DATE IN 03/21/2013	SUSPENSE	ENGINEER RE	LOGGED IN 03/22/2013	TYPE SWD	APP NO. PPAG1308141885

ABOVE THIS LINE FOR DIVISION USE ONLY

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

RECEIVED OCD
2013 MAR 21 P 2:11

30-025-25518
Bebidas 16 State SWD #1

ADMINISTRATIVE APPLICATION CHECKLIST

COG Operating

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.

BRIAN COLLINS		SENIOR OPERATIONS ENGINEER	15 Mar 2013
Print or Type Name	Signature	Title	Date

bcollins@concho.com
e-mail Address

SWD-1412

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

I. PURPOSE: _____Secondary Recovery _____Pressure Maintenance __X__Disposal _____Storage
Application qualifies for administrative approval? __X__Yes _____No

II. OPERATOR: COG OPERATING LLC

ADDRESS: 2208 W. Main Street, ARTESIA, NM 88210

CONTACT PARTY: BRIAN COLLINS PHONE: 575-748-6940

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

IV. Is this an expansion of an existing project? _____Yes __X__No
If yes, give the Division order number authorizing the project: _____

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

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

VII. Attach data on the proposed operation, including:

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

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

IX. Describe the proposed stimulation program, if any.

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

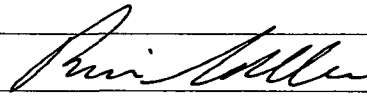
*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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

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

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

NAME: BRIAN COLLINS TITLE: Senior Operations Engineer

SIGNATURE:  DATE: 15 Mar 2013

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: _____

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

C-108 Application for Authorization to Inject
BEBIDAS 16 STATE SWD #1
1980' FSL, 660' FWL
Unit L, Sec 16 T23S R33E
Lea County, NM
API 30-025-25518

COG Operating, LLC, proposes to reenter the captioned well, clean out to 7550', set a CIBP at 7550', perforate the Delaware Sand from 5160' to 7350' and put well into SWD service. A drilling permit 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. We plan to drill the Bebidas State 1H and 2H within the AOR. Proposed wellbore schematics are attached.

VII. 1. Proposed average daily injection rate = 5000 BWPD
Proposed maximum daily injection rate =10000 BWPD

2. Closed system

3. Proposed maximum injection pressure = 1032 psi
(0.2 psi/ft. x 5160' 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 5160' to 7350'. Any underground water sources will be shallower than 1300' (surface casing setting depth for new wells).

IX. The Delaware sand injection interval might be acidized with approximately 20 gal/ft of 7 ½ % HCl acid and possibly fraced with approximately 200,000 lbs of sand.

X. Well logs are filed with the Division. A section of the neutron-density porosity log showing the injection interval is attached.

XI. There is one fresh water well within a mile of the proposed SWD well. This well is located in the SW/4 SW/4 NE/4 SE/4 of Sec 17-23s-33e. A water analysis 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

Side 1

INJECTION WELL DATA SHEET

OPERATOR: Concho Operating, LLC (Operates Concho Production, LLC)

WELL NAME & NUMBER: Bebidas 16 State SWD No. 1 (Formerly Lea RL St. #1)

WELL LOCATION:	1980' FSL 660' FWL	L	16	23s	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" @ 748'

Cemented with: 650 sx. *or* _____ ft³

Top of Cement: Surface Method Determined: Circulated

Intermediate Casing

Hole Size: 12 1/4" Casing Size: 10 3/4" @ 5100'

Cemented with: 900 sx. *or* _____ ft³

Top of Cement: 1900' Method Determined: Temp Survey

Production Casing

Hole Size: 9 1/2" Casing Size: 7 5/8" @ 12478'

Cemented with: 2625 sx. *or* _____ ft³

Top of Cement: 1100' Orig Drilled Surface Tieback Reentry Method Determined: Temp Survey Circulated

Total Depth: 15950'

Injection Interval

5160' feet to 7350'

(Perforated) or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 4 1/2" Lining Material: Glassbore / Duoline 20

Type of Packer: Nickel plated double grip retrievable

Packer Setting Depth: 5110' ±

Other Type of Tubing/Casing Seal (if applicable): N/A

Additional Data

1. Is this a new well drilled for injection? ____ Yes X No

   If no, for what purpose was the well originally drilled? Oil & Gas

2. Name of the Injection Formation: Delaware Sand

3. Name of Field or Pool (if applicable): Brininstool / Cruz

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.

   See wellbore schematic

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

   Overlying: Delaware 5090-5158' (Sec 8, 17, 18) Not productive Sec. 16

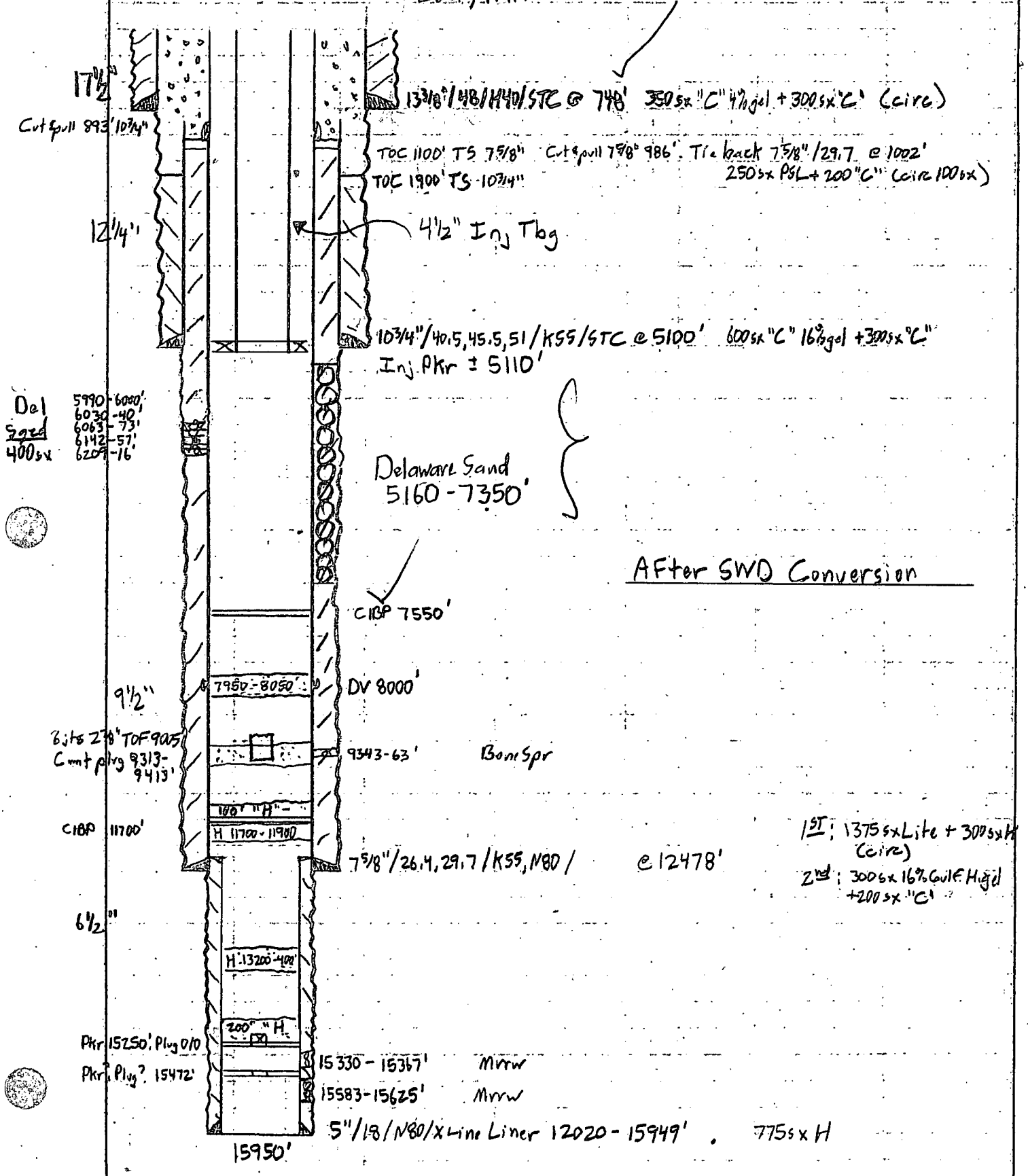
   Underlying: Delaware 8865-8882' (Sec 10), Bone Spring 9343-12264'

   Wolfcamp 13002-13622', Atoka 14725-14742'

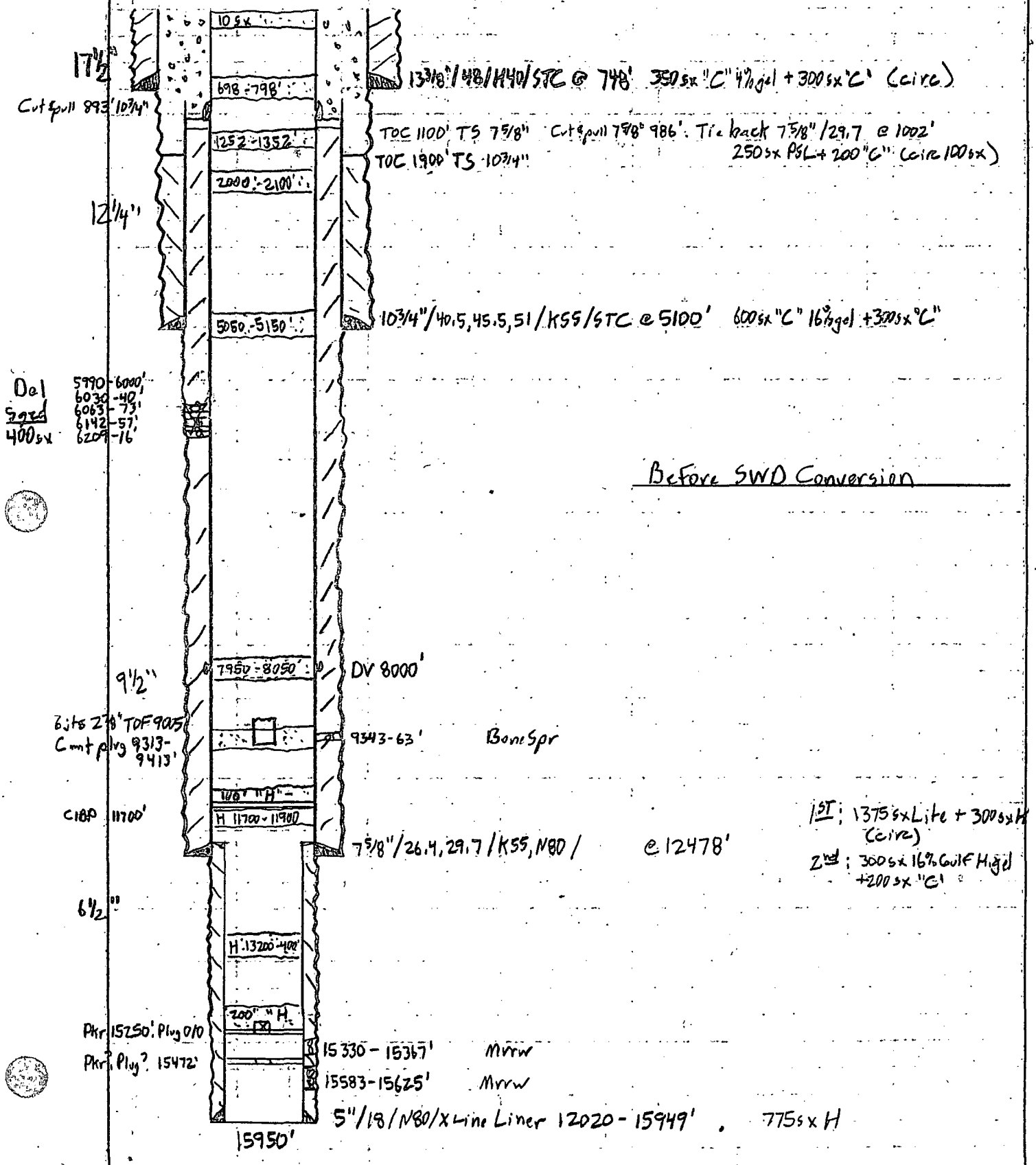
   Morrow 15330-15672'

30-025-25518

Bebidas 16 State SWD 1
(Formerly Lea RL St. 1)
1980' FSL, 660' FWL
L-16-23s-33e
Lea, NM

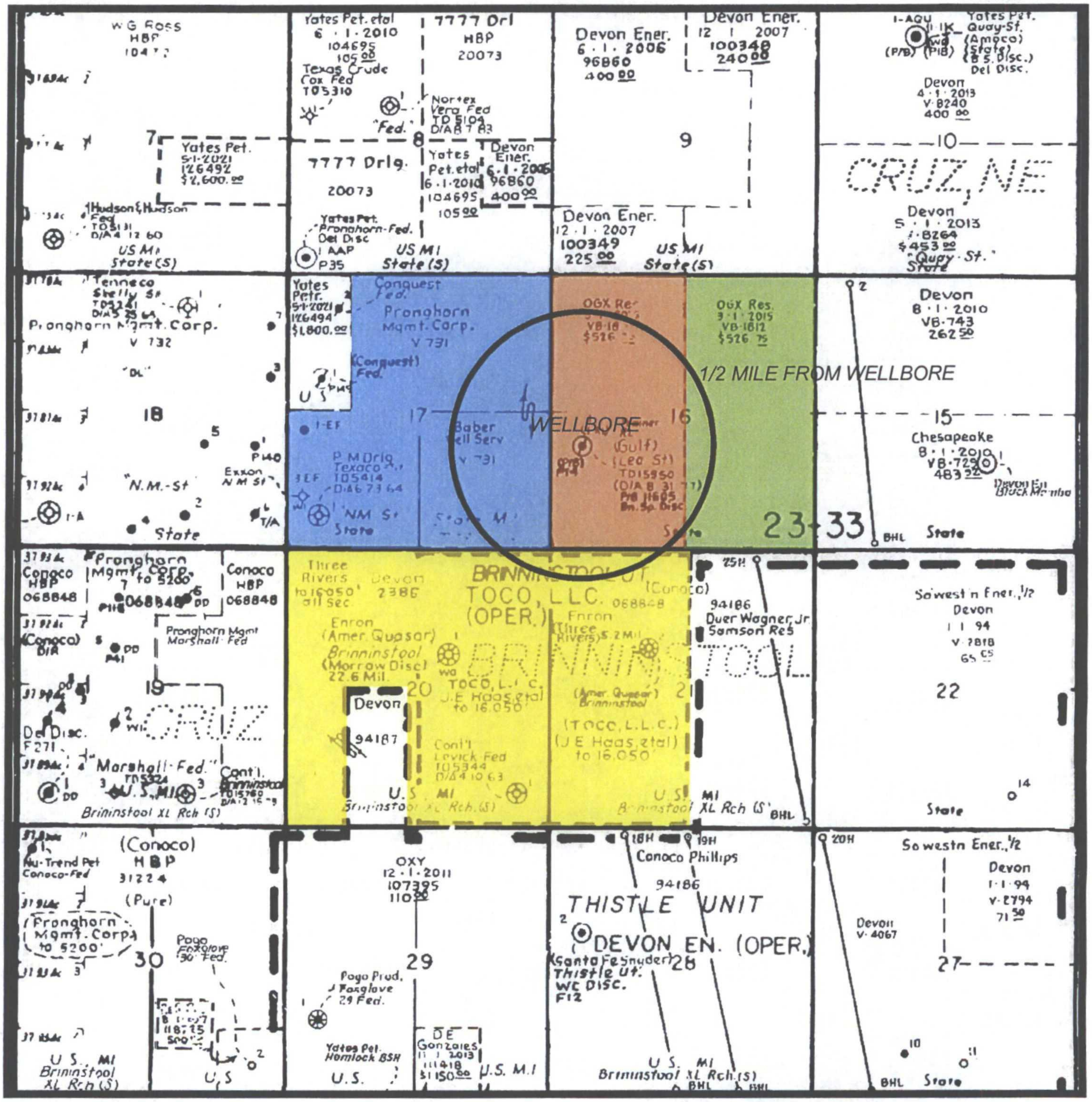


30-025-25518 (Formerly Lea RL St. 1)
1980' FSL, 660' FWL,
L-16-23s-33e
Lea, NM



V.

MAP



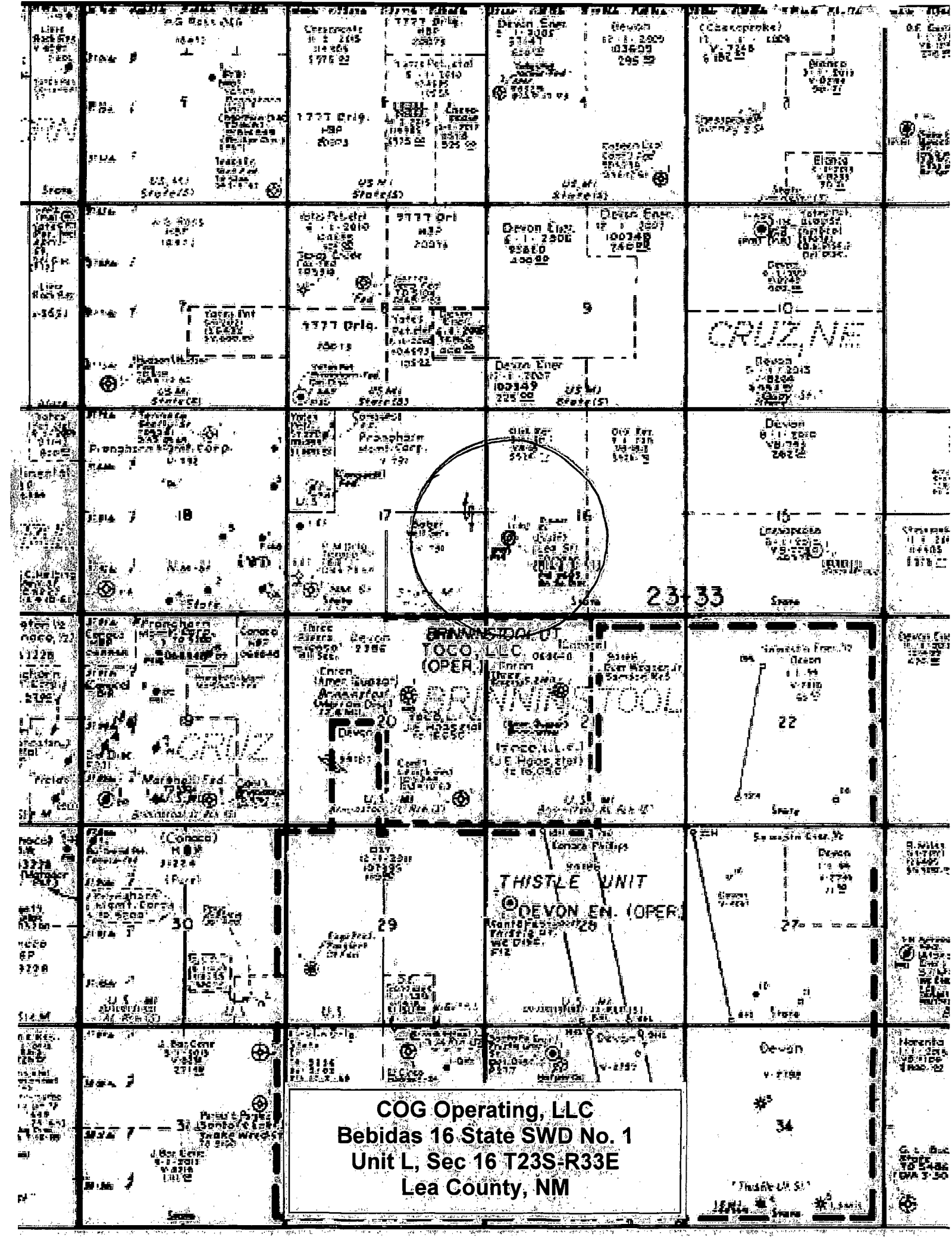
COG Acreage, LP

COG Acreage, LP

Endurance Resource

COG Operating LLC

Bebidas 16 State SWD No. 1
Unit L, Sec. 16; T23s - R33e
Lea County, New Mexico

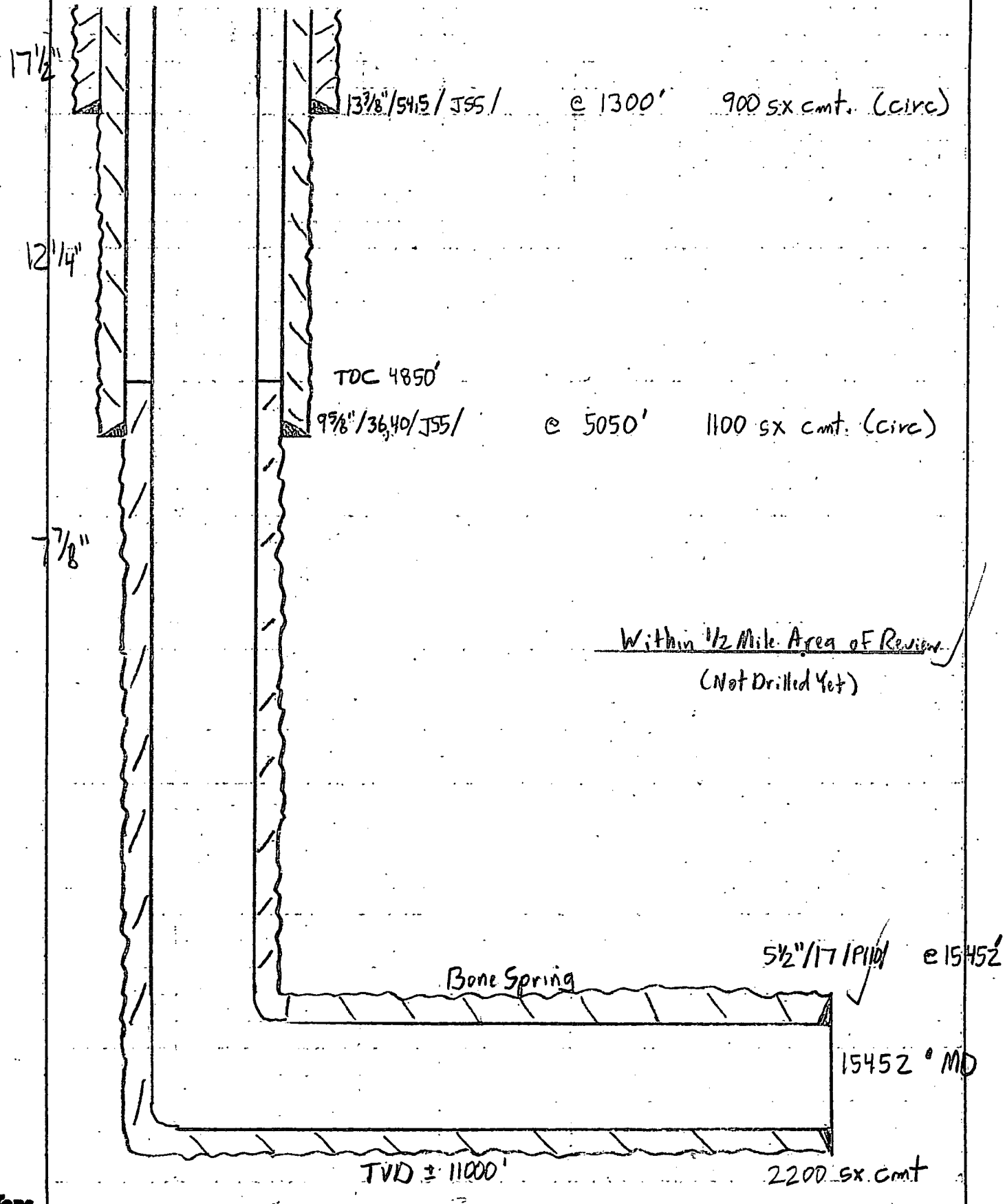

COG Operating, LLC
Bebidas 16 State SWD No. 1
Unit L, Sec 16 T23S-R33E
Lea County, NM

VI.

Wells Penetrating Proposed Disposal Interval Within Half Mile Area of Review

30-025-40854

Bebidas State 1H
394' FSL, 380' FWL (surface)
330' FNL, 380' FWL (EOL)
M-16-23s-33e
Lea, NM

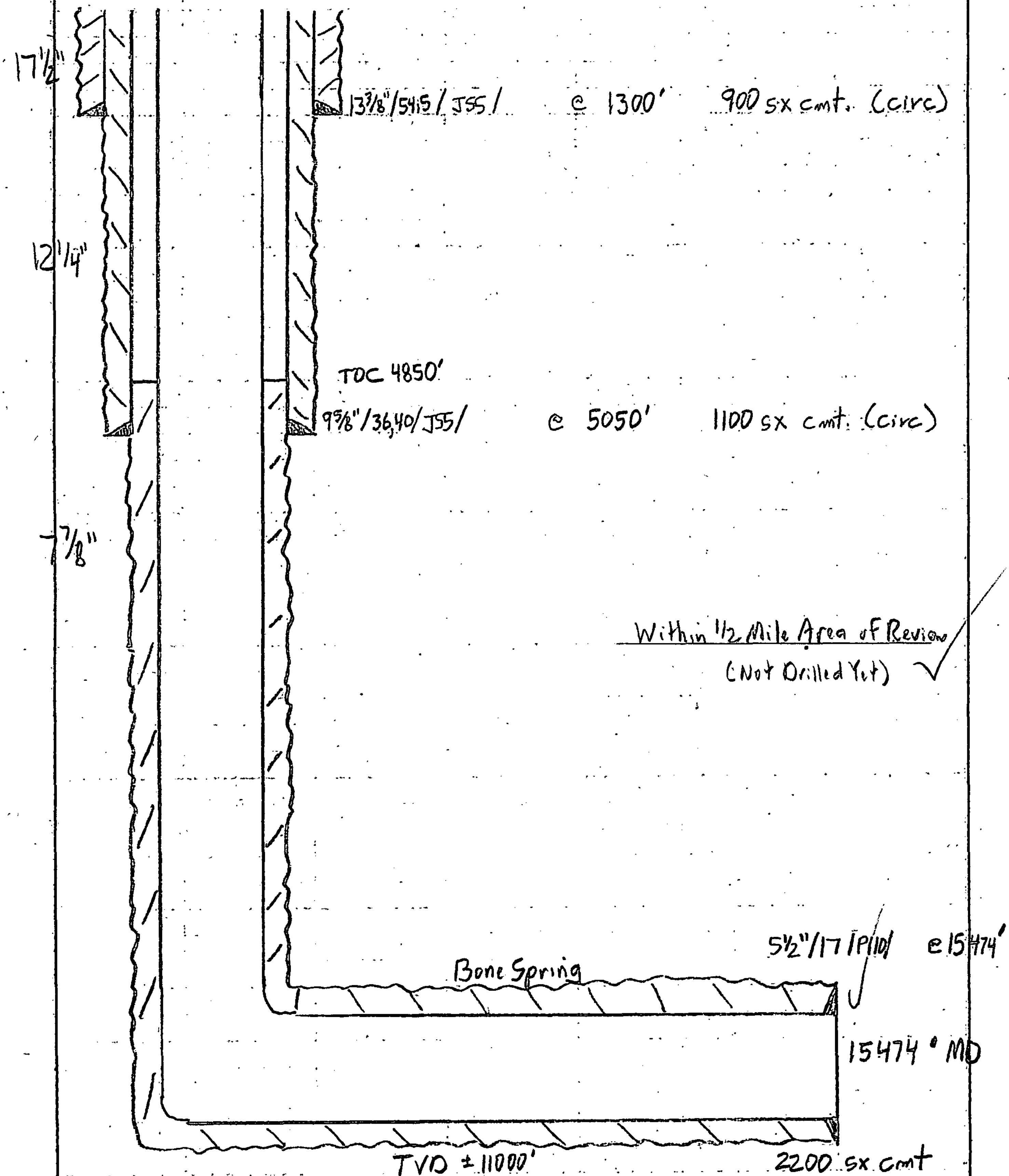


Within ½ Mile Area of Review
(Not Drilled Yet)

TOPS
35500

30-025-40855

Bebidas State 2H
392' FSL, 1887' FWL (surface)
330' FNL, 1887' FWL (EOL)
N - 16 - 23s - 33e
Lea, NM



TOPS 35500

VII.

Water Analysis Produced and Receiving Formation Water

Bone Spring Produced Water Sample

Analytical Laboratory Report for:

MARBOB ENERGY CORPORATION

BJ Chemical Services

Account Representative:
Polk, Bill

Production Water Analysis

Listed below please find water analysis report from: LPC 31 FED, 1

Lab Test No:	2006151411	Sample Date:	12/13/2006
Specific Gravity:	1.135		
TDS:	205426		
pH:	6.49		

Cations:	mg/L	as:
Calcium	11067	(Ca^{++})
Magnesium	1751	(Mg^{++})
Sodium	64721	(Na^{+})
Iron	58.20	(Fe^{++})
Potassium	1164.0	(K^{+})
Barium	0.83	(Ba^{++})
Strontium	407.00	(Sr^{++})
Manganese	1.35	(Mn^{++})
Anions:	**mg/L**	**as:**
Bicarbonate	220	(HCO_3^{-})
Sulfate	1400	($SO_4^{=}$)
Chloride	126800	(Cl^{-})
Gases:		
Carbon Dioxide	178	(CO_2)
Hydrogen Sulfide	17	(H_2S)

North American Oil and Gas News

IEA claims global warming may lead to 'Miami Beach in Boston' situation unless urgent action is taken

Enbridge reports second quarter adjusted earnings of $277 million

Imperial Resources; SWDF full disposal test to commence

Drako Capital announces update on Stolberg well

Source: Oil Voice

NYMEX LS Crude	**88.73**
Navajo WTXI	**0**
Henry Hub	**3.01**
Updated :	**8/1/2012**

State Land Office Data Access

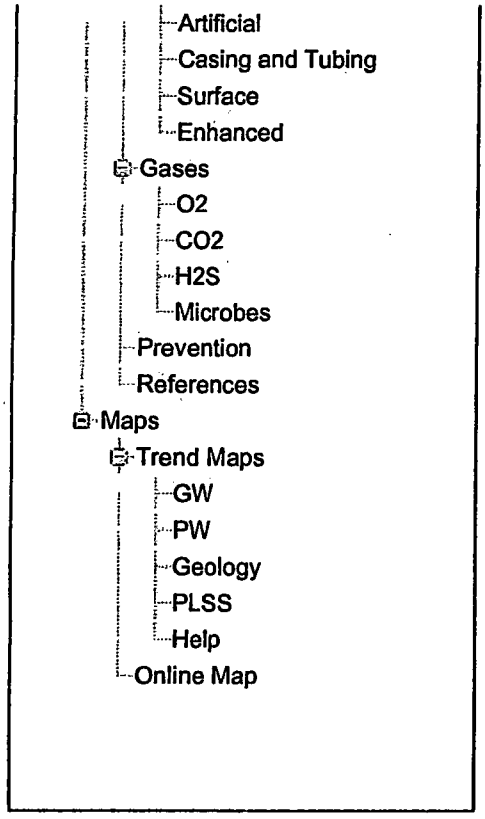
OCD well/log image files

PRRC **NM-TECH** **NM-BGMR**

Delaware Sample Representative of Produced and Receiving Formations ✓

- 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

General Information About: Sample 4412			
HANAGAN B FEDERAL			
API	3002508151	Sample Number	
Unit/Section/ Township/Range	O / 15 / 24S / 32E	Field	DOUBLE X
County	Lea	Formation	DEL
State	NM	Depth	
Lat/Long	32.21178 , -103.66422	Sample Source	UNKNOWN
TDS (mg/L)	229709	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)	491
Sodium (Na)		Chloride (Cl)	142100



Calcium (Ca)		Carbonate (CO_3)	
Magnesium (Mg)		Bicarbonate (HCO_3)	168
Barium (Ba)		Hydroxide (OH)	
Manganese (Mn)		Hydrogen Sulfide (H_2S)	
Strontium (Sr)		Carbon Dioxide (CO_2)	
Iron (Fe)		Oxygen (O)	

X.

Log Across Proposed Delaware Sand Injection Interval

L-16-T23S-R33E 1980FS 660FW
C W TRAINER
RL # 1
30-025-25518

Combination Logging Systems

Compensated Densilog
Compensated Neutron

COMPANY GULF ENERGY & MINERALS CO-U.S.

WELL LEA RL STATE NO. 1

FIELD MORROW (UNDESIGNATED)

COUNTY LEA STATE NEW MEXICO

LOCATION: 1980'FSL & 660'FWL

Other Services: DLL/GR

SEC 16 TWP 23-S RGE 33-E

GROUND LEVEL Elev. 3695

K. B. 20 Ft. Above Permanent Datum

Drilling Measured from K. B.

Elevations: KB 3715, DF, GL 3695

Date	8-22-77			
Run No.	ONE			
Service Order	80844			
Depth—Driller	15950			
Depth—Logger	15938			
Bottom Logged Interval	15936			
Top Logged Interval	SURFACE			
Casing—Driller	7 5/8 12478			
Casing—Logger	12458			
Bit Size	6 1/2"			
Type Fluid in Hole	SALT MUD			
Density and Viscosity	14.8 57			
pH and Fluid Loss	10 4 cc			
Source of Sample	PIT			
Rm @ Meas. Temp.	.053 78 F			
Rmf @ Meas. Temp.	.053 78 F			
Rmc @ Meas. Temp.	-			
Source of Rmf and Rmc	MEAS.			
Rm @ BHT	.021 195 F			
Time Since Circ.	14 HOURS			
Max. Rec. Temp. Deg. F	195 F			
Equip. No. and Location	6118 HOBBS			
Recorded By	DUEWEKE			
Witnessed By	PIKE KARSKI			

FOLD HERE

NEUTRON RECORDED WITH BOWSPRING DECENTRALIZER.
REPEAT SECTION & BOTTOM OF HOLE SEVERLY AFFECTED BY HOLE RUGOSITY.

EQUIPMENT DATA

				RUN NO 2 CDL	RUN NO 2 CNL	RUN NO 2 GR	RUN NO 3 CDL	RUN NO 3 CNL	RUN NO 3 GR
[illegible]	2207M	2413	1306						
[illegible]	24715	29895	34112						
[illegible]	5.5"	3.62"	3.5"						
	-	-							
[illegible]	IGLOX	D6N3	D6G4						
[illegible]	GEIGER	SCINT.	SCINT.						
			6"						
	S3T20	S17S20SL							
	423	34354							
[illegible]	2254	2254	3606						
[illegible]	29318	29473	31917						

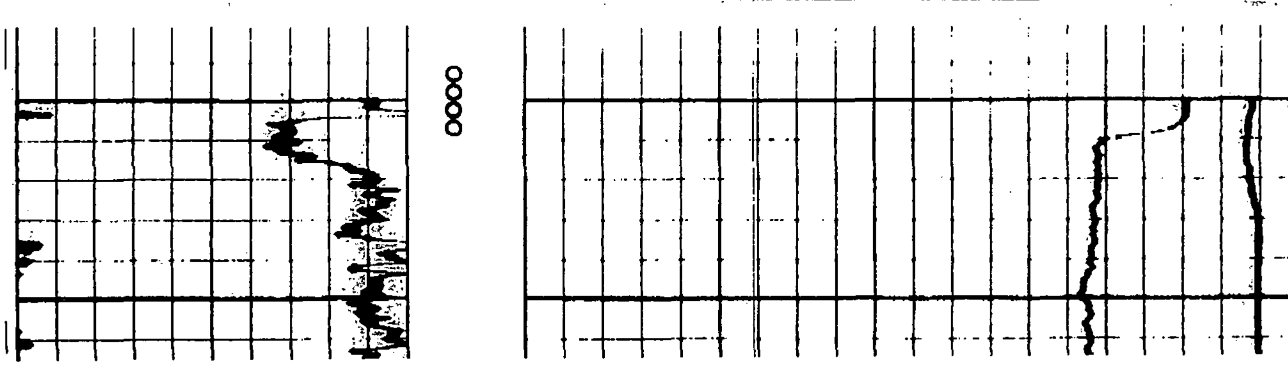
Logging Data

Run No.	Depth [illegible]	[illegible]	[illegible]	Compensated Density [illegible]	[illegible]	Correction Scale	Porosity Scale Data	Gamma Ray T.C. Sec.	Gamma Ray Sens Settings	Gamma Ray Zero [illegible] R	Gamma Ray API G.R Units/Div
1	15936	SURF.	REC.	CCTC	2.0-3.0	.1/CD	DG=2.71 DF=1.1	2	514	0	10

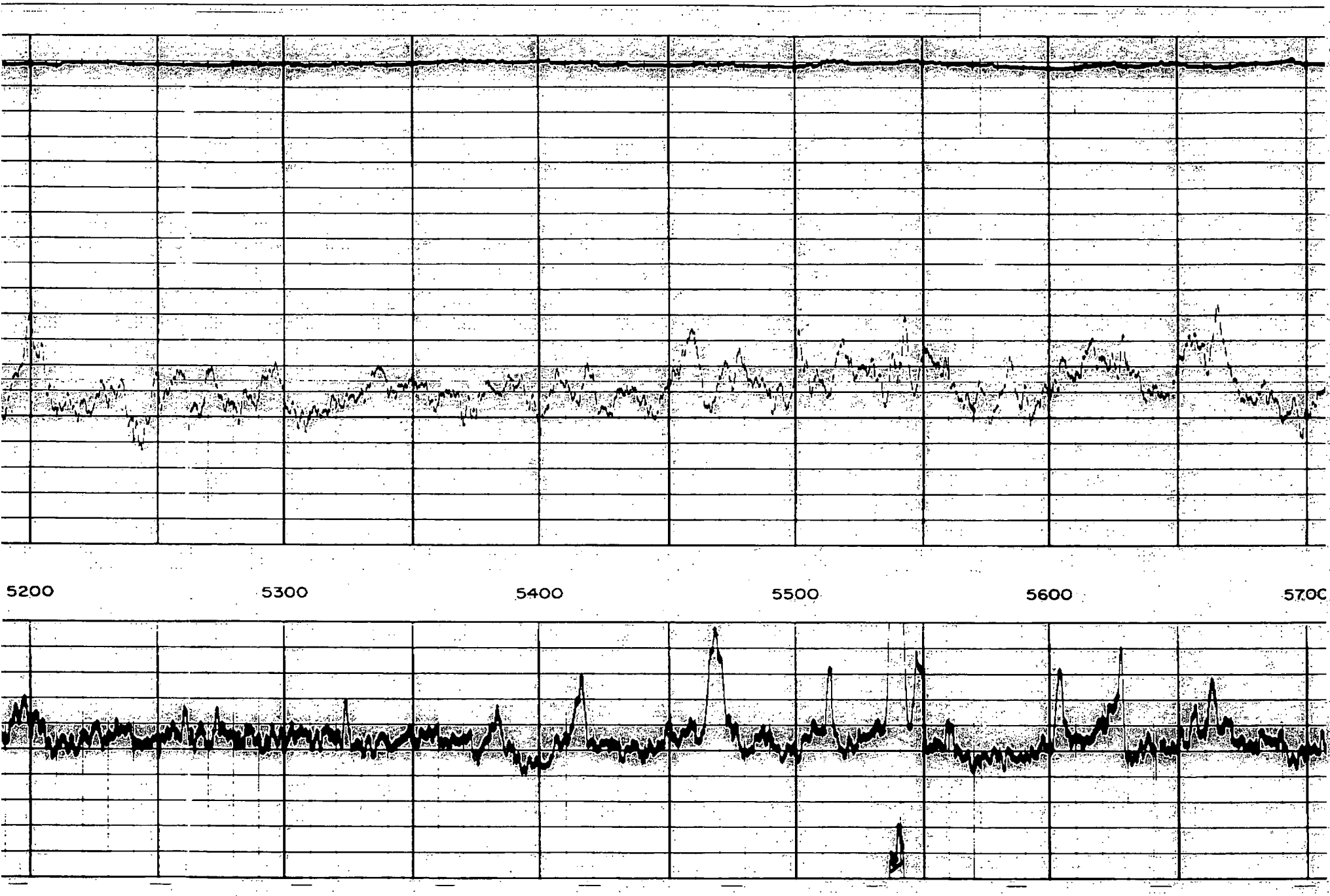
Run No.	General Depths [illegible]	General Depths [illegible]	[illegible]	[illegible]	[illegible]	Compensated Neutron Sens. [illegible]	Compensated Neutron Sens. LS	Porosity Zero	Porosity Units/Div	Porosity Scale	Caliper Scale
1	15936	SURF.	REC	2	2	137	147	P4.5	2%	30-0	6" - 16"

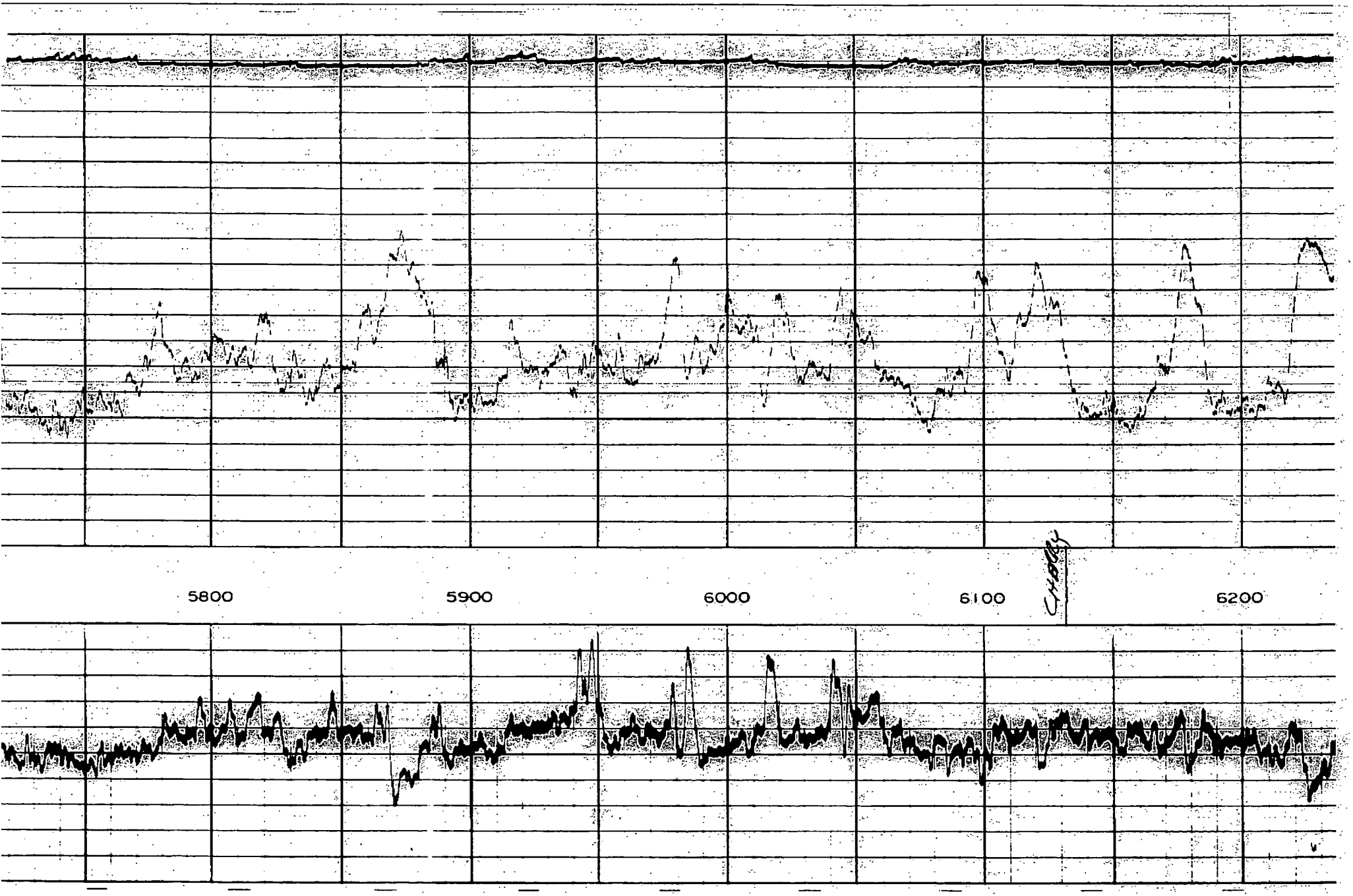
GAMMA RAY	DEPTH	DENSITY – POROSITY % ρ_{ma} 2.71 ρ_f 1.1
10 API/CD API UNITS 0 — 100		2.0 — 3.0 -.1 0 +.1 CORRECTION
CALIPER		**NEUTRON POROSITY %** LIMESTONE MATRIX
HOLE-SIZE-INCHES 6" — 16"	2"=100' LR SURF.	30% 20% 10% 0

FORM 925286-A



0100
0200
Tension
4900
5000
5100
Top of
Injection
Interval
5160'


5200
5300
5400
5500
5600
5700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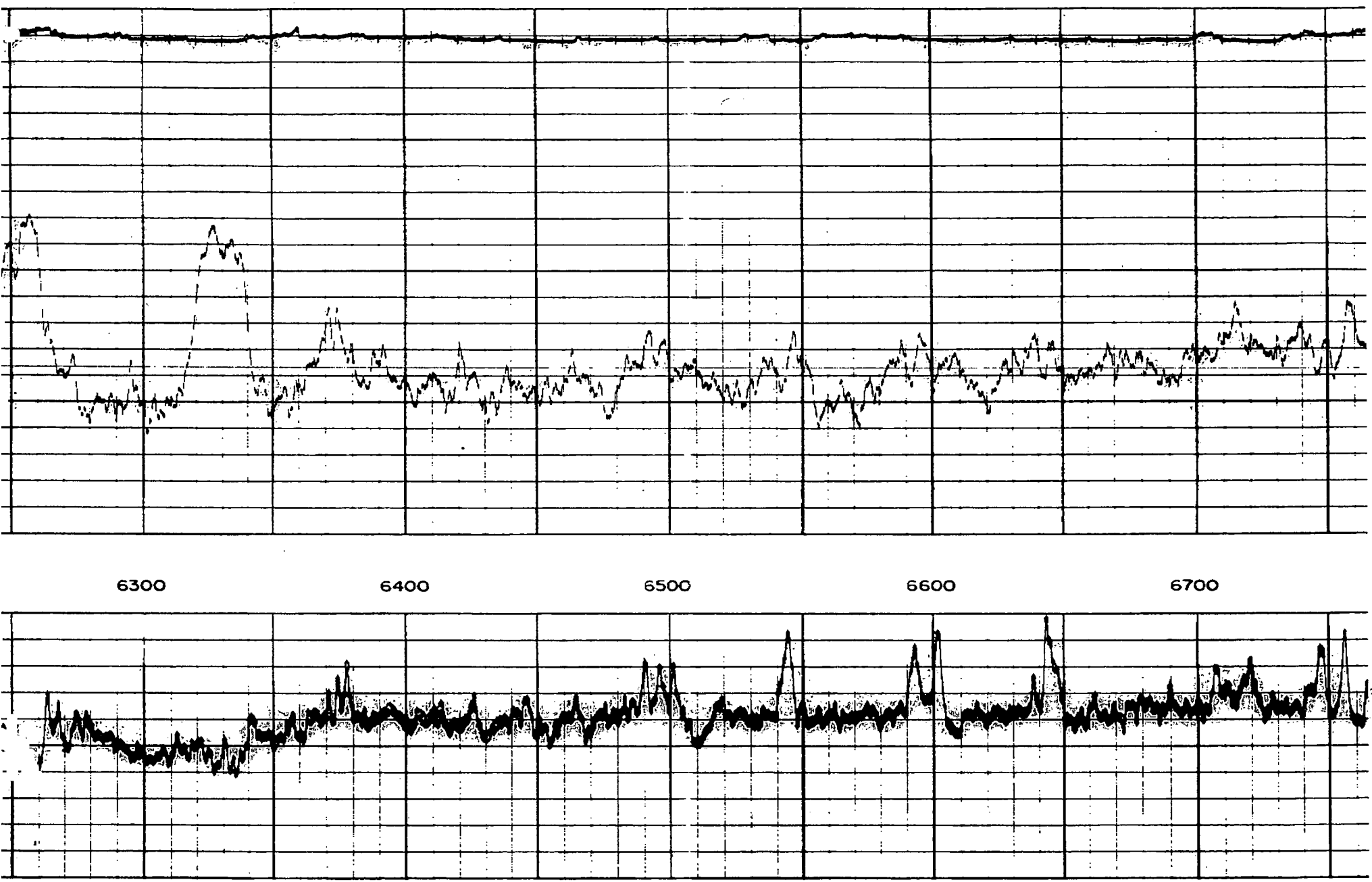
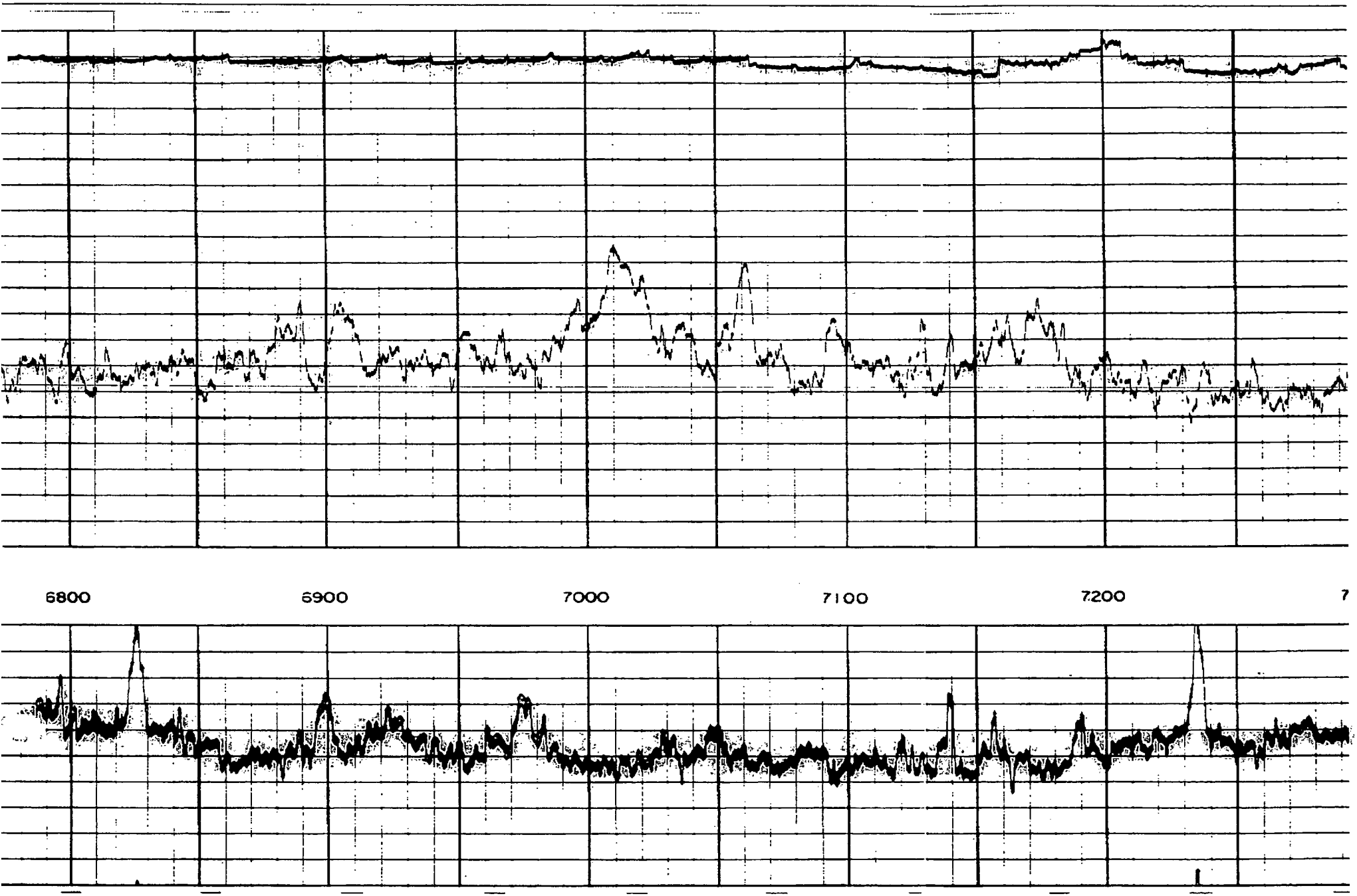
6200



6300 6400 6500 6600 6700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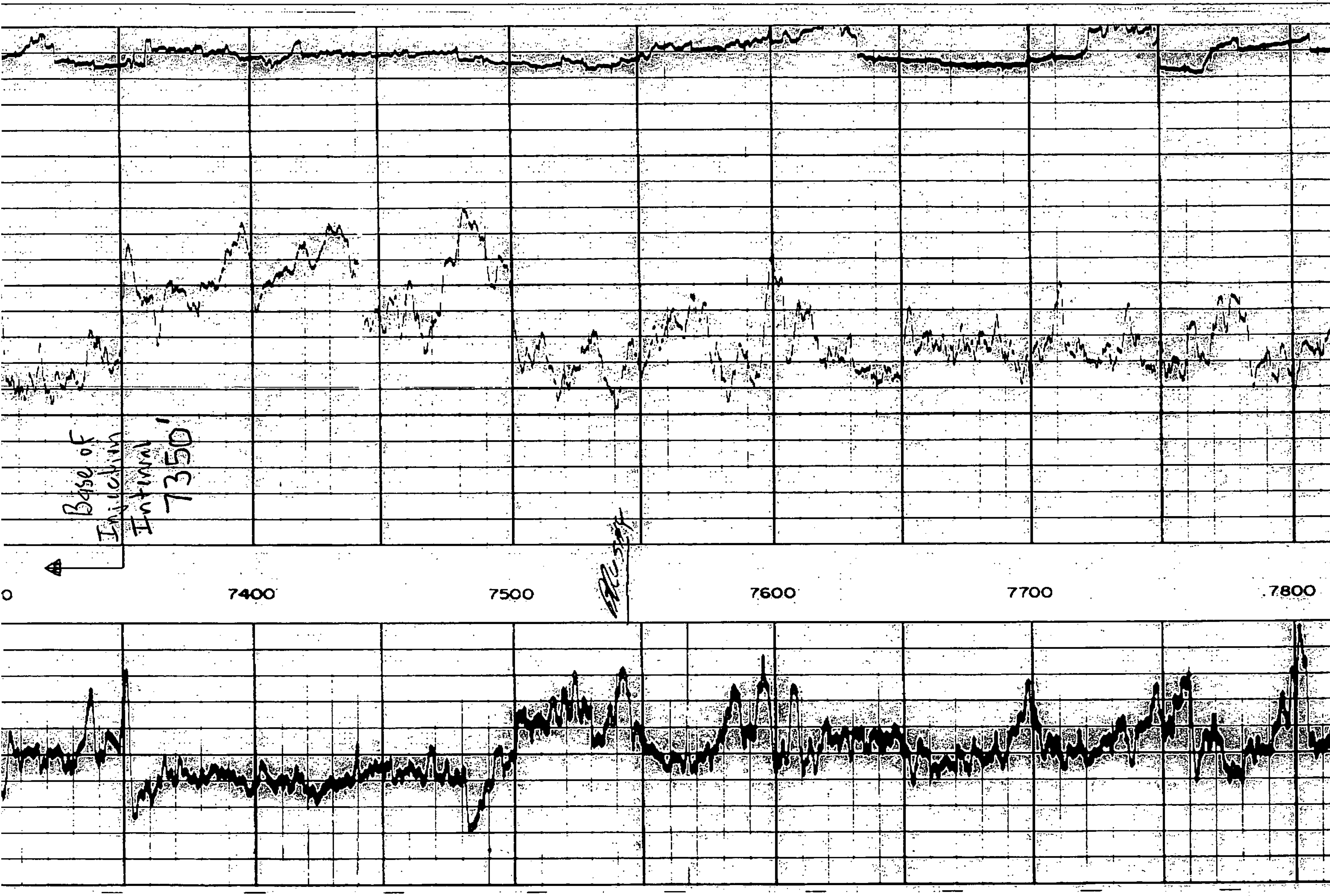
6900
7000
7100
7200
7



Base of
Injection
Interval
7350'
7400
7500
7600
7700
7800

XI.

Fresh Water Sample Analyses

Fresh Water Well

HALLIBURTON

PERMAIN BASIN OPERATIONS LABORATORY
WATER ANALYSIS REPORT
HOBBS, NEW MEXICO

COMPANY: Cog
LEASE: Angel Water Well
BRP BR

REPORT W13-008
DATE February 17, 2013
DISTRICT Hobbs

SUBMITTED BY SW/4 SW/4 NE/4 SE/4 Sec 17-23s-33e

TANK SAMPLE	BRP BR	Angel			
Sample Temp.	70 °F	70 °F	°F	°F	°F
RESISTIVITY					
SPECIFIC GR.	1.001	1.001			
pH	7.43	7.93			
CALCIUM	40 mpl	35 mpl	mpl	mpl	mpl
MAGNESIUM	30 mpl	30 mpl	mpl	mpl	mpl
CHLORIDE	510 mpl	50 mpl	mpl	mpl	mpl
SULFATES	<400 mpl	<400 mpl	mpl	mpl	mpl
BICARBONATES	200 mpl	360 mpl	mpl	mpl	mpl
SOLUBLE IRON	0 mpl	0 mpl	mpl	mpl	mpl
KCL	Neg	Neg			
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 litter
Resitivity measured in: Ohm/m2/m

ANALYST: T. Rasco

New Mexico Office of the State Engineer

Active & Inactive Points of Diversion

(with Ownership Information)

(R=POD has been replaced and no longer serves this file, C=the file is closed) (quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) (NAD83 UTM in meters)

(acre ft per annum)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Code	Grant	Source	q q q 64 16 4	Sec	Tws	Rng	X	Y
C 02277		COM	64.5	BRININSTOOL XL RANCH LLC	LE	C 02277	Greater than 1 mile away		Shallow	2 3 4	20	23S	33E	632663	3572970*
C 03562	C	STK	3	ATKINS ENGINEERING ASSOC, INC.	LE	C 03562 POD1				3 2 4	17	23S	33E	632747	3574765

Record Count: 2

PLSS Search:

Section(s): 8-10, 15-17, 20-22 **Township:** 23S **Range:** 33E

Sorted by: File Number

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twws	Rng	(NAD83 UTM in meters) X	Y
C 03562 POD1	3	2	4	17	23S	33E	632747	3574765

Driller License:

Driller Name:

Drill Start Date:	**Drill Finish Date:**	**Plug Date:**
Log File Date:	**PCW Rcv Date:**	**Source:**
Pump Type:	**Pipe Discharge Size:**	**Estimated Yield:**
Casing Size:	**Depth Well:**	**Depth Water:**

Well application approved July 20, 2012 appears to be a taking over of an existing well called the "Graham Well" in SW/4 SW/4 NE/4 SE/4 Sec. 17-23s-23e. Well was drilled in 1972 TD 550', 8 5/8" casing, water level 504.9'.

Transaction Summary

72121 All Applications Under Statute 72-12-1

Transaction Number: 507817 **Transaction Desc:** C 03562 **File Date:** 06/22/2012

Primary Status: PMT Permit
Secondary Status: APR Approved
Person Assigned: *******
Agent: ATKINS ENGINEERING ASSOC, INC.
Contact: JESSICA ATKINS
Applicant: LIMESTONE LIVESTOCK, LLC
Contact: BILL ANGELL

Events

	Date	Type	Description	Comment	Processed By
get images	06/22/2012	APP	Application Received	*	*******
	07/20/2012	FIN	Final Action on application		*******
	07/20/2012	WAP	General Approval Letter		*******
	12/07/2012	QAT	Quality Assurance Completed	IMAGES	*******
	12/18/2012	ARV	Rec & Arch - file location	C 03562 Box: 1317	*******

Change To:

WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
C 03562		3		STK 72-12-1 LIVESTOCK WATERING
**Point of Diversion				
C 03562 POD1		632747	3574765	

Remarks

EXISTING WELL

Conditions

10 Total diversion from all wells under this permit number shall not exceed 3 acre-feet per annum.

14 This permit authorizes the diversion of water for watering livestock. The total diversion of water under this permit shall not exceed 3 acre-feet per year.

18 Any diversion of water made in excess of the authorized maximum diversion amount shall be repaid with twice the amount of the over-diversion during the following calendar year. Repayment shall be made by either: (a) reducing the diversion from the well that is the source of the over-diversion; or (b) acquiring or leasing a valid, existing consumptive use water right in an amount equal to the repayment amount and submitting to the State Engineer for his approval a plan for the proposed repayment.

Action of the State Engineer

Action of the State Engineer

Approval Code: A - Approved
Action Date: 07/20/2012
State Engineer: Scott A. Verhines, P.

Locator Tool Report

General Information:

Application ID:29 Date: 07-16-2012 Time: 15:29:39

WR File Number: C
Purpose: POINT OF DIVERSION

Applicant First Name: LIMESTONE
Applicant Last Name: LIVESTOCK

GW Basin: CARLSBAD
County: LEA

Critical Management Area Name(s): NONE
Special Condition Area Name(s): NONE
Land Grant Name: NON GRANT

PLSS Description (New Mexico Principal Meridian):

SW 1/4 of SW 1/4 of NE 1/4 of SE 1/4 of Section 17, Township 23S, Range 33E.

Coordinate System Details:

Geographic Coordinates:

Latitude:	32 Degrees	18 Minutes	6.6 Seconds	N
Longitude:	103 Degrees	35 Minutes	24.1 Seconds	W

Universal Transverse Mercator Zone: 13N

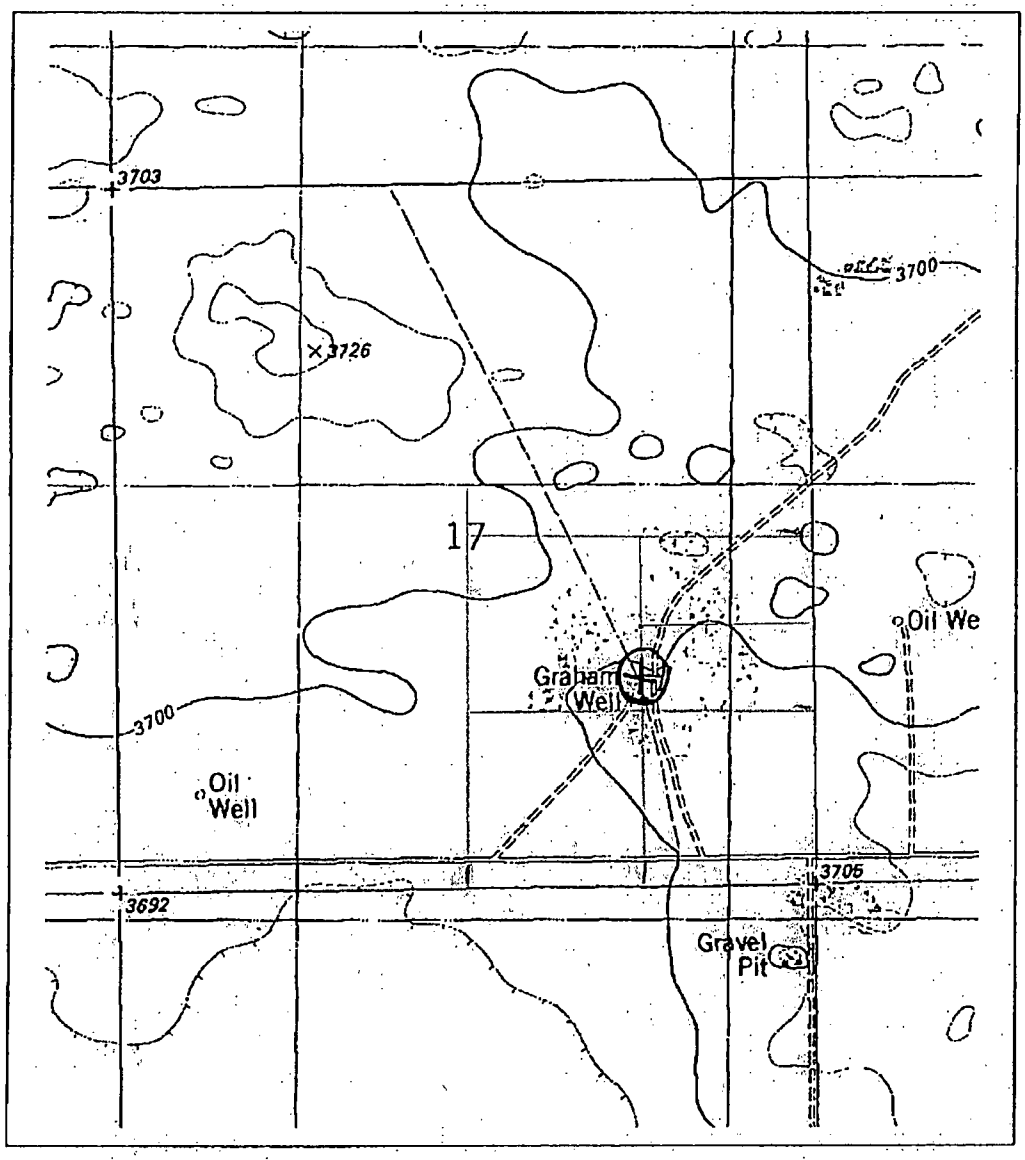
NAD 1983(92) (Meters)	N: 3,574,765	E: 632,747
NAD 1983(92) (Survey Feet)	N: 11,728,209	E: 2,075,938
NAD 1927 (Meters)	N: 3,574,564	E: 632,795
NAD 1927 (Survey Feet)	N: 11,727,547	E: 2,076,097

State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters)	N: 144,578	E: 235,001
NAD 1983(92) (Survey Feet)	N: 474,336	E: 770,998
NAD 1927 (Meters)	N: 144,560	E: 222,448
NAD 1927 (Survey Feet)	N: 474,276	E: 729,815

NEW MEXICO OFFICE OF STATE ENGINEER

Locator Tool Report



WR File Number: C Scale: 1:16,510

Northing/Easting: UTM83(92) (Meter): N: 3,574,765 E: 632,747

Northing/Easting: SPCS83(92) (Feet): N: 474,336 E: 770,998

GW Basin: Carlsbad

Print Date: 07/16/2012

FE-1 State of New Mexico
State Engineer

WELL SCHEDULE

Source of data: Obser [X] Owner [ ] Other USGS

Date 9/21 19 72 Record by Lyford

LOCATION: County Lea Map 119.2.0

OWNER

DRILLER Completed 19

TOPO SITUATION USGST Elev 3701

DEPTH 550 ft [ ] Rept [X] Meas Use Stock

CASING 8 5/8 in to ft Log

PUMP: Type submersible Make

Ser.no./model Size of dischg 2 in.

PRIME MOVER: Make HP

Ser.no. Power/Fuel electric

PUMP DRIVE: [ ] Gear Head [ ] Belt Head [ ] Pump Jack

Make Ser.no [ ] VHS

WATER LEVEL: 504.9 ft ~~X~~ meas 9/21 19 72 ~~above~~ below lower outside edge of 3/4" elbow for electric line

which is 0.50 ft above ~~X~~ below LS

PERMANENT RP is Top of hanger plate (Steel plate welded to a thread protector)

which is ft above below described MP and ft above below LS

REMARKS Well discharges into a steel tank located 50' E

AQUIFER(S): TRS

Well No. on Photo DPN 25-12813

File No Loc. No. 23.33.17.42331

Remarks cont. of well. Well is shown on topo map as 'Graham Well'. Water sample collected from storage tank.

SKETCH:

N

INITIAL WATER-LEVEL MEASUREMENT	DEPTH TO WATER			
	Below MP			Below
	1st	2nd	3rd	LS
Date Sept. 21, 19 72				504.9
Hour ____ AM PM Obs FPL				0.5
Not POA ( ) POA ( )	504.9			504.4

W L meas after pump shut off ____ min. Pumping W L ( )

Remarks

CONCHO

February 12, 2013

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

Re: **Legal Notice**
Salt Water Disposal Well
Bebidas 16 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,

Brian Collins
Senior Operations Engineer

BC/bg
Enclosures

Corporate Address: Fasken Center, Tower II 550 West Texas Avenue, Suite 100 Midland, Texas 79701 PHONE 432.683.7443 FAX 432.683.7441
Local Address: Concho West 2208 West Main Street Artesia, New Mexico 88210 PHONE 575.748.6940 FAX 575.748.6950

HOBBS NEWS SUN
LEGAL NOTICE

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 Bebidas 16 State SWD No. 1 is located 1980' FSL & 660' FWL, Section 16, Township 23 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 5160' to 7350' at a maximum surface pressure of 1032 psi and a maximum rate of 10,000 BWPD. The proposed SWD well is located approximately 26 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
_____, 2013.

CONCHO

March 15, 2013

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

RE: Application For Authorization To Inject
Bebidas 16 State SWD #1
Township 23 South, Range 33 East, N.M.P.M.
Section 16: 1980' FSL & 660' FWL
Lea County, New Mexico

Dear Mr. Jones:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the referenced well. 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,

Brian Collins
Senior Operations Engineer

BC/bg
Enclosures

Corporate Address: Fasken Center, Tower II 550 West Texas Avenue, Suite 100 Midland, Texas 79701 PHONE 432.683.7443 FAX 432.683.7441
Local Address: Concho West 2208 West Main Street Artesia, New Mexico 88210 PHONE 575.748.6940 FAX 575.748.6950

CONCHO

March 15, 2013

New Mexico State Land Office
310 Old Santa Fe Trail,
Santa Fe, NM 87501

Re: Application to Inject
Bebidas 16 State SWD #1
Township 23 South, Range 33 East, N.M.P.M.
Section 16: 1980' FSL & 660' FWL
Lea County, New Mexico

To Whom It May Concern:

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

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

Sincerely,

Brian Collins
Senior Operations Engineer

BC/bg
Enclosures

Corporate Address: Fasken Center, Tower II 550 West Texas Avenue, Suite 100 Midland, Texas 79701 PHONE 432.683.7443 FAX 432.683.7441
Local Address: Concho West 2208 West Main Street Artesia, New Mexico 88210 PHONE 575.748.6940 FAX 575.748.6950

CONCHO

March 15, 2013

Oil Conservation Division
Attn: Paul Kautz
1625 North French Dr.
Hobbs, NM 88240

RE: Application For Authorization To Inject
Bebidas 16 State SWD #1
Township 23 South, Range 33 East, N.M.P.M.
Section 16: 1980' FSL & 660' FWL
Lea County, New Mexico

Dear Mr. Kautz:

COG Operating LLC respectfully requests administrative approval for authorization to inject for the referenced well. 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,

Brian Collins
Senior Operations Engineer

BC/bg
Enclosures

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Local Address: Concho West 2208 West Main Street Artesia, New Mexico 88210 PHONE 575.748.6940 FAX 575.748.6950

CONCHO

March 15, 2013

Endurance Resource
15455 Dallas Parkway
Suite 600
Addison, TX 75001

RE: Application For Authorization To Inject
Bebidas 16 State SWD #1
Township 23 South, Range 33 East, N.M.P.M.
Section 16: 1980' FSL & 660' FWL
Lea County, New Mexico

To Whom It May Concern:

Enclosed for your review is a copy of COG Operating LLC's C-108 Application to Inject for the above referenced well. We plan to reenter 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 the surface owner, an operator or a lessee within a half mile radius area of review. 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,

Brian Collins
Senior Operations Engineer

BC/bg
Enclosures

CONCHO

March 15, 2013

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

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

Sincerely,

Brian Collins
Senior Operations Engineer

BC/bg
Enclosures

RECEIVED OCD
2013 MAR 21 P 2:

Corporate Address: Fasken Center, Tower II 550 West Texas Avenue, Suite 100 Midland, Texas 79701 PHONE 432.683.7443 FAX 432.683.7441
Local Address: Concho West 2208 West Main Street Artesia, New Mexico 88210 PHONE 575.748.6940 FAX 575.748.6950