

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

ABOVE THIS LINE FOR DIVISION USE ONLY

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 _____
- [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

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

[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.

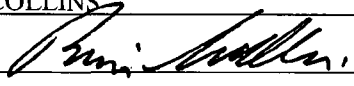
Sincerely,

A handwritten signature in cursive script, appearing to read "Brian Collins".

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage
Application qualifies for administrative approval? X 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 X 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 LLCWELL 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 DATASurface 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/Dynalene 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? X 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: $\pm 9700'$ TVD, Wolfcamp: $\pm 13380'$

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 / JSS / STC @ ±

1150 CF Cmt (cive)

12 1/4"

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

TDC 4725' Design

9 5/8" / 40 / JSS, N80 / BTC @ ±5225'

3325 CF Cmt (cive)

8 3/4"

Inj PKR ± 5950'

Delaware Sand

6000 - 6900'

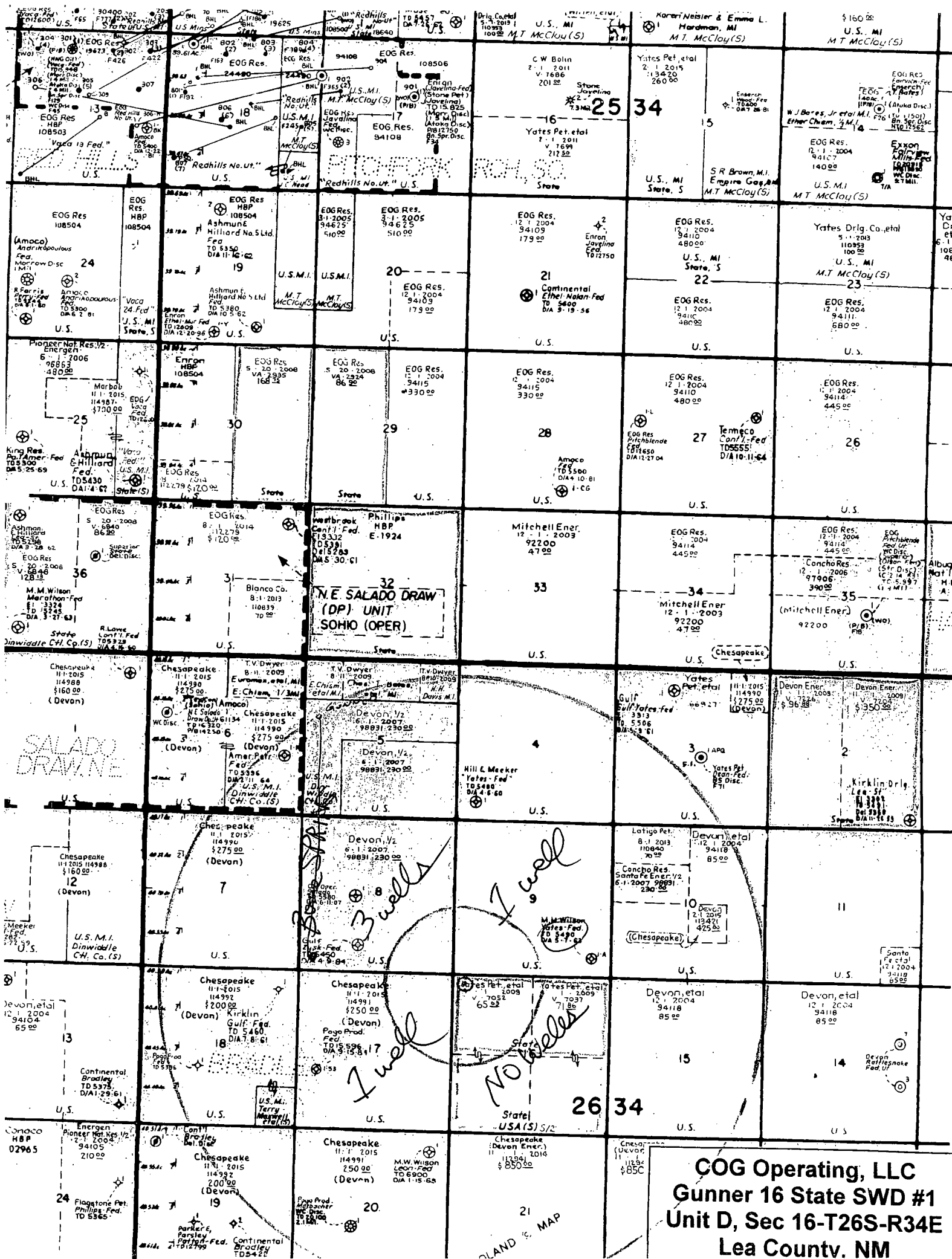
7" / 26 / JSS / LTC @ ±7000'

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

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

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**

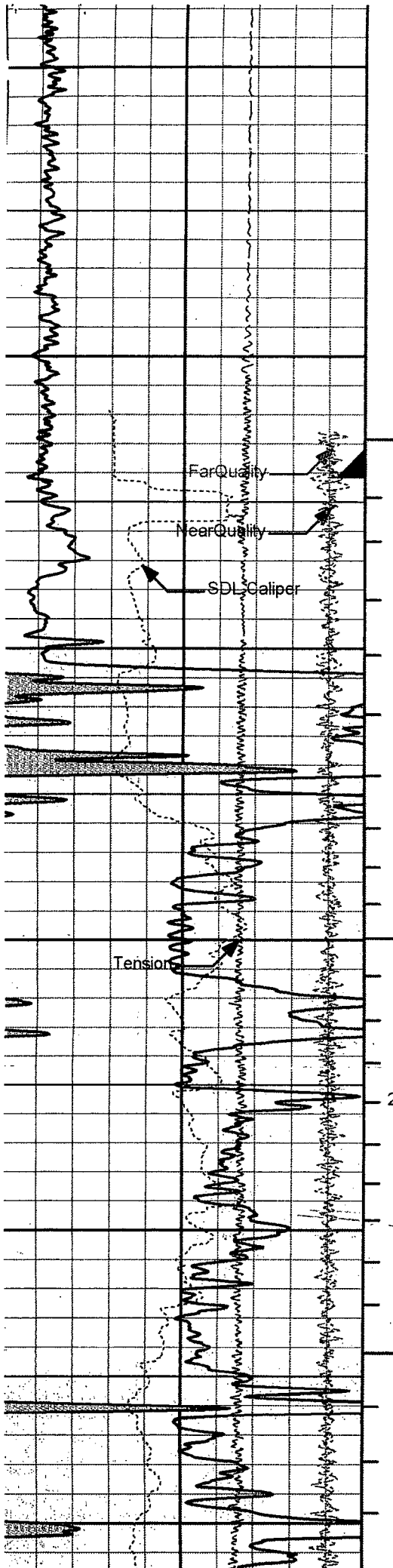
HALLIBURTON

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		
Permanent Datum	GL	Elev. 3361.0 ft	Elev. K.B. 3382.0 ft
Log measured from	KB	21.0 ft above perm. Datum	D.F. 3381.0 ft
Drilling measured from	KB		GL 3361.0 ft
Date	22-Nov-11		
Run No.	ONE		
Depth - Driller	12500.00 ft		
Depth - Logger	12486.0 ft		
Bottom - 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 s/qt	
H	9.00 pH		
Source of Sample	FLCOWLINE		
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		
Log Rec. Temperature	159.0 degF @ 12486.0 ft		
Equipment	700	HOBBS NM	
Recorded By	DANIEL HEITZ	CHIDEBERE OKOLI	
Witnessed By	RICHARD FREEMAN		

COG OPERATING, LLC. RECEIVED NOV 29 2011
ARTESIA WEST
Other Services: DLT/MGRD RSC/T

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.
Rmf @ Meas. Temp					
Rmc @ Meas. Temp					
Source Rmf	Rmc				
Rm @ BHT					
Rmf @ BHT					
Rmc @ BHT					
EQUIPMENT DATA					
GAMMA		ACOUSTIC		DENSITY	
Run No.	ONE	Run No.		Run No.	ONE
Serial No.	10765654OR	Serial No.		Serial No.	90078467OR
Model No.	GTET	Model No.		Model No.	SDLT-I
Diameter	3.625 inch	No. of Cent.		Diameter	4.5 inch
Detector Model No.	T-102A	Spacing		Log Type	GAM-GAM
Type	SCINT			Source Type	Cs 137
Length	8.0 inch	LSA [Y/N]		Serial No.	5069GW
Distance to Source	24.0 ft	FWDA [Y/N]		Strength	1.5 Ci
LOGGING DATA					



5100

5200

5300

5400

5500

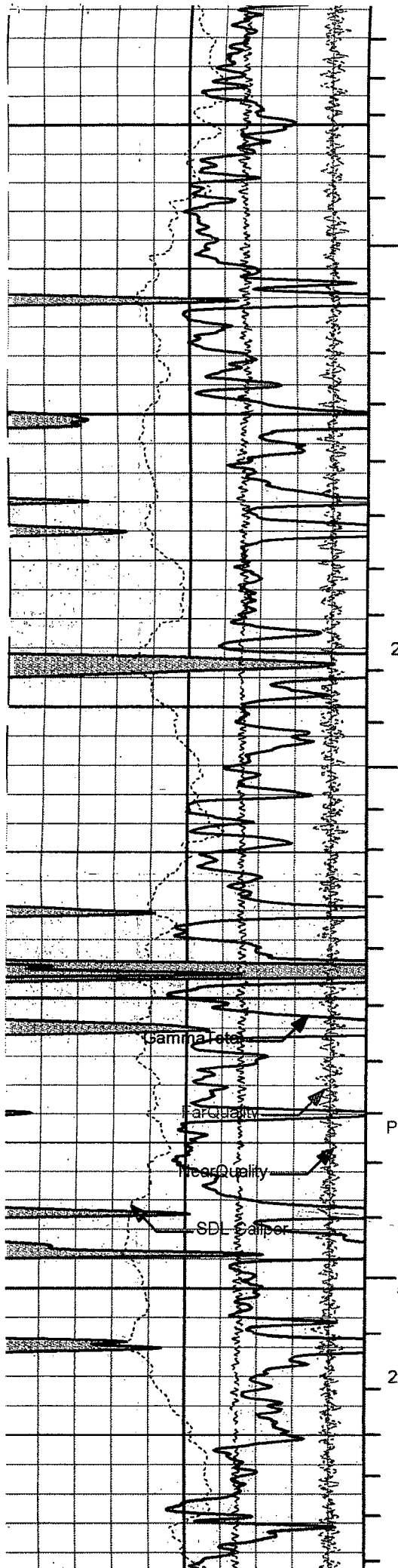
5600

CSG
Pe Cor

Density Cor

Bulk Density

2400.0



5500

5600

2300.0

5700

5800

5900

2200.0

Gamma Log

Far Quality

Near Quality

SD Log

Pe Corr

Density Corr

Bulk Density

Tension

2200.0

6000

6100

2100.0

6200

6300

2000.0

6400

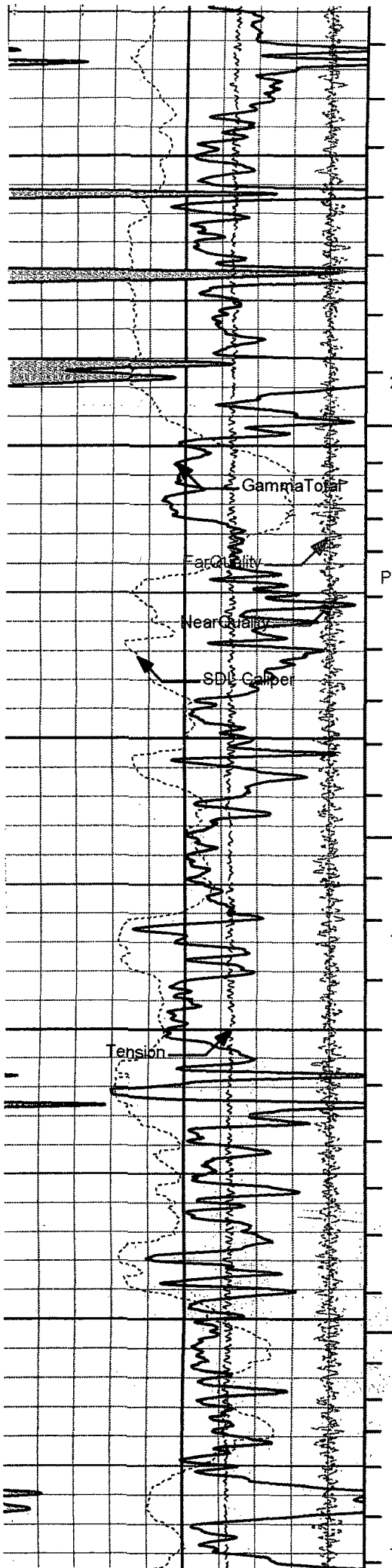
Gamma Total

acoustic

Density Corr.

Top Int. Interval
6000'





6300

2000.0

6400

Gamma Total

ac Density

Near Density

SDR Caliper

Pe Corr

6500

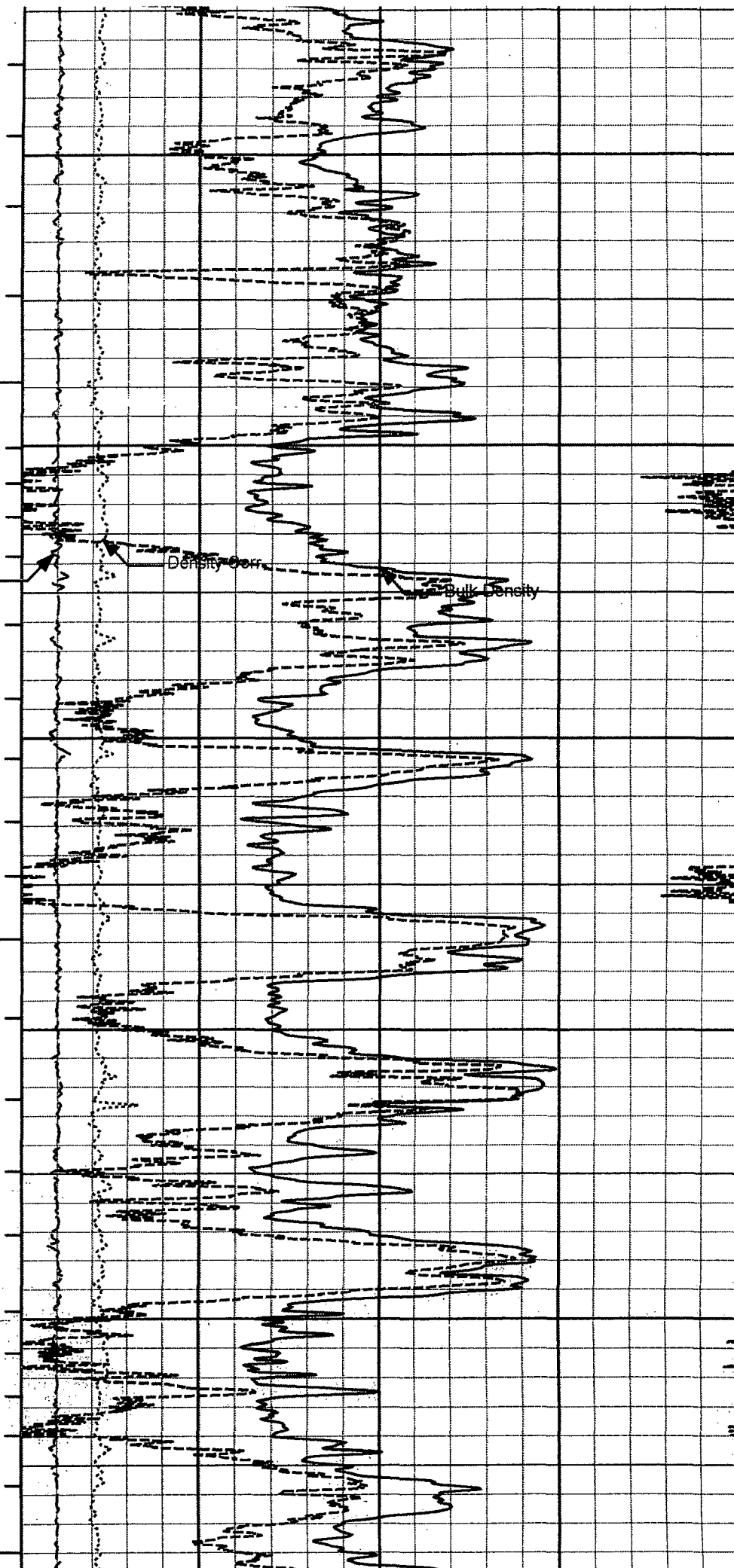
1900.0

6600

Tension

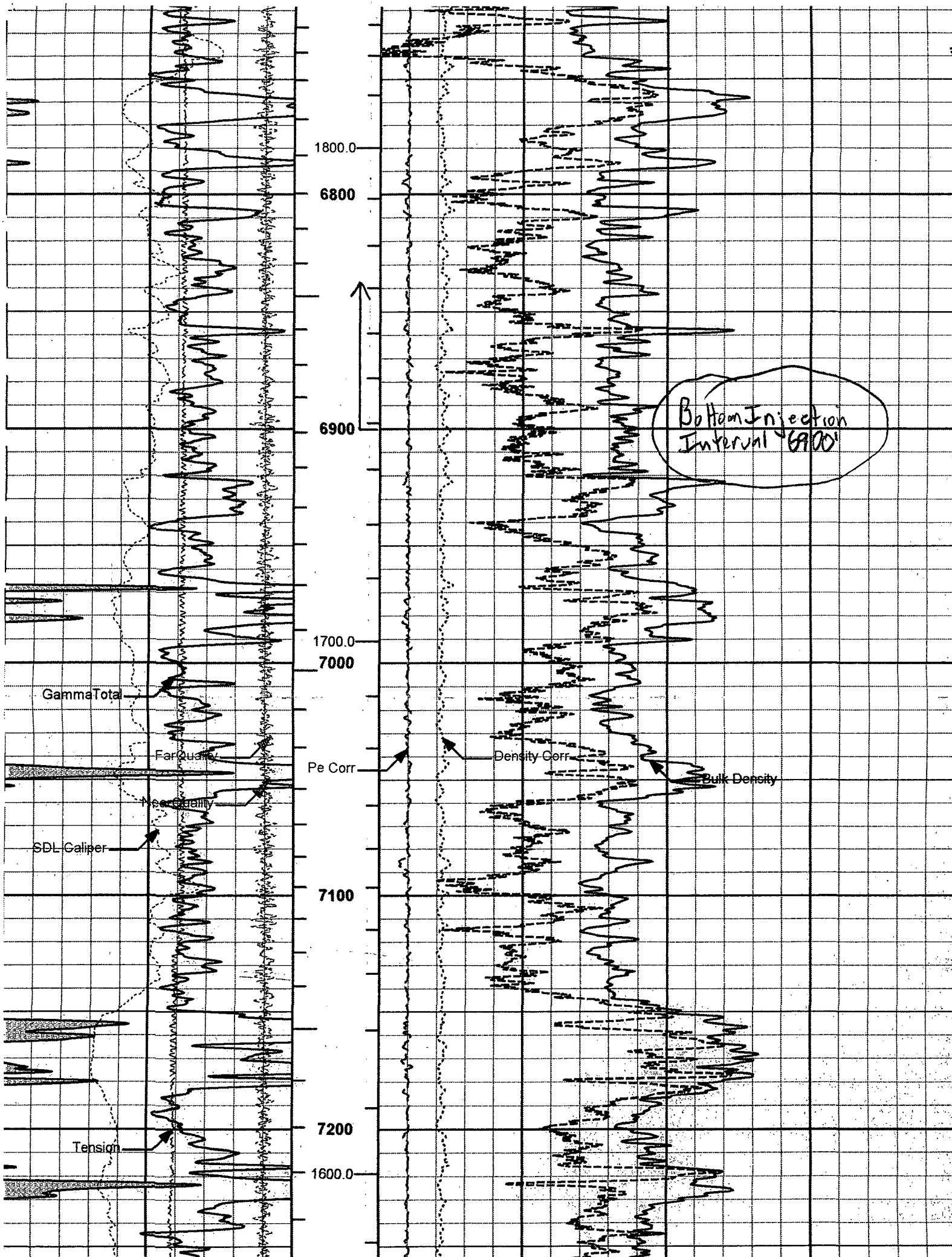
6700

1800.0



Density Corr

Bulk Density



1800.0

6800

6900

1700.0

7000

7100

7200

1600.0

Gamma Total

Farouqi

Nea Quality

SDL Caliper

Tension

Pe Corr

Density Corr

Bulk Density

Bottom Injection
Interval 6900

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

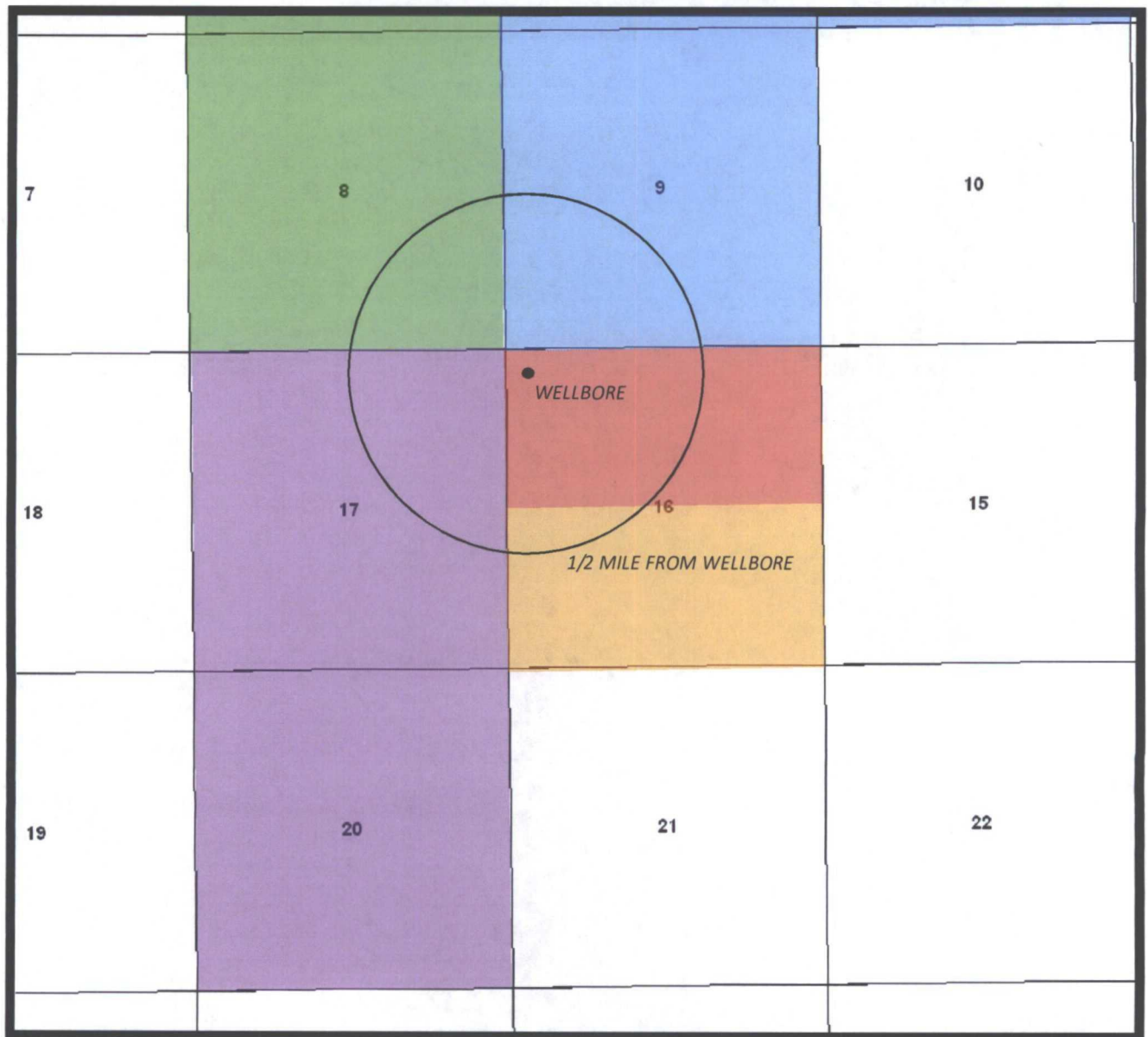
TANK SAMPLE	ODC # 774				
Sample Temp.	<u>70</u> °F	_____ °F	_____ °F	_____ °F	_____ °F
RESISTIVITY	<u>15.8</u>	_____	_____	_____	_____
SPECIFIC GR.	<u>1.001</u>	_____	_____	_____	_____
pH	<u>7.78</u>	_____	_____	_____	_____
CALCIUM	<u>130</u> mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
MAGNESIUM	<u>147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

REMARKS _____

MPL = Milligrams per liter
Resitivity 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 cursive script, 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

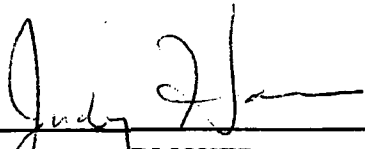
Affidavit of Publication

State of New Mexico,
County of Lea.

I, JUDY HANNA
PUBLISHER

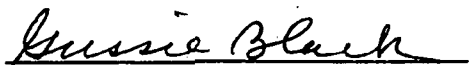
of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).
Beginning with the issue dated
August 24, 2012
and ending with the issue dated
August 24, 2012



PUBLISHER

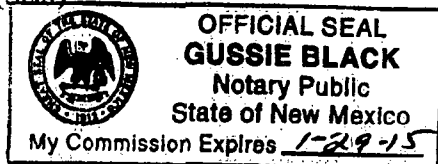
Sworn and subscribed to before me
this 14th day of
September, 2012



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

LEGAL

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 575-748-8840.
#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", written over a horizontal line.

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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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

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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

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

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

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

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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Sincerely,

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Brian Collins
Senior Operations Engineer

BC/sw
Enclosures

7011 1570 0000 7781 2144

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 ABO Petroleum Corporation		
105 South 4 th Street		
Artesia, NM 88210		
City, State, ZIP+4 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		
(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 Chesapeake Exploration, L.L.C.		
P.O. Box 18496		
Oklahoma City, OK 73154		
City, State, ZIP+4 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		
(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 Dan E. Gonzales		
P.O. Box 2475		
Santa Fe, NM 87504		
City, State, ZIP+4 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		
(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 Devon Energy Production Co., LP		
333 W. Sheridan Ave.		
Oklahoma City, OK 73102-5010		
City, State, ZIP+4 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 **MYCO 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 2205

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 0003 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 0003 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 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)

7011 1570 0000 7781 2205

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

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)

7011 1570 0000 7781 2182

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

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)

7011 1570 0000 7781 2151

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *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

A. Signature

x *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

A. Signature

x *RECEIVED*☐ 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

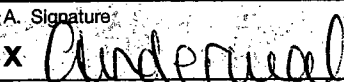
☒ Certified Mail☐ Express Mail☐ Registered☒ Return Receipt for Merchandise☐ Insured Mail☐ C.O.D.


4. Restricted Delivery? (Extra Fee)

☐ Yes

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature X </p> <p><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>New Mexico State Land Office P.O. Box 1148 Santa Fe, NM 87504-1148 Gunner 16 St. SWD #1/Notification</p> <p>Sent out 8/10/12</p>		<p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>AUG 13 2012</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7011 1570 0000 7781 2168</p>		<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-154</p>			

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature X </p> <p><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>Dan E. Gonzales P.O. Box 2475 Santa Fe, NM 87504 Gunner 16 St. SWD #1/Notification</p> <p>Sent out 8/10/12</p>		<p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>AUG 14 2012</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7011 1570 0000 7781 2168</p>		<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>			

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature X </p> <p><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>ABO Petroleum Corporation 105 South 4th Street Artesia, NM 88210 Gunner 16 St. SWD #1/Notification</p> <p>Sent out 8/10/12</p>		<p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>8-13-12</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7011 1570 0000 7781 2144</p>		<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>			

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<p>■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</p> <p>■ Print your name and address on the reverse so that we can return the card to you.</p> <p>■ Attach this card to the back of the mailpiece, or on the front if space permits.</p>		<p>A. Signature X </p> <p><input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
<p>1. Article Addressed to:</p> <p>Devon Energy Production Co., LP 333 W. Sheridan Ave. Oklahoma City, OK 73102-5010 Gunner 16 St. SWD #1/Notification</p> <p>Sent out 8/10/12</p>		<p>B. Received by (Printed Name) C. Date of Delivery</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>	
<p>2. Article Number (Transfer from service label)</p> <p>7011 1570 0000 7781 2175</p>		<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540</p>			

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

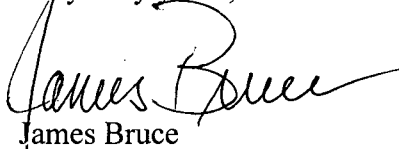
Re: COG Operating LLC
Administrative SWD application

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

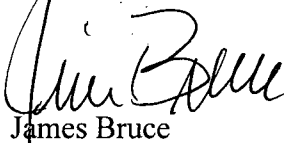
Re: COG Operating LLC
Administrative SWD application

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 OCD
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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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. 6/5

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.

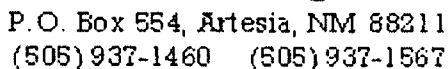
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Sent: Friday, November 09, 2012 6:32 PM
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COG OPERATING LLC
RECEIVED
DEC 29 2011

Interval Logged: 9353' To: 17225' G.L.: 3361' K.B: 3383'
Date Logged: 11/26/2011 To: 12/22/2011 Spud Date: 10/30/2011
Rig: Union Drilling Unit No.: 216
Loggers: Robert Henry, Nathan Guyon
Api No.: 30-025-40309
Filename: gunner8federal-8-h_mlw.mlw
Geologist: Andrew McCarthy

[illegible]

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, DKB, 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

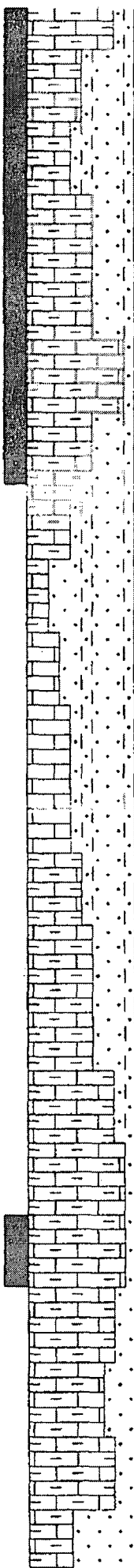
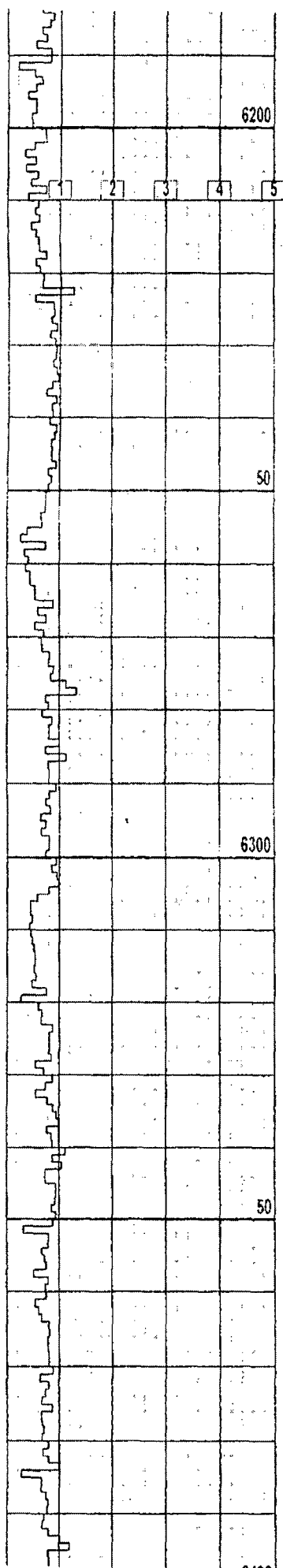
SS: FRSTD, CLR, LTGRY,
SBRND, RND FG, VFG, LSE,
FRI CLSTRS W/LIMY CMT
IP, TR GLD FLUOR, NO CUT,
NO PET ODOR NTD IN
SMPLS

SS: A.A.

LS: DKBRY/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, VEG, LSE,
FRI CLSTRS W/LIMY CMT
IP, TR YEL/GLD FLUOR,
TR-FR SLOW WET MLKY
CUT, NO PET ODOR NTD IN
SMPLS

LS: A.A.

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

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, VEG, 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

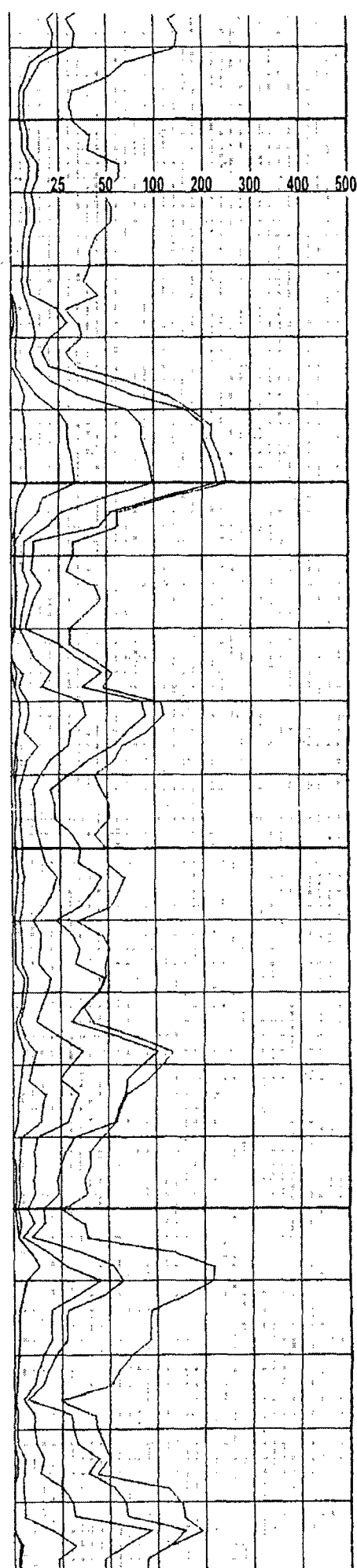
SS: A.A. INCR LSE W/
DEPTH

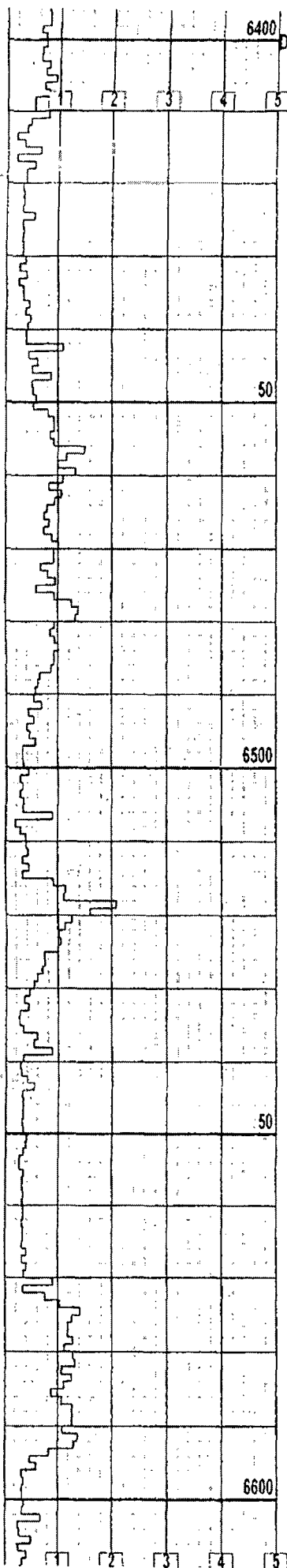
SS: FRSTD, LTGRY, SBANG/
SBRND, VEG, FRIA CLSTRS
W/LIMY CMT

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 SMPLS

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





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, LT
GRY, 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

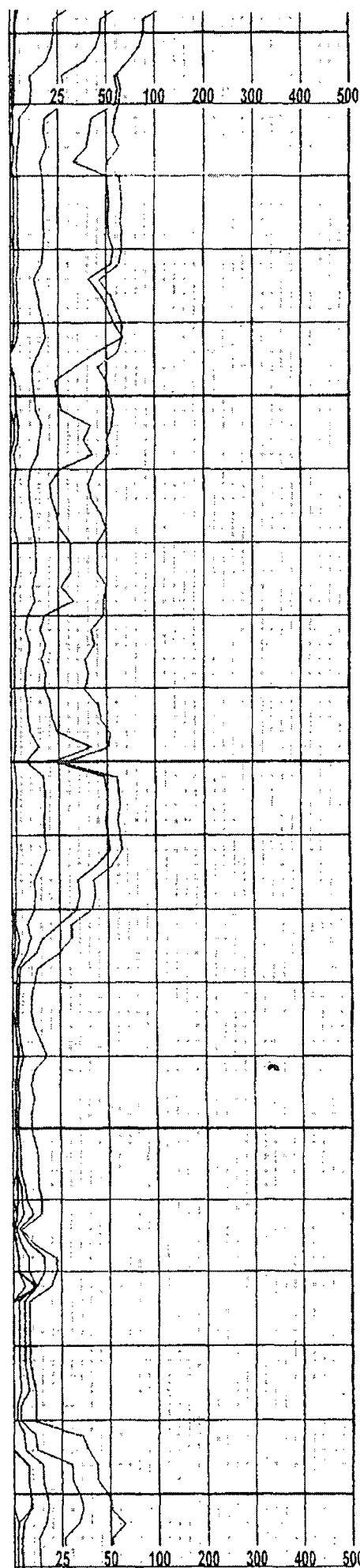
SS: FRSTD, LTGRY, CLR,
SBANG/SBRND, FRI CLSTRS
W/LIMY CMT

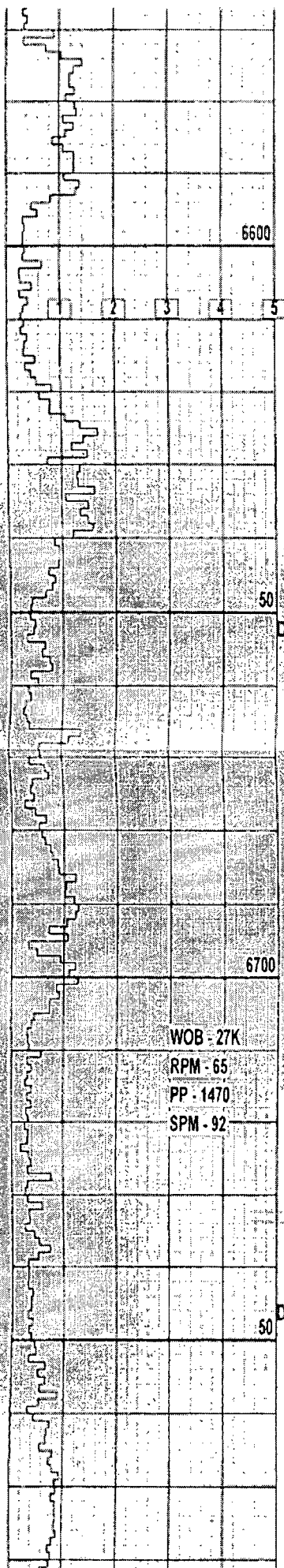
SS: FRSTD, LTGRY, CLR,
SBANG/SBRND, LSE, FRI
CLSTRS W/LIMY CMT IP

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.





D.S. - 0.5°

D.S. - 0.6°

LS: LTGRY 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, MICX, SM SHLY
IP, SFT/FRM

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

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

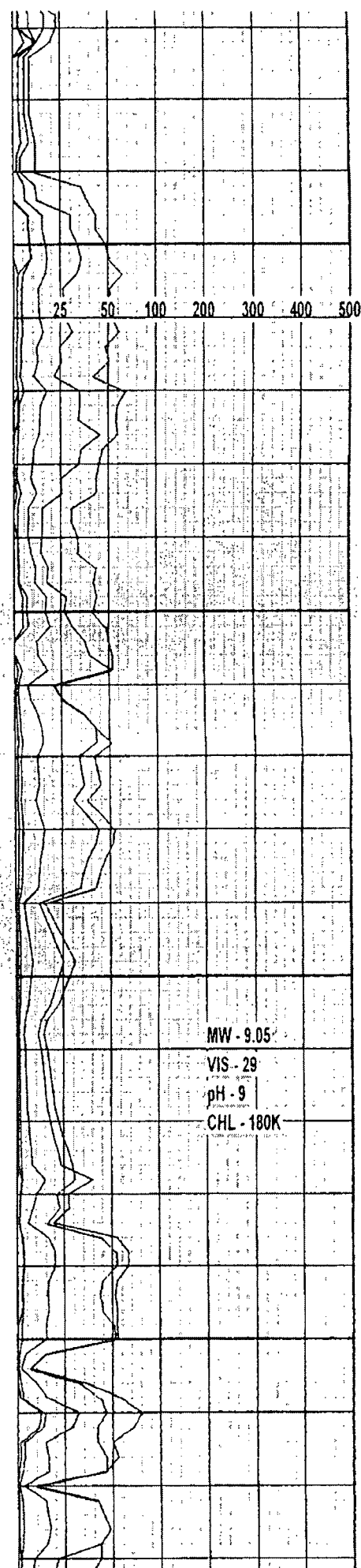
SS: A.A.

SS: A.A.

SS: FRSTD, LTGRY, CLR, SM
LTBRN, 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.



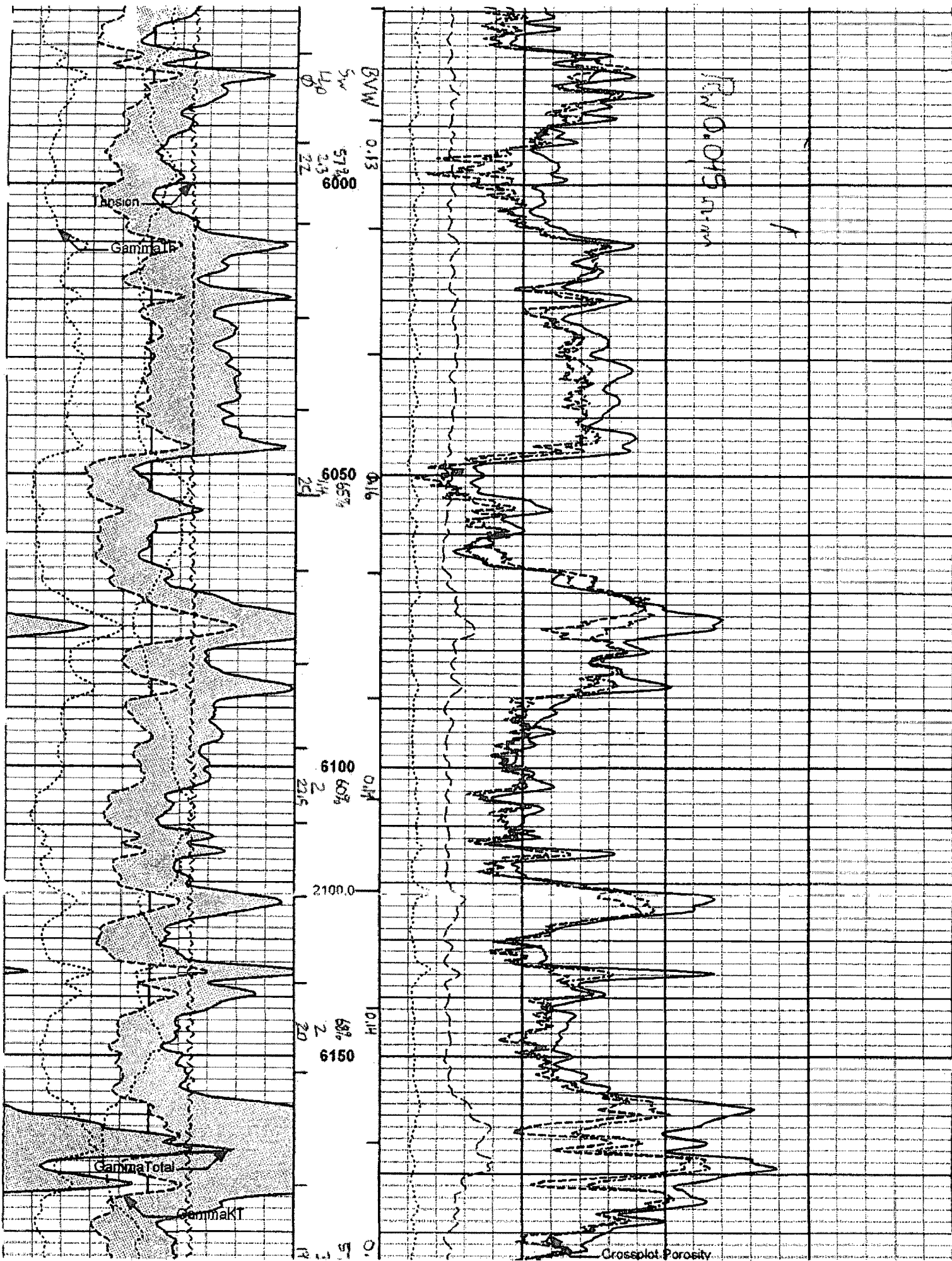
HALLIBURTON

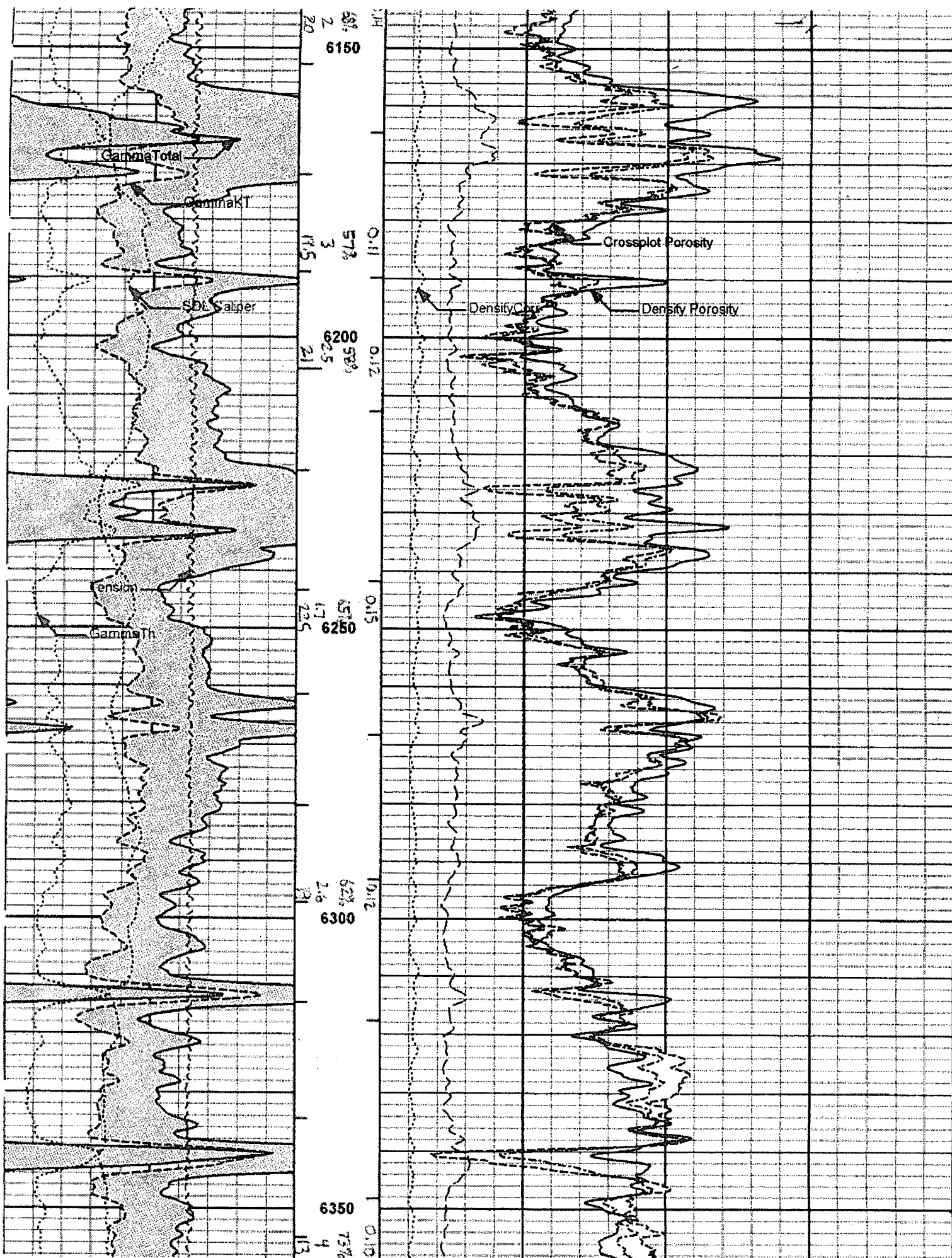
COMPENSATED GAMMA RAY DUAL SPACED NEUTRON SPECTRAL DENSITY

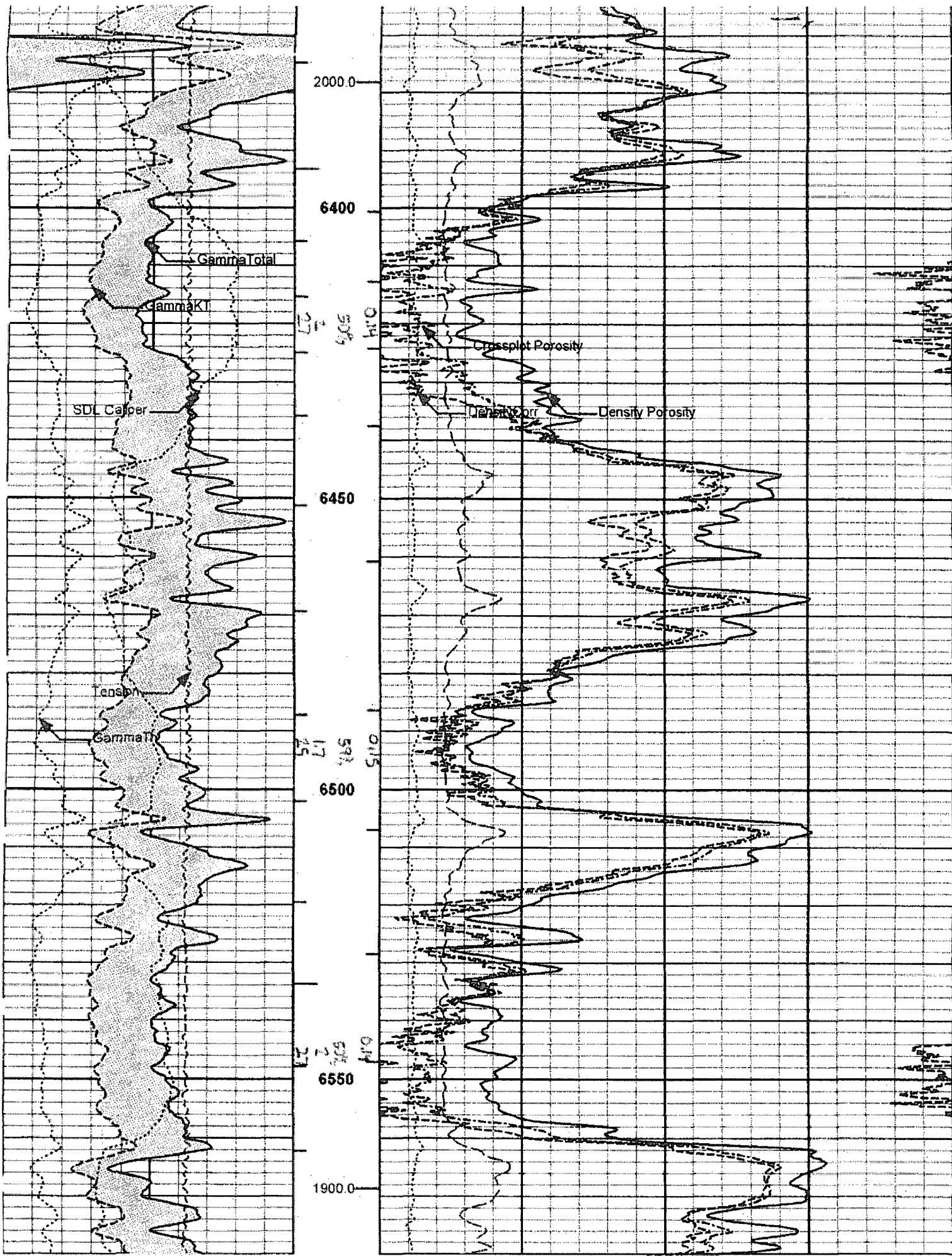
COMPANY		COG OPERATING, LLC.	
WELL	GUNNER 8 FEDERAL No. 8H		
FIELD	WILDCAT; BONE SPRING		
COUNTY	LEA		
STATE	NEW MEXICO		
Seci. 8	Twp. 26S	Rge. 34E	
API No. 30-025-40309	Location 990 FSL & 300 FSL	NOV 29 2011	Other Services: DLT/MGRD RSCIT
COMPANY	COG OPERATING, LLC.	WELL	GUNNER 8 FEDERAL No. 8H
FIELD	WILDCAT; BONE SPRING	COUNTY	LEA
STATE	NEW MEXICO	STATE	NEW MEXICO
armament Datum	GL	Elev. 3361.0 ft	Elev. 3361.0 ft
g measured from	KB	21.0 ft above perm. Datum	D.F. 3361.0 ft
filling measured from	KB		G.L. 3361.0 ft
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		
31sing - Driller	9.625 in @ 5245.0 ft		
31sing - Logger	5242.0 ft		
1 Size	8.750 in		
pe Fluid in Hole	BRINE		
nsity	8.7 ppq	28.00 sqd	
1	Fluid Loss	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	0.066 ohmm @ 75.00 degF		
Source Rmf	Rmc	MEAS	
n @ BHT	0.03 ohmm @ 159.0 degF		
ne Since Circulation	8.0 hr		
ne on Bottom	23-Nov-11 01:28		
3x. Rec. Temperature	159.0 degF @ 12486.0 ft		
Equipment	700	HOBBS, NM	
Recorded By	DANIEL HEITZ	CHIDEBERE OKOU	
Witnessed By	RICHARD FREEMAN		

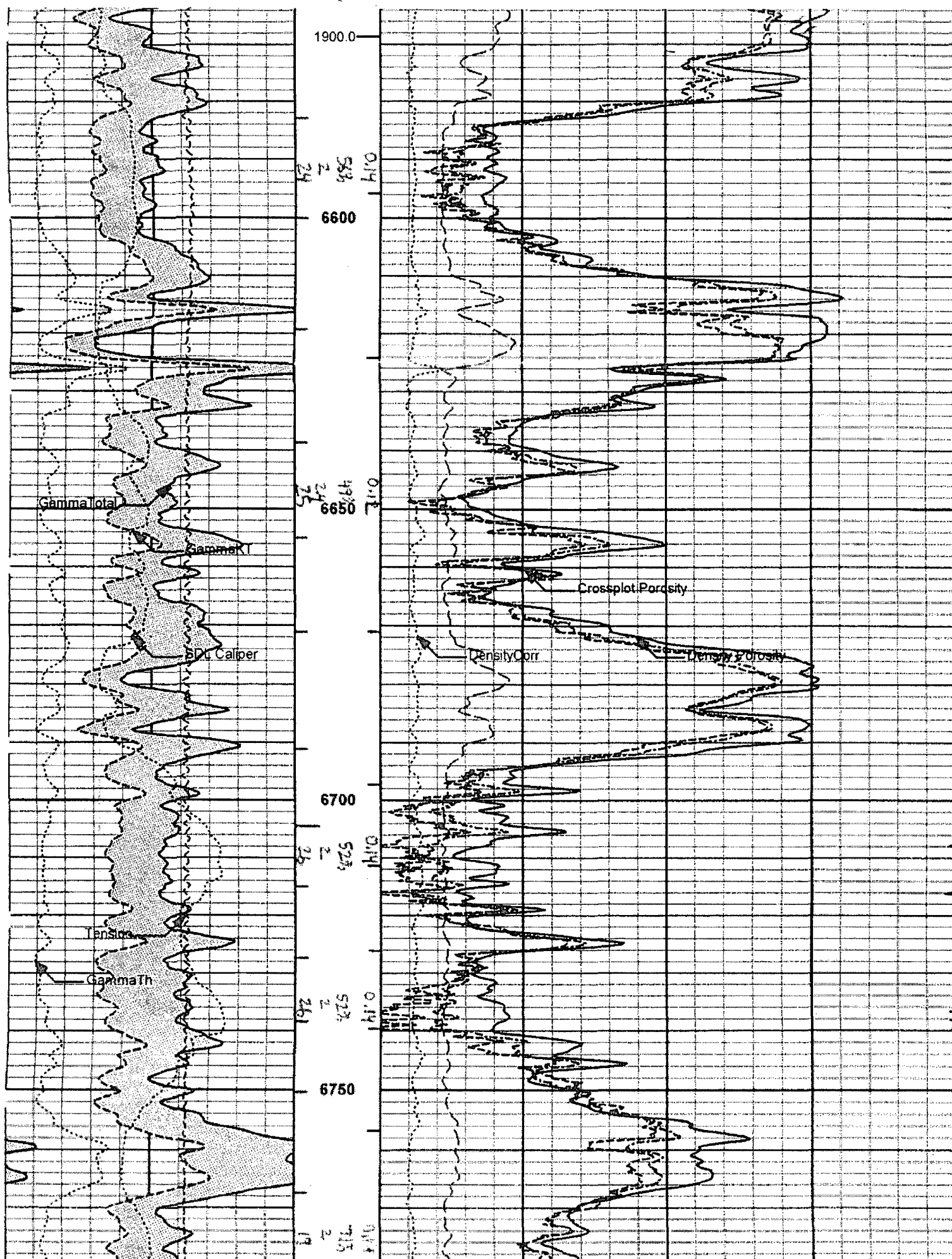
Fold here

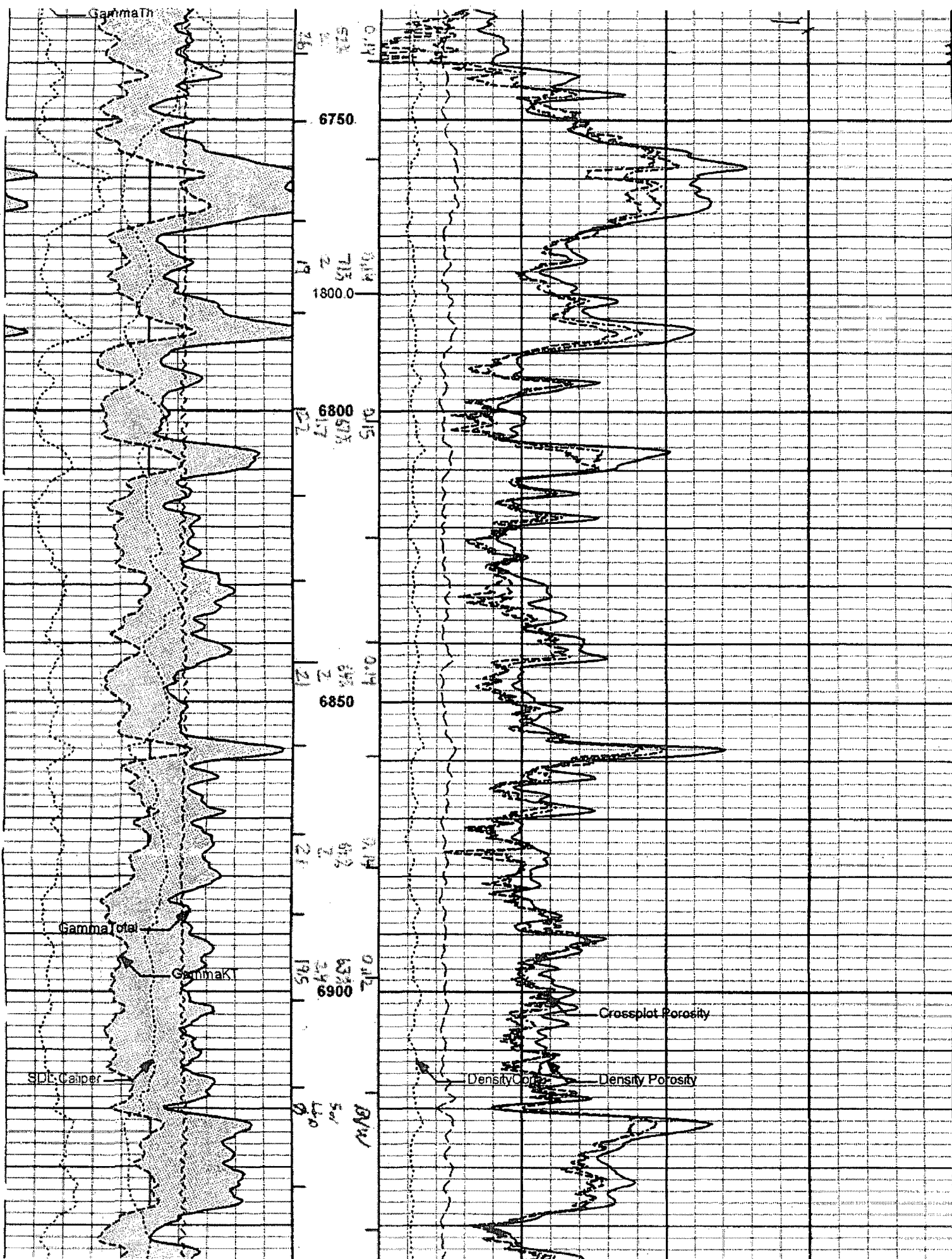
Service Ticket No.: 9046735		API Serial No.: 30-025-40309		PGM Version: WL INSITE R3.4.0 (Build 4)	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE				RESISTIVITY SCALE CHANGES	
Date	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth-Driller					
Type Fluid in Hole					
Density	Viscosity				
Ph	Fluid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











Injection Permit Checklist (11/15/2010)

WFX _____ PMX _____ SWD 1367 Permit Date 11/17/12 UIC Qtr (6/15/10)# Wells 1 Well Name(s): GUNNER 16 STATE SWD #1API 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 LLC Contact BRIAN COLLINSOGRID: 229137 RULE 5.9 Compliance (Wells) 0/3751 (Finan Assur) OK IS 5.9 OK? OKWell File Reviewed None Current Status: New drillPlanned Work to Well: Drill/Case/Perf/InjectDiagrams: Before Conversion _____ After Conversion ✓ Elogs in Imaging File: New

Well Details:	Sizes		Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
	Hole.....	Pipe				
New <u>✓</u> Existing _____ Surface	<u>17 1/2</u>	<u>13 3/8</u>	<u>790'</u>	<u>—</u>	<u>1150 CF</u>	<u>Surf</u>
New <u>✓</u> Existing _____ Interm	<u>12 1/4</u>	<u>9 5/8</u>	<u>5225'</u>	<u>—</u>	<u>3325 CF</u>	<u>Surf</u>
New <u>✓</u> Existing _____ LongSt	<u>8 3/4"</u>	<u>7"</u>	<u>7000' TD</u>	<u>—</u>	<u>550 CF</u>	<u>4125' EST</u>
New _____ Existing _____ Liner						
New _____ Existing _____ OpenHole						

Depths/Formations:

	Depths, Ft.	Formation	Tops?
Formation(s) Above	<u>5308</u> <u>6402</u>	<u>Bell C</u> <u>Cherry C</u>	<u>✓</u> <u>✓</u>
Injection TOP:	<u>6000'</u>	<u>Bell C</u>	Max. PSI <u>1200</u> Open Hole _____ Perfs <u>✓</u>
Injection BOTTOM:	<u>6900'</u>	<u>Cherry C</u>	Tubing Size <u>3/2021 1/2</u> Packer Depth _____
Formation(s) Below	<u>8132</u> <u>9399</u>	<u>Brady C</u> <u>BS</u>	<u>✓</u> <u>✓</u>

Captain Reef? _____ Potash? _____ Noticed? _____ WIPP? _____ Noticed? _____ Salado Top/Bot 1258-5147 Cim House? _____Fresh Water: Depths: <25' Formation _____ Wells? None Analysis? yes Affirmative Statement ✓Disposal Fluid Analysis? ✓ Sources: BSDisposal Interval: Analysis? ✓ Production Potential/Testing: _____Notice: Newspaper Date 8/14/12 Surface Owner 10/31/12 SLO Mineral Owner(s) SLORULE 26.7(A) Affected Persons: Yates/Deion/Cheng/Daniel E. Gonzalez/ABO M3000XTAOR: 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: _____