

8/13/12 DATE IN	SUSPENSE	WVJ ENGINEER	11/2/12 LOGGED IN	SWD TYPE	PKVR 1223029759 APP NO.
--------------------	----------	-----------------	----------------------	-------------	----------------------------

REMOVED
11/2/12
Narrowed Interval

ABOVE THIS LINE FOR DIVISION USE ONLY

1361

NEW MEXICO OIL CONSERVATION DIVISION
- Engineering Bureau -
1220 South St. Francis Drive, Santa Fe, NM 87505



COPY

ADMINISTRATIVE APPLICATION CHECKLIST

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

Application Acronyms:

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

- [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]
- [A] Location - Spacing Unit - Simultaneous Dedication
 NSL NSP SD
- Check One Only for [B] or [C]
- [B] Commingling - Storage - Measurement
 DHC CTB PLC PC OLS OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
 WFX PMX SWD IPI EOR PPR
- [D] Other: Specify _____

GUNNER 16 State SWD
COG OPERATING LLC
DEVON Protest 8/22/12

- [2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply
- [A] Working, Royalty or Overriding Royalty Interest Owners
- [B] Offset Operators, Leaseholders or Surface Owner
- [C] Application is One Which Requires Published Legal Notice
- [D] Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

BRIAN COLLINS
Print or Type Name

Brian Collins
Signature

SENIOR OPERATIONS ENGINEER
Title

24 Oct 12
Date

bcollins@concho.com
e-mail Address



October 29, 2012

RECEIVED OGD

2012 NOV -2 P 12: 14

New Mexico Oil Conservation Division
Attn: William V. Jones
1220 South St. Francis Drive
Santa Fe, NM 87505

RE: Revised C-108/Affidavit/Return Receipts/Lease Map
Gunner 16 State SWD #1
Township 26 South, Range 34 East, N.M.P.M.
Section 16: 330' FNL & 330' FWL
Lea County, New Mexico

Dear Mr. Jones:

COG Operating LLC recently submitted an application for authorization to inject for the Gunner 16 State SWD #1 on August 10, 2012. Enclosed, for your review, please find a revised C-108 Application along with a copy of OXY Y-1 Company's notification letter. Please also find one copy of the affidavit of publication and one copy of the certified return receipt from each party that was notified. Also enclosed is a lease map identifying all of the separately owned tracts of land along with the owners of each tract.

Please do not hesitate to contact me at (575) 748-6940 should you have any questions.

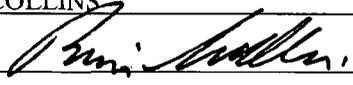
Sincerely,

A handwritten signature in cursive script that reads "Brian Collins".

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No
- II. OPERATOR: _____ COG OPERATING LLC _____
ADDRESS: _____ 2208 W. Main Street, ARTESIA, NM 88210 _____
CONTACT PARTY: _____ BRIAN COLLINS _____ PHONE: _____ 575-748-6940 _____
- 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? _____ Yes _____ No
If yes, give the Division order number authorizing the project: _____
- 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 geologic data on the injection zone including appropriate lithologic detail, geologic 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 sources 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 sources 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: _____ BRIAN COLLINS _____ TITLE: _____ Senior Operations Engineer _____
SIGNATURE: _____  _____ DATE: _____ 24 Oct 12 _____
E-MAIL ADDRESS: _____ bcollins@concho.com _____
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

C-108 Application for Authorization to Inject
GUNNER 16 STATE SWD #1
Unit D, Sec 16 T26S R34E
Lea County, NM

COG Operating, LLC, proposes to drill the captioned well to 7000' for salt water disposal service into the Delaware Sand from 6000' to 6900'. An APD will be submitted upon approval of this C-108.

- V. Map is attached.
- VI. No wells within the ½ mile radius area of review penetrate the proposed injection zone.
- VII.
 - 1. Proposed average daily injection rate = 7000 BWPD
Proposed maximum daily injection rate = 10000 BWPD
 - 2. Closed system
 - 3. Proposed maximum injection pressure = 1200 psi
(0.2 psi/ft. x 6000' ft.)
 - 4. Source of injected water will be Delaware Sand and Bone Spring Sand produced water. No compatibility problems are expected. Analyses of Delaware and Bone Spring waters from analogous source wells are attached.
- VIII. The injection zone is the Delaware Sandstone, a fine-grained sandstone from 6000' to 6900'. Any underground water sources will be shallower than 251'.
- IX. The Delaware sand injection interval might be acidized with approximately 20 gal/ft of 7 ½ % HCl acid. If necessary, the injection interval may be fraced with up to 150,000 lbs. of sand.
- X. Well logs, if run, will be filed with the Division. A section of the neutron-density porosity log from an analogous well 5250' to the west showing the injection interval is attached.
- XI. There are no fresh water wells within a mile of the proposed SWD well. Water analysis for the nearest fresh water will, located in the NE/4 Section 6-T26S-R34E, is attached.
- XII. After examining the available geologic and engineering data, no evidence was found of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Proof of Notice is attached.

III.

WELL DATA

INJECTION WELL DATA SHEET

OPERATOR: COG Operating LLC

WELL NAME & NUMBER: Gunner 16 State SWD No. 1

WELL LOCATION: 330' FNL 330' FWL D 16 26s 34e
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

Well will be drilled for SWD use.
Proposed wellbore schematic is attached.

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8" @ ±790'
Cemented with: _____ sx. or ±1150 ft³
Top of Cement: Surface Method Determined: By Design

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 9 5/8" @ ±5225'
Cemented with: _____ sx. or ±3325 ft³
Top of Cement: Surface Method Determined: By Design

Production Casing

Hole Size: 8 3/4" Casing Size: 7" @ ±7000'
Cemented with: _____ sx. or 550 ft³
Top of Cement: 4725' Method Determined: By Design
Total Depth: 7000'

Injection Interval

6000' feet to 6900'

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3 1/2" or 4 1/2" Lining Material: IPC/Dvoline 20
Type of Packer: 5K nickel plated double grip retrievable
Packer Setting Depth: ± 59.50'
Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1. Is this a new well drilled for injection? Yes No
If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Delaware Sand

3. Name of Field or Pool (if applicable): N/A

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

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: _____

Overlying: None
Underlying: Bone Spring: ± 9700' TVD, Wolfcamp: ± 13380'

30-925-

Gunner 16 State SWD 1
330' FNL, 330' FWL
D-16-26s-34e
Lea, NM

17 1/2"

13 3/8" / 54.5 / J55 / STC @ ±

1150 CF Cmt (Circ)

12 1/4"

3 1/2 or 4 1/2" Duoline 20 Inj Tbg

TDC 4725' Design

9 5/8" / 40 / J55, N80 / BTC @ ± 5225'

3325 CF Cmt (Circ)

8 3/4"

Inj PKR ± 5950'

Delaware Sand

6000 - 6900'

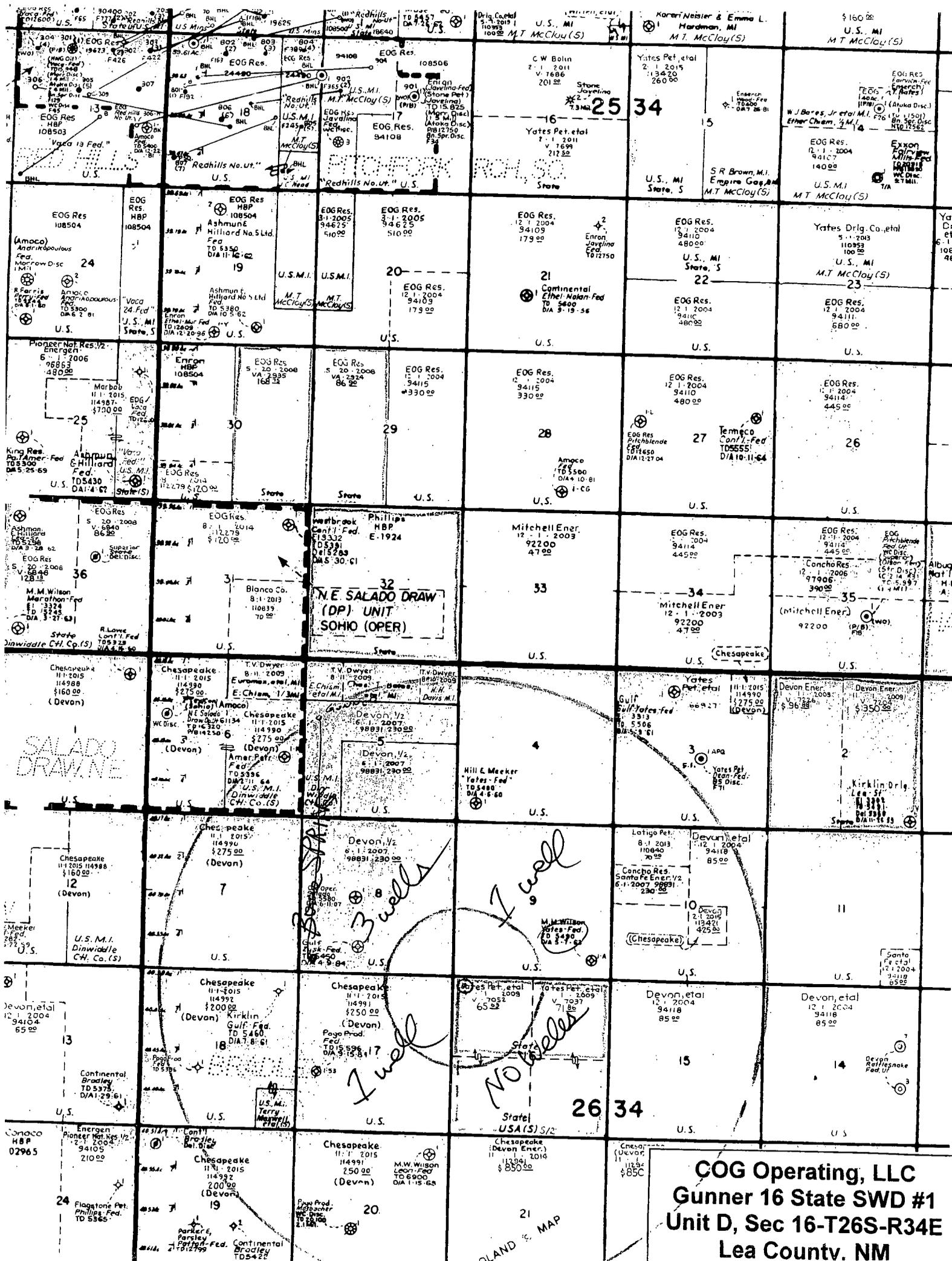
7" / 26 / J55 / LTC @ ± 7000'

550 CF Cmt (Design TDC 4725')

7000'

V.

MAP



COG Operating, LLC
Gunner 16 State SWD #1
Unit D, Sec 16-T26S-R34E
Lea County, NM

LAND & MAP

VII.

Water Analysis Produced and Receiving Formation Water

WATER SAMPLE REPRESENTATIVE OF WATER BEING INJECTED INTO THE PROPOSED SWD WELL												
Water is very similar to that of the receiving formation, therefore no compatibility problems are expected.												
Avalon												
Lab Test #	Lease	Location	Salesman	Date Out	Sample Date	Specific Gravity	Ionic Strength	TDS	pH	conductivity	Ca (mg/L)	Mg (mg/L)
2012105497	Gunner	8 Fed 8H		3/12/2012	12/17/2011	1.09	2.20	132205.83	5.90		11390.50	2098.17

Bone Spring Produced Water

1/2

TH (CaCO3)	Na (mg/L)	K (mg/L)	Zn (mg/L)	Fe (mg/L)	Ba (mg/L)	Sr (mg/L)	Mn (mg/L)	Resistivity	HCO3 (mg/L)	CO3 (mg/L)	OH (mg/L)	SO4 (mg/L)	Cl (mg/L)	CO2 (mg/L)	H2S (mg/L)
37551.69	48017.49	593.89	96.83	39.25	0.00	378.06	2.66		439.00	0.00		1050.00	68100.00	600.00	0.00

Representative Delaware Produced
And Receiving Formation Water

General Information About: Sample 4222			
NORTH EL MAR UNIT 022			
API	3002508278	Sample Number	
Unit/Section/ Township/Range	J / 25 / 26 S / 32 E	Field	EL MAR
County	Lea	Formation	DEL
State	NM	Depth	
Lat/Long	32.01136 / - 103.62579	Sample Source	UNKNOWN
TDS (mg/L)	244815	Water Type	
Sample Date (MM/DD/YYYY)		Analysis Date (MM/DD/YYYY)	
Remarks/Description			
Cation Information (mg/L)		Anion Information (mg/L)	
Potassium (K)		Sulfate (SO)	220
Sodium (Na)		Chloride (Cl)	153500
Calcium (Ca)		Carbonate (CO ₃)	
Magnesium (Mg)		Bicarbonate (HCO ₃)	88
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H ₂ S)	
Strontium (Sr)		Carbon Dioxide (CO ₂)	
Iron (Fe)		Oxygen (O)	

Data obtained from <http://octance.nmt.edu>

X.

**Log Across Proposed
Delaware Sand
Injection Interval
From Nearby
Analogous Well**

HALLIBURTON

COMPENSATED GAMMA RAY
DUAL SPACED NEUTRON
SPECTRAL DENSITY

COMPANY: COG OPERATING, LLC.
WELL: GUNNER 8 FEDERAL No. 8H
FIELD: WILDCAT; BONE SPRING
COUNTY: LEA
STATE: NEW MEXICO

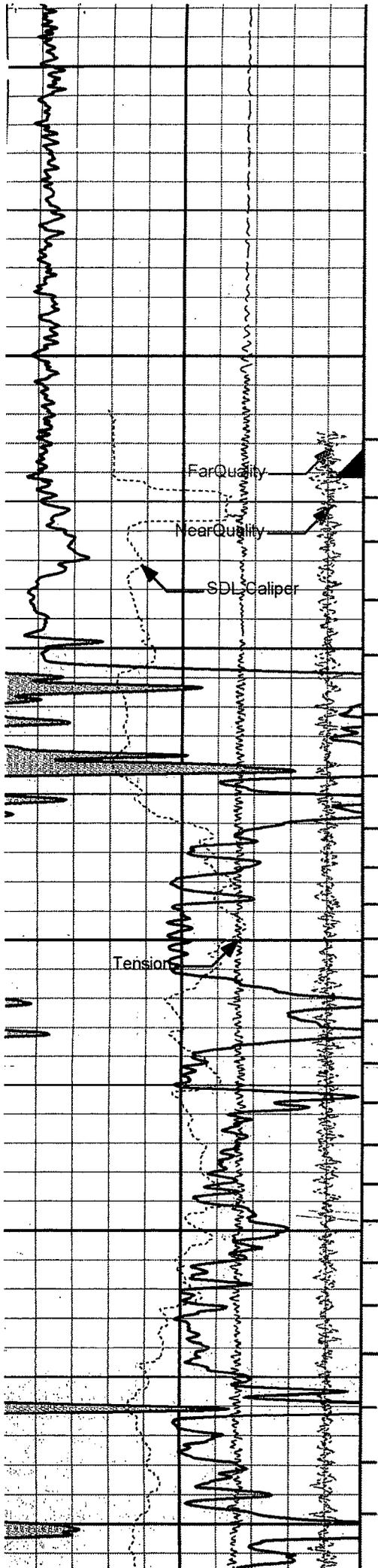
COMPANY: COG OPERATING, LLC.
WELL: GUNNER 8 FEDERAL No. 8H
FIELD: WILDCAT; BONE SPRING
COUNTY: LEA
STATE: NEW MEXICO

RECEIVED
COG OPERATING LEA
NOV 29 2011
ARTESIA WEST

Section: 8
Type: 26S
Rge: 34E
Elev: 3361.0 ft
Elev: K.B. 3382.0 ft
D.F. 3381.0 ft
G.L. 3361.0 ft

Permanent Datum	GL	Elev. 3361.0 ft
Log measured from	KB	Elev. 3381.0 ft
Drilling measured from	KB	Elev. 3361.0 ft
Run No.	ONE	
Depth - Driller	12500.00 ft	
Depth - Logger	12486.0 ft	
Depth - Logged Interval	12432.0 ft	
Top - Logged Interval	200.0 ft	
Logging - Driller	9.625 in @ 5245.0 ft	
Logging - Logger	5242.0 ft	
Bit Size	8.750 in	
Type Fluid in Hole	BRINE	
Density	9.7 ppG	28.00 spG
Viscosity	9.00 pH	
Fluid Loss	FLCWLIN	
Source of Sample		
Rm @ Meas. Temperature	0.070 ohmm @ 75.00 degF	
Rmf @ Meas. Temperature	0.05 ohmm @ 75.00 degF	
Rmc @ Meas. Temperature	0.088 ohmm @ 75.00 degF	
Source Rmf	MEAS	
Rm @ BHT	0.03 ohmm @ 159.0 degF	
Time Since Circulation	8.0 hr	
Time on Bottom	23-Nov-11 01:28	
Max Rec. Temperature	159.0 degF @ 12486.0 ft	
Equipment Location	700 HOBBS, NM	
Recorded By	DANIEL HEITZ	CHIDEBERE OKOLI
Witnessed By	RICHARD FREEMAN	

Service Ticket No. 9046735		API Serial No. 30-025-40309		PGM Version: WL INSITE R3.4.0 (Build 4)			
CHANGE IN MUD-TYPE OR ADDITIONAL SAMPLE				RESISTIVITY SCALE CHANGES			
Date	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole		
Depth-Driller							
Type Fluid in Hole							
Density	Viscosity						
Ph	Fluid Loss						
Source of Sample		RESISTIVITY EQUIPMENT DATA					
Rm @ Meas. Temp		Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other	
Rmf @ Meas. Temp							
Rmc @ Meas. Temp							
Source Rmf	Rmc						
Rm @ BHT							
Rmf @ BHT							
Rmc @ BHT							
EQUIPMENT DATA							
GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.	ONE	Run No.	ONE
Serial No.	10765654OR	Serial No.		Serial No.	90078467OR	Serial No.	90078467OR
Model No.	GTET	Model No.		Model No.	SDLT-I	Model No.	DSNT-I
Diameter	3.625 inch	No. of Cent.		Diameter	4.5 inch	Diameter	3.625 inch
Detector Model No.	T-102A	Spacing		Log Type	GAM-GAM	Log Type	NEU-NEU
Type	SCINT			Source Type	Cs 137	Source Type	Am241Be
Length	8.0 inch	LSA [Y/N]		Serial No.	5069GW	Serial No.	DSN-363
Distance to Source	24.0 ft	FWDA [Y/N]		Strength	1.5 Ci	Strength	15.0 Ci



5100

5200

5300

5400

2400.0

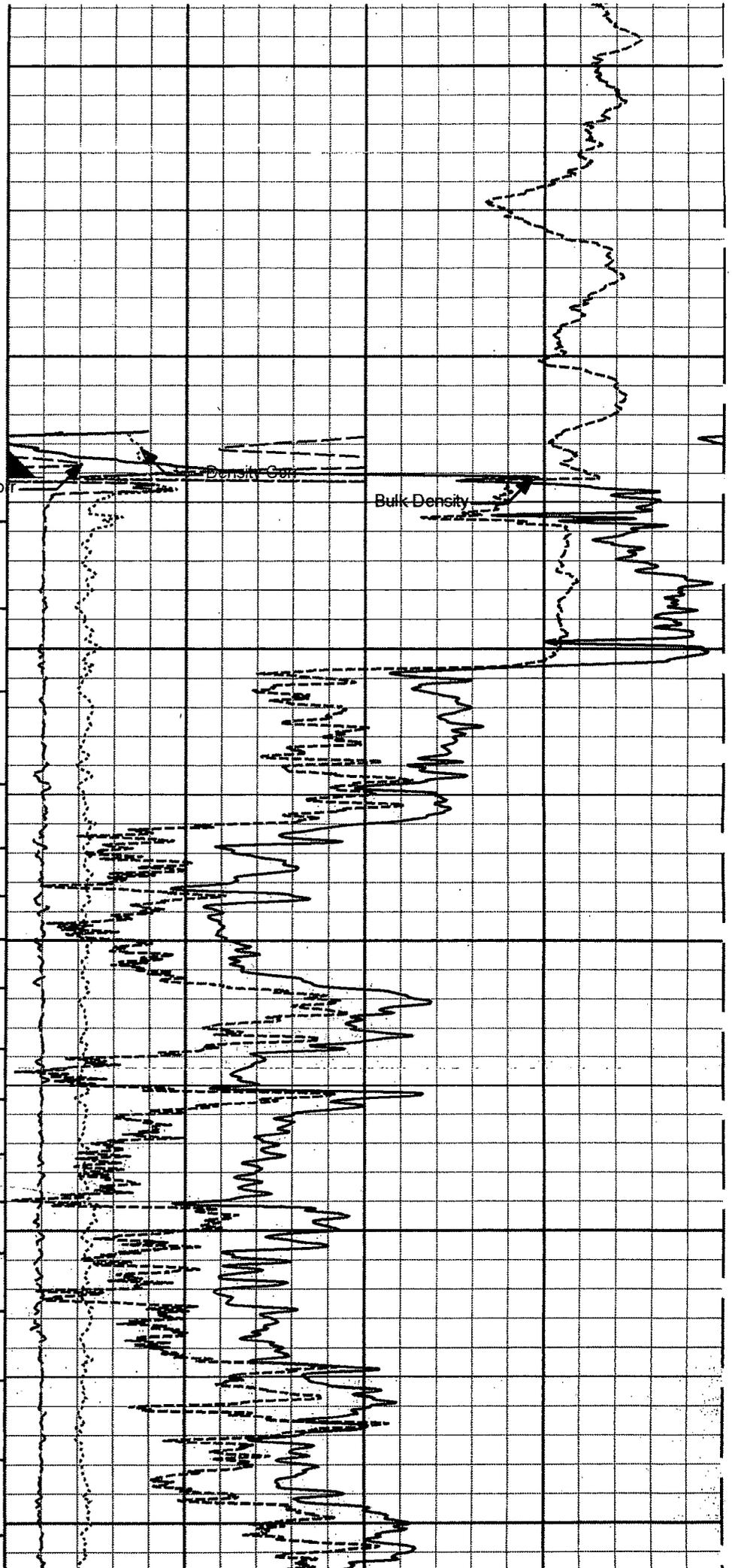
5500

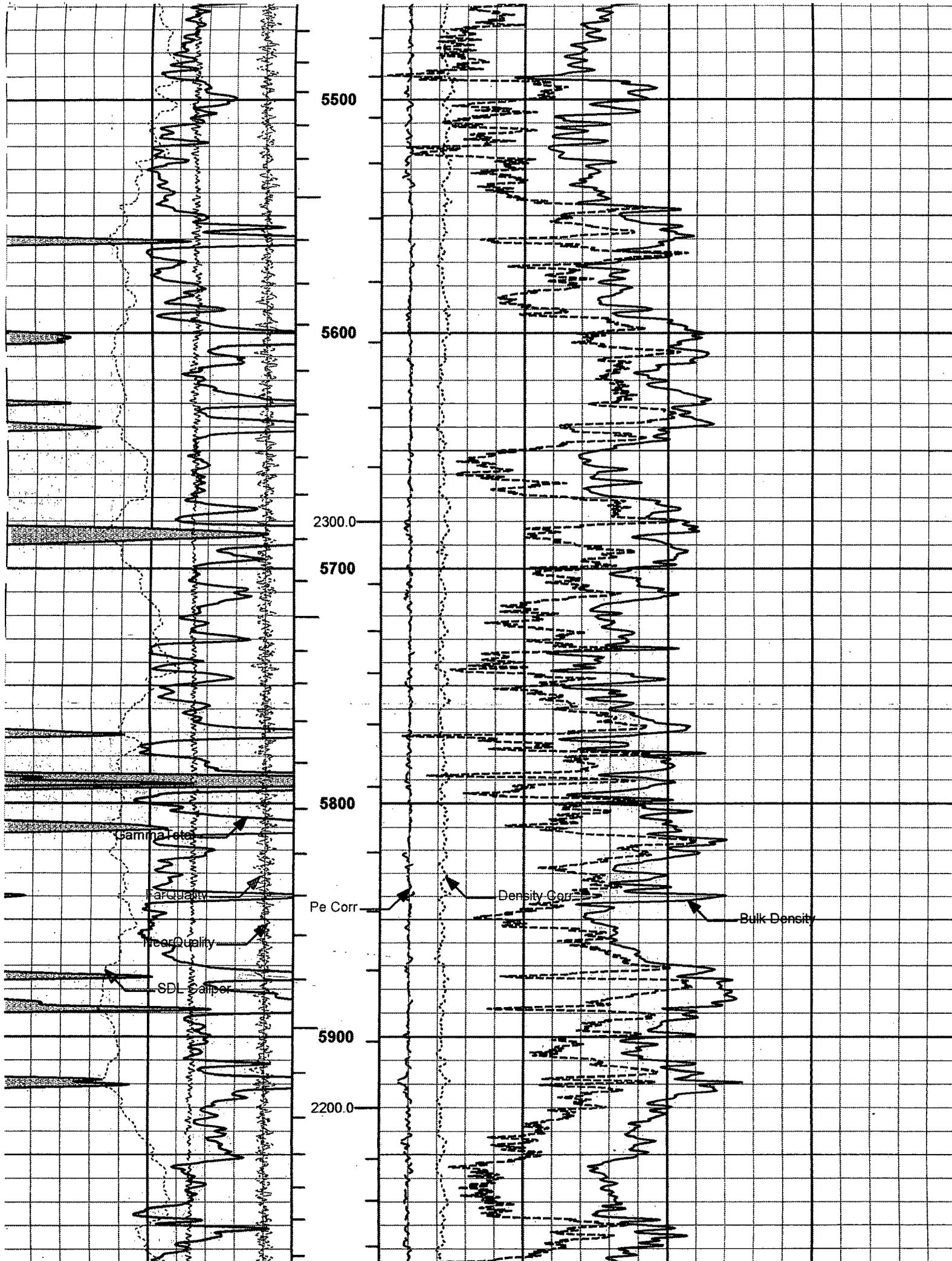
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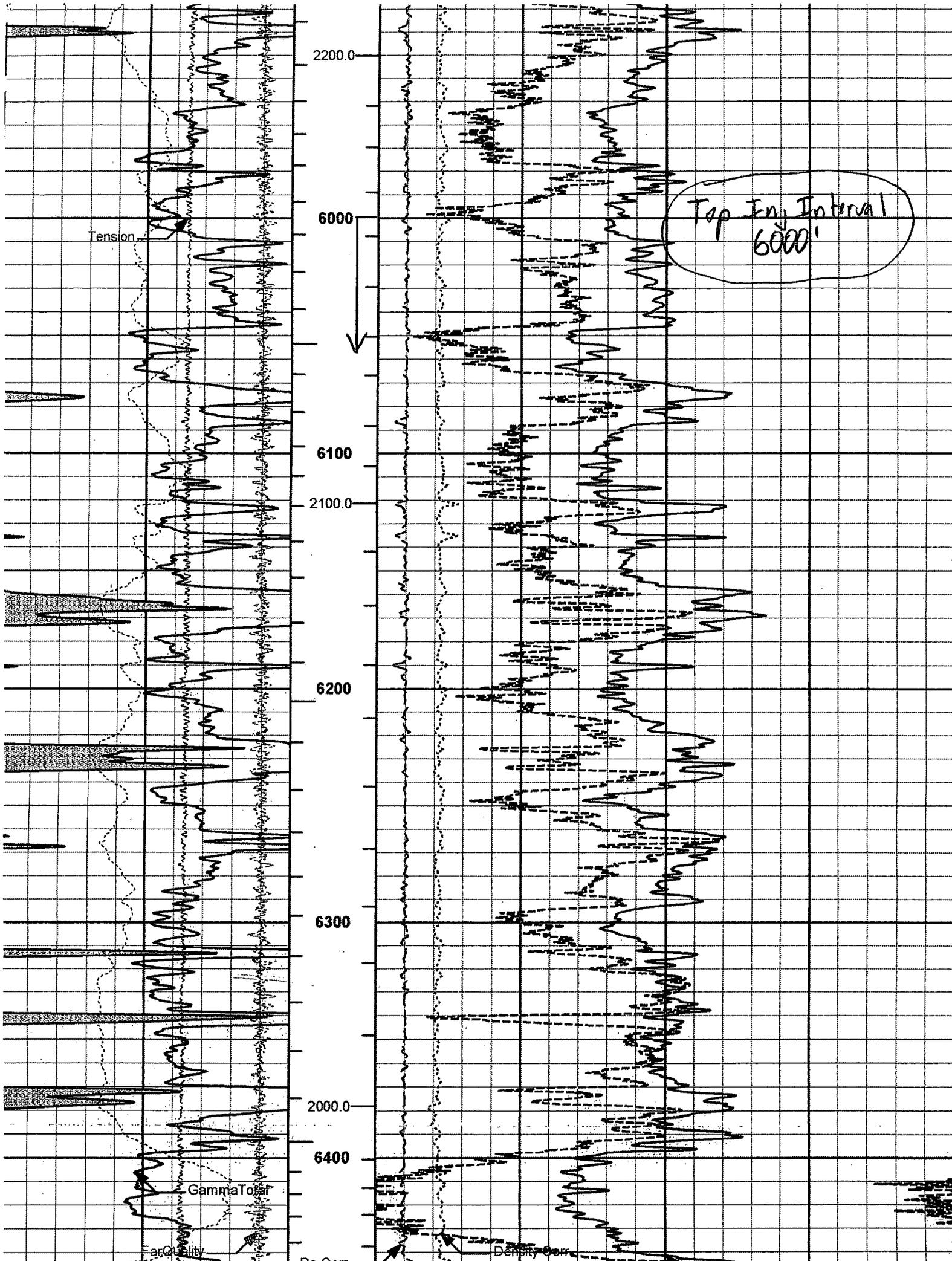
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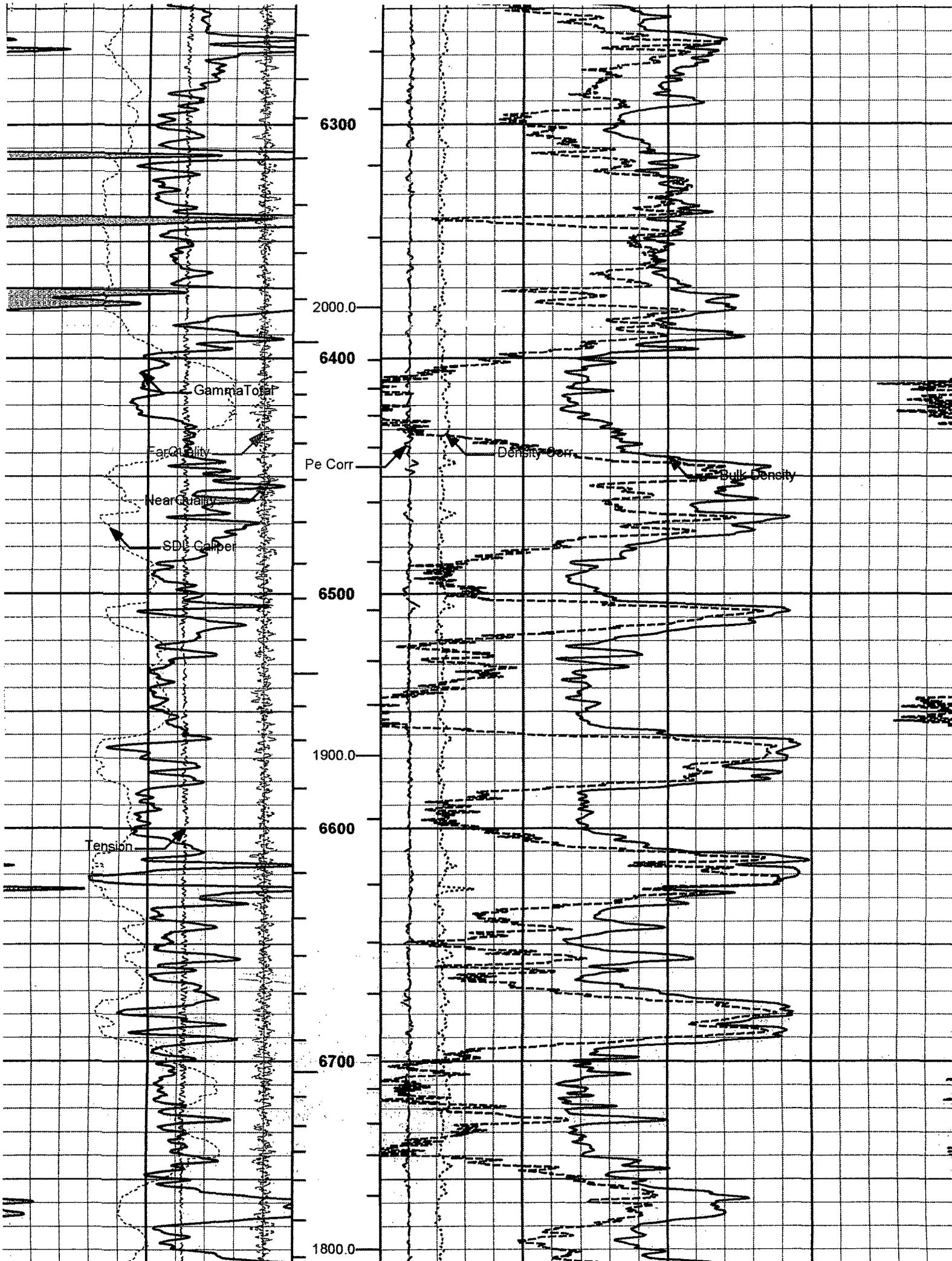
Density Cor

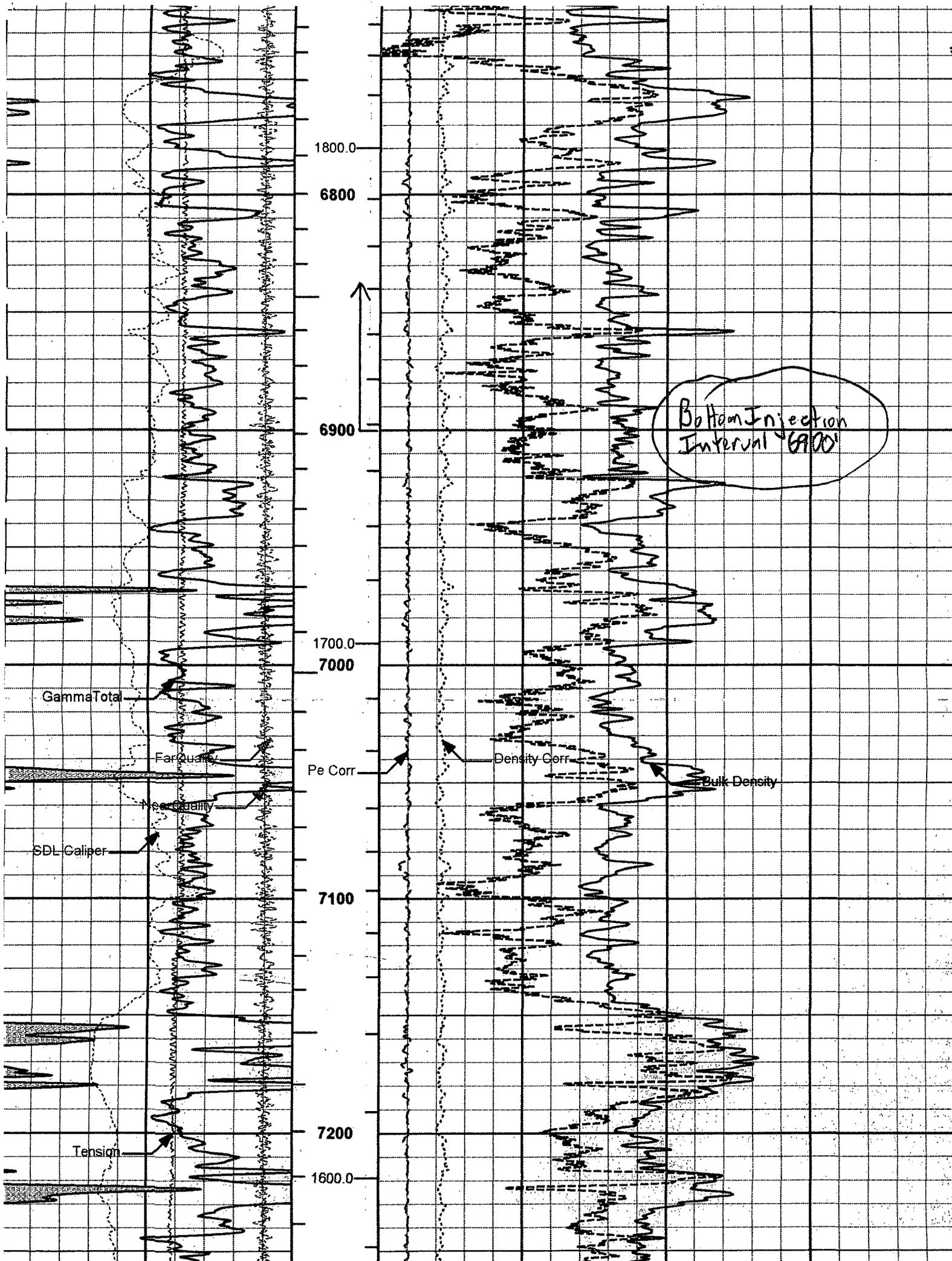
Bulk Density











1800.0

6800

6900

1700.0

7000

7100

7200

1600.0

Bottom Injection Interval 6900

Gamma Total

Far Point

Neq Quality

SDL Caliper

Tension

Pe Corr

Density Corr

Bulk Density

XI.

**Fresh Water Sample
Analyses**



New Mexico Office of the State Engineer
Active & Inactive Points of Diversion
(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 8-10

Township: 26S

Range: 34E



New Mexico Office of the State Engineer
Active & Inactive Points of Diversion
(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 15-17

Township: 26S

Range: 34E



New Mexico Office of the State Engineer
Active & Inactive Points of Diversion
(with Ownership Information)

No PODs found.

PLSS Search:

Section(s): 20-22

Township: 26S

Range: 34E



HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY
 WATER ANALYSIS REPORT
 HOBBS, NEW MEXICO

COMPANY: COG
 LEASE: FW Well C-03441
NE/4 6-26s-34e

REPORT W12-143
 DATE July 11, 2012
 DISTRICT Hobbs

SUBMITTED BY Bret Barret

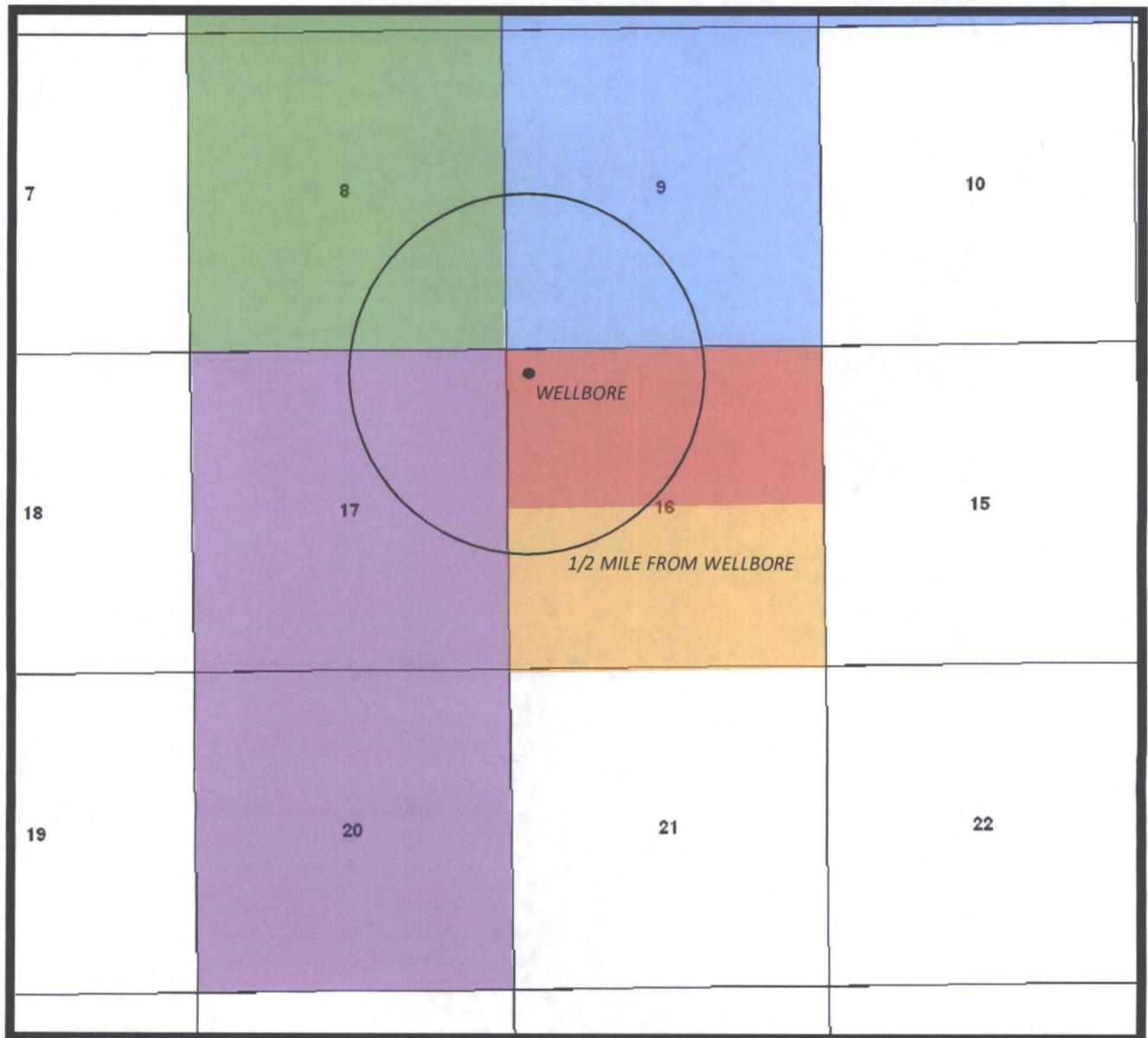
TANK SAMPLE	ODC # 774				
Sample Temp.	70 °F	_____ °F	_____ °F	_____ °F	_____ °F
RESISTIVITY	15.8	_____	_____	_____	_____
SPECIFIC GR.	1.001	_____	_____	_____	_____
pH	7.78	_____	_____	_____	_____
CALCIUM	130 mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
MAGNESIUM	147 mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
CHLORIDE	168 mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
SULFATES	<800 mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
BICARBONATES	360 mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
SOLUBLE IRON	0 mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
KCL	Negative	_____	_____	_____	_____
	_____ mpl				
	_____ mpl				
	_____ @ 60 °F				

REMARKS _____

MPL = Milligrams per liter
 Resistivity measured in: Ohm/m2/m

This report is the property of Halliburton Company and neither it nor any part thereof nor a copy thereof is to be published or disclosed without first securing the express written approval of laboratory management: it may however, be used in the course of regular business operations by any person or concern and employees thereof receiving such report from Halliburton Co.

ANALYST: AV



 COG Operating LLC

 Chesapeake Exploration LP
Devon Energy Prop. Co. LP

 Daniel E Gonzales

 Daniel E Gonzales

 Abo Petroleum Corporation
MYCO Industries Inc.
Oxy Y-1 Company
Yates Petroleum Corporation

Gunner 16 State SWD No. 1
330' FNL & 330' FWL
Sec. 16; T26s - R34e
Lea county, New Mexico



October 31, 2012

Devon Energy Production Co., LP
Attn: Mr. David Rader
333 W. Sheridan Ave.
Oklahoma City, OK 73102-5010

Re: Revised C-108 Application to Inject
Gunner 16 State SWD #1
Township 26 South, Range 34 East, N.M.P.M.
Section 16: 330' FNL & 330' FWL
Lea County, New Mexico

Dear Mr. Rader:

Per our discussion about changing the Delaware injection interval, attached is a copy of the revised C-108 package that was sent to you via email.

Please do not hesitate to contact me at 575-748-6940 should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Collins".

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures



October 29, 2012

OXY Y-1 Company
P.O. Box 4294
Houston, TX 77210-4294

Re: Application to Inject
Gunner 16 State SWD #1
Township 26 South, Range 34 East, N.M.P.M.
Section 16: 330' FNL & 330' FWL
Lea County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Collins".

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures

Affidavit of Publication

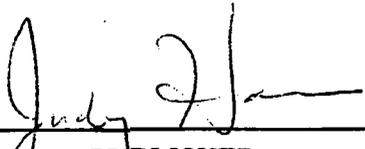
State of New Mexico,
County of Lea.

I, JUDY HANNA
PUBLISHER

of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

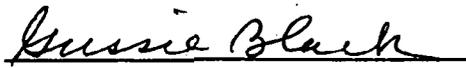
of 1 issue(s).

Beginning with the issue dated
August 24, 2012
and ending with the issue dated
August 24, 2012



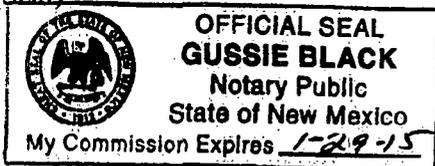
PUBLISHER

Sworn and subscribed to before me
this 14th day of
September, 2012



Notary Public

My commission expires
January 29, 2015
(Seal)



This newspaper is duly qualified to
publish legal notices or
advertisements within the meaning of
Section 3, Chapter 167, Laws of
1937 and payment of fees for said
publication has been made.

COG OPERATING, LLC
RECEIVED

OCT 18 2012

ARTESIA WEST



Legal Notice
August 26, 2012

COG Operating LLC, 2208 W. Main Street, Artesia, NM 88210 has filed Form C-108 (Application for Authorization to Inject) with the New Mexico Oil Conservation Division seeking administrative approval for a salt water disposal well. The proposed well, the Gunner 16 State SWD No. 1 is located 330' FNL & 330' FWL, Section 16, Township 26 South, Range 34 East, Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware formation at a depth of 5225' to 7250' at a maximum surface pressure of 1045 psi and a maximum rate of 10,000 BWPD. The proposed SWD well is located approximately 19 miles west of Jal. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505, within fifteen (15) days of this notice. Any interested party with questions or comments may contact Brian Collins at COG Operating LLC, 2208 W. Main Street, Artesia, NM 88210 or call 575-748-8940. #27537

02107967

00099187

COG OPERATING LLC
FASKEN CENTER, TOWER II
550 W. TEXAS AVE., STE 1300
MIDLAND, TX 79701



August 9, 2012

ABO Petroleum Corporation
105 South 4th Street
Artesia, NM 88210

Re: Application to Inject
Gunner 16 State SWD #1
Township 26 South, Range 34 East, N.M.P.M.
Section 16: 330' FNL & 330' FWL
Lea County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to drill this well for SWD service if our C-108 is approved. As a requirement of the New Mexico Oil Conservation Division, we are notifying you because you have been identified as an operator or surface owner. Any objections must be submitted in writing to NMOCD, 1220 S. St. Francis Drive, Santa Fe, New Mexico 87505. Objections must be received within fifteen (15) days of receipt of this letter.

Please do not hesitate to contact us at 575-748-6940 should you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Brian Collins".

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures



August 9, 2012

Chesapeake Exploration, L.L.C.
P.O. Box 18496
Oklahoma City, OK 73154

Re: Application to Inject
Gunner 16 State SWD #1
Township 26 South, Range 34 East, N.M.P.M.
Section 16: 330' FNL & 330' FWL
Lea County, New Mexico

To Whom It May Concern:

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Sincerely,

A handwritten signature in black ink, appearing to read "Brian Collins".

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures



August 9, 2012

Dan E. Gonzales
P.O. Box 2475
Santa Fe, NM 87504

Re: Application to Inject
Gunner 16 State SWD #1
Township 26 South, Range 34 East, N.M.P.M.
Section 16: 330' FNL & 330' FWL
Lea County, New Mexico

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Sincerely,

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Brian Collins
Senior Operations Engineer

BC/sw
Enclosures



August 9, 2012

Devon Energy Production Co., LP
333 W. Sheridan Ave.
Oklahoma City, OK 73102-5010

Re: Application to Inject
Gunner 16 State SWD #1
Township 26 South, Range 34 East, N.M.P.M.
Section 16: 330' FNL & 330' FWL
Lea County, New Mexico

To Whom It May Concern:

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Sincerely,

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Brian Collins
Senior Operations Engineer

BC/sw
Enclosures



August 9, 2012

MYCO Industries, Inc.
P.O. Box 840
Artesia, NM 88211

Re: Application to Inject
Gunner 16 State SWD #1
Township 26 South, Range 34 East, N.M.P.M.
Section 16: 330' FNL & 330' FWL
Lea County, New Mexico

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Sincerely,

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Brian Collins
Senior Operations Engineer

BC/sw
Enclosures



August 9, 2012

New Mexico State Land Office
P.O. Box 1148
Santa Fe, NM 87504-1148

Re: Application to Inject
Gunner 16 State SWD #1
Township 26 South, Range 34 East, N.M.P.M.
Section 16: 330' FNL & 330' FWL
Lea County, New Mexico

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Brian Collins
Senior Operations Engineer

BC/sw
Enclosures



August 9, 2012

Yates Petroleum Corporation
105 South 4th Street
Artesia, NM 88210

Re: Application to Inject
Gunner 16 State SWD #1
Township 26 South, Range 34 East, N.M.P.M.
Section 16: 330' FNL & 330' FWL
Lea County, New Mexico

To Whom It May Concern:

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Brian Collins
Senior Operations Engineer

BC/sw
Enclosures

7011 1570 0000 7781 2144

U.S. Postal Service™		
CERTIFIED MAIL™ RECEIPT		
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>		
For delivery information visit our website at www.usps.com		
OFFICIAL USE		
Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	
Sent To ABO Petroleum Corporation		
105 South 4 th Street		
Artesia, NM 88210		
Gunner 16 St. SWD #1/Notification		
PS Form 3800, August 2006 See Reverse for Instructions		

7011 1570 0000 7781 2151

U.S. Postal Service™		
CERTIFIED MAIL™ RECEIPT		
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>		
For delivery information visit our website at www.usps.com		
OFFICIAL USE		
Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	
Sent To Chesapeake Exploration, L.L.C.		
P.O. Box 18496		
Oklahoma City, OK 73154		
Gunner 16 St. SWD #1/Notification		
PS Form 3800, August 2006 See Reverse for Instructions		

7011 1570 0000 7781 2168

U.S. Postal Service™		
CERTIFIED MAIL™ RECEIPT		
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>		
For delivery information visit our website at www.usps.com		
OFFICIAL USE		
Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	
Sent To Dan E. Gonzales		
P.O. Box 2475		
Santa Fe, NM 87504		
Gunner 16 St. SWD #1/Notification		
PS Form 3800, August 2006 See Reverse for Instructions		

7011 1570 0000 7781 2175

U.S. Postal Service™		
CERTIFIED MAIL™ RECEIPT		
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>		
For delivery information visit our website at www.usps.com		
OFFICIAL USE		
Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	
Sent To Devon Energy Production Co., LP		
333 W. Sheridan Ave.		
Oklahoma City, OK 73102-5010		
Gunner 16 St. SWD #1/Notification		
PS Form 3800, August 2006 See Reverse for Instructions		

ORIGINAL NOTICES

7011 1570 0000 7781 2182

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only, No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To **MYGO Industries, Inc.**
P.O. Box 840
 Street, Apt. No.,
 or PO Box No. **Artesia, NM 88211**
 City, State, ZIP+4
Gunner 16 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

7011 1570 0000 7781 2199

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only, No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To **New Mexico State Land Office**
P.O. Box 1148
 Street, Apt. No.,
 or PO Box No. **Santa Fe, NM 87504-1148**
 City, State, ZIP+4
Gunner 16 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

7011 1570 0000 7781 2202

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only, No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To **Yates Petroleum Corporation**
105 South 4th Street
 Street, Apt. No.,
 or PO Box No. **Artesia, NM 88210**
 City, State, ZIP+4
Gunner 16 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

ORIGINAL NOTICES

Gunner 16 State SWD #1

7011 1570 0000 6389 6902

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage \$	Sent out on 10/31/12 Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees \$	
Sent To OXY Y-1 Company	
P.O. Box 4294	
Street, Apt. No., or PO Box No. Houston, TX 77210-4294	
City, State, ZIP+4® Gunner 16 St. SWD #1/Notification	
PS Form 3800, August 2006 See Reverse for Instructions	

7011 1570 0000 6389 6896

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage \$	Sent out on 10/31/12 Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees \$	
Sent To Devon Energy Production Co., LP	
Attn: Mr. David Rader	
333 W. Sheridan Ave.	
Street, Apt. No., or PO Box No. Oklahoma City, OK 73102-5010	
City, State, ZIP+4® Gunner 16 St. SWD #1/Notification	
PS Form 3800, August 2006 See Reverse for Instructions	

2 latest notices after revision

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:

Yates Petroleum Corporation
105 South 4th Street
Artesia, NM 88210
Gunner 16 St. SWD #1/Notification

Sent out 8/10/12

2. Article Number
(Transfer from service label)



PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Anderson
 Agent
 Addressee

B. Received by (Printed Name) *Anderson* C. Date of Delivery *8-13-12*

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

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:

MYCO Industries, Inc.
P.O. Box 840
Artesia, NM 88211
Gunner 16 St. SWD #1/Notification

Sent out 8/10/12

2. Article Number
(Transfer from service label)



PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

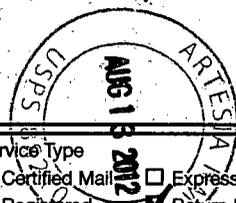
A. Signature
 Colby Hunter
 Agent
 Addressee

B. Received by (Printed Name) *Colby Hunter* C. Date of Delivery

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



SENDER: COMPLETE THIS SECTION

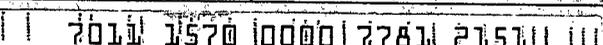
- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Chesapeake Exploration, L.L.C.
P.O. Box 18496
Oklahoma City, OK 73154
Gunner 16 St. SWD #1/Notification

Sent out 8/10/12

2. Article Number
(Transfer from service label)



PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

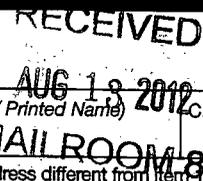
A. Signature
 [Signature]
 Agent
 Addressee

B. Received by (Printed Name) *MAIL ROOM 8* C. Date of Delivery *AUG 13 2012*

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



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:

New Mexico State Land Office
 P.O. Box 1148
 Santa Fe, NM 87504-1148
 Gunner 16 St. SWD #1/Notification

Sent out 8/10/12

2. Article Number (Transfer from service label) 7011 1570 0000 7781 2168

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
[Signature]

B. Received by (Printed Name) C. Date of Delivery
 [Redacted] AUG 13 2012

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

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

4. Restricted Delivery? (Extra Fee) Yes

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:

Dan E. Gonzales
 P.O. Box 2475
 Santa Fe, NM 87504
 Gunner 16 St. SWD #1/Notification

Sent out 8/10/12

2. Article Number (Transfer from service label) 7011 1570 0000 7781 2168

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
[Signature]

B. Received by (Printed Name) C. Date of Delivery
 DANIEL E GONZALES AUG 14 2012

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

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

4. Restricted Delivery? (Extra Fee) Yes

SENDER: COMPLETE THIS SECTION

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- 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:

ABO Petroleum Corporation
 105 South 4th Street
 Artesia, NM 88210
 Gunner 16 St. SWD #1/Notification

Sent out 8/10/12

2. Article Number (Transfer from service label) 7011 1570 0000 7781 2144

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
[Signature]

B. Received by (Printed Name) C. Date of Delivery
 [Redacted] 8-13-12

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

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

4. Restricted Delivery? (Extra Fee) Yes

SENDER: COMPLETE THIS SECTION

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- 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:

Devon Energy Production Co., LP
 333 W. Sheridan Ave.
 Oklahoma City, OK 73102-5010
 Gunner 16 St. SWD #1/Notification

Sent out 8/10/12

2. Article Number (Transfer from service label) 7011 1570 0000 7781 2175

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
[Signature]

B. Received by (Printed Name) C. Date of Delivery
 [Redacted]

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

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

4. Restricted Delivery? (Extra Fee) Yes

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

RECEIVED OCD

2012 AUG 22 A 7:50

August 22, 2012

Hand delivered

Jami Bailey, Director
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

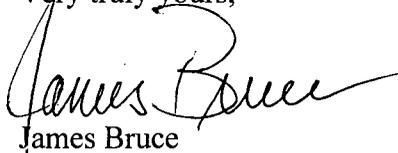
Re: COG Operating LLC
Administrative SWD application

Gunner 16 State Well No. 1
Unit D §16-26S-34E
Lea County, New Mexico

Dear Ms. Bailey:

Devon Energy Production Company, L.P. objects to the above application.

Very truly yours,



James Bruce

Attorney for Devon Energy Production Company, L.P.

cc: Brian Collins
COG Operating LLC
2208 West Main Street
Artesia, New Mexico 88210

JAMES BRUCE
ATTORNEY AT LAW

POST OFFICE BOX 1056
SANTA FE, NEW MEXICO 87504

369 MONTEZUMA, NO. 213
SANTA FE, NEW MEXICO 87501

(505) 982-2043 (Phone)
(505) 660-6612 (Cell)
(505) 982-2151 (Fax)

jamesbruc@aol.com

November 12, 2012

Via fax

Jami Bailey, Director
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

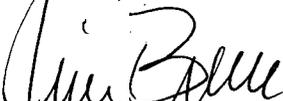
Re: COG Operating LLC
Administrative SWD application

Gunner 16 State Well No. 1
Unit D §16-26S-34E
Lea County, New Mexico

Dear Ms. Bailey:

Devon Energy Production Company, L.P. ("Devon") previously filed an objection to the above application. Devon now withdraws its objection, and consents to the application being approved administratively.

Very truly yours,



James Bruce

Attorney for Devon Energy Production Company, L.P.

RECEIVED OGD
2012 NOV 14 P 4:24

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Friday, September 28, 2012 8:42 AM
To: 'Brian Collins'
Cc: Glenn Carter; Dean Chumbley
Subject: RE: COG C108 Gunner 16 State SWD 1, D-16-26s-34e, Lea Co---Protests

Hello Brian,
Devon (through Jim Bruce) is the only protest I am aware of and they did not say why.
Your attorney, Carol Leach talks to Jim Bruce and the other attorneys up here and may be aware of other concerns.

Hope you folks have a nice weekend.

Will Jones

From: Brian Collins [<mailto:BCollins@concho.com>]
Sent: Friday, September 28, 2012 8:05 AM
To: Jones, William V., EMNRD
Cc: Glenn Carter; Dean Chumbley
Subject: COG C108 Gunner 16 State SWD 1, D-16-26s-34e, Lea Co---Protests

Will: Has anyone other than Devon objected to the captioned C108 Application? I've been visiting with Devon and I think I can get them to withdraw their objection by modifying the proposed disposal interval. If anyone else has objected, I'd like to know who they are so I can visit with them. If no one else has protested, I'll visit with Devon about notifying you and I'll resubmit C108 to reflect casing off the Delaware and modifying the injection interval. I appreciate it. Hope you have a good weekend.

Brian Collins
Senior Operations Engineer - NM Basin
COG OPERATING LLC
2208 W Main St
Artesia, New Mexico 88210-3720
575.748.6924 W
432-254-5870 C



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CONFIDENTIALITY NOTICE: The information in this email may be confidential and/or privileged. If you are not the intended recipient or an authorized representative of the intended recipient, you are hereby notified that any review, dissemination or copying of this email and its attachments, if any, or the information contained herein, is prohibited. If you have received this email in error, please immediately notify the sender by return email and delete this email from your system. Thank you.

Jones, William V., EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Monday, October 22, 2012 11:35 AM
To: Jones, William V., EMNRD
Cc: Dean Chumbley; Savannah Wilkinson
Subject: RE: COG C108 Gunner 16 State SWD 1, D-16-26s-34e, Lea Co---Protests

Will:

I'll flange things up with Devon tomorrow and will send revised C108 to you later this week. Yates, et al owns Section 9. One of the el als was Yates Drilling which was purchased by OXY Y1, who we forgot to notify. We will send them notice as soon as I finalize things with Devon. We'll send you a copy of the green card as soon as we receive it. Thanks. ---Brian Collins

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Sunday, October 21, 2012 5:08 PM
To: Brian Collins
Cc: Glenn Carter; Dean Chumbley
Subject: RE: COG C108 Gunner 16 State SWD 1, D-16-26s-34e, Lea Co---Protests

Brian,

If you get consensus from Devon, just send the new "post conversion" wellbore diagram and any pages of the application that would change.

If the revision is a subset of the previous proposal, you would not need to re-notice anyone.

My map of the ½ mile AOR is black and white. So I am a bit unsure who owns the lands in Section 9 to the NE?

I will wait to hear from you before reviewing this application in depth.

Will

From: Brian Collins [<mailto:BCollins@concho.com>]
Sent: Friday, September 28, 2012 8:05 AM
To: Jones, William V., EMNRD
Cc: Glenn Carter; Dean Chumbley
Subject: COG C108 Gunner 16 State SWD 1, D-16-26s-34e, Lea Co---Protests

Will: Has anyone other than Devon objected to the captioned C108 Application? I've been visiting with Devon and I think I can get them to withdraw their objection by modifying the proposed disposal interval. If anyone else has objected, I'd like to know who they are so I can visit with them. If no one else has protested, I'll visit with Devon about notifying you and I'll resubmit C108 to reflect casing off the Delaware and modifying the injection interval. I appreciate it. Hope you have a good weekend.

Brian Collins
Senior Operations Engineer - NM Basin
COG OPERATING LLC
2208 W Main St

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Friday, November 09, 2012 5:32 PM
To: 'Brian Collins'
Cc: jamesbruc@aol.com; Kautz, Paul, EMNRD; Shapard, Craig, EMNRD; Brooks, David K., EMNRD
Subject: Disposal application from COG Operating LLC: Gunner 16 State SWD #1, D-16-26s-34e, Lea County (REVISED APPLICATION NOW 6000 to 6900 FEET)

Hello Brian,

Please ask Devon to send us a retraction letter of the former protested application.

OK Even if I wait 15 days from the latest application, it could be argued whether this is a "new" application or just a revision of the first one.

OK I was going to ask you, but found some tops on a well to the SW showing the tops of Cherry (6402 feet) and Brushy (8132 feet). If this correlates, it seems your interval is lower Bell and upper Cherry. Let me know if you guys disagree.

OK It appears the area of interest in the Delaware may be the upper Bell Canyon but logs through deeper members are scarce and you didn't say anything about calculated water saturations. I understand log calcs in (especially) the Delaware are difficult. A mudlog over this 900 foot interval would better ensure all is well.

OK You noticed Chesapeake, but the Chesapeake interests may have already switched to Chevron? Probably no need to notice Chevron in this case, the lands in question were jointly owned by Devon/Chesapeake.

OK Other applications from COG may need to also notice Chevron where Chesapeake lands are involved.

Thank You,

Will

Jones, William V., EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Monday, November 12, 2012 7:35 AM
To: Jones, William V., EMNRD
Subject: RE: Disposal application from COG Operating LLC: Gunner 16 State SWD #1, D-16-26s-34e, Lea County (REVISED APPLICATION NOW 6000 to 6900 FEET)

Will: I'll scan you the mudlog from the nearest well to the captioned well this morning. I forwarded your email to Devon asking them to mail or email a letter to you withdrawing their objection to this application. Thanks. ---Brian

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Friday, November 09, 2012 6:32 PM
To: Brian Collins
Cc: jamesbruc@aol.com; Kautz, Paul, EMNRD; Shapard, Craig, EMNRD; Brooks, David K., EMNRD
Subject: Disposal application from COG Operating LLC: Gunner 16 State SWD #1, D-16-26s-34e, Lea County (REVISED APPLICATION NOW 6000 to 6900 FEET)

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Other applications from COG may need to also notice Chevron where Chesapeake lands are involved.

Thank You,

Will

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Jones, William V., EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Monday, November 12, 2012 10:27 AM
To: Jones, William V., EMNRD
Subject: RE: Disposal application from COG Operating LLC: Gunner 16 State SWD #1, D-16-26s-34e, Lea County (REVISED APPLICATION NOW 6000 to 6900 FEET)
Attachments: gunner 8 fed 1h mud log scan.pdf; gunner 8 fed 1h porosity log scan.pdf

Will:

I've attached a mud log section and porosity log section (with water saturation and bulk volume water-BVW calculations annotated on log) from the COG Gunner 8 Federal 1H drilled as an Avalon Shale well in Sec 8-26s-34e one mile west of the captioned well. Devon has data I'm not privy to in this area also. The injection interval 6000-6900' is one that COG and Devon are confident is not hydrocarbon productive in this area. We plan to mud log the Gunner 16 St SWD 1 when we drill it and will make sure we don't perforate any zones that have good, potentially commercial-looking mud log shows. OK

The Gunner 8 mud log has poor-looking mud log shows from 6160-6250' and 6350-6360'. The rest of the proposed SWD interval has no shows. In the Delaware I typically expect a good show description to be 40% or better yellow/bright yellow fluorescence. The Gunner 8 shows are described as 10% yellow/gold, trace yellow/gold, 30% dull yellow and trace mineral fluorescence. I've tested numerous zones that were non-commercial that had good show descriptions. I can't recall testing any commercial zones that had poor show descriptions. The Gunner 8 Fed 1H is one mile away, and the Delaware can vary considerably in that distance which potentially makes it a poor analog too.

A guideline I've been taught concerning Delaware log calculations is that the bulk volume water (BVW) should be less than 0.10 to have a chance of commercial oil production. BVW greater than 0.10 will likely be water productive or, at best, have only a one or two percent oil cut. I don't recall testing anything but 100% water at BVW values of 0.12 or greater. The BVW calculations on the attached log section vary from 0.10 to 0.16, with 0.14 BVW being typical. I would expect the sands in the proposed disposal interval to be water productive.

Hope this answers your questions concerning potential productivity in the proposed disposal interval. Let me know if you have additional questions. Thanks.

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Friday, November 09, 2012 6:32 PM
To: Brian Collins
Cc: jamesbruc@aol.com; Kautz, Paul, EMNRD; Shapard, Craig, EMNRD; Brooks, David K., EMNRD
Subject: Disposal application from COG Operating LLC: Gunner 16 State SWD #1, D-16-26s-34e, Lea County (REVISED APPLICATION NOW 6000 to 6900 FEET)

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PP-1420
SPM-90

6000

2 3 4 5

50

6100

D.S. - 1'

50

SH: A.A.

LS: LTTN, WHT, CRM, BF, TN,
OFFWHT, DKBRN/BRN, FLKY,
BLKY, MICX, SM SHLY IP,
SFT/FRM, TR VY SCTTRD,
BRI YEL FLUOR, NO CUT,
NO PET ODOR NOTED

LS: GRY/BRN, LTGRY MOTT,
TN, OFFWHT, BLKY, FLKY IP,
VFX, ARG IP, SFT, FRM IP

SS: FRSTD, LTGRY, CLR, WHT
SBANG/SBRND, RND IP, VFG,
FRI CLSTRS W/LIMY CMT,
LSE, TR BLU FLUOR, TR SLW
WET CUT, NO ODOR NTD IN
SMPLS

LS: A.A., CLNR W/DEPTH

SS: A.A. TR BLU FLUOR,
TR SLW WET CUT, NO PET
ODOR NTD IN SMPLS

LS: GRY/BRN, LTBRN, LTGRY
MOTT, GRY MOTT, TN, BLKY,
FLKY, VFG, ARG, FRM/SFT,
DRTY

SS: LTGRY, FRSTD, CLR,
SBANG/SBRND, RND IP, VFG,
LSE, FRI CLSTRS W/LIMY
CMT IP

LS: BKGRY, LTGRY MOTT,
OFFWHT, CLNR W/DEPTH,
BLKY, FLKY, VFX, SFT

SS: FRSTD, LTGRY, CLR,
SBRND, SBANG IP, VFG, LSE,
FRI CLSTRS W/LIMY CMT
IP, TR GLD FLUOR, TR SLW
WET CUT, NO PET ODOR NTD
IN SMPLS

LS: A.A. CLNR W/DEPTH

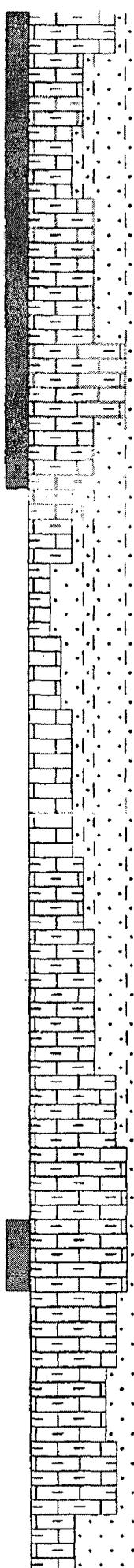
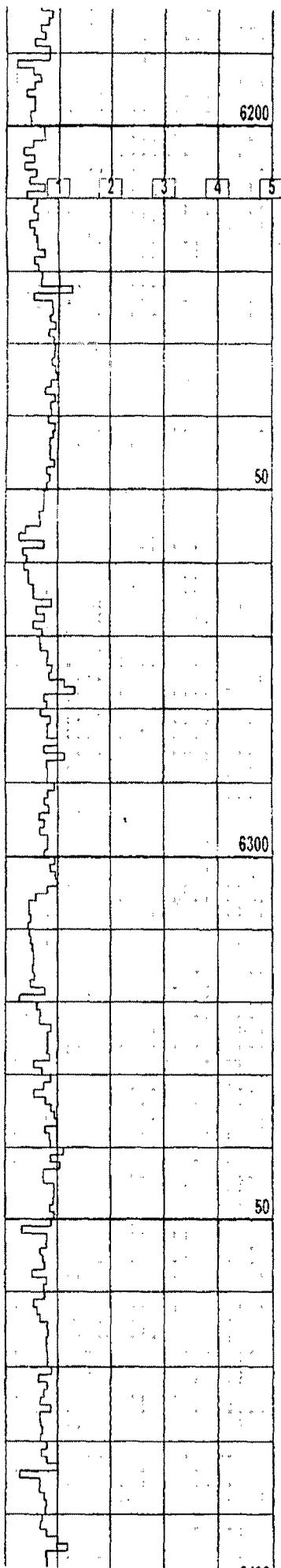
SS: FRSTD, CLR, LTGRY,
SBRND, RND FG, VFG, LSE,
FRI CLSTRS W/LIMY CMT
IP, TR GLD FLUOR, NO CUT,
NO PET ODOR NTD IN
SMPLS

SS: A.A.

LS: DKGRY/BRN, BRN,
LTGRY MOTT, OFFWHT, ARG,
BLKY, FLKY IP, VFX, SFT-
FRM, VRY DRTY, 10% YEL/
ODOR NTD IN SMPLS

pH - 9%

25 50 100 200 300 400 500



LS: A. A.

SS: FRSTD, LTGRY, CLR, SBANG/SBRND, VFG, LSE, FRI CLSTRS W/LIMY CMT IP, TR YEL/GLD FLUOR, TR-FR SLOW WET MLKY CUT, NO PET ODOR NTD IN SMPLES

LS: A. A.

SS: A. A. 30% DLL YEL FLUOR, FR SLW WET CUT W/ STRM IP, NO PET ODOR NTD IN SMPLES

LS: A. A.

SS: A. A. NO SHOWS POOR SMPL QUALITY

LS: LTGRY MOTT, OFFWHT, TN, GRY, WHT, CLNR W/DEPTH FLKY, BLKY, VFX, SFT-FRM

SS: FRSTD, LTGRY, CLR, SBANG/SBRND, VFG, LSE, FRI CLSTRS W/LIMY CMT IP PL YELL MIN FLUOR

LS: DKGRY/BRN, BRN, LTGRY MOTT, ARG, BLKY, FLKY IP, VFX, SFT-FRM, VRY DIRTY

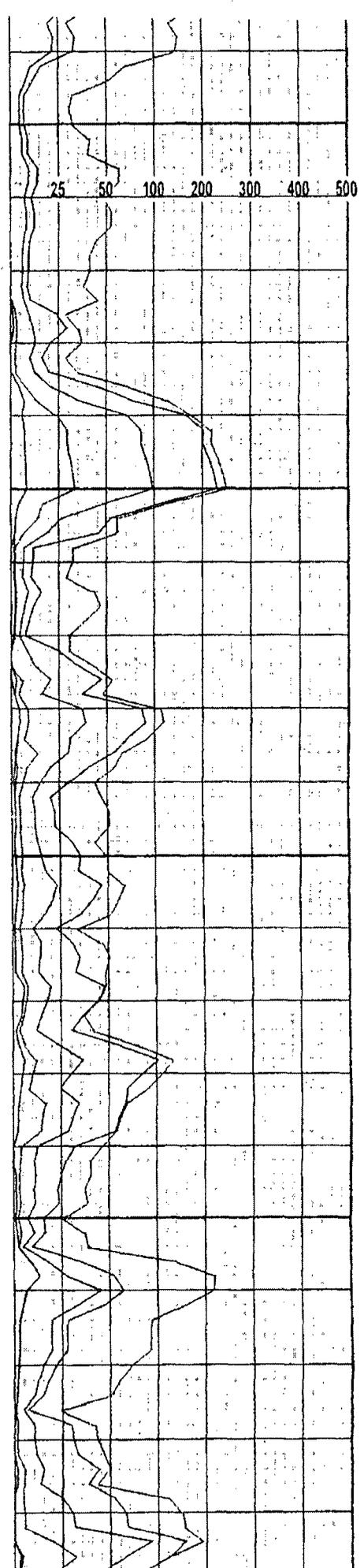
SS: A. A. INCR LSE W/ DEPTH

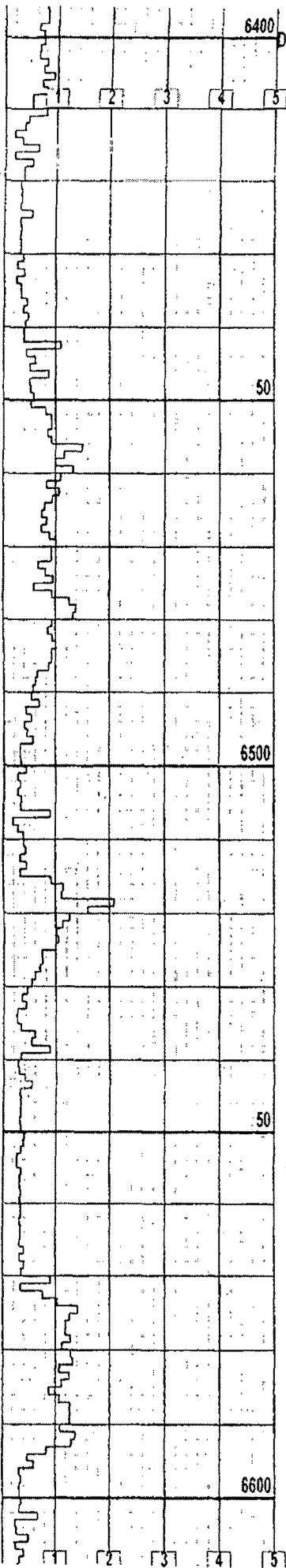
SS: FRSTD, LTGRY, SBANG/SBRND, VFG, FRIA CLSTRS W/LIMY CMT

LS: A. A. W/DLL YELL MIN FLUOR, PR SLW WET CUT, NO PET ODOR NTD IN SMPLS

LS: DKGRY, DKGRY/BRN, GRY MOTT, ARG, BLKY, FLKY IP, VFX, SFT-FRM, VRY DRTY, TR PL YEL FLUOR, TR SLOW WET CUT, NO PET ODOR NTD IN SMPLES

SS: FRSTD, LTGRY, CLR, SBANG/SBRND, VFG, LSE





S. - 0.3°

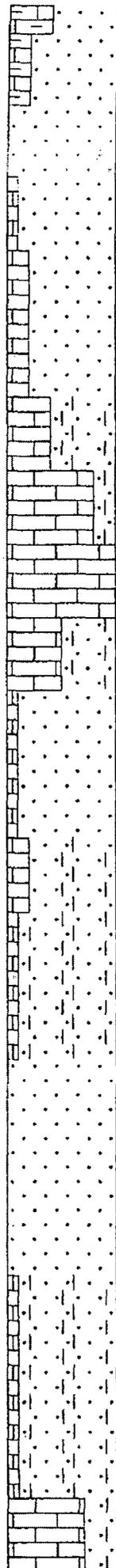
6400

50

6500

50

6600



LS: DKGRY, LTGRY MOTT, OFFWHT, ARG, BLKY, FLKY, VFX, SFT/FRM

SS: FRSTD, CLR, LTGRY, SBRND, RND, VFG, LSE

LS: LTGRY MOTT, DKGRY, OFFWHT, ARG IP, BLKY, FLKY, VFX, SFT/FRM

SS: FRSTD, CLR, LTGRY, SBRND, VFG, LSE, FRI CLSTR W/LIMY CMT IP, TR DLL YELL FLUOR

SS: FRSTD, LTGRY, SBANG/SBRND, VFG, FRI CLSTRS W/LIMY CMT

LS: LTGRY MOTT, LTN, LTGRY, OFFWHT, LTBR, FLKY, BLKY, VFX, SFT-FRM

SS: FRSTD, LTGRY, CLR, SBRND, VFG, LSE, FRI CLSTRS W/LIMY CMT IP

LS: A.A.

LS: LTGRY MOTT, LTN, LTGRY, OFFWHT, LTBR, FLKY, BLKY, VFG, SFT/FRM

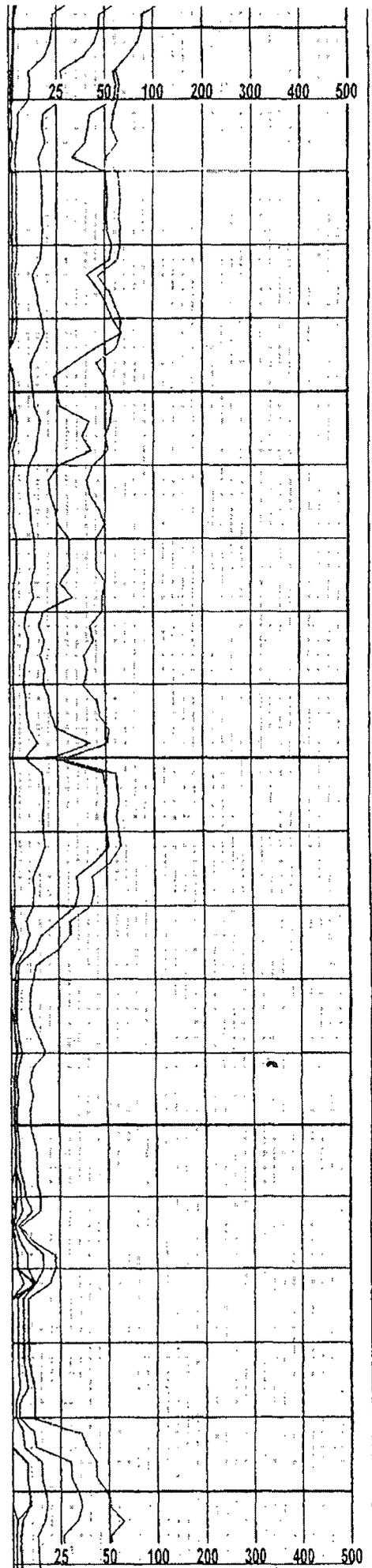
SS: FRSTD, LTGRY, CLR, SBANG/SBRND, FRI CLSTRS W/LIMY CMT

SS: FRSTD, LTGRY, CLR, SBANG/SBRND, LSE, FRI CLSTRS W/LIMY CMT IP

LS: LTEGRY MOTT, LTN, LTGRY, FLKY, BLKY, VFX, SFT/FRM

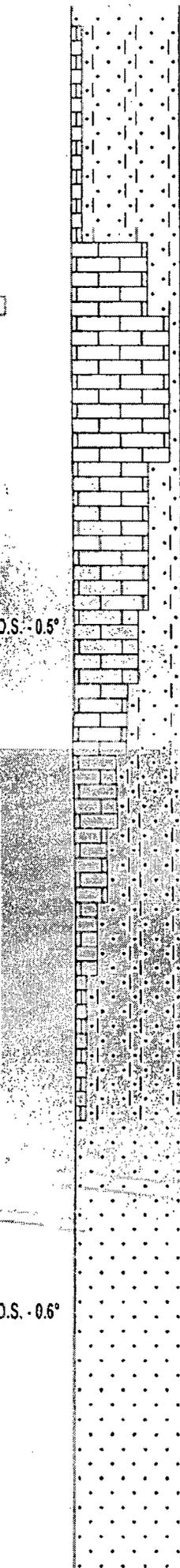
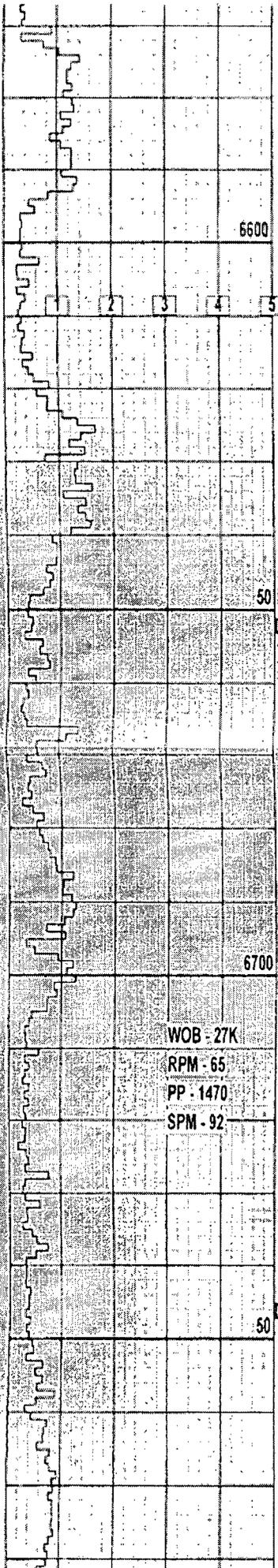
SS: FRSTD, LTGRY, CLR, SBANG/SBRND, FRI CLSTRS W/LIMY CMNT, VRY LIMY, W/SCTTRD PL YEL MIN FLUOR

LS: A.A.



25 50 100 200 300 400 500

25 50 100 200 300 400 500



LS: LTRGY MOTT, LTTN,
 LTGRY FLKY, BLKY,
 VFX, SFT/FRM

SS: FRSTD, LTGRY, CLR,
 SBANG/SBRND, FRI CLSTRS
 W/LIMY CMNT, VRY LIMY,
 W/SCTRD PL YEL MIN
 FLUOR

LS: A. A.

SS: A. A., ABNDT DK YEL
 MIN FLUOR

LS: A. A.

SS: A. A., ABNDT DK YEL
 MIN FLUOR

LS: MOTT, GRY/LTGRY, TN/
 LTTN, CRM, OFFWHT, WHT, BF,
 FLKY, BLKY, MICK, SM SHLY
 IP, SFT/FRM

SS: LTGRY, FRSTD, CLR, SM
 LTRN, WHT, SBANG/SBRND
 VFG, VY CALC LSE/FRIA
 CLSTRS WLL SRTD W/LIMY
 CMT

LS: A. A., ABNDNT DULL
 YEL-GLD. MIN. FLUOR

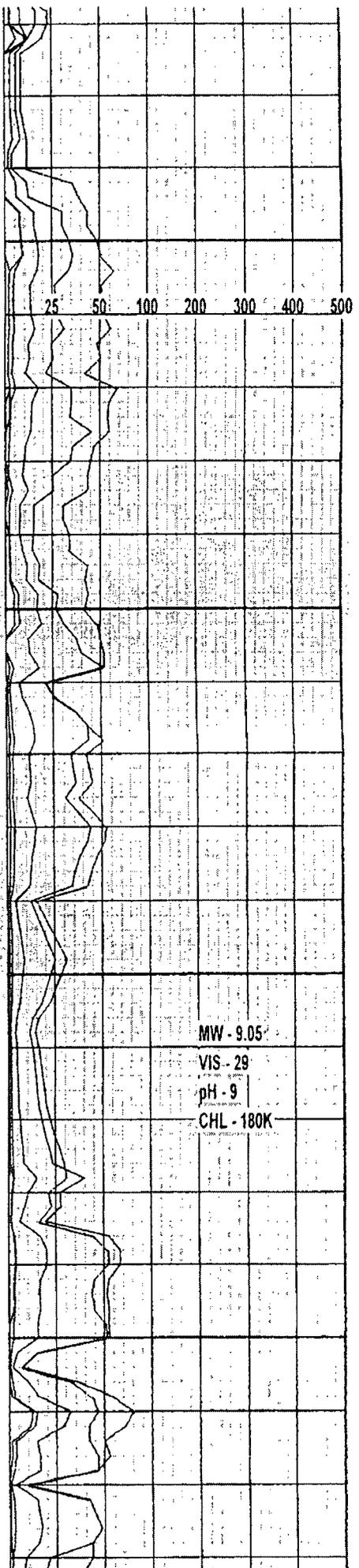
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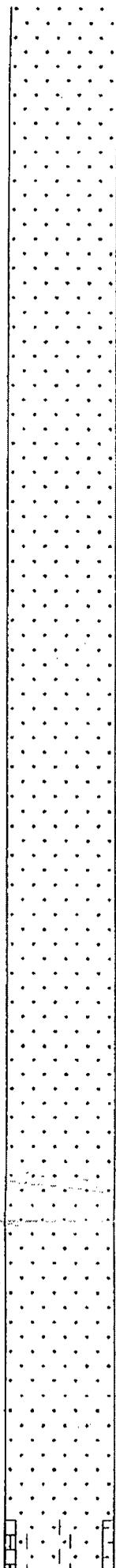
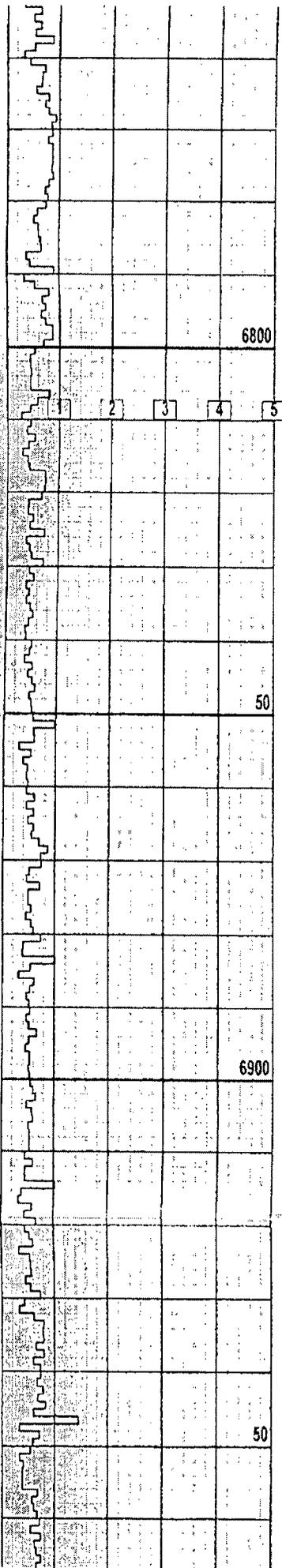
SS: A. A.

SS: FRSTD, LTGRY CLR, SM
 LTRN, WHT, SBANG/SBRND
 VFG, SM SLTY IP, LSE/WLL
 SRTD FRIA CLSTRS W/LIMY
 CMT

SS: A. A., TR VY SCTRD
 BRI YEL FLUOR, NO CUT, NO
 PET ODOR NOTED IN SMPLS

SS: A. A.





SS: A.A. TR VY SCTTRD
BRI YEL FLUOR, NO CUT, NO
PET ODOR NOTED IN SMPLS

SS: A.A.

SS: LTGRY, FRSTD, GRY, WHT
CLR, LTBRN, SBANG/ANG, VFG
SLTY IP, FRIA CLSTRS W/
LIMY CMT, FEW LSE, TR SM
VY SCTTRD BRI YEL FLUOR
NO CUT, NO PET ODOR NOTD

SS: A.A.

TR SH: DKGRY, BLK, GRY, SM
BRN/DKBRN, FLKY, BLKY, M/
FNSLT, CARB, CALC, FRM/
BRITL

SS: A.A.

SS: FRSTD, LTGRY, CLR, SM
GRY, WHT, LTBRN, SBANG/
SBRND, VFG, SLTY IP, MSTLY
FRIA CLSTRS W/LIMY CMT,
SM LSE

SS: A.A., INCRSNG LSE

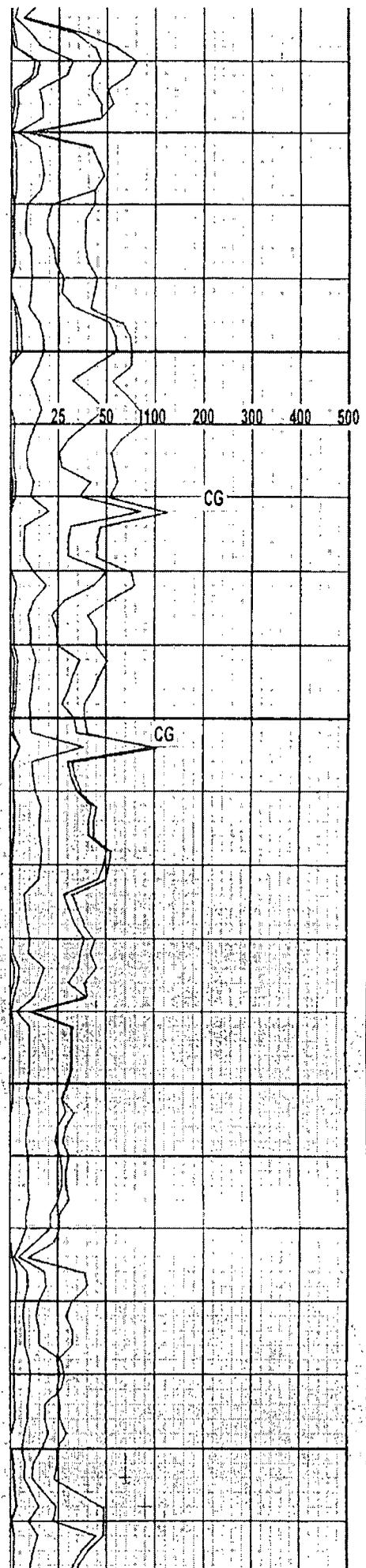
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WHT, SBRND/RND, VFG, FEW
SLTY IP, MSTLY LSE, SM
WLL SRTD FRIA CLSTRS W/
LIMY CMT TR SCTTRD BRI
YEL-GLD FLUOR, NO CUT, NO
PET ODOR NOTED IN SMPLS

SS: A.A.

TR SH: DKBRN/BRN, DKGRY,
BLK, BLKY, FLKY, M/FNSLT,
CARB, CALC, FRM/BRITL

SS: A.A.

LS: GRY/LTGRY, MOTT, BF,
TN/LTTN, CRM, OFFWHT/WHT,
FLKY, BLKY, MICK, SHLY IP,
SFT/FRM, SM CHLKY IP



HALLIBURTON

COMPENSATED GAMMA RAY DUAL SPACED NEUTRON SPECTRAL DENSITY

COMPANY COG OPERATING, LLC.

WELL GUNNER 8 FEDERAL No. 8H

FIELD WILDCAT; BONE SPRING

COUNTY LEA

STATE NEW MEXICO

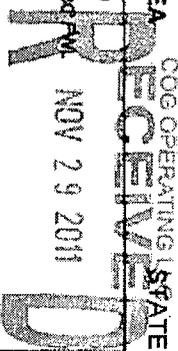
COMPANY COG OPERATING, LLC.

WELL GUNNER 8 FEDERAL No. 8H

FIELD WILDCAT; BONE SPRING

COUNTY LEA STATE NEW MEXICO

API No. 30-025-40309
Location 990 FSL & 300 FSL
NOV 29 2011
Other Services:
DLTMGRD
RSC1

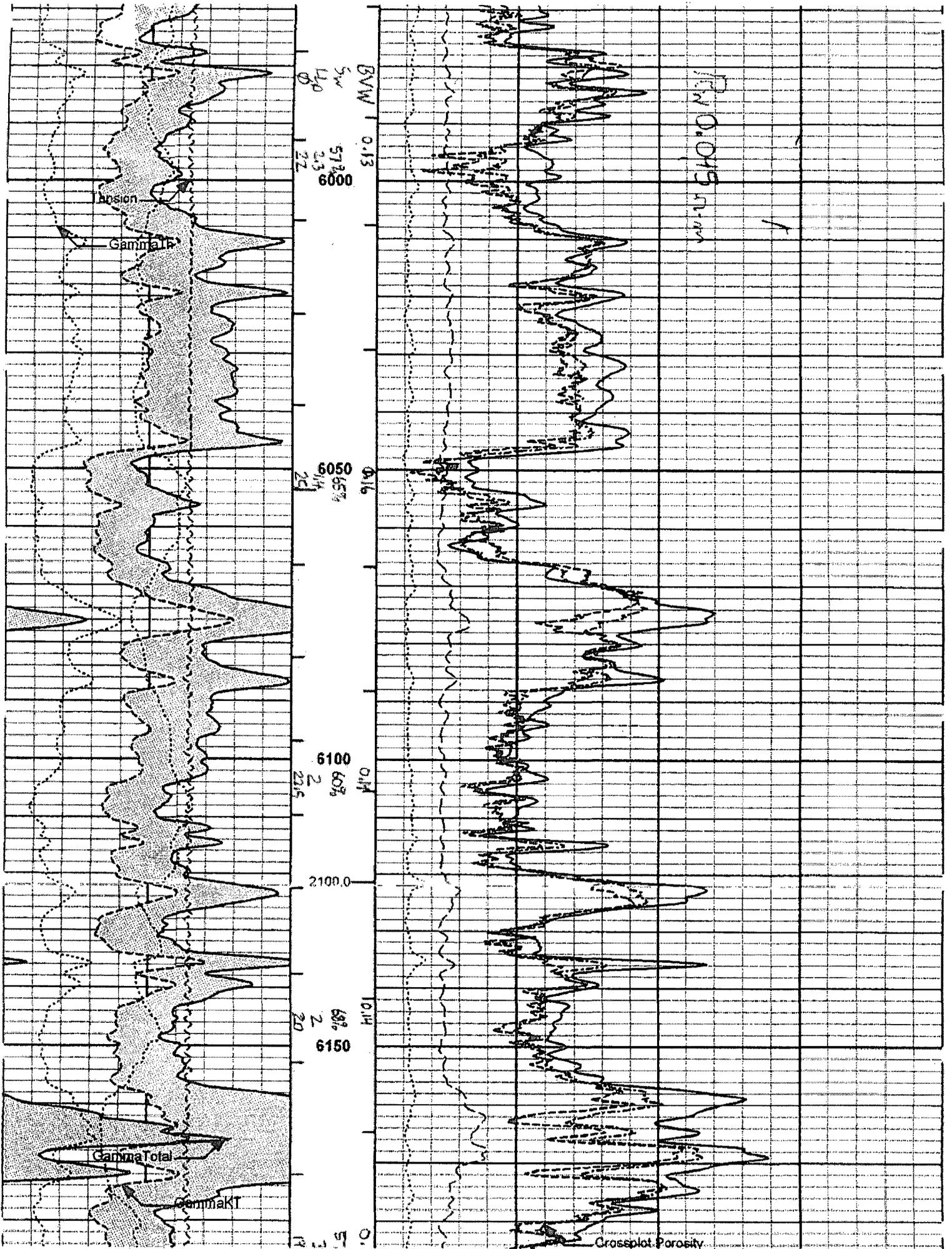


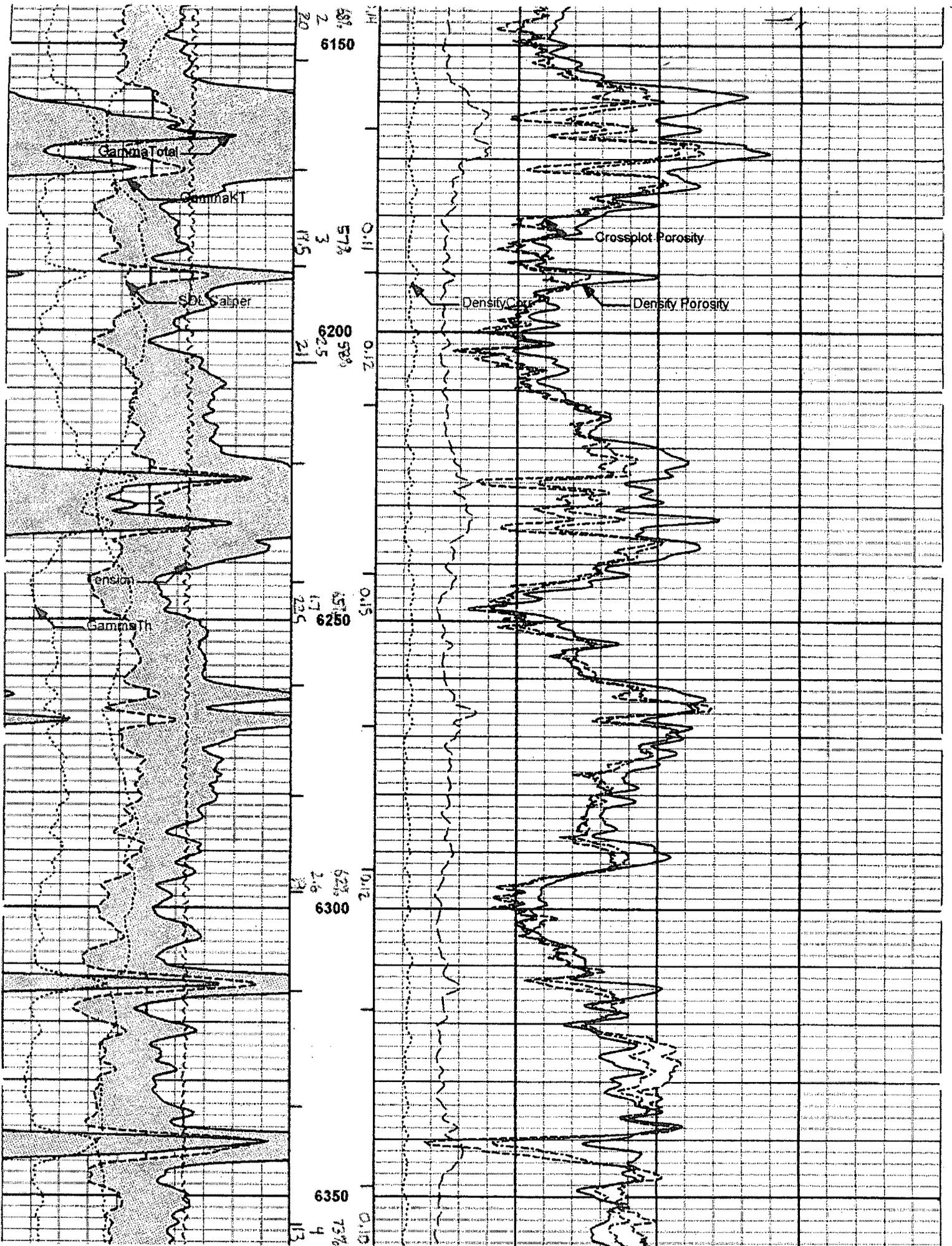
COMPANY COG OPERATING, LLC.
WELL GUNNER 8 FEDERAL No. 8H
FIELD WILDCAT; BONE SPRING
COUNTY LEA
STATE NEW MEXICO
Sect: 8 Twp. 26S Rge. 34E
Elev.: K.B. 3382.0 ft
Elev.: D.F. 3381.0 ft
Elev.: G.L. 3361.0 ft

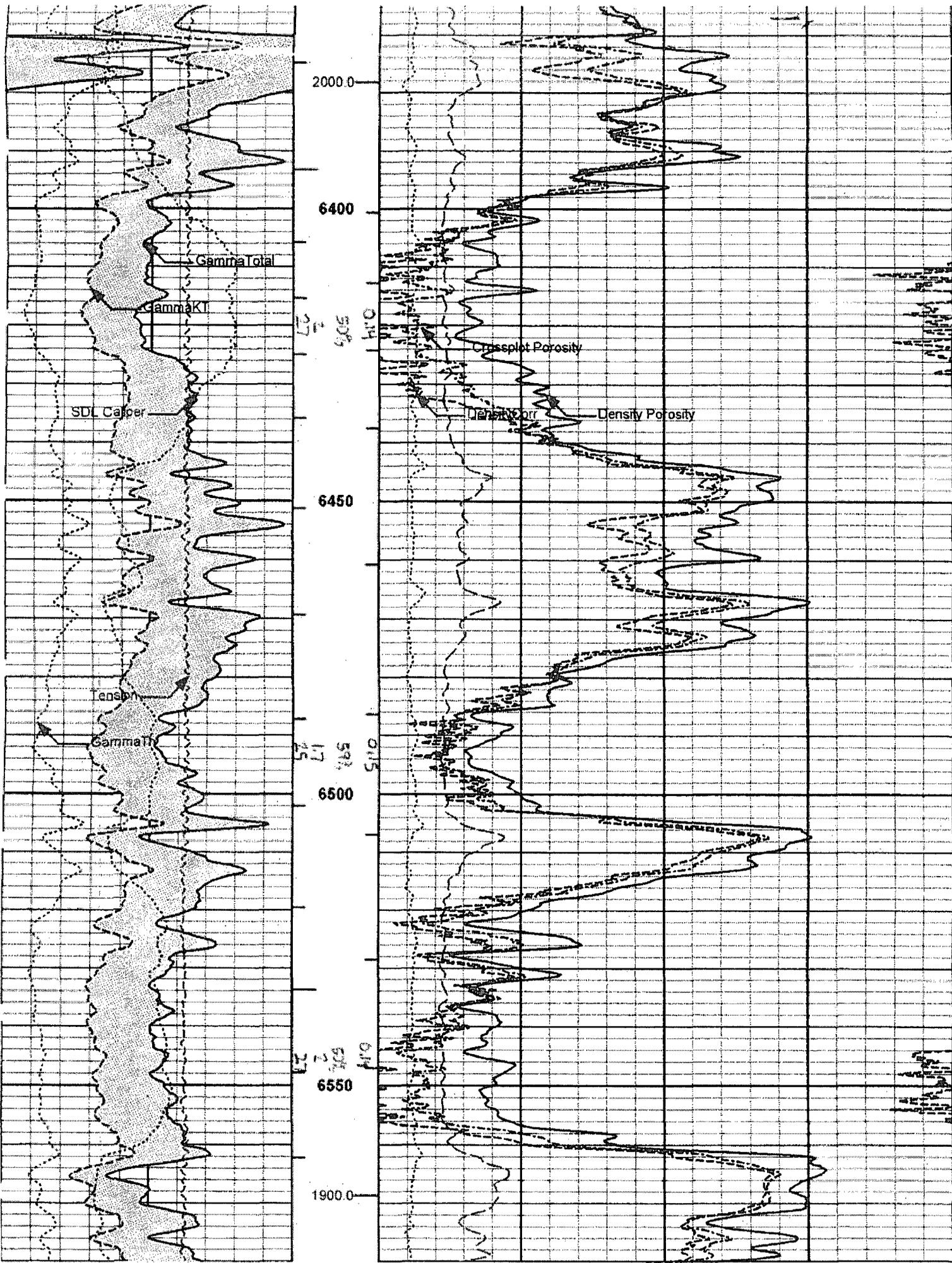
armament Datum	GL			
kg measured from	KB			21.0 ft above perm. Datum
bitting measured from	KB			
31e	22-Nov-11			
In No.	ONE			
31th - Driller	12500.00 ft			
31th - Logger	12486.0 ft			
31th - Logged Interval	12432.0 ft			
31p - Logged Interval	200.0 ft			
31stng - Driller	9.625 in @ 5245.0 ft			
31stng - Logger	5242.0 ft			
1 Size	8.750 in			
pe Fluid In Hole	BRINE			
nsity	9.7 ppg	28.00	sgd	
1	9.00 pH			
Source of Sample	FLOWLINE			
n @ Meas. Temperature	0.070 ohmm @ 75.00 degF			
nf @ Meas. Temperature	0.05 ohmm @ 75.00 degF			
nc @ Meas. Temperature	0.086 ohmm @ 75.00 degF			
Source Rmf	MEAS			
n @ BHT	0.03 ohmm @ 159.0 degF			
7e Since Circulation	8.0 hr			
7e on Bottom	23-Nov-11 01:28			
3x. Rec. Temperature	159.0 degF @ 12486.0 ft			
Equipment Location	700 HOBBS, NM			
Recorded By	DANIEL HEITZ			CHIDIEBERE OKOU
Issued By	RICHARD FREEMAN			

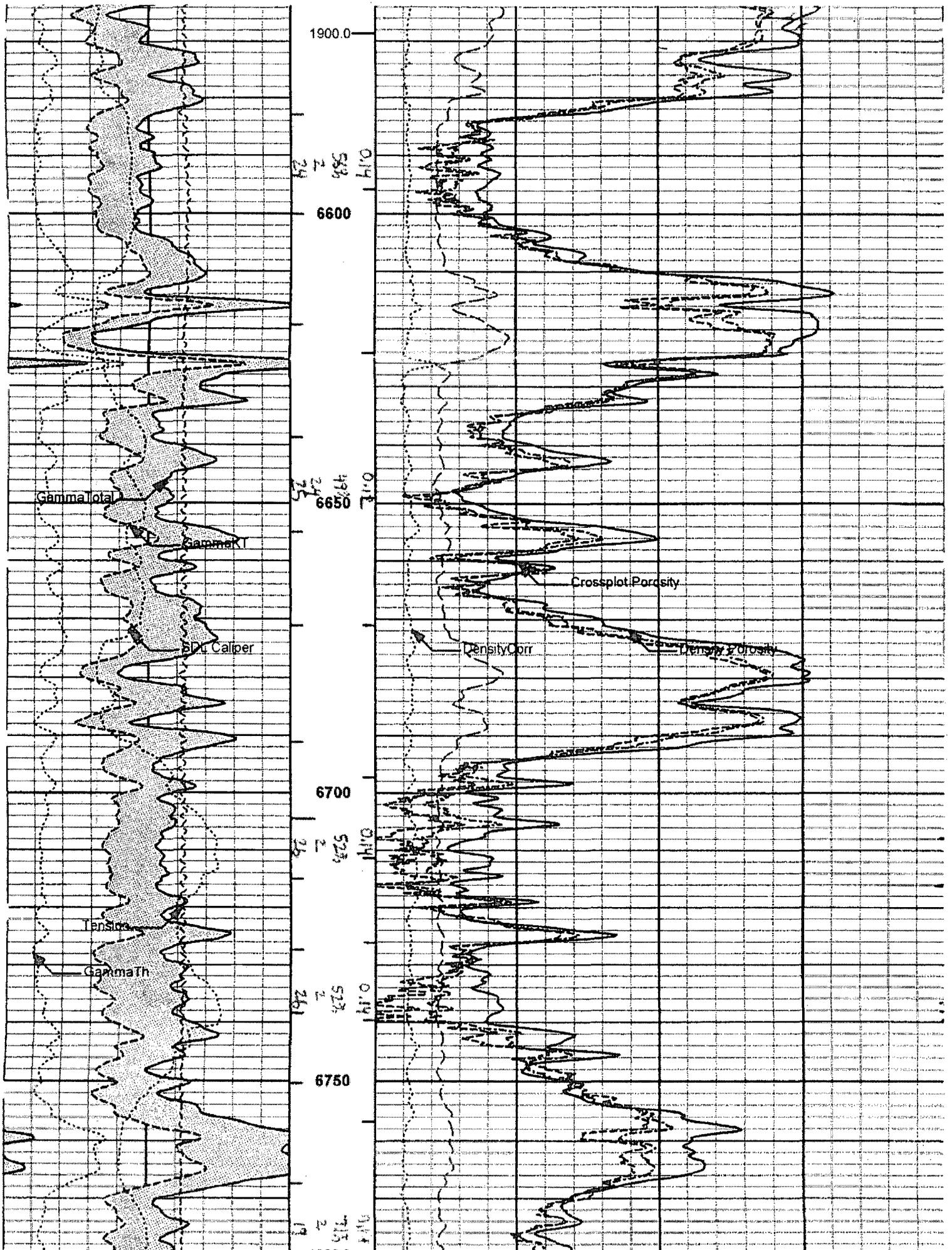
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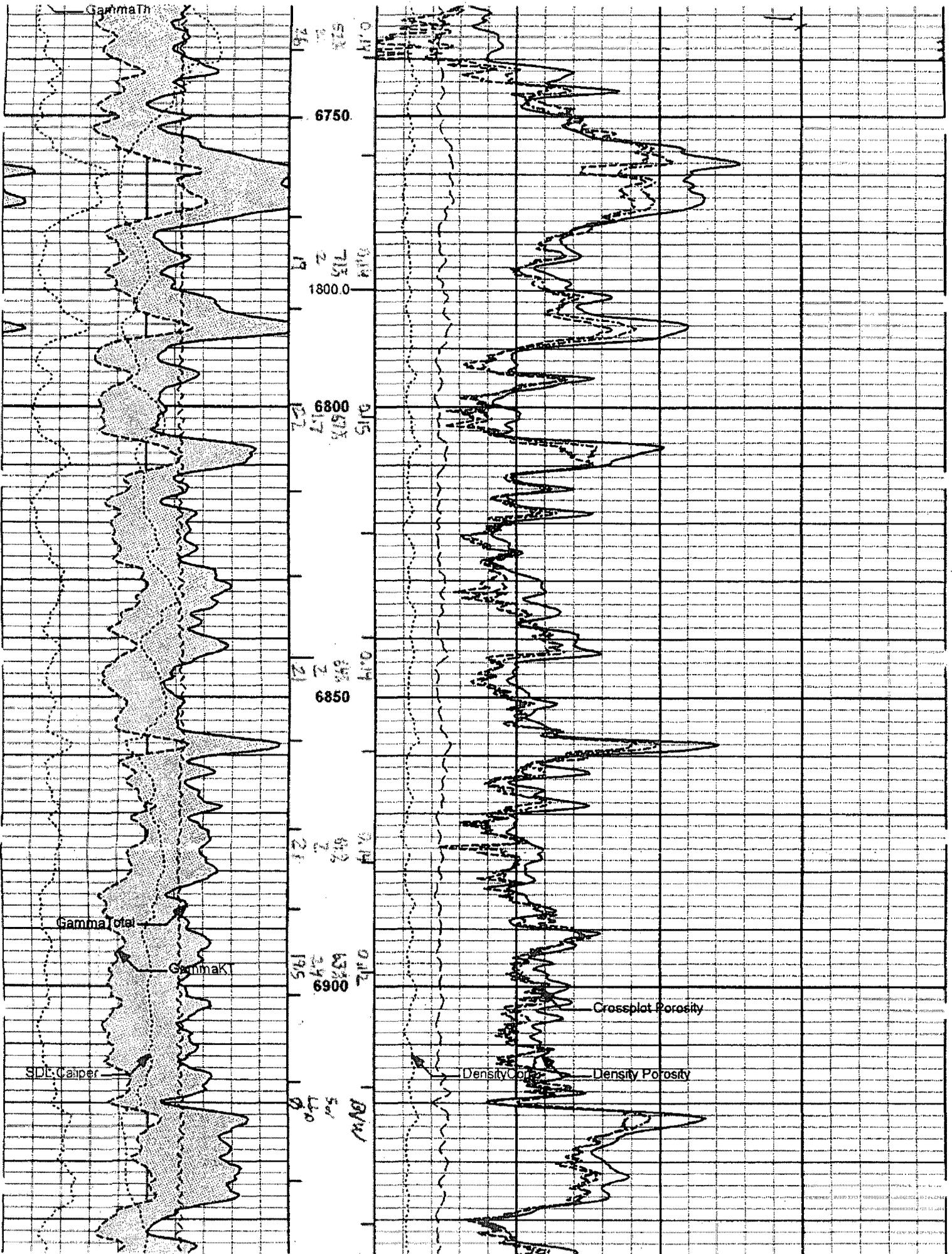
Service Ticket No.: 9048735		API Serial No.: 30-025-40309		PGM Version: WL INSITE R3.4.0 (Build 4)			
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE				RESISTIVITY SCALE CHANGES			
Date	Sample No.			Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth-Driller							
Type Fluid in Hole							
Density	Viscosity						
Ph	Fluid Loss						
Source of Sample				RESISTIVITY EQUIPMENT DATA			
Rm @ Meas. Temp				Run No.	Tool Type & No.	Pad Type	Tool Pos.
Rmf @ Meas. Temp.							
Rmc @ Meas. Temp.							
Source Rmf	Rmc						
Rm @ BHT							
Rmf @ BHT							
Rmc @ BHT							
EQUIPMENT DATA							
GAMMA		ACOUSTIC		DENSITY		NEUTRON	
Run No.	ONE	Run No.		Run No.	ONE	Run No.	ONE
Serial No.	10765654OR	Serial No.		Serial No.	90078467OR	Serial No.	90078467OR
Model No.	GTET	Model No.		Model No.	SDLT-I	Model No.	DSNT-I
Diameter	3.625 inch	No. of Cent.		Diameter	4.5 inch	Diameter	3.625 inch
Detector Model No.	T-102A	Spacing		Log Type	GAM-GAM	Log Type	NEU-NEU
Type	SCINT			Source Type	Cs 137	Source Type	Am241Be
Length	8.0 inch	LSA [Y/N]		Serial No.	5069GW	Serial No.	DSN-363
Distance to Source	24.0 ft	FWDA [Y/N]		Strength	1.5 Ci	Strength	15.0 Ci
LOGGING DATA							











Injection Permit Checklist (11/15/2010)

WFX _____ PMX _____ SWD 1367 Permit Date 11/17/12 UIC Qtr (6/10)

Wells 1 Well Name(s): GUNNER 16 STATE SWD #1

API Num: 30-025-NA Spud Date: N/A New/Old: N (UIC primacy March 7, 1982)

Footages 330 FNL/FWL Unit D Sec 16 Tsp 26S Rge 34E County LEA

General Location: _____

Operator: COG OPERATING LC Contact BRIAN COLLINS

OGRID: 229137 RULE 5.9 Compliance (Wells) 0/3751 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed None Current Status: New drill

Planned Work to Well: Drill/Case Perf/Inject

Diagrams: Before Conversion _____ After Conversion Elogs in Imaging File: New

Well Details:	Sizes Hole.....Pipe	Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
New <input checked="" type="checkbox"/> Existing _____ Surface	17/2 13/8	790'	—	1150 CF	Surf
New <input checked="" type="checkbox"/> Existing _____ Intern	12/4 9/8	5225'	—	3325 CF	Surf
New <input checked="" type="checkbox"/> Existing _____ LongSt	8 3/4" 7"	7000' TD	—	550 CF	4/25' EST.
New _____ Existing _____ Liner					
New _____ Existing _____ OpenHole					

REVISED

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above	5308 6402	Bell Cherry C	<input checked="" type="checkbox"/>
Injection TOP:	6000'	Bell	Max. PSI 1200
Injection BOTTOM:	6900'	Cherry	Open Hole _____ Perfs <input checked="" type="checkbox"/>
Formation(s) Below	8132 9397	Bruny C BS	<input checked="" type="checkbox"/>

5319 ≈ Dal Oil Depth in HAS area

21061-5058
1256-5147

Capitan Reef? _____ Potash? _____ Noticed? _____ TWIPP? _____ Noticed? _____ Salado Top/Bot _____ Cliff House? _____

Fresh Water: Depths: <25' Formation _____ Wells? None Analysis? yes Affirmative Statement

Disposal Fluid Analysis? Sources: BS.

Disposal Interval: Analysis? Production Potential/Testing: _____

Notice: Newspaper Date 8/14/12 Surface Owner 10/31/12 SLO Mineral Owner(s) SLO

RULE 26.7(A) Affected Persons: Yates PC / Devon / Chesapeake / Daniel E. Gonzalez / ABOMXCOOXY

AOR: Maps? Well List? _____ Producing in Interval? NO Wellbore Diagrams? _____

.....Active Wells 0 Repairs? _____ Which Wells? _____

.....P&A Wells 0 Repairs? _____ Which Wells? _____

Issues: _____ Request Sent _____ Reply: _____