

Noticed 10/4/12
Final Date 11/30/12

DATE 10/2/12	SUSPENSE	ENGINEER WVS	LOGGED IN	TYPE SWD	APP NO. PWVS 1233779.168
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ABOVE THIS LINE FOR DIVISION USE ONLY

1369

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

[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.

<u>BRIAN COLLINS</u> Print or Type Name	 Signature	<u>SENIOR OPERATIONS ENGINEER</u> Title	<u>07/10/12</u> Date
		<u>bcollins@concho.com</u> e-mail Address	



RECEIVED OGD

2012 OCT -2 P 12:41

October 1, 2012

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

RE: Application For Authorization To Inject
Gunner 32 State SWD #1
Township 25 South, Range 34 East, N.M.P.M.
Section 32: 2310' FNL & 2310' FEL
Lea County, New Mexico

Dear Mr. Jones:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the Gunner 32 State SWD #1 well as referenced above. Attached, for your review, is a copy of the C-108 application. Once we receive the newspaper publication and all certified return receipts, I will send you a copy.

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

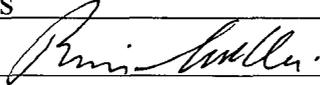
Sincerely,

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

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures

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: _____
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 32 STATE SWD #1
Unit G, Sec 32 T25S R34E
Lea County, NM

COG Operating, LLC, proposes to drill the captioned well to 7200' for salt water disposal service into the Delaware Sand from 5200' to 7200'. 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 = 1040 psi
(0.2 psi/ft. x 5200' 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 5200' to 7200'. 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 300,000 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 8200' to the southwest showing the injection interval is attached.
- XI. There might be one fresh water well within a mile of the proposed SWD well (located in SW/4 of Section 29-T25S-R34E). State Engineers records show well being drilled in 1880 so it may not be active. If it is active, it's located at a private ranch house with a yard dog present so no attempt to collect a sample was made. A water analysis is attached for an analogous fresh water well located nearby in the NE/4 Section 6-T26S-R34E
- 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 32 State No. 1

WELL LOCATION: 2310' FNL 2310' FEL G 32 25s 34e
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

This 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" e ± 770'
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" e ± 5200'
Cemented with: _____ sx. or 3325 ft³
Top of Cement: Surface Method Determined: By Design

Production Casing

Hole Size: 8 3/4" Casing Size: NIA
Cemented with: _____ sx. or NIA ft³
Top of Cement: NIA Method Determined: NIA
Total Depth: 7200'

Injection Interval

5200' feet to 7200'

(Perforated or Open Hole indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3 1/2" or 4 1/2" Lining Material: IPC / D. volume 20
Type of Packer: SK nickel plated double grip retrievable
Packer Setting Depth: ± 5150'
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: ± 9625' TVD Wolfcamp: ± 13380'

30-025-

Gunner 32 Statc SWD 1
2310' FNL, 2310' FEL
G-32-25s-34e
Lea, NM

17 1/2"

13 3/8" / 54.5 / J55 / STC @ ± 770'

1150 CF Cmt (circ)

12 1/4"

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

Nickel Plated Inj Pkr ± 5150'

9 7/8" / 40 / J55, N80 / BTC @ ± 5200'

3325 CF Cmt (circ)

8 3/4"

Delaware Sand
Open Hole ± 5200 - 7200'

7200'

V.

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**

API No. 30-025-40309
Location 990' FSL & 330' FSL

Sect. 8 Twp. 26S Rge. 34E
Elev. 3361.0 ft
Elev. K.B. 3362.0 ft
D.F. 3361.0 ft
G.L. 3361.0 ft

Other Services:
DLT/MGRD
RSC/T

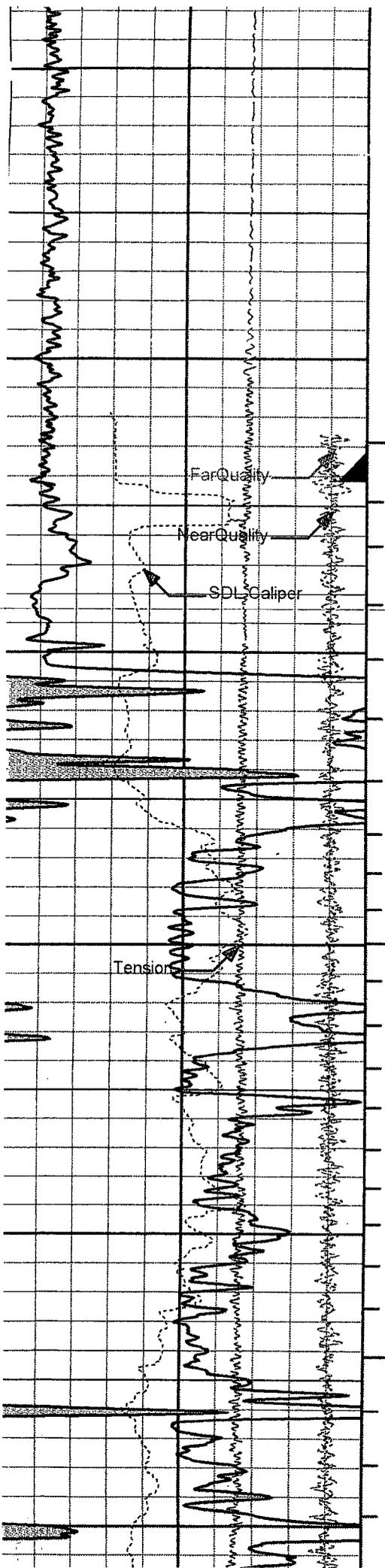
NOV 29 2011
ARTESIA WEST

Permanent Datum	GL	ONE		
Log measured from	KB			21.0 ft above perm. Datum
Drilling measured from	KB			
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			@
Logging - Logger	5242.0 ft			@
Bit Size	8.750 in			@
Type Fluid in Hole	BRINE			
Density	9.7 ppg	28.00 sg/gal		
Viscosity	9.00 pH			
Fluid Loss				
Flowline				
Source of Sample	0.070 ohmm	@	75.00 degF	@
Rm @ Meas. Temperature	0.05 ohmm	@	75.00 degF	@
Rmf @ Meas. Temperature	0.086 ohmm	@	75.00 degF	@
Rmc @ Meas. Temperature				
Source Rmf	MEAS		MEAS	
Rmf @ BHT	0.03 ohmm	@	159.0 degF	@
Rmc @ BHT				
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		CHIDIEBERE OKOLI	
Witnessed By	RICHARD FREEMAN			

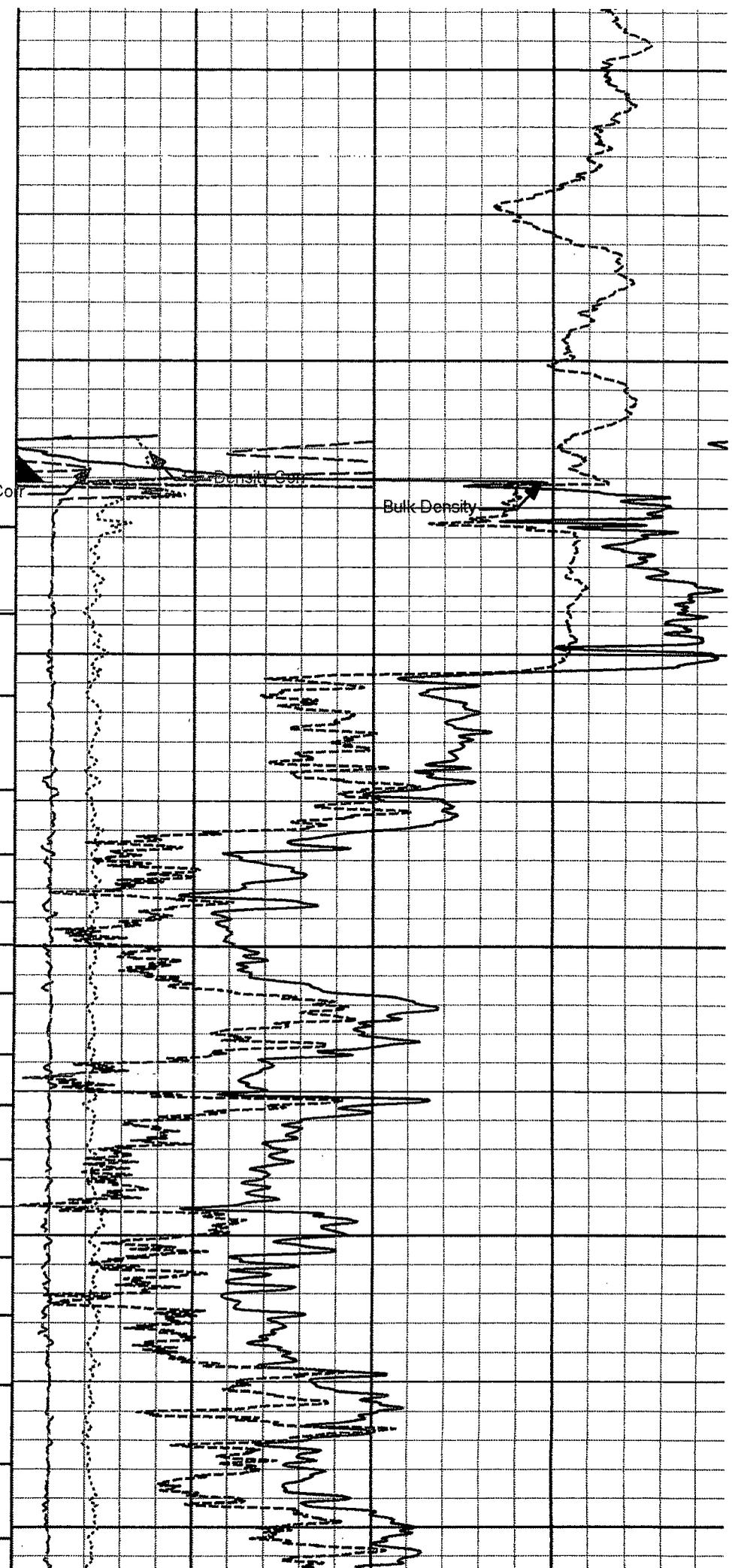
Fold here

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.	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

LOGGING DATA



5100
5200
5300
5400
5500
5600



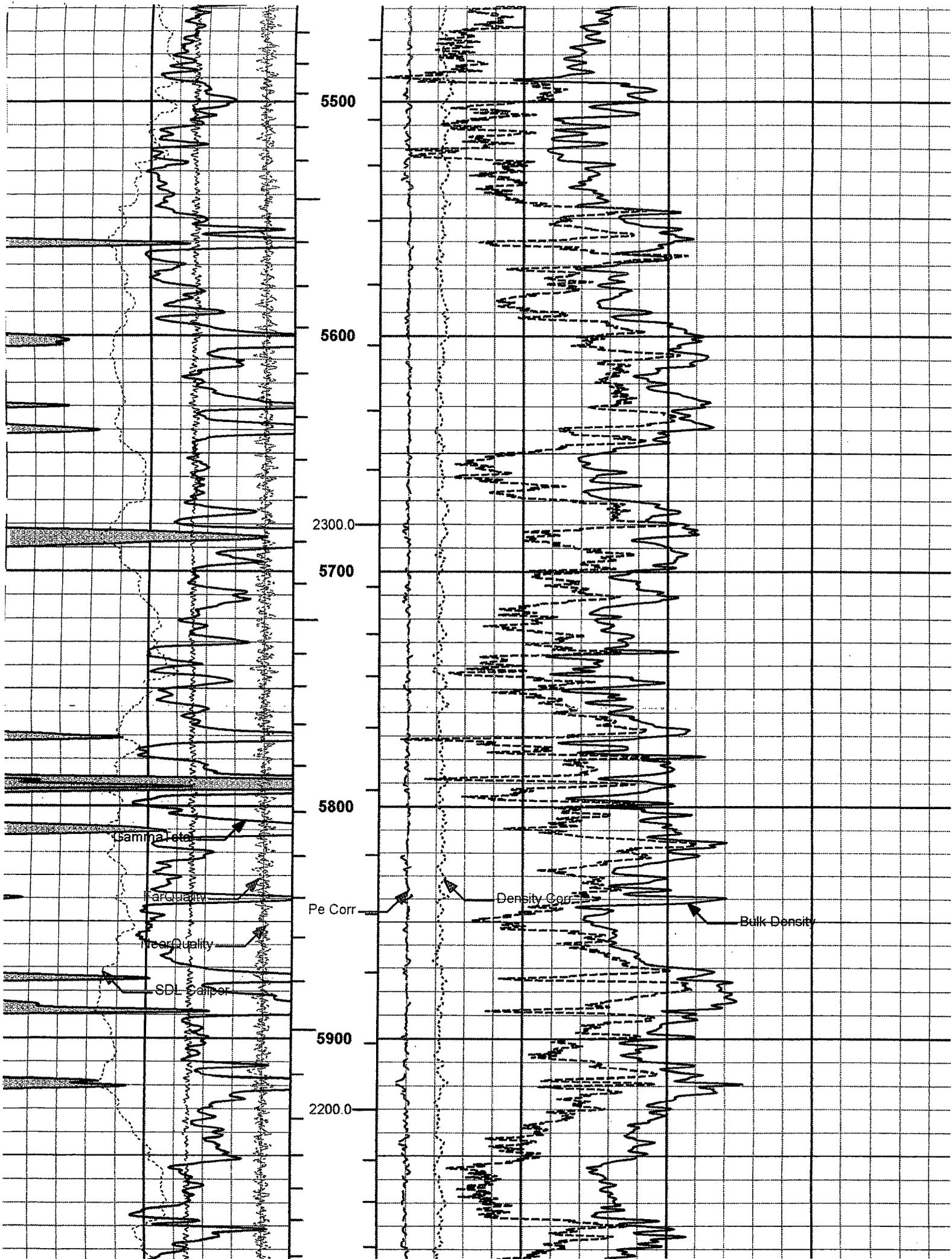
Far Quality
Near Quality
SDL Caliper

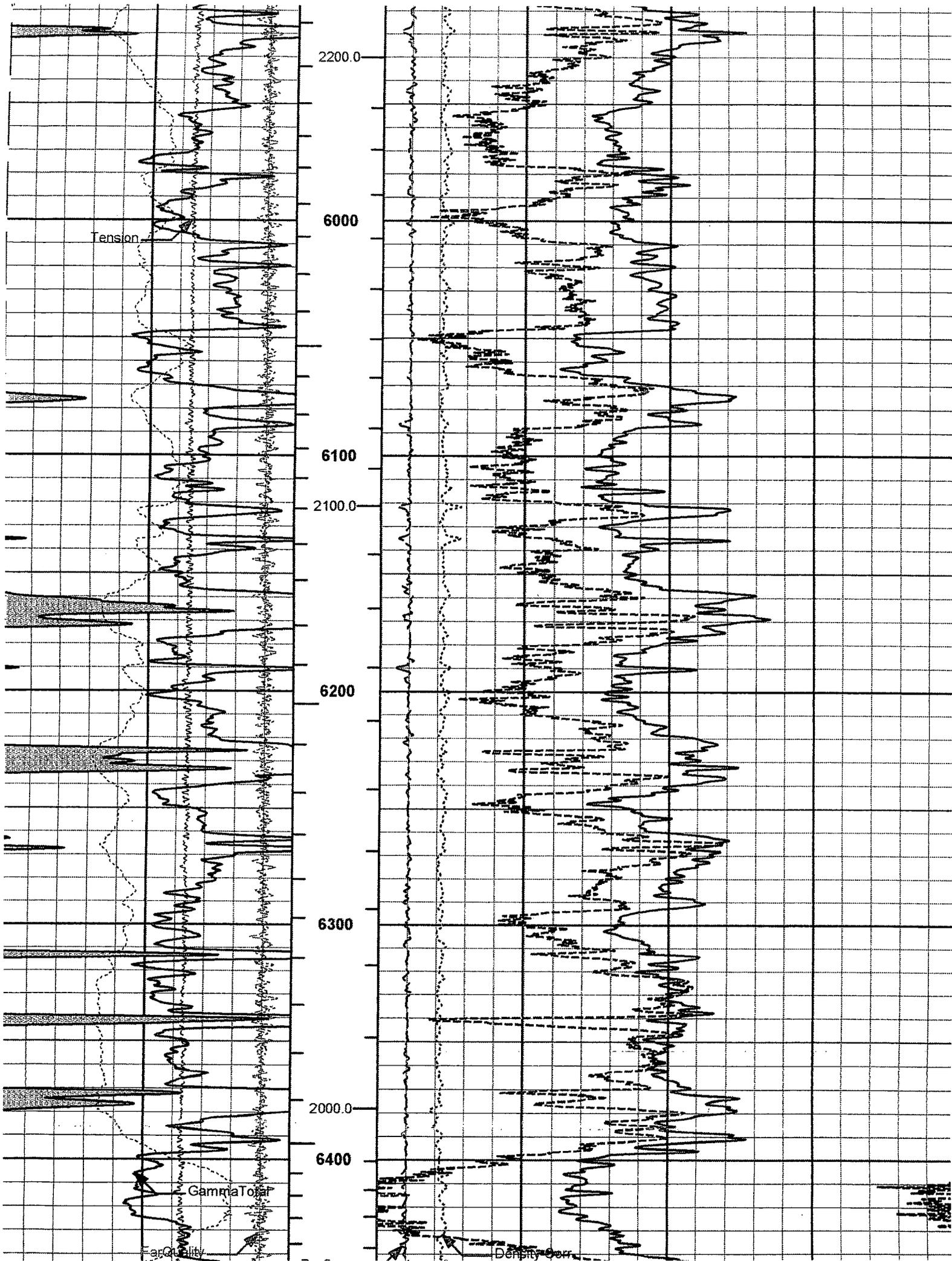
CSG
Pe Cor

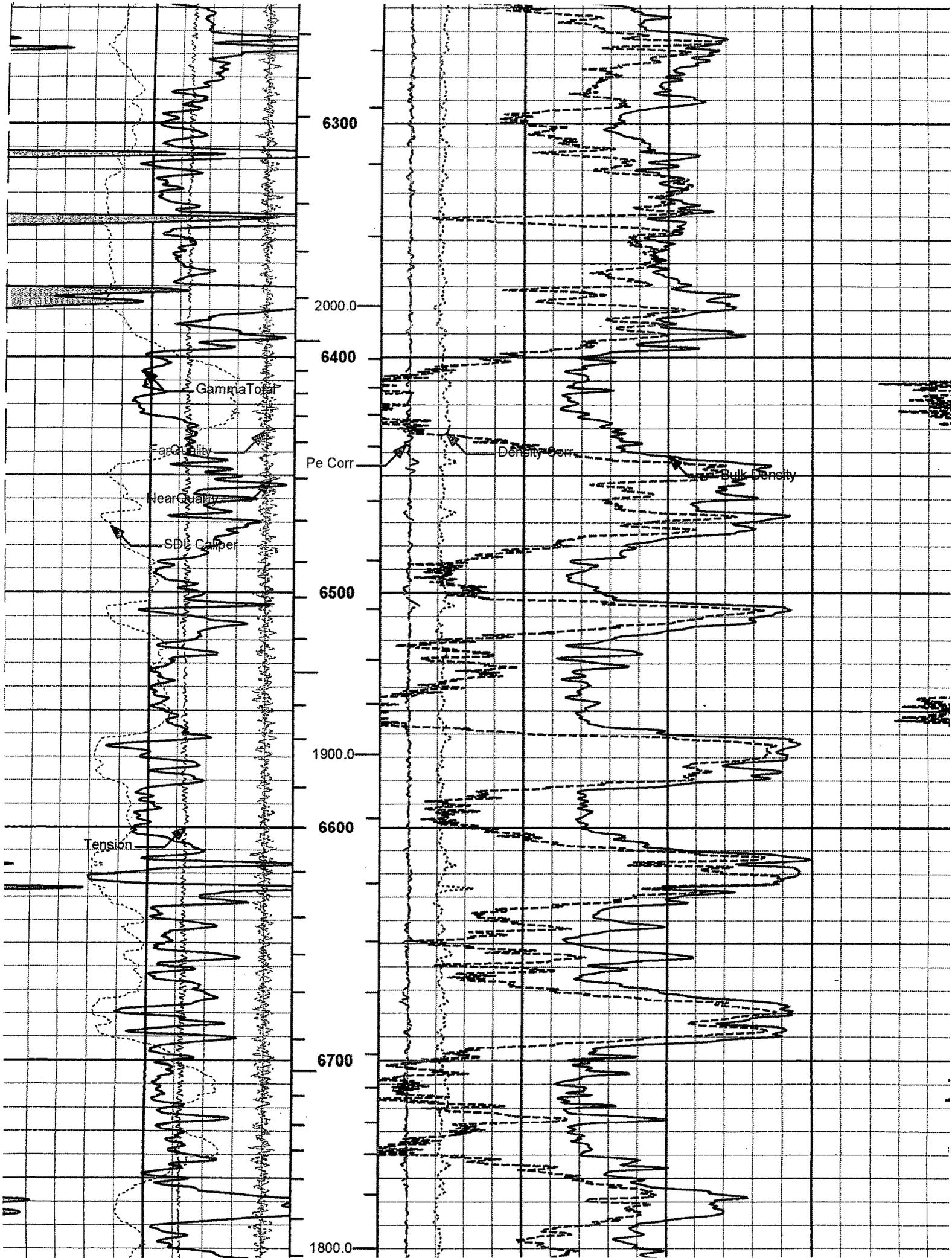
Bulk Density

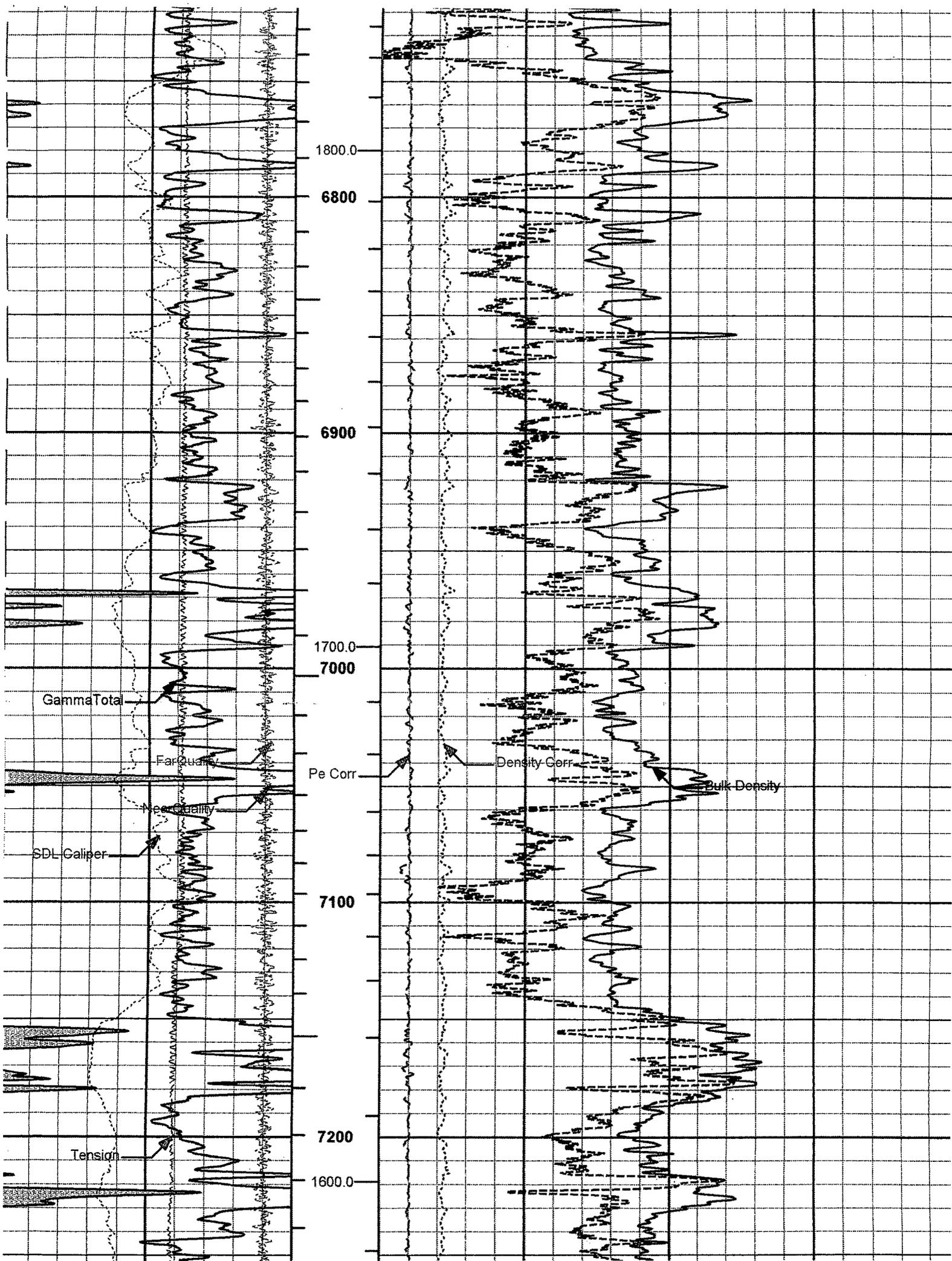
Tension

2400.0









XI.

Fresh Water Sample Analyses



New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code Grant	(R=POD has been replaced and no longer serves this file, (quarters are 1=NW 2=NE 3=SW 4=SE)				C=the file is closed) (quarters are smallest to largest) (NAD83 UTM in meters)				
								Source	q	q	q	X	Y			
C 02316	DOM	6	MARK T. AND ANNETTE E. MCCLOY	LE	C 02316		64164	3	4	3	29	25S	34E	642003	3551967*	SW SE SW
C 02317	IRR	6	MARK T. AND ANNETTE E. MCCLOY	LE	C 02317		64164	3	4	3	29	25S	34E	642003	3551967*	

Record Count: 2

PLSS Search:

Section(s): 28-33 **Township:** 25S **Range:** 34E

Sorted by: File Number

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C 02317	3	4	3	29	25S	34E	642003	3551967*

Driller License:

Driller Name: UNKNOWN

Drill Start Date: 01/01/1880

Drill Finish Date: 06/30/1880

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 60

Casing Size: 6.50

Depth Well: 100 feet

Depth Water: 50 feet

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C 02316	3	4	3	29	25S	34E	642003	3551967*

Driller License:

Driller Name: UNKNOWN

Drill Start Date: 01/01/1880

Drill Finish Date: 06/30/1880

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 60

Casing Size: 6.50

Depth Well: 100 feet

Depth Water: 50 feet

*UTM location was derived from PLSS - see Help

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New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
C 02291	1 1 2	06	26S	34E	640825	3550140*

Driller License:

Driller Name:

Drill Start Date:

Drill Finish Date: 12/31/1949

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 15

Casing Size: 6.00

Depth Well: 220 feet

Depth Water: 160 feet

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C 02292 POD1	4	1	2	06	26S	34E	640992	3549987

Driller License: UNKNOWN

Driller Name: UNKNOWN

Drill Start Date:

Drill Finish Date: 12/31/1949

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield: 4

Casing Size: 6.00

Depth Well: 200 feet

Depth Water: 140 feet



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

C 03441 POD1

4 1 2 06 26S 34E

640971 3550039

Driller License: EADES, ALAN G.

Driller Name: EADES, ALAN

Drill Start Date: 05/03/2010

Drill Finish Date: 05/03/2010

Plug Date:

Log File Date: 05/17/2010

PCW Rcv Date:

Source: Shallow

Pump Type: SUBMER

Pipe Discharge Size:

Estimated Yield:

Casing Size: 6.17

Depth Well: 250 feet

Depth Water:

Water Bearing Stratifications:

Top	Bottom	Description
0	1	Other/Unknown
1	25	Shale/Mudstone/Siltstone
25	37	Sandstone/Gravel/Conglomerate
37	85	Shale/Mudstone/Siltstone
85	108	Sandstone/Gravel/Conglomerate
108	128	Sandstone/Gravel/Conglomerate
128	189	Shale/Mudstone/Siltstone
189	249	Sandstone/Gravel/Conglomerate
249	250	Shale/Mudstone/Siltstone

Casing Perforations:

Top	Bottom
190	250



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
C 03442 POD1	4 1 2	06	26S	34E	641056	3550028

Driller License: EADES, ALAN G.

Driller Name: EADES, ALAN

Drill Start Date: 05/03/2010

Drill Finish Date: 05/03/2010

Plug Date:

Log File Date: 05/17/2010

PCW Rcv Date:

Source: Shallow

Pump Type: SUBMER

Pipe Discharge Size:

Estimated Yield:

Casing Size: 6.17

Depth Well: 251 feet

Depth Water:

Water Bearing Stratifications:	Top	Bottom	Description
	0	1	Other/Unknown
	1	25	Shale/Mudstone/Siltstone
	25	37	Sandstone/Gravel/Conglomerate
	37	85	Sandstone/Gravel/Conglomerate
	85	108	Sandstone/Gravel/Conglomerate
	108	128	Sandstone/Gravel/Conglomerate
	128	189	Shale/Mudstone/Siltstone
	189	250	Sandstone/Gravel/Conglomerate
	250	251	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	191	251



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y
C 03442 POD1	4 1 2 06 26S 34E	641056	3550028

Driller License: EADES, ALAN G.

Driller Name: EADES, ALAN

Drill Start Date: 05/03/2010

Drill Finish Date: 05/03/2010

Plug Date:

Log File Date: 05/17/2010

PCW Rcv Date:

Source: Shallow

Pump Type: SUBMER

Pipe Discharge Size:

Estimated Yield:

Casing Size: 6.17

Depth Well: 251 feet

Depth Water:

Water Bearing Stratifications:	Top	Bottom	Description
	0	1	Other/Unknown
	1	25	Shale/Mudstone/Siltstone
	25	37	Sandstone/Gravel/Conglomerate
	37	85	Sandstone/Gravel/Conglomerate
	85	108	Sandstone/Gravel/Conglomerate
	108	128	Sandstone/Gravel/Conglomerate
	128	189	Shale/Mudstone/Siltstone
	189	250	Sandstone/Gravel/Conglomerate
	250	251	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	191	251

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number	Q64 Q16 Q4 Sec Tws Rng	X	Y
C 03441 POD1	4 1 2 06 26S 34E	640971	3550039

Driller License: EADES, ALAN G.

Driller Name: EADES, ALAN

Drill Start Date: 05/03/2010

Drill Finish Date: 05/03/2010

Plug Date:

Log File Date: 05/17/2010

PCW Rcv Date:

Source: Shallow

Pump Type: SUBMER

Pipe Discharge Size:

Estimated Yield:

Casing Size: 6.17

Depth Well: 250 feet

Depth Water:

Water Bearing Stratifications:

Top	Bottom	Description
0	1	Other/Unknown
1	25	Shale/Mudstone/Siltstone
25	37	Sandstone/Gravel/Conglomerate
37	85	Shale/Mudstone/Siltstone
85	108	Sandstone/Gravel/Conglomerate
108	128	Sandstone/Gravel/Conglomerate
128	189	Shale/Mudstone/Siltstone
189	249	Sandstone/Gravel/Conglomerate
249	250	Shale/Mudstone/Siltstone

Casing Perforations:

Top	Bottom
190	250

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

POD Number	Q64 Q16 Q4	Sec	Tws	Rng	X	Y
C 03442 POD1	4 1 2	06	26S	34E	641056	3550028

Driller License: EADES, ALAN G.

Driller Name: EADES, ALAN

Drill Start Date: 05/03/2010

Drill Finish Date: 05/03/2010

Plug Date:

Log File Date: 05/17/2010

PCW Rcv Date:

Source: Shallow

Pump Type: SUBMER

Pipe Discharge Size:

Estimated Yield:

Casing Size: 6.17

Depth Well: 251 feet

Depth Water:

Water Bearing Stratifications:	Top	Bottom	Description
	0	1	Other/Unknown
	1	25	Shale/Mudstone/Siltstone
	25	37	Sandstone/Gravel/Conglomerate
	37	85	Sandstone/Gravel/Conglomerate
	85	108	Sandstone/Gravel/Conglomerate
	108	128	Sandstone/Gravel/Conglomerate
	128	189	Shale/Mudstone/Siltstone
	189	250	Sandstone/Gravel/Conglomerate
	250	251	Shale/Mudstone/Siltstone

Casing Perforations:	Top	Bottom
	191	251



New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Y

C 02292 POD1

4 1 2 06 26S 34E

640992 3549987

Driller License: UNKNOWN

Driller Name: UNKNOWN

Drill Start Date:

Drill Finish Date: 12/31/1949

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Pump Type:

Pipe Discharge Size:

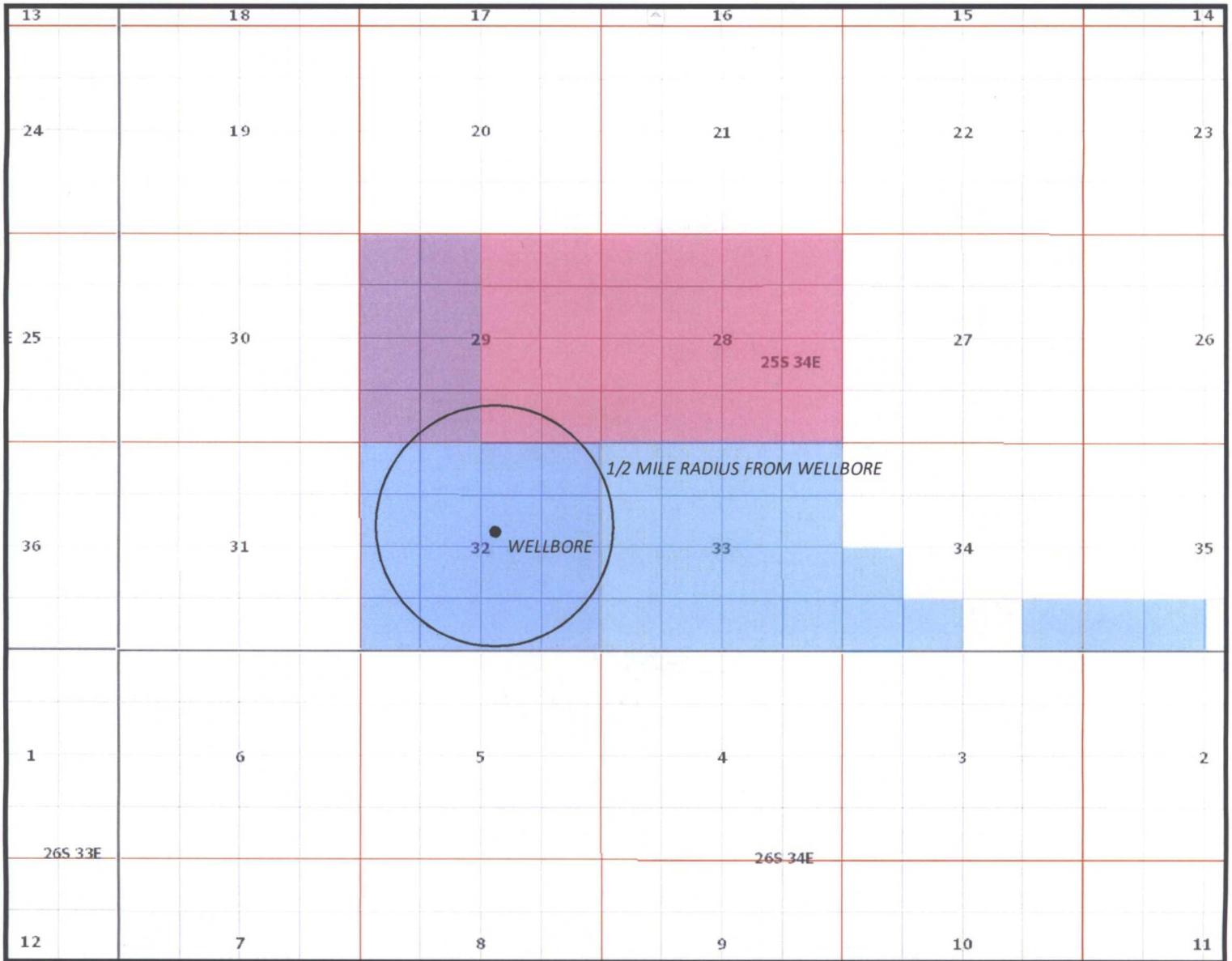
Estimated Yield: 4

Casing Size: 6.00

Depth Well: 200 feet

Depth Water: 140 feet

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



- EOG Resources Inc.
- EOG Resources Inc.
- Devon Energy Operating Co. LP
- Conocophillips Company

**Gunner 32 State SWD No. 1
 2310' FNL & 2310' FEL
 Sec. 32; T25s - R34e
 Lea County, New Mexico**



October 1, 2012

Hobbs News-Sun
P.O. Box 850
Hobbs, NM 88240

**Re: Legal Notice
Salt Water Disposal Well
Gunner 32 State SWD #1**

To Whom It May Concern:

Enclosed is a legal notice regarding New Mexico Oil Conservation Division C-108 Application for Authorization to Inject for a salt water disposal well.

Please run this notice and return the proof of notice to the undersigned at:

COG Operating LLC, 2208 W. Main St., Artesia, NM 88210

Sincerely,

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

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures

HOBBS NEWS-SUN
LEGAL NOTICES

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 32 State SWD No. 1 is located 2310' FNL & 2310' FEL, Section 32, Township 25 South, Range 34 East, Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware and Bone Spring formations. The disposal water will be injected into the Delaware formation at a depth of 5200' to 7200' at a maximum surface pressure of 1040 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 575-748-6940.

Published in the Hobbs News-Sun, Hobbs, New Mexico
_____, 2012.



RECEIVED OCD

2012 NOV 5 P 1:42

October 31, 2012

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

RE: Affidavit of Publication/Certified Return Receipts
Gunner 32 State SWD #1
Township 25 South, Range 34 East, N.M.P.M.
Section 32: 2310' FNL & 2310' FEL
Lea County, New Mexico

Dear Mr. Jones:

Enclosed, per your request, please find one copy of the affidavit of publication and one copy of the certified return receipts from each party that was notified. Please note that the Certified Mailers were sent out on October 1, 2012.

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

Affidavit of Publication

State of New Mexico,
County of Lea.

COG OPERATING, LLC
RECEIVED

OCT 31 2012

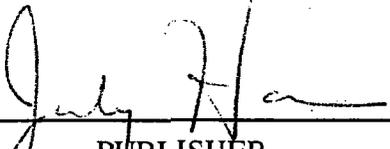
ARTESIA WEST

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
October 06, 2012
and ending with the issue dated
October 06, 2012


PUBLISHER

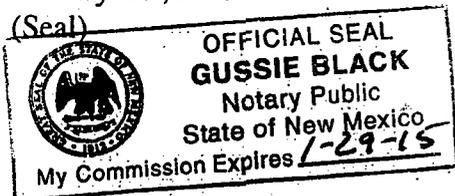
Sworn and subscribed to before me
this 29th day of
October, 2012



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.

LEGAL LEGAL

Legal Notice
October 6, 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 32 State SWD No. 1 is located 2310' FNL & 2310' FEL, Section 32, Township 25 South, Range 34 East, Lea County, New Mexico. Disposal water will be sourced from area wells producing from the Delaware and Bone Spring formations. The disposal water will be injected into the Delaware formation at a depth of 5200' to 7200' at a maximum surface pressure of 1040 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 575-748-6940.
#27619

02107967 00101603
COG OPERATING LLC
FASKEN CENTER, TOWER II
550 W. TEXAS AVE., STE 1300
MIDLAND, TX 79701



October 1, 2012

ConocoPhillips Company
P.O. Box 7500
Bartlesville, OK 74005

Re: Application to Inject
Gunner 32 State SWD #1
Township 25 South, Range 34 East, N.M.P.M.
Section 32: 2310' FNL & 2310' FEL
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 that reads "Brian Collins".

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures



October 1, 2012

Devon Energy Production Company, LP
20 N. Broadway, Suite 1500
Oklahoma City, OK 73102-8260

Re: Application to Inject
Gunner 32 State SWD #1
Township 25 South, Range 34 East, N.M.P.M.
Section 32: 2310' FNL & 2310' FEL
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



October 1, 2012

EOG Resources, Inc.
P.O. Box 2267
Midland, TX 79702

Re: Application to Inject
Gunner 32 State SWD #1
Township 25 South, Range 34 East, N.M.P.M.
Section 32: 2310' FNL & 2310' FEL
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



October 1, 2012

EOG Resources, Inc.
333 Clay Street, #4200
Houston, TX 77002

Re: Application to Inject
Gunner 32 State SWD #1
Township 25 South, Range 34 East, N.M.P.M.
Section 32: 2310' FNL & 2310' FEL
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



October 1, 2012

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

Re: Application to Inject
Gunner 32 State SWD #1
Township 25 South, Range 34 East, N.M.P.M.
Section 32: 2310' FNL & 2310' FEL
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
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		Arrival at Unit	October 03, 2012 7:19 am	SANTA FE, NM 87501	

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<p>1. Article Addressed to:</p> <p style="text-align: center; padding: 10px;"> New Mexico State Land Office P.O. Box 1148 Santa Fe, NM 87504-1148 Gunner 32 St. SWD #1/Notification </p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number (Transfer from service label)</p> <p style="text-align: center; font-size: 1.2em;">7011 1570 0003 6389 6872</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>	

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Gunner 32 State SWD #1 Sec. 32, T25S - R34E 2310' FNL & 2310' FEL

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		Arrival at Unit	October 04, 2012, 7:49 am	BARTLESVILLE, OK 74003	
		Depart USPS Sort Facility	October 04, 2012	TULSA, OK 74141	
		Processed through USPS Sort Facility	October 04, 2012, 1:27 am	TULSA, OK 74141	

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<p>1. Article Addressed to:</p> <p>ConocoPhillips Company P.O. Box 7500 Bartlesville, OK 74005 Gunner 32 St. SWD #1/Notification</p>	<p>2. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number (Transfer from service label) 7011 1570 0003 6389 6834</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>	

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		Arrival at Unit	October 04, 2012, 9:31 am	OKLAHOMA CITY, OK 73102	

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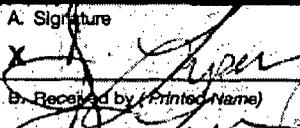
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<p>1. Article Addressed to:</p> <p>Devon Energy Production Co., LP 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102-8260 Gunner 32 St. SWD #1/Notification</p>		<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail</p> <p><input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise</p> <p><input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>	
<p>2. Article Number (Transfer from service label) 7011 1570 0003 6389 6841</p>		<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>	
<p>PS Form 3811, February 2004</p>		<p>Domestic Return Receipt 102595-02-M-1540</p>	

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		Notice Left	October 08, 2012, 3:12 am	MIDLAND, TX 79702	
		Arrival at Unit	October 03, 2012, 10:04 am	MIDLAND, TX 79701	
		Depart USPS Sort Facility	October 02, 2012	MIDLAND, TX 79711	
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<p>SENDER: COMPLETE THIS SECTION</p> <ul style="list-style-type: none"> 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. <p>1. Article Addressed to:</p> <p style="text-align: center;">EOG Resources, Inc. P.O. Box 2267 Midland, TX 79702 Gunner 32 St. SWD #1/Notification</p> <p>2. Article Number <i>(Transfer from service label)</i> 7011 1570 0003 6389 6858</p>	<p>COMPLETE THIS SECTION ON DELIVERY</p> <p>A. Signature <i>[Signature]</i> <input checked="" type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by <i>[Signature]</i> (Print Name) C. Date of Delivery <i>10/12/12</i></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>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" 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>
--	--

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

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YOUR LABEL NUMBER	SERVICE	STATUS OF YOUR ITEM	DATE & TIME	LOCATION	FEATURES
70111570000363896865		Delivered	October 06, 2012, 1:37 pm	HOUSTON, TX 77002	Certified Mail
		Arrival at Unit	October 04, 2012, 11:31 am	HOUSTON, TX 77002	
		Processed through USPS Sort Facility	October 04, 2012, 4:35 am	HOUSTON, TX 77201	

Check on Another Item

What's your label (or receipt) number?



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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> 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. 	<p>A. Signature <input checked="" type="checkbox"/> <i>M. C. [Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</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>1. Article Addressed to:</p> <p style="text-align: center;">EOG Resources, Inc. 333 Clay Street, #4200 Houston, TX 77002 Gunner 32 St. SWD #1/Notification</p>	<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" 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>2. Article Number (Transfer from service label)</p> <p style="text-align: center;">7011 1570 0003 6389 6865</p>	

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

7011 1570 0000 6389 6834

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

For delivery information visit our website at www.usps.com
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Postage	\$	Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To **ConocoPhillips Company**
P.O. Box 7500
Bartlesville, OK 74005
City, State, ZIP+4
Gunner 32 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

7011 1570 0000 6389 6834

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

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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**
20 N. Broadway, Suite 1500
Oklahoma City, OK 73102-8260
City, State, ZIP+4
Gunner 32 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

7011 1570 0000 6389 6834

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

Sent To **EOG Resources, Inc.**
P.O. Box 2267
Midland, TX 79702
City, State, ZIP+4
Gunner 32 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

7011 1570 0000 6389 6834

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Postage	\$	10/3/12 Postmark Here
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Sent To **EOG Resources, Inc.**
333 Clay Street, #4200
Houston, TX 77002
City, State, ZIP+4
Gunner 32 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

7011 1570 0000 6389 6834

U.S. Postal Service™
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(Domestic Mail Only; No Insurance Coverage Provided)

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

Postage	\$	10/3/12 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
Santa Fe, NM 87504-1148
City, State, ZIP+4
Gunner 32 St. SWD #1/Notification

PS Form 3800, August 2006 See Reverse for Instructions

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Monday, October 22, 2012 3:10 PM
To: Brian Collins
Cc: Ezeanyim, Richard, EMNRD; Gonzales, Elidio L, EMNRD; Dawson, Scott
Subject: Disposal application from Concho: Proposed Gunner 32 State SWD #1 30-025-NA Delaware Open Hole 5200 to 7200 feet

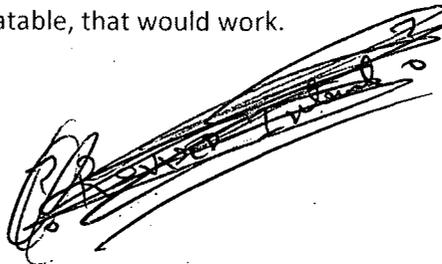
Hello Brian,
Similar to the Eata Fajita....

A few small items:

- a. ✓ Please send a copy of the actual newspaper ad as it appears in the newspaper along with the date of appearance.
- b. ✓ The Certified Mailers don't have dates that I can read – when were these mailed?
- c. ✓ Do you guys intend to log or mudlog this well? *yes*
- d. ✓ Would you ask your geologist to relay where the Bell Canyon, Cherry Canyon, Brushy Canyon, and Bone Spring tops are at this location – or an estimate of those tops?
- e. ✓ For the large disposal intervals like this, we normally put in a requirement to run an injection survey within the first year. If a temp survey is more palatable, that would work.

Hope all is well.

Thank You for the application.



Regards,
Will Jones

Jones, William V., EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Wednesday, October 24, 2012 8:23 AM
To: Jones, William V., EMNRD
Subject: RE: Disposal application from Concho: Proposed Gunner 32 State SWD #1 30-025-NA Delaware Open Hole 5200 to 7200 feet

Will: I've been visiting with Devon about this well and they will probably file an objection. I'll wait to see if anyone else files an objection, and if they don't, I'll send you a revised C108 similar to the Gunner 16 State SWD 1 (which will be scanned to you today followed by mail) reflecting a cased hole injection interval from 6000' to 6900' that is acceptable to Devon. Thanks. -Brian

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Monday, October 22, 2012 4:10 PM
To: Brian Collins
Cc: Ezeanyim, Richard, EMNRD; Gonzales, Elidio L, EMNRD; Dawson, Scott
Subject: Disposal application from Concho: Proposed Gunner 32 State SWD #1 30-025-NA Delaware Open Hole 5200 to 7200 feet

Hello Brian,
Similar to the Eata Fajita....

A few small items:

- a. Please send a copy of the actual newspaper ad as it appears in the newspaper along with the date of appearance.
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- e. For the large disposal intervals like this, we normally put in a requirement to run an injection survey within the first year. If a temp survey is more palatable, that would work.

Hope all is well.

Thank You for the application.

Regards,
Will Jones

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Jones, William V., EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Monday, October 29, 2012 9:11 AM
To: Jones, William V., EMNRD
Cc: Dean Chumbley; Savannah Wilkinson
Subject: COG Gunner 32 State SWD 1 in Sec 32-25s-34e

Will:

Here's the answers to a couple of your questions:

c. Mudlog—We plan to mudlog this well. It is likely that we'll revise the C108 to make it a 7" cased hole across the Delaware. We would take into account any shows in the revised disposal interval. I'm sure Devon will want us to change the disposal interval to 6000-6900'.

d. Formation tops: Bell Canyon 5305', Cherry Canyon 5780', Brushy Canyon 7330', Bone Spring 9480'

I believe Savannah has already sent, or will send soon, a copy of the newspaper ad and the certified mailers. I'll check with you next week to see if anyone has protested this application. Thanks.

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: Jones, William V., EMNRD
Sent: Thursday, November 29, 2012 4:33 PM
To: 'Brian Collins'
Subject: RE: COG Gunner 32 State SWD 1 in Sec 32-25s-34e

Hey Brian,
Did this application get protested?

Will

From: Brian Collins [<mailto:BCollins@concho.com>]
Sent: Monday, October 29, 2012 9:11 AM
To: Jones, William V., EMNRD
Cc: Dean Chumbley; Savannah Wilkinson
Subject: COG Gunner 32 State SWD 1 in Sec 32-25s-34e

Will:

Here's the answers to a couple of your questions:

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Brian Collins

Senior Operations Engineer - NM Basin
COG OPERATING LLC
2208 W Main St
Artesia, New Mexico 88210-3720
575.748.6924 W
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Jones, William V., EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Friday, November 30, 2012 7:41 AM
To: Jones, William V., EMNRD
Subject: RE: COG Gunner 32 State SWD 1 in Sec 32-25s-34e

Will:

I haven't heard of any protests here. I assume you haven't received any? I'll check and make sure we've received all the green cards on notifications. Thanks.

Brian

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Thursday, November 29, 2012 5:33 PM
To: Brian Collins
Subject: RE: COG Gunner 32 State SWD 1 in Sec 32-25s-34e

Hey Brian,
Did this application get protested?

Will

From: Brian Collins [<mailto:BCollins@concho.com>]
Sent: Monday, October 29, 2012 9:11 AM
To: Jones, William V., EMNRD
Cc: Dean Chumbley; Savannah Wilkinson
Subject: COG Gunner 32 State SWD 1 in Sec 32-25s-34e

Will:

Here's the answers to a couple of your questions:

c. Mudlog—We plan to mudlog this well. It is likely that we'll revise the C108 to make it a 7" cased hole across the Delaware. We would take into account any shows in the revised disposal interval. I'm sure Devon will want us to change the disposal interval to 6000-6900'.

d. Formation tops: Bell Canyon 5305', Cherry Canyon 5780', Brushy Canyon 7330', Bone Spring 9480'

I believe Savannah has already sent, or will send soon, a copy of the newspaper ad and the certified mailers. I'll check with you next week to see if anyone has protested this application. Thanks.

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

Jones, William V., EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Friday, November 30, 2012 8:38 AM
To: Jones, William V., EMNRD
Subject: FW: Disposal application from Concho: Proposed Gunner 32 State SWD #1 30-025-NA Delaware Open Hole 5200 to 7200 feet
Attachments: Requested Info_Gunner 32 State SWD #1.pdf

Will: I checked with Savannah and she had received all the green cards back, see attached, from our notification process. Thanks. Hope you have a good weekend. --Brian

From: Savannah Wilkinson
Sent: Friday, November 30, 2012 9:18 AM
To: Brian Collins
Subject: FW: Disposal application from Concho: Proposed Gunner 32 State SWD #1 30-025-NA Delaware Open Hole 5200 to 7200 feet

Brian,
Please see the email below. Thank you!

Savannah

From: Savannah Wilkinson
Sent: ~~Wednesday, October 31, 2012 10:56 AM~~
To: 'Jones, William V., EMNRD'
Cc: Brian Collins; Dean Chumbley
Subject: FW: Disposal application from Concho: Proposed Gunner 32 State SWD #1 30-025-NA Delaware Open Hole 5200 to 7200 feet

Mr. Jones,
Please review the attachment satisfying items A and B below. Please note that the originals will follow by mail. Let us know if you have any further questions. Thank you!

Savannah Wilkinson
Land Assistant
COG OPERATING LLC
2208 W. Main St.
Artesia, New Mexico 88210
575.748.6942



From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Monday, October 22, 2012 4:10 PM
To: Brian Collins
Cc: Ezeanyim, Richard, EMNRD; Gonzales, Elidio L, EMNRD; Dawson, Scott

11/5/12
 REVISED Interval - ~~NO~~

Injection Permit Checklist (11/15/2010)

WFX _____ PMX _____ SWD B69 Permit Date _____ UIC Qtr _____

Wells 1 Well Name(s): GUNNER 32 STATE SWD #1

API Num: 30-0 25-NA Spud Date: New Proposal New/Old: N (UIC primacy March 7, 1982)

Footages 2310 FNL/FEL Unit G Sec 32 Tsp 25S Rge 34E County LEA

General Location: _____

Operator: COG OPERATING, LLC Contact Brian COLLINS

OGRI: 229137 RULE 5.9 Compliance (Wells) 1/31/12 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed None Current Status: Proposal well

Planned Work to Well: Drill/Inject

Diagrams: Before Conversion _____ After Conversion ✓ Elogs in Imaging File: NOT Drilled yet

Well Details:	Hole.....Pipe	Sizes	Setting Depths	Stage Tool	Cement Sx or Cf	Determination Method
New <u>✓</u> Existing _____ Surface	<u>17 1/2</u>	<u>13 7/8</u>	<u>770'</u>		<u>1150 FT</u>	<u>5 surf</u>
New <u>✓</u> Existing _____ Intern	<u>12 1/4</u>	<u>9 7/8</u>	<u>5200'</u>		<u>3325 FT</u>	<u>5 surf</u>
New <u>✓</u> Existing _____ LongH	<u>8 3/4</u>	<u>(5200-7200)</u>				
New _____ Existing _____ Liner						
New _____ Existing _____ OpenHole						

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above	<u>5305</u>	<u>Bell C.</u>	<u>✓</u>
	<u>5780</u>	<u>Cherry C.</u>	<u>✓</u>
Injection TOP:	<u>5200'</u>	<u>Bell</u>	Max. PSI <u>1040</u> OpenHole <u>✓</u> Perfs _____
Injection BOTTOM:	<u>7200'</u>	<u>Cherry C.</u>	Tubing Size _____ Packer Depth _____
Formation(s) Below	<u>7330</u>	<u>Bell C.</u>	<u>✓</u>
	<u>9480</u>	<u>Bones.</u>	<u>✓</u>

Capitan Reef? (Potash? Noticed?) (WIPP? Noticed?) Salado Top/Bot _____ Cliff House? _____

Fresh Water: Depths: < 25' Formation _____ Wells? yes Analysis? NO Affirmative Statement ✓

Disposal Fluid Analysis? Sources: Del/BS.

Disposal Interval: Analysis? ✓ Production Potential/Testing: w/ll mud log or log

Notice: Newspaper Date 10/6/12 Surface Owner SLO. 10/3/12 Mineral Owner(s) _____

RULE 26.7(A) Affected Persons: EOG/METRO/Dawn/Caroco (10/4/12)

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: _____