	30-015-24524	31-20S-28E	760 FNL, 1980 FWL	8/26/83	3,897	2568-3626	13-3/8	606	850
									8-5/8	2482	1280
									5-1/2	3887	750
Exxon Mobil Corp.	AVALON_UT_0520W	WIW	30-015-28664	31-20S-28E	1388 FNL 2750 FWL	11/28/95	3,781	2590-3628	10-3/4	635	515
									7-5/8	2453	950
									4-1/2	3781	231
Exxon Mobil Corp.	AVALON_UT_0522	Oil	30-015-02434	31-20S-28E	1980 FNL, 1980 FWL	1/6/83	4,700	2518-3970			
									8-5/8	634	500
									5-1/2	4699	950
Exxon Mobil Corp.	AVALON_UT_0523	WIW	30-015-28910	31-20S-28E	1336 FNL 1314 FWL	6/4/96	3,800	2556-3738	10-3/4	626	515
									7-5/8	2455	750
									4-1/2	3799	325
Exxon Mobil Corp.	AVALON_UT_0525	Oil	30-015-24336	31-20S-28E	2180 FNL, 660 FWL	12/17/82	4,725	2570-4327			
									8-5/8	602	1200
									5-1/2	4720	904
Exxon Mobil Corp.	AVALON_UT_0530	Oil	30-015-24335	31-20S-28E	1980 FNL, 1980 FEL	12/2/83	4,700	2574-3650	8-5/8	618	400
									5-1/2	4693	1215
Exxon Mobil Corp.	AVALON_UT_0536	Oil	30-015-24525	31-20S-28E	2310 FSL, 2310 FEL	9/15/83	3,885	2596-3640	13-3/8	593	700
									8-5/8	2491	925
									5-1/2	3876	525
Exxon Mobil Corp.	AVALON_UT_0537W	WIW	300152868300	31-20S-28E	2610 FWL, 2549 FWL	5/13/96	3,800	2544-3656	10-3/4	627	515
									7-5/8	2455	750
									4-1/2	3798	330
Exxon Mobil Corp.	AVALON_UT_0539	Oil	300152868200	31-20S-28E	2600 FSL, 1322 FWL	4/13/96	3,820	2516-3626	10-3/4	641	515
									7-5/8	2439	750
									4-1/2	3818	285
Exxon Mobil Corp.	AVALON_UT_0540	Oil	300152438600	31-20S-28E	1980 FSL, 660 FWL	7/14/83	4,944	2724-3634	13-3/8	619	700
									8-5/8	2493	1700
									5-1/2	4944	1800
Exxon Mobil Corp.	AVALON_UT_0542W	WIW	300152868400	31-20S-28E	1337 FSL, 1324 FWL	5/24/96	3,875	2644-3774	10-3/4	621	515
									7-5/8	2509	1050
									4-1/2	3874	340
Exxon Mobil Corp.	AVALON_UT_0543	Oil	300152437600	31-20S-28E	1980 FSL 1980 FWL	6/1/83	5,000	2548-3656	13-3/8	632	525
									8-5/8	2525	850
									5-1/2	4988	700
Exxon Mobil Corp.	AVALON_UT_0546W	SWDW	300152404800	31-20S-28E	1980 FSL, 1980 FEL	8/7/82	11,901	9004-9130	13-3/8	588	600
									9-5/8	3027	1250
									5-1/2	11901	1780
Exxon Mobil Corp.	AVALON_UT_0556	TA/Oil	300152437900	31-20S-28E	660 FSL, 660 FWL	10/12/83	4,930	2585-2610	13-3/8	596	1000
									8-5/8	2513	1300
									5-1/2	4923	1150
Exxon Mobil Corp.	AVALON_UT_0570W	WIW	300152866600	31-20S-28E	2564 FNL, 1377 FEL	12/11/95	3,849	2600-3692	10-3/4	630	515
									7-5/8	2449	750
									4-1/2	3849	310
Exxon Mobil Corp.	YATES C FED 1	Gas	300152404700	31-20S-28E	1980 FWL, 660 FNL	3/25/82	11,470	11040-11110	13-3/8	584	950
									9-5/8	3154	985
									7	10395	550
										9901-	
									5 (lr)	11467	160

API	Well Name	Well Type	Current Perfs	PerfDate	Hole	Casing	Top	Bottom	Sacks	CmtTop
30-015-28678	AVALON Del UNIT #507	WIW	2498-3614	9/96	6 3/4	4 1/2 LM	2263	3868	294	
30-015-24332	AVALON Del UNIT #509									
30-015-24524	AVALON Del UNIT #511		2588-3470	9-83	7 7/8	5 1/2	0	3887	775	
30-015-28664	AVALON Del UNIT #520									
30-015-02434	AVALON Del UNIT #522									
30-015-28910	AVALON Del UNIT #523									
30-015-24336	AVALON Del UNIT #525									
30-015-24335	AVALON Del UNIT #530									
30-015-24525	AVALON Del UNIT #536									
30-015-28683	AVALON Del UNIT #537									
30-015-28682	AVALON Del UNIT #539									
30-015-24386	AVALON Del UNIT #540									
30-015-28684	AVALON Del UNIT #542									
30-015-24376	AVALON Del UNIT #543									
30-015-24048	AVALON Del UNIT #546									
30-015-24379	AVALON Del UNIT #556									
30-015-28666	AVALON Del UNIT #570									
30-015-24047	YATES C FEDERAL #001									
	AVALON Del UNIT #433									

API	Well Name	NS Ftg	EW Ftg	UL	Sec	Tsp	Rge	Oper	OGRID	Prop	Pool	Form/Notes	Active Zone 2001	G2000	Oil2000	W2000	G2001	Oil2001	W2001
30-015-28678	AVALON Del UNIT #507	101N	1355W	D	31	20S	28E	EXXON	7673	17612	3715	DELAWARE	AVALON;DELAWARE	0	0	0	0	0	0
30-015-24332	AVALON Del UNIT #509	660N	660W	D	31	20S	28E	EXXON	7673	17612	3715		AVALON;DELAWARE	9509	3605	15248	6166	2917	10488
30-015-24524	AVALON Del UNIT #511	760N	1980W	C	31	20S	28E	EXXON	7673	17612	3715		AVALON;DELAWARE	23196	5523	16427	17435	6303	9968
30-015-28664	AVALON Del UNIT #520	1388N	2750W	G	31	20S	28E	EXXON	7673	17612	3715	DELAWARE	AVALON;DELAWARE	0	0	0	0	0	0
30-015-02434	AVALON Del UNIT #522	1980N	1980W	F	31	20S	28E	EXXON	7673	17612	3715	DELAWARE	AVALON;DELAWARE	28048	17299	29238	20283	15788	21205
30-015-28910	AVALON Del UNIT #523	1336N	1314W	E	31	20S	28E	EXXON	7673	17612	3715	DELAWARE	AVALON;DELAWARE	0	0	0	0	0	0
30-015-24336	AVALON Del UNIT #525	2180N	660W	E	31	20S	28E	EXXON	7673	17612	3715		AVALON;DELAWARE	6121	1250	34615	3393	767	20717
30-015-24335	AVALON Del UNIT #530	1980N	1980E	G	31	20S	28E	EXXON	7673	17612	3715		AVALON;DELAWARE	9797	12101	40818	5823	9859	30547
30-015-24525	AVALON Del UNIT #536	2310S	2310E	J	31	20S	28E	EXXON	7673	17612	3715		AVALON;DELAWARE	5699	1384	71079	3216	1251	61607
30-015-28683	AVALON Del UNIT #537	2610S	2549W	K	31	20S	28E	EXXON	7673	17612	3715	DELAWARE	AVALON;DELAWARE	0	0	0	0	0	0
30-015-28682	AVALON Del UNIT #539	2600S	1322W	L	31	20S	28E	EXXON	7673	17612	3715	DELAWARE	AVALON;DELAWARE	27354	8772	23181	16427	4399	14363
30-015-24386	AVALON Del UNIT #540	1980S	660W	L	31	20S	28E	EXXON	7673	17612	3715		AVALON;DELAWARE	10487	4897	36063	6374	3441	25054
30-015-28684	AVALON Del UNIT #542	1337S	1324W	L	31	20S	28E	EXXON	7673	17612	3715	DELAWARE	AVALON;DELAWARE	0	0	0	0	0	0
30-015-24376	AVALON Del UNIT #543	1980S	1982W	K	31	20S	28E	EXXON	7673	17612	3715		AVALON;DELAWARE	5649	6945	16321	4389	5035	14596
30-015-24048	AVALON Del UNIT #546	1980S	1980E	J	31	20S	28E	EXXON	7673	17612	96135		SWD;WOLFCAMP	0	0	0	0	0	0
30-015-24379	AVALON Del UNIT #556	660S	660W	M	31	20S	28E	EXXON	7673	17612	0			0	0	0	0	0	0
30-015-28666	AVALON Del UNIT #570	2564N	1377E	G	31	20S	28E	EXXON	7673	17612	3715	DELAWARE	AVALON;DELAWARE	0	0	0	0	0	0
30-015-24047	YATES C FEDERAL #001	660N	1980W	C	31	20S	28E	EXXON	7673	4211	73280		BURTON FLAT;MOR(P GAS)	38405	9	349	21428	10	289
	AVALON Del UNIT #433				26	20S	27E	EXXON											

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE