



RECEIVED OCD
2012 NOV -5 P 1:46

November 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
Lightning 1 State SWD No. 1
Township 21 South, Range 33 East, N.M.P.M.
Section 1: 3480' FSL & 2300' FWL
Lea County, New Mexico

Dear Mr. Jones:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the Lightning 1 State SWD No. 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.

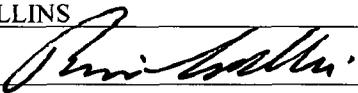
Sincerely,

A handwritten signature in black ink that reads "Brian Collins".

Brian Collins
Senior Operations Engineer

BC/sw
Enclosures

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: Secondary Recovery Pressure Maintenance Disposal Storage
Application qualifies for administrative approval? Yes No
- II. OPERATOR: COG OPERATING LLC
ADDRESS: 2208 W. Main Street, ARTESIA, NM 88210
CONTACT PARTY: BRIAN COLLINS PHONE: 575-748-6940
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? Yes No
If yes, give the Division order number authorizing the project: _____
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
 2. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: BRIAN COLLINS TITLE: Senior Operations Engineer
SIGNATURE:  DATE: 12 Sept 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
LIGHTNING 1 STATE SWD #1
Unit N, Sec 1 T21S R33E
Lea County, NM

COG Operating, LLC, proposes to drill the captioned well to 7500' for salt water disposal service into the Delaware Sand from 5550' to 7450'. 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 = 1110 psi
(0.2 psi/ft. x 5550' 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 5550' to 7450'. Any underground water sources will be shallower than 160' based on well records from fresh water well 2 miles southwest in Sec. 11-T21S-R33E.
- 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 3000' to the southeast showing the injection interval is attached.
- XI. There is one fresh water well within a mile of the proposed SWD well. Water analysis for the nearest fresh water will, located in the NE/4 Section 2-T21S-R33E, is attached.
- XII. After examining the available geologic and engineering data, no evidence was found of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water. ✓
- XIII. Proof of Notice is attached.

III.

WELL DATA

INJECTION WELL DATA SHEET

OPERATOR: COG Operating, LLC

WELL NAME & NUMBER: Lightning 1 State SWD 1

WELL LOCATION: 3480' FSL 2300' FWL N 1 21s 33e
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

See Attached Schematic

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17 1/2" Casing Size: 13 3/8" @ 1800' ±
Cemented with: _____ sx. or 2500 ft³
Top of Cement: Surface Method Determined: Design

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 9 5/8" @ 5500' ±
Cemented with: _____ sx. or 3500 ft³
Top of Cement: Surface Method Determined: Design

Production Casing

Hole Size: 8 3/4" Casing Size: 7" @ 7500' ±
Cemented with: _____ sx. or 1150 ft³
Top of Cement: 2500' Method Determined: Design
Total Depth: 7500'

Injection Interval

5550' feet to 7450'

Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3 1/2" or 4 1/2" Lining Material: IPC / Duoline 20
Type of Packer: Nickel plated double grip retrievable
Packer Setting Depth: ± 5500'
Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

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

2. Name of the Injection Formation: Delaware Sand
3. Name of Field or Pool (if applicable): -
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: Yates/Seven Rivers 3700-3800' ±
Underlying: Bone Spring ± 8450'

30-D25-

Lightning 1 State SWD 1
3480' FSE, 2300' FWL
N-1-21s-33e
Lea, NM

17 1/2"

12 1/4"

3 3/8" / 54.5 / J55 / STC @ 1800' ± 2500 CF cmt. (cive)

TBC 2500' Design

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

Nickel Plated
Inj Pkvr ± 5500'

9 5/8" / 36.40 / J55 / BTC @ 5500' ± 3500 CF cmt (cive)

8 3/4"

Delaware Sand

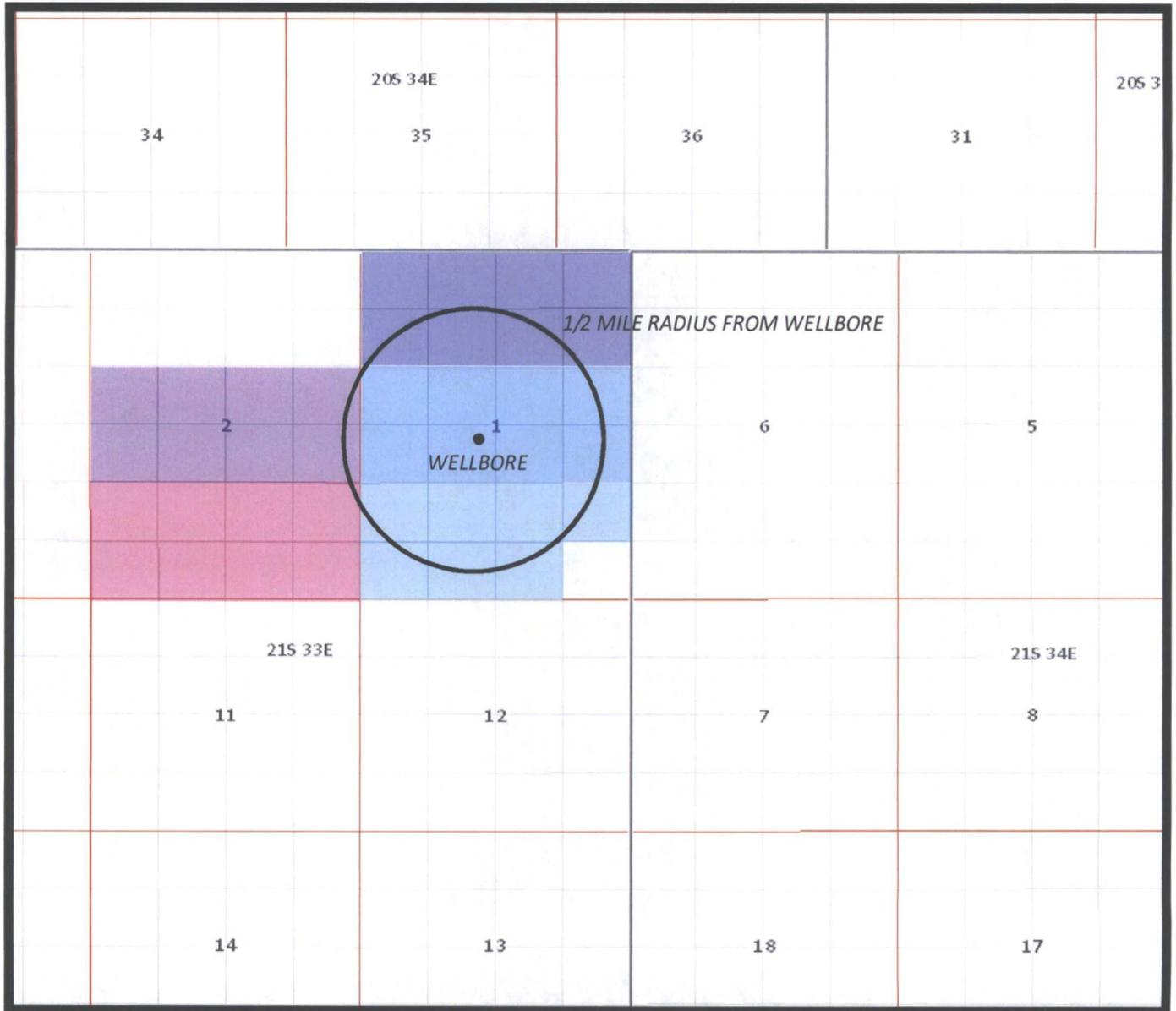
7450'

7" / 26 / J55 / LTC @ 7500' ± 1150 CF cmt

7500'

V.

MAP



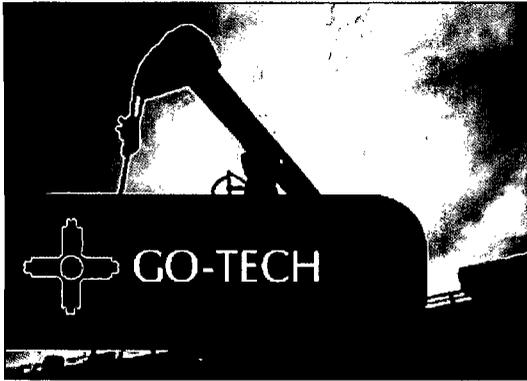
- COG Operating LLC
- COG Operating LLC

- Concho Oil and Gas LLC
- COG Operating LLC
- Chase Oil Corporation

**Lighting 1 State SWD No. 1
 3480' FSL & 2300' FWL
 Township 21s - Range 33e
 Lea County, New Mexico**

VII.

Water Analysis Produced and Receiving Formation Water



- ~ Home
- ~ Production Data ▶
- ~ Well Data ▶
- ~ NM Priceshet
- ~ Water Data ▶
- ~ Projects ▶
- ~ Software ▶
- ~ Archive ▶
- ~ Other Links ▶
- ~ Help ▶

North American Oil and Gas News
 Eagleford Energy announces positive results from well drilled on its Murphy Lease
 Solimar Energy Limited: Rig onsite for Kreyenhagen field oil production testing

NYMEX LS Crude 96.68

Navajo WTXI 0

Henry Hub 2.702

Updated : 8/24/2012

State Land Office Data Access

OCD well/log image files

PRRC NM-TECH NM-BGMR

Water Sample Representative of Delaware Produced & Receiving Formation Water

PEMEX executes go ahead for three wells to use CHMR system designed to safely replace hydraulic fracturing

Ridgeline reports first quarter fiscal year 2013 financial results

Source: Oil Voice

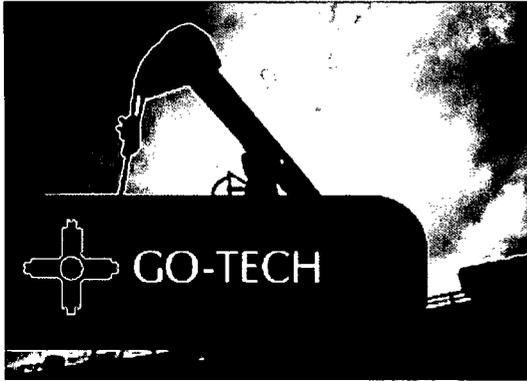
- ☐ NM WAIDS
 - ☐ Data
 - Produced Water
 - Ground Water
 - Conversion Tools
 - ☐ Scale
 - Scale details
 - Stiff
 - Oddo
 - Probable Mineral Composition mix
 - ☐ Corrosion
 - ☐ Theory
 - Uniform
 - Galvanic
 - Crevice
 - Hydrogen Damage
 - EIC
 - Erosion
 - ☐ Equipment
 - Artificial
 - Casing and Tubing

General Information About: Sample 6007			
MEDANO VA STATE			
API	3001526591	Sample Number	
Unit/Section/Township/Range	F / 16 / 23S / 31E	Field	LOS MEDANOS
County	Eddy	Formation	DEL
State	NM	Depth	
Lat/Long	32.30541 , -103.78522	Sample Source	
TDS (mg/L)		Water Type	
Sample Date (MM/DD/YYYY)	6/15/2000 12:00:00 AM	Analysis Date (MM/DD/YYYY)	
Remarks/Description			
Cation Information (mg/L)		Anion Information (mg/L)	
Potassium (K)		Sulfate (SO)	125
Sodium (Na)		Chloride (Cl)	109108
Calcium (Ca)	10960	Carbonate (CO ₃)	

Surface
Enhanced
☐ Gases
O2
CO2
H2S
Microbes
Prevention
References
☐ Maps
☐ Trend Maps
GW
PW
Geology
PLSS
Help
Online Map

Magnesium (Mg)	833.1	Bicarbonate (HCO ₃)	537
Barium (Ba)	0	Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H ₂ S)	0
Strontium (Sr)		Carbon Dioxide (CO ₂)	
Iron (Fe)	2.5	Oxygen (O)	

PETROLEUM RECOVERY RESEARCH CENTER, SOCORRO, NM-87801



- ~ Home
- ~ Production Data ▶
- ~ Well Data ▶
- ~ NM Pricsheet
- ~ Water Data ▶
- ~ Projects ▶
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North American Oil and Gas News

Eagleford Energy announces positive results from well drilled on its Murphy Lease

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Source: Oil Voice

NYMEX LS Crude 96.68

Navajo WTXI 0

Henry Hub 2.702

Updated : 8/24/2012

State Land Office Data Access

OCD well/log image files

PRRC NM-TECH NM-BGMR

Water Sample Representative of Bone Spring Produced Water

NM WAIDS

Data

- Produced Water
- Ground Water
- Conversion Tools

Scale

- Scale details
- Stiff
- Oddo
- Probable Mineral Composition mix

Corrosion

Theory

- Uniform
- Galvanic
- Crevice
- Hydrogen Damage
- EIC
- Erosion

Equipment

- Artificial
- Casing and Tubing

General Information About: Sample 6681			
THYME APY FEDERAL			
API	3002533529	Sample Number	
Unit/Section/Township/Range	G / 01 / 23S / 32E	Field	RED TANK
County	Lea	Formation	B SPG
State	NM	Depth	
Lat/Long	32.33657 , -103.62470	Sample Source	
TDS (mg/L)	172896	Water Type	
Sample Date (MM/DD/YYYY)	11/27/2001 12:00:00 AM	Analysis Date (MM/DD/YYYY)	
Remarks/Description			
Cation Information (mg/L)		Anion Information (mg/L)	
Potassium (K)		Sulfate (SO)	1150
Sodium (Na)		Chloride (Cl)	104976
Calcium (Ca)	0	Carbonate (CO ₃)	

Surface
Enhanced
<input checked="" type="checkbox"/> Gases
O2
CO2
H2S
Microbes
Prevention
References
<input checked="" type="checkbox"/> Maps
<input checked="" type="checkbox"/> Trend Maps
GW
PW
Geology
PLSS
Help
Online Map

Magnesium (Mg)	2025	Bicarbonate (HCO ₃)	781
Barium (Ba)	0	Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H ₂ S)	0
Strontium (Sr)		Carbon Dioxide (CO ₂)	
Iron (Fe)	0	Oxygen (O)	

PETROLEUM RECOVERY RESEARCH CENTER, SOCORRO, NM-87801

WELL LOGS

K Z

API number: 30-025-40302			
OGRID:		Operator: COG OPERATING LLC	
		Property: LIGHTNING P-38 STATE	# 2H

surface	ULSTR: H	01		T 21S		R 33E
		1980	FNL		330	FEL

BH Loc	ULSTR: E	01		T 21S		R 33E
		2071	FNL		366	FWL

Ground Level:	3790	DF:	3809	KB:	3810	
Datum:	KB			MD:	16008	TVD: 11498

Land: **STATE**

Completion Date: (1)	5/4/2012
Date Logs Received:	5/21/2012
Date C105 Received:	5/21/2012
Date Logs/C105 Due in: (2)	5/24/2012

Confidential:	NO			Date out:	
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Confidential period: 90 Days for State & Fee, 1 Year for federal

Date Due In: (1) is equal to Completion Date (1) + 20 days

Logs	Depth interval		
DSN/SDL	200	11554	Spectral Density Dual Spaced Neutron
DLL/MGRD	5522	11602	Dual Laterolog Micro Guard Log
	5522	11602	Triple Combo Composite Log

OUT of ASP

NE of well

K Z

OCD TOPS

Rustler	1759	Bone Spring	8314	
Tansill	3762	1st Sd	9831	
Yates	3936	2nd Carb	10080	
7 rvs	4210	2nd Sd	10434	
		3rd Carb	10865	
		3rd Sd	11405	
Queen		Wolfcamp		
Penrose				
Grayburg		Strawn		
San Andres		Atoka		
Glorieta		Morrow		
Yeso				
Abo				
		Barnett Sh		
Capitan Reef	4250	Miss Lime		
Getaway Bank				
Delaware Sd	5646			

<p>U.S. 1</p> <p>Yates Petr. et al 11-1-2014 V. 8420 166.00</p>	<p>U.S. 2</p> <p>Yates Petr. et al 11-1-2014 V. 8421 216.00</p>	<p>U.S. 3</p> <p>Yates Petr. et al 11-1-2014 V. 8422 216.00</p>	<p>U.S. 4</p> <p>Yates Petr. et al 11-1-2014 V. 8423 216.00</p>	<p>U.S. 5</p> <p>Yates Petr. et al 11-1-2014 V. 8424 216.00</p>	<p>U.S. 6</p> <p>Yates Petr. et al 11-1-2014 V. 8425 216.00</p>	<p>U.S. 7</p> <p>Yates Petr. et al 11-1-2014 V. 8426 216.00</p>	<p>U.S. 8</p> <p>Yates Petr. et al 11-1-2014 V. 8427 216.00</p>	<p>U.S. 9</p> <p>Yates Petr. et al 11-1-2014 V. 8428 216.00</p>	<p>U.S. 10</p> <p>Yates Petr. et al 11-1-2014 V. 8429 216.00</p>
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<p>U.S. 11</p> <p>Yates Petr. et al 11-1-2014 V. 8430 216.00</p>	<p>U.S. 12</p> <p>Yates Petr. et al 11-1-2014 V. 8431 216.00</p>	<p>U.S. 13</p> <p>Yates Petr. et al 11-1-2014 V. 8432 216.00</p>	<p>U.S. 14</p> <p>Yates Petr. et al 11-1-2014 V. 8433 216.00</p>	<p>U.S. 15</p> <p>Yates Petr. et al 11-1-2014 V. 8434 216.00</p>	<p>U.S. 16</p> <p>Yates Petr. et al 11-1-2014 V. 8435 216.00</p>	<p>U.S. 17</p> <p>Yates Petr. et al 11-1-2014 V. 8436 216.00</p>	<p>U.S. 18</p> <p>Yates Petr. et al 11-1-2014 V. 8437 216.00</p>	<p>U.S. 19</p> <p>Yates Petr. et al 11-1-2014 V. 8438 216.00</p>	<p>U.S. 20</p> <p>Yates Petr. et al 11-1-2014 V. 8439 216.00</p>
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<p>U.S. 21</p> <p>Yates Petr. et al 11-1-2014 V. 8440 216.00</p>	<p>U.S. 22</p> <p>Yates Petr. et al 11-1-2014 V. 8441 216.00</p>	<p>U.S. 23</p> <p>Yates Petr. et al 11-1-2014 V. 8442 216.00</p>	<p>U.S. 24</p> <p>Yates Petr. et al 11-1-2014 V. 8443 216.00</p>	<p>U.S. 25</p> <p>Yates Petr. et al 11-1-2014 V. 8444 216.00</p>	<p>U.S. 26</p> <p>Yates Petr. et al 11-1-2014 V. 8445 216.00</p>	<p>U.S. 27</p> <p>Yates Petr. et al 11-1-2014 V. 8446 216.00</p>	<p>U.S. 28</p> <p>Yates Petr. et al 11-1-2014 V. 8447 216.00</p>	<p>U.S. 29</p> <p>Yates Petr. et al 11-1-2014 V. 8448 216.00</p>	<p>U.S. 30</p> <p>Yates Petr. et al 11-1-2014 V. 8449 216.00</p>
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<p>U.S. 31</p> <p>Yates Petr. et al 11-1-2014 V. 8450 216.00</p>	<p>U.S. 32</p> <p>Yates Petr. et al 11-1-2014 V. 8451 216.00</p>	<p>U.S. 33</p> <p>Yates Petr. et al 11-1-2014 V. 8452 216.00</p>	<p>U.S. 34</p> <p>Yates Petr. et al 11-1-2014 V. 8453 216.00</p>	<p>U.S. 35</p> <p>Yates Petr. et al 11-1-2014 V. 8454 216.00</p>	<p>U.S. 36</p> <p>Yates Petr. et al 11-1-2014 V. 8455 216.00</p>	<p>U.S. 37</p> <p>Yates Petr. et al 11-1-2014 V. 8456 216.00</p>	<p>U.S. 38</p> <p>Yates Petr. et al 11-1-2014 V. 8457 216.00</p>	<p>U.S. 39</p> <p>Yates Petr. et al 11-1-2014 V. 8458 216.00</p>	<p>U.S. 40</p> <p>Yates Petr. et al 11-1-2014 V. 8459 216.00</p>
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<p>U.S. 41</p> <p>Yates Petr. et al 11-1-2014 V. 8460 216.00</p>	<p>U.S. 42</p> <p>Yates Petr. et al 11-1-2014 V. 8461 216.00</p>	<p>U.S. 43</p> <p>Yates Petr. et al 11-1-2014 V. 8462 216.00</p>	<p>U.S. 44</p> <p>Yates Petr. et al 11-1-2014 V. 8463 216.00</p>	<p>U.S. 45</p> <p>Yates Petr. et al 11-1-2014 V. 8464 216.00</p>	<p>U.S. 46</p> <p>Yates Petr. et al 11-1-2014 V. 8465 216.00</p>	<p>U.S. 47</p> <p>Yates Petr. et al 11-1-2014 V. 8466 216.00</p>	<p>U.S. 48</p> <p>Yates Petr. et al 11-1-2014 V. 8467 216.00</p>	<p>U.S. 49</p> <p>Yates Petr. et al 11-1-2014 V. 8468 216.00</p>	<p>U.S. 50</p> <p>Yates Petr. et al 11-1-2014 V. 8469 216.00</p>
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<p>U.S. 51</p> <p>Yates Petr. et al 11-1-2014 V. 8470 216.00</p>	<p>U.S. 52</p> <p>Yates Petr. et al 11-1-2014 V. 8471 216.00</p>	<p>U.S. 53</p> <p>Yates Petr. et al 11-1-2014 V. 8472 216.00</p>	<p>U.S. 54</p> <p>Yates Petr. et al 11-1-2014 V. 8473 216.00</p>	<p>U.S. 55</p> <p>Yates Petr. et al 11-1-2014 V. 8474 216.00</p>	<p>U.S. 56</p> <p>Yates Petr. et al 11-1-2014 V. 8475 216.00</p>	<p>U.S. 57</p> <p>Yates Petr. et al 11-1-2014 V. 8476 216.00</p>	<p>U.S. 58</p> <p>Yates Petr. et al 11-1-2014 V. 8477 216.00</p>	<p>U.S. 59</p> <p>Yates Petr. et al 11-1-2014 V. 8478 216.00</p>	<p>U.S. 60</p> <p>Yates Petr. et al 11-1-2014 V. 8479 216.00</p>
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R34E

COMANCHE-ST. UNIT

MITCHELL ENER. (OPER.)

3800' FNL

2500' FNL

Corazon 1 Stnk SWD 1

43

26

1201

10-9

17-15-16

3480' FNL

2300' FNL

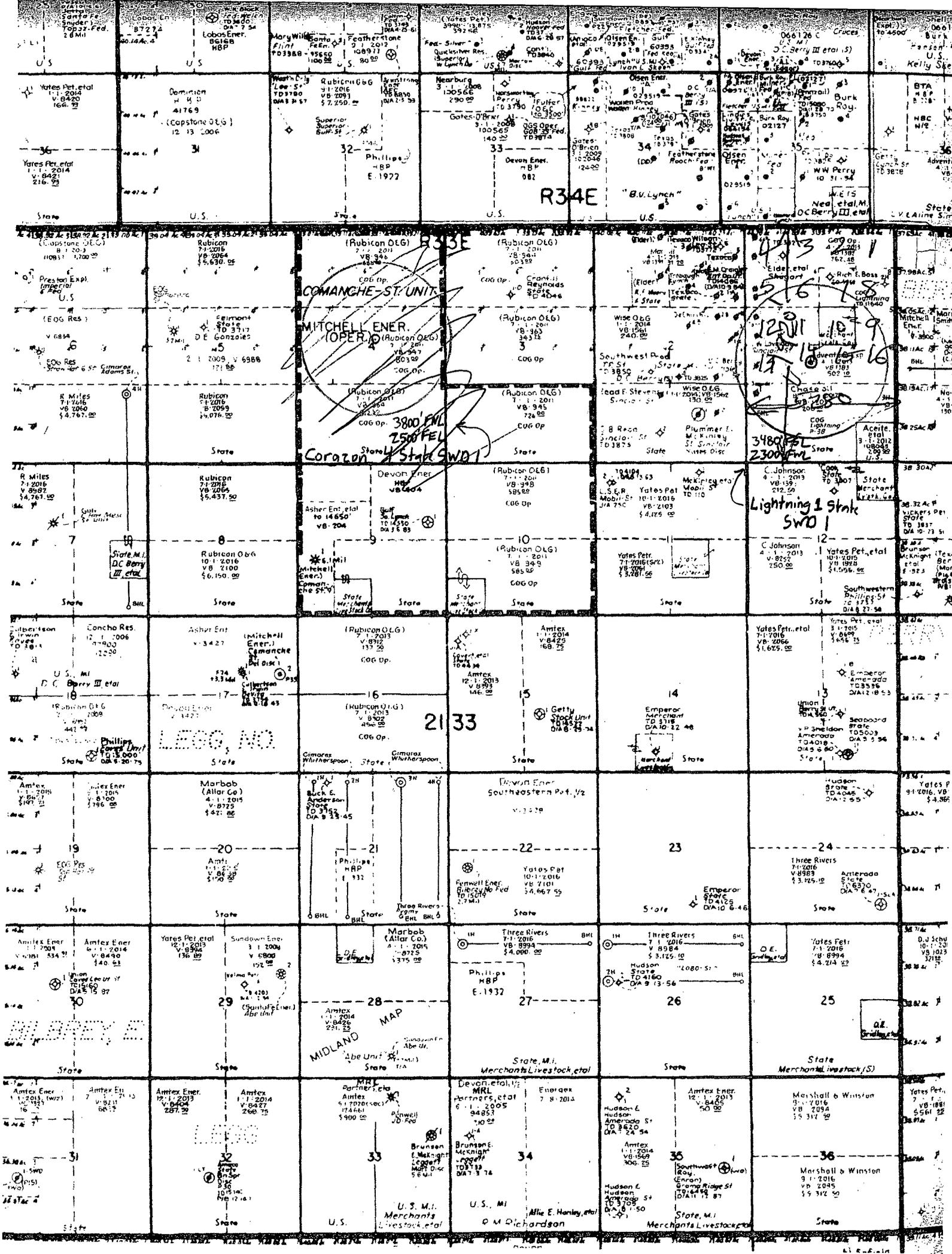
Lightning 1 Stnk SWD 1

2133

MIDLAND MAP

R34E

"B.V. Lynch"



Sec : 01 Twp : 21S Rng : 33E Section Type : LONG

<p>12 4 5 40.00 40.20 40.00 CS CS CS MULTI R A A A A A A</p>	<p>1 3 6 40.00 40.09 40.00 CS CS CS MULTI C R A</p>	<p>10 2 7 40.00 39.97 40.00 CS CS CS MULTI B R A</p>	<p>1 8 9 39.86 40.00 40.00 CS CS CS MULTI A A A</p>
<p>13 40.00 CS VB1383 0001 COG OPERATING LLC R 04/01/13 A</p>	<p>14 40.00 CS VB1383 0001 COG OPERATING LLC R 04/01/13</p>	<p>15 40.00 CS VB1383 0001 COG OPERATING LLC R 04/01/13</p>	<p>16 40.00 CS VB1383 0001 COG OPERATING LLC R 04/01/13</p>
<p>L 40.00 CS VB1201 0001 CHASE OIL CORPORA R 08/01/12 A</p>	<p>K 40.00 CS VB1201 0001 CHASE OIL CORPORA R 08/01/12</p>	<p>J 40.00 CS VB1201 0001 CHASE OIL CORPORA R 08/01/12</p>	<p>I 40.00 CS VB1201 0001 CHASE OIL CORPORA R 08/01/12 A</p>
<p>M 40.00 CS VB1201 0001 CHASE OIL CORPORA R 08/01/12</p>	<p>N 40.00 CS VB1201 0001 CHASE OIL CORPORA R 08/01/12</p>	<p>O 40.00 CS VB1201 0001 CHASE OIL CORPORA R 08/01/12</p>	<p>P 40.00 CS OPEN R A</p>

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06
PF07 BKWD PF08 FWD PF09 PRINT PF10 SDIV PF11 PF12

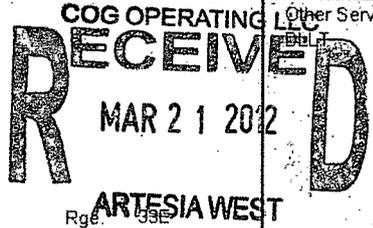
No Deep wells in AOR
(Bunch of 5 shallower 3700 wells)

X.

**Log Across Proposed
Delaware Sand
Injection Interval**

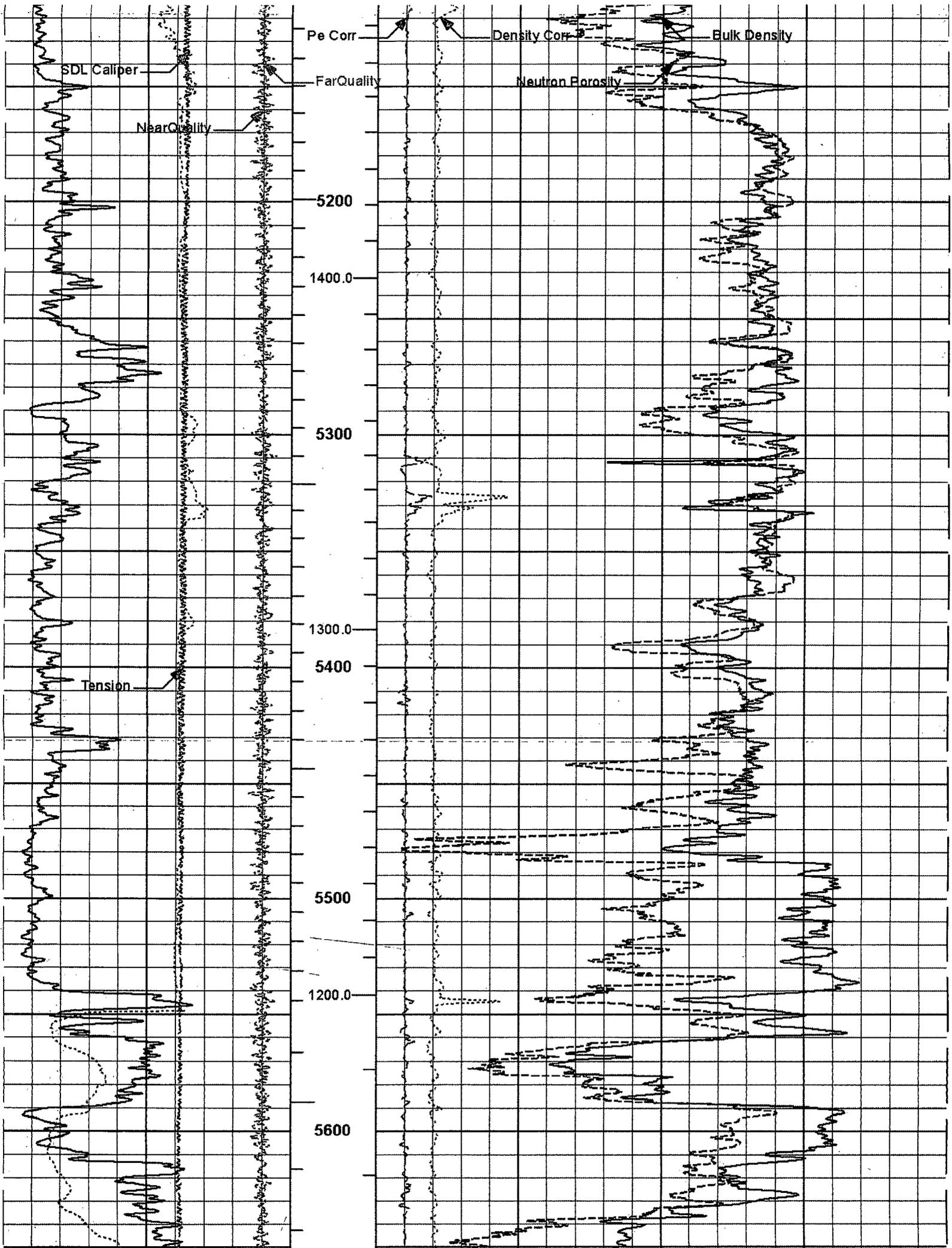
HALLIBURTON

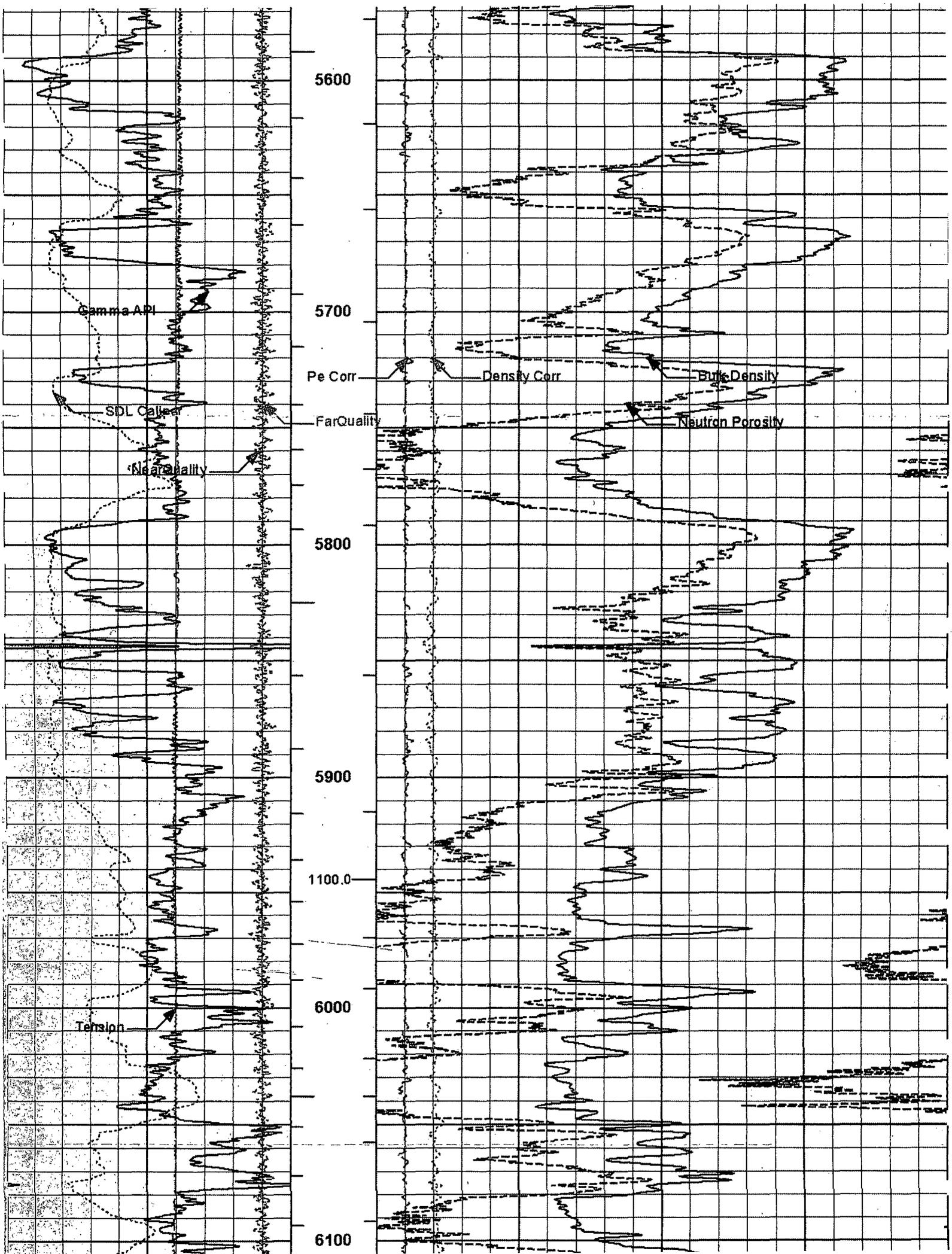
SPECTRAL GAMMA DUAL SPACED NEUTRON SPECTRAL DENSITY

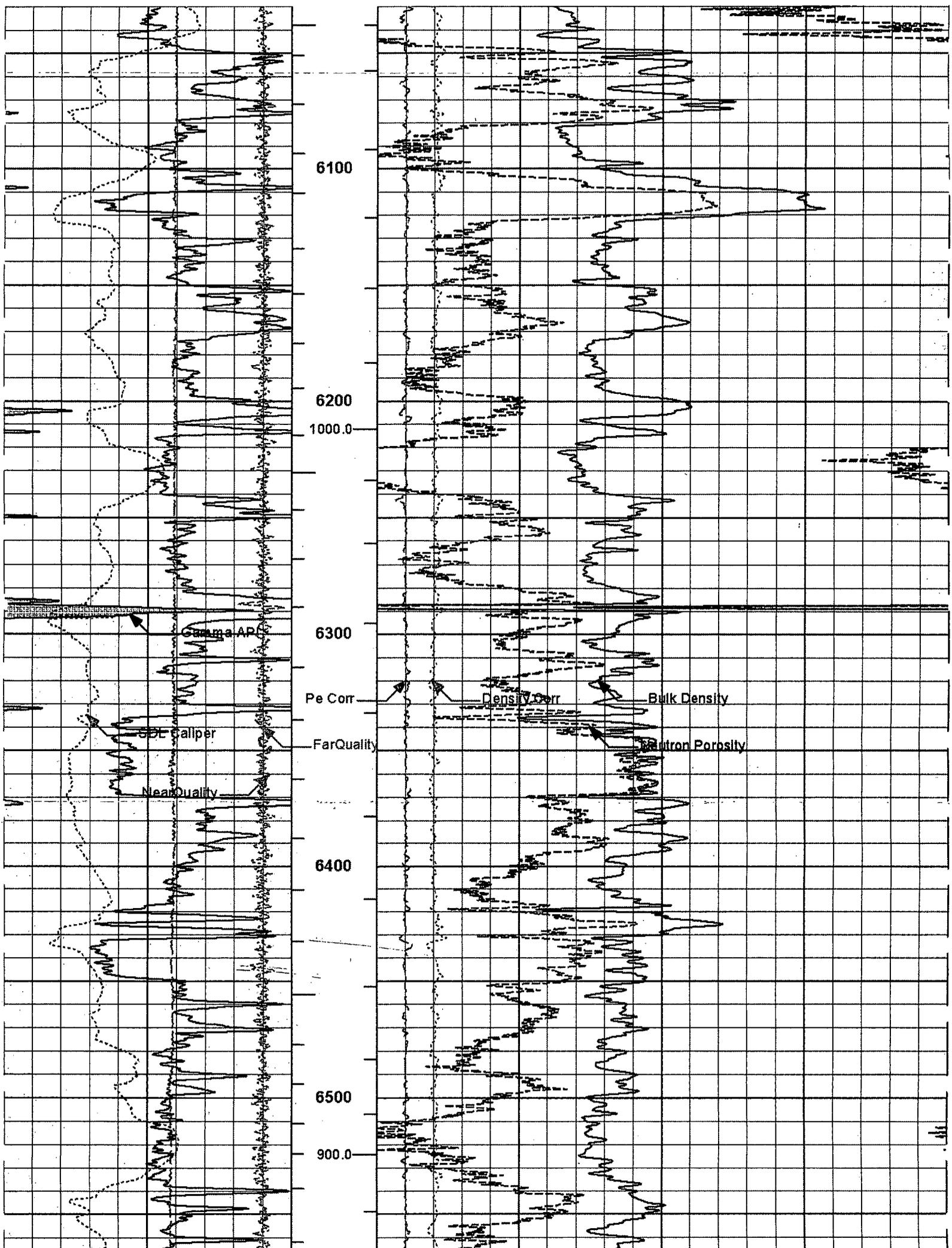
COMPANY COG OPERATING, LLC	COMPANY COG OPERATING, LLC
WELL LIGHTNING P-38 STATE No. 3H	WELL LIGHTNING P-38 STATE No. 3H
FIELD WILDCAT; BONE SPRING	FIELD WILDCAT; BONE SPRING
COUNTY LEA	COUNTY LEA
STATE NEW MEXICO	STATE NEW MEXICO
API No. 30-025-40375	API No. 30-025-40375
Location 1980' FSL AND 330' FEL	Location 1980' FSL AND 330' FEL
Sect. 1	Twp. 21S
Rge. 33E	Rge. 33E
Other Services:	Other Services:
	
Permanent Datum	GL Elev. 3752.0 ft
Log measured from	KB 21.0 ft above perm. Datum Elev. K.B. 3773.0 ft
Drilling measured from	KB D.F. 3772.0 ft
	GL 3752.0 ft
Date	19-Mar-12
Run No.	ONE
Depth - Driller	11780.00 ft
Depth - Logger	11776.0 ft
Bottom - Logged Interval	11720.0 ft
Top - Logged Interval	200.0 ft
Casing - Driller	9.625 in @ 4650.0 ft @
Casing - Logger	4642.0 ft
Casing Size	7.875 in @
Type Fluid in Hole	BRINE
Density	8.9 ppg
Viscosity	28.00 s/qt
pH	10.00 pH
Fluid Loss	
Source of Sample	FLOWLINE
Rmf @ Meas. Temperature	0.110 ohmm @ 75.00 degF @
Rrf @ Meas. Temperature	0.08 ohmm @ 75.00 degF @
Rmc @ Meas. Temperature	0.129 ohmm @ 75.00 degF @
Source Rmf	MEAS
Rmc	MEAS
Rmf @ BHT	0.05 ohmm @ 162.0 degF @
Rrf @ BHT	
Rmc @ BHT	
Time Since Circulation	10.0 hr
Time on Bottom	19-Mar-12 17:40
Max. Rec. Temperature	162.0 degF @ 11776.0 ft @
Equipment Location	700 HOBBS, NM
Recorded By	R. RIOS
Witnessed By	KEATON WATERS

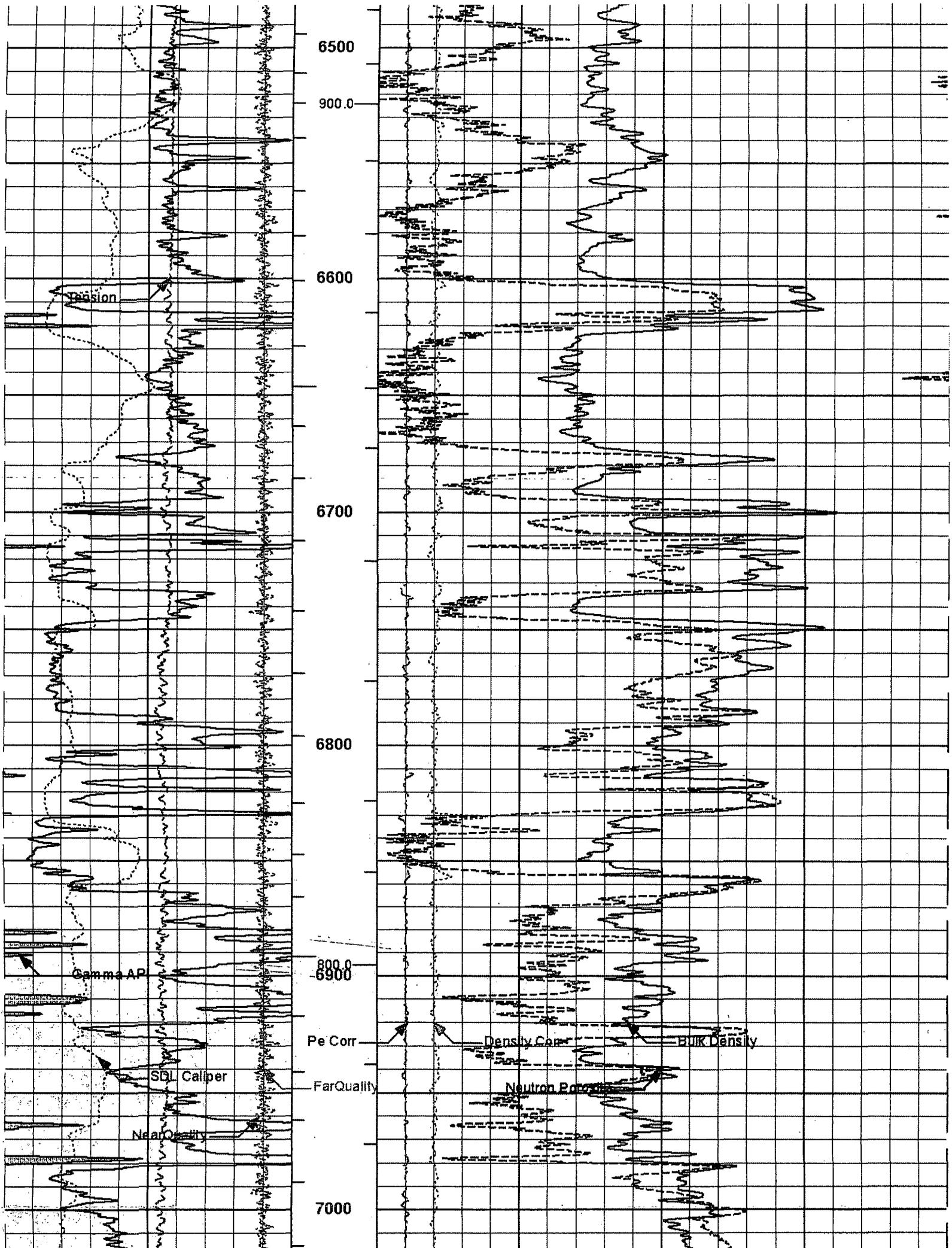
Service Ticket No.: 8940368		API Serial No.: 30-025-40375		PGM Version: VL INSITE/R3.4.0 (Build 4)	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE				RESISTIVITY SCALE CHANGES	
Date	Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole
Depth-Driller					
Type Fluid in Hole					
Density					
Viscosity					
Fluid Loss					
Source of Sample					
Rmf @ Meas. Temp	@	Run No.	Tool Type & No.	Pad Type	Tool Pos.
Rrf @ Meas. Temp	@				Other
Rmc @ Meas. Temp	@				
Source Rmf					
Rmf @ BHT	@				
Rrf @ BHT	@				
Rmc @ BHT	@				
EQUIPMENT DATA				NEUTRON	
Run No.	ONE	Run No.	ONE	Run No.	ONE
Serial No.	1076563GD_700	Serial No.	90078467OR	Serial No.	90078467OR
Model No.	CSNG	Model No.	SDLT	Model No.	DSNT
Diameter	3.625"	Diameter	4.5"	Diameter	3.625"
Detector Model No.	T102-A	Log Type	GAM-GAM	Log Type	NEU-NEU
Type	SCINT	Source Type	Cs137	Source Type	Am241Be
Length	12"	Serial No.	5089GW	Serial No.	DSN-363
Distance to Source	8'	Strength	1.5 Ci	Strength	15 Ci

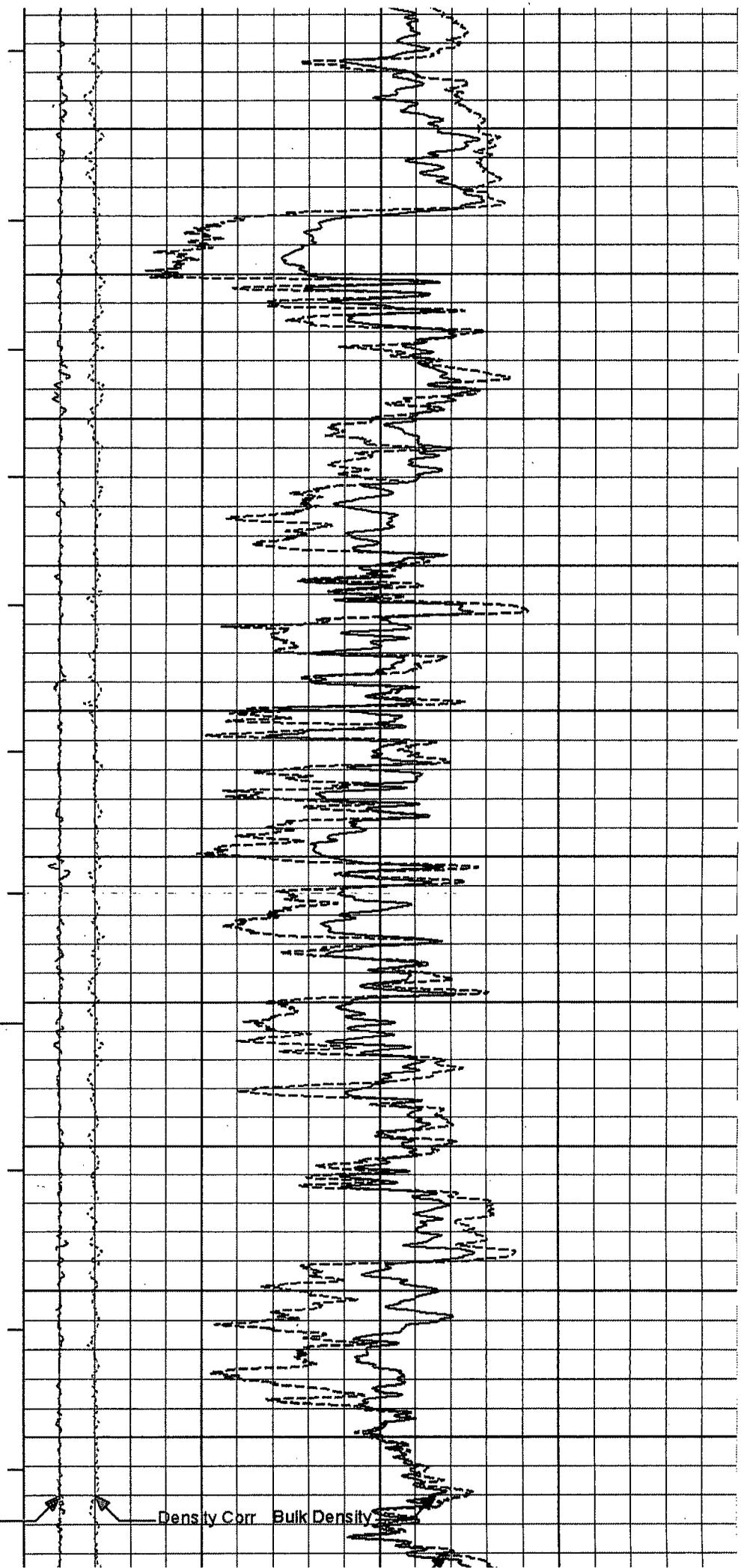
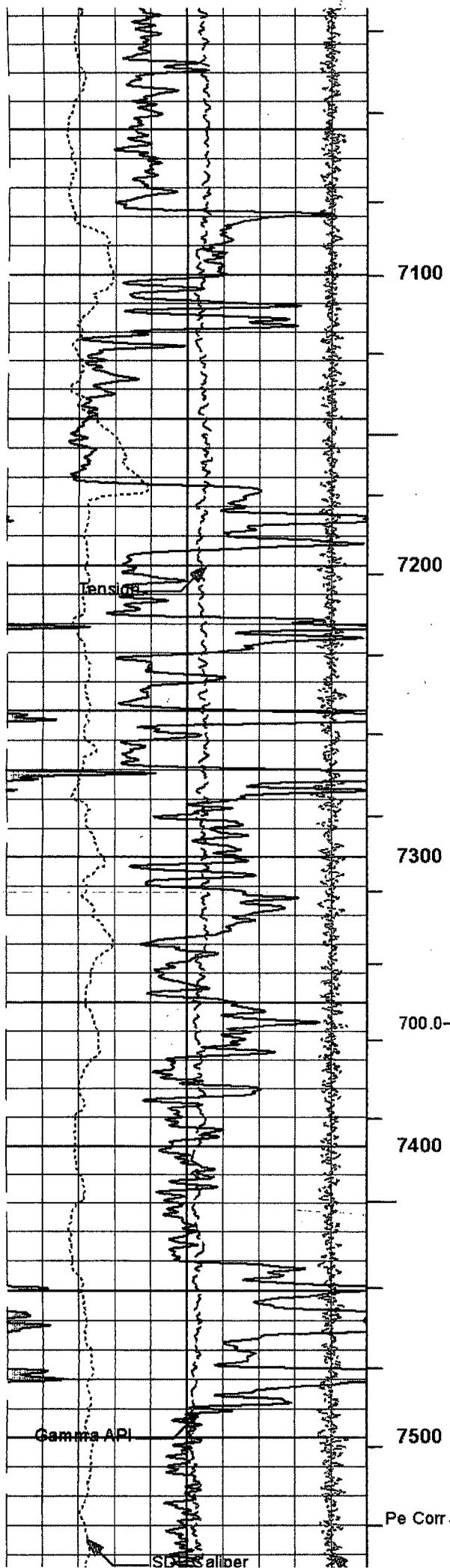
LOGGING DATA











XI.

Fresh Water Sample Analyses

HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY
 WATER ANALYSIS REPORT
 HOBBS, NEW MEXICO

COMPANY: Cog
 LEASE: Berry Ranch
NE/4 Sec 2-21s-33e, Lea Co.
FW collected at water station at Berry Ranch

REPORT DATE: W12-200
September 11, 2012
 DISTRICT: Hobbs

SUBMITTED BY Brian Collins

TANK
 SAMPLE

	_____	_____	_____	_____	_____
Sample Temp.	<u>70</u> °F	_____ °F	_____ °F	_____ °F	_____ °F
RESISTIVITY	<u>0.6</u>	_____	_____	_____	_____
SPECIFIC GR.	<u>1.007</u>	_____	_____	_____	_____
pH	<u>8.24</u>	_____	_____	_____	_____
CALCIUM	<u>250</u> mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
MAGNESIUM	<u>130</u> mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
CHLORIDE	<u>6582</u> mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
SULFATES	<u><400</u> mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
BICARBONATES	<u>335</u> mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
SOLUBLE IRON	<u>0</u> mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
KCL	_____	_____	_____	_____	_____
Sodium	_____ mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
TDS	_____ mpl	_____ mpl	_____ mpl	_____ mpl	_____ mpl
OIL GRAVITY	_____ @ 60 °F	_____ @ 60 °F	_____ @ 60 °F	_____ @ 60 °F	_____ @ 60 °F

REMARKS

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

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

ANALYST: SB



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

No PODs found.

PLSS Search:

Section(s): 31-36

Township: 20S

Range: 34E



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
CP 00579	2 2 02 21S 33E	637438	3598269*

Driller License: VAN NOY, W.L.

Driller Name: VAN NOY, W.L.

Drill Start Date: 11/21/1979

Drill Finish Date: 11/22/1979

Plug Date:

Log File Date: 04/02/1980

PCW Rcv Date:

Source: Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size: 6.00

Depth Well: 125 feet

Depth Water: 100 feet

Water Bearing Stratifications:	Top	Bottom	Description
	100	102	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	105	120

*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.

STATE ENGINEER OFFICE
WELL RECORD

SANTA FE
67455

Section 1. GENERAL INFORMATION

(A) Owner of well Berry Ranch Owner's Well No. _____
Street or Post Office Address Box 67..
City and State Bunice, New Mexico 88231

Well was drilled under Permit No. CP-579 and is located in the:

a. _____ 1/4 _____ 1/4 _____ 1/4 _____ 1/4 of Section 2 Township 21-S Range 33-E N.M.P.M.

ORIGINAL DOCUMENT IS OF POOR QUALITY
FOR LEGIBLE MICROFILM

b. _____ of Map No. _____ of the _____
c. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in the _____ Grant.

(B) Drilling Contractor H. L. Van Hoy License No. WD-209
Address P. O. Box 7 Oil Center, New Mex. 89266

Drilling Began Nov. 21, 1979 Completed Nov. 22, 1979 Tools Spudder Size of hole 8 in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well 125 ft.

Completed well is shallow artesian. Depth to water upon completion of well 100 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
100	102	2	water sand.	

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
6"	welded		0	125	125 HARAX	none	105	120

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received April 2, 1980 Quad _____ FWL _____ FSL _____

File No. CP-579 Use DOM & STK Location No. 21.33.2.22000



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	Source	q q q			X	Y	
										6416	4	4			
CP 00611	PRO	0	DALE CROCKETT	LE	CP 00611	Outside 1 mile radius AOR	Shallow	2	1	06	21S	34E	639838	3598306*	
CP 00791	SAN	3	ENRON GAS PROCESSING CO.	LE	CP 00791	Outside 1 mile radius AOR	Shallow	4	2	4	06	21S	34E	640754	3597413*

(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)

Record Count: 2

PLSS Search:

Section(s): 6 **Township:** 21S **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

Active & Inactive Points of Diversion

(with Ownership Information)

WR File Nbr	Sub	basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q	q	q	Sec	Tws	Rng	X	Y	
CP 00578			STK		3 MERCHANT LIVESTOCK COMPANY	LE	CP 00578		<i>Outside 1 mile radius AOR</i>	Shallow	6416	4		4	3	11	21S	33E	636674 3595445*

(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)

Record Count: 1

PLSS Search:

Section(s): 8-12 Township: 21S Range: 33E

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.



November 1, 2012

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

Re: Legal Notice
Salt Water Disposal Well
Lightning 1 State SWD No. 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, New Mexico, 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 Lightning 1 State SWD No. 1 is located 3480' FSL and 2300' FWL, Sec. 1, Township 21 South, Range 33 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 5550' to 7450' at a maximum surface pressure of 1110 psi and a maximum rate of 10,000 BWPD. The proposed SWD well is located approximately 22 miles west of Eunice. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, 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, New Mexico 88210, or call 575-748-6940.

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



RECEIVED OCD

2012 DEC 13 P 1:32

December 7, 2012

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

Re: Affidavit of Publication/Certified Return Receipts
Lightning 1 State SWD No. 1
Township 21 South, Range 33 East, N.M.P.M.
Section 1: 3480' FSL & 2300' FWL
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 the Certified Mailers were sent out on November 1, 2012.

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

Sincerely,

Brian Collins
Senior Operations Engineer

BC/bg
Enclosures

Affidavit of Publication

State of New Mexico,
County of Lea.

I, JUDY HANNA
PUBLISHER

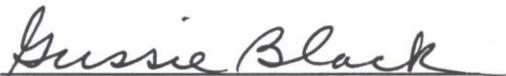
of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).

Beginning with the issue dated
November 10, 2012
and ending with the issue dated
November 10, 2012

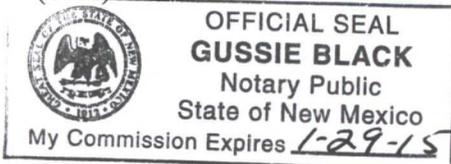

PUBLISHER

Sworn and subscribed to before me
this 12th day of
November, 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 NOTICES November 10, 2012	
COG Operating LLC, 2208 W. Main Street, Artesia, New Mexico, 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 Lightning 1 State SWD No. 1 is located 3480' FSL and 2300' FWL, Sec. 1, Township 21 South, Range 33 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 5550' to 7450' at a maximum surface pressure of 1110 psi and a maximum rate of 10,000 BWPD. The proposed SWD well is located approximately 22 miles west of Eunice. Any interested party who has an objection to this must give notice in writing to the Oil Conservation Division, 1220 South Saint Francis Street, 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, New Mexico 88210, or call 575-748-6940. #27702	

02107967 00103921
COG OPERATING LLC
FASKEN CENTER, TOWER II
550 W. TEXAS AVE., STE 1300
MIDLAND, TX 79701

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:

**ATTN WILLIAM V JONES
 NM OIL CONSERVATION DIVISION
 1220 S ST FRANCIS DR
 SANTA FE NM 87505**

2. Article Number

(Transfer from service label)

7010 1570 0000 7781 3196

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]*

- Agent
- Addressee

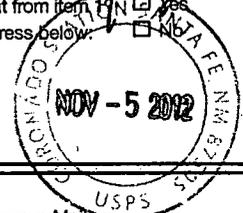
B. Received by (Printed Name)

Heather M...

C. Date of Delivery

11/5/12

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



3. Service Type

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

4. Restricted Delivery? (Extra Fee)

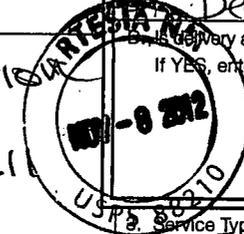
Yes

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

*Chase Oil Corporation
 P.O. Box 960
 Artesia, NM 88211*



COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Kathy Beauregard*

- Agent
- Addressee

B. Received by (Printed Name)

Kathy Beauregard

C. Date of Delivery

11-8-12

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

2. Article Number

(Transfer from service label)

7010 1570 0000 7781 3202

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Saturday, December 15, 2012 7:02 PM
To: Brian Collins
Cc: Kautz, Paul, EMNRD; Ezeanyim, Richard, EMNRD
Subject: Disposal application from COG Operating LLC: Lightning 1 State SWD #1 30-025-NA Delaware Perforations

Hello Brian,

Hope all is well?

Just looked over your application,

It seems this is 2 or more miles from any other Delaware production and maybe that was lower in the formation?
Is there any distinction in this area between Bell/Cherry/Brushy members? If so, what would the geologist pick as tops?

Please send proof of notice (Copy of the C-108) to;

- i. The State Land Office as the surface owner and
- ii. The nearest Potash Lessee (for any application for disposal with the R-111-P Potash area within the well's AOR).

Not there 2580 6740

see 12/19/12

No Lessee

Otherwise all looks fine,

Thank You

Will Jones

Jones, William V., EMNRD

From: Brian Collins <BCollins@concho.com>
Sent: Monday, December 17, 2012 6:58 AM
To: Jones, William V., EMNRD
Subject: RE: Disposal application from COG Operating LLC: Lightning 1 State SWD #1 30-025-NA Delaware Perforations

Will: *WV*

I'm doing well, thank you. I'll email you the Bell, Cherry and Brushy Canyon picks this week and Bobbie will notify the SLO and Potash. Hope things are going well for you too. Take care. --Brian

From: Jones, William V., EMNRD [<mailto:William.V.Jones@state.nm.us>]
Sent: Saturday, December 15, 2012 8:02 PM
To: Brian Collins
Cc: Kautz, Paul, EMNRD; Ezeanyim, Richard, EMNRD
Subject: Disposal application from COG Operating LLC: Lightning 1 State SWD #1 30-025-NA Delaware Perforations

Hello Brian,

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Otherwise all looks fine,

Thank You

Will Jones

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

Injection Permit Checklist (11/15/2010)

WFX _____ PMX _____ SWD 1373 Permit Date 12/12 UIC Qtr (O/N/D)

Wells 1 Well Name(s): LIGHTNING 1 State SWD #1

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

Footages 3480 FSL/2300 FUL Unit # Sec 1 Tsp 215 Rge 33E County LEA

General Location: _____

Operator: COG OPERATING LLC Contact BRIAN COLLINS

OGRID: 229137 RULE 5.9 Compliance (Wells) 9/2755 (Finan Assur) OK IS 5.9 OK? OK

Well File Reviewed Current Status: NO Permit File

Planned Work to Well: Drill/Equip

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

Well Details:	Sizes Hole.....Pipe	Setting Depths	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
New <input type="checkbox"/> Existing <input type="checkbox"/> Surface	<u>17 1/2 13 3/8</u>	<u>1800</u>	<u>—</u>	<u>2500 SF</u>	<u>CIRC</u>
New <input type="checkbox"/> Existing <input type="checkbox"/> Interm	<u>12 1/4 9 5/8</u>	<u>5500</u>	<u>—</u>	<u>3500 CF</u>	<u>CIRC</u>
New <input checked="" type="checkbox"/> Existing <input type="checkbox"/> LongSt	<u>8 3/4 - 7"</u>	<u>7500 TD</u>	<u>—</u>	<u>1150 SF</u>	<u>2500' High</u>
New <input type="checkbox"/> Existing <input type="checkbox"/> Liner					
New <input type="checkbox"/> Existing <input type="checkbox"/> OpenHole					

Depths/Formations:	Depths, Ft.	Formation	Tops?
Formation(s) Above	<u>4210</u>	<u>TRIPS</u>	<input checked="" type="checkbox"/>
	<u>4250</u>	<u>R</u>	<input checked="" type="checkbox"/>
	<u>5646'</u>	<u>Del sand</u>	<input type="checkbox"/>
Injection TOP:	<u>5550</u>	<u>Chaparral</u>	Max. PSI <u>110</u> Open Hole <input type="checkbox"/> Perfs <input checked="" type="checkbox"/>
Injection BOTTOM:	<u>7450</u>	<u>B/S</u>	Tubing Size <u>3/2" x 4 1/2"</u> Packer Depth <u>5500'</u>
Formation(s) Below	<u>8314</u>	<u>B.S.</u>	<input checked="" type="checkbox"/>

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

Fresh Water: Depths: 4250 Formation _____ Wells? yes Analysis? Affirmative Statement

Disposal Fluid Analysis? Sources: Del/B/S

Disposal Interval: Analysis? Production Potential/Testing: _____

Notice: Newspaper Date 11/10/12 Surface Owner SLO Mineral Owner(s) SLO

RULE 26.7(A) Affected Persons: CPR

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

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

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

Issues: Log well, avoid Pot, Prod areas Request Sent _____ Reply: _____