

ABOVE THIS LINE FOR DIVISION USE ONLY

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



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.

Ben Stone

 Print or Type Name

Ben Stone

 Signature

Agent for Owl SWD Operating, LLC 12/02/15

 Title

ben@sosconsulting.us

 e-mail Address

- SWD
 - Owl SWD Operating, LLC
 308339
 well
 - Collins OS COPY FEATH
 30-015-33758
 2015 DEC - 4 P 2:44
 RECEIVED OGD
 POOL
 - SWD, Delaware
 96100



December 2, 2015

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

Attn: Mr. David Catanach, Director

Re: Application of Owl SWD Operating, LLC to permit for salt water disposal its Collinsoscopy Federal No.1 well, located in Section 7, Township 20 South, Range 30 East, NMPM, Eddy County, New Mexico.

Dear Mr. Catanach,

Please find enclosed form C-108 Application for Authority to Inject, supporting the above-referenced request to for disposal in the Collinsoscopy Federal Well No.1.

Owl SWD Operating seeks to create additional solutions for disposal in various locations in southeast New Mexico. Approval of this application is consistent with that goal as well as the NMOCD's mission of preventing waste and protection of correlative rights.

Published legal notice ran in the November 24, 2015 edition of the Artesia Daily Press and all offset operators and other interested parties have been notified individually. The legal notice affidavit is included in this application. The application also includes wellbore schematics, area of review maps, leaseholder plats and other required information for a complete Form C-108. The well is located on federal land and minerals; the BLM form 3160-3 APD is in process at the Carlsbad Field Office of BLM.

I respectfully request that the approval of this salt water disposal well proceed swiftly and if you or your staff requires additional information or has any questions, please do not hesitate to call or email me.

Best regards,

Ben Stone, Partner
SOS Consulting, LLC
Agent for Owl SWD Operating, LLC

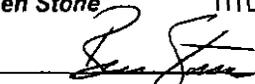
Cc: Application attachment and file

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: **Salt Water Disposal** and the application **QUALIFIES** for administrative approval.
- II. OPERATOR: **Owl SWD Operating, LLC**
ADDRESS: **8214 Westchester Dr., Ste.850, Dallas, TX 75255**

CONTACT PARTY: **Agent: SOS Consulting, LLC – Ben Stone (903) 488-9850**
- III. WELL DATA: **Active GAS Well – Convert to SWD. All well data and applicable wellbore diagrams are ATTACHED.**
- IV. **This is not an expansion of an existing project.**
- V. **A map is attached** 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. A tabulation is attached of data on all wells of public record within the area of review which penetrate the proposed injection zone. **There are 4 Wells in the subject AOR.** The data includes a description of each well's type, construction, date drilled, location, depth, and a schematic of any plugged well illustrating all plugging detail. **NO P&A Wells.**
- VII. **The following data is ATTACHED** 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. **Appropriate geologic data on the injection zone is ATTACHED** 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. **Stimulation program – a conventional acid job may be performed to open new injection perms and formation.**
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). **4 Well Logs are on File with OCD and available through OCD Online.**
- *XI. **There are 2 domestic water wells within one mile of the proposed salt water disposal well. Analyses will be forwarded upon receipt. Water well locations are indicated on the 2 Mile AOR Map.**
- XII. **An affirmative statement is ATTACHED that available geologic and engineering data has been examined and 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" section on the next page of this form has been completed and ATTACHED. There are 6 offset lessees and/or operators within ½ mile and BLM & State minerals - all have been noticed.**
- 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: **Ben Stone** TITLE: **SOS Consulting, LLC agent for Owl SWD Operating, LLC**

SIGNATURE:  DATE: **12/02/2015**

E-MAIL ADDRESS: **ben@sosconsulting.us**

* 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

FORM C-108 – APPLICATION FOR AUTHORIZATION TO INJECT (cont.)

III. WELL DATA – *The following information and data is included (See ATTACHED Wellbore Schematic):*

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No., Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE *pursuant to the following criteria is ATTACHED.*

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

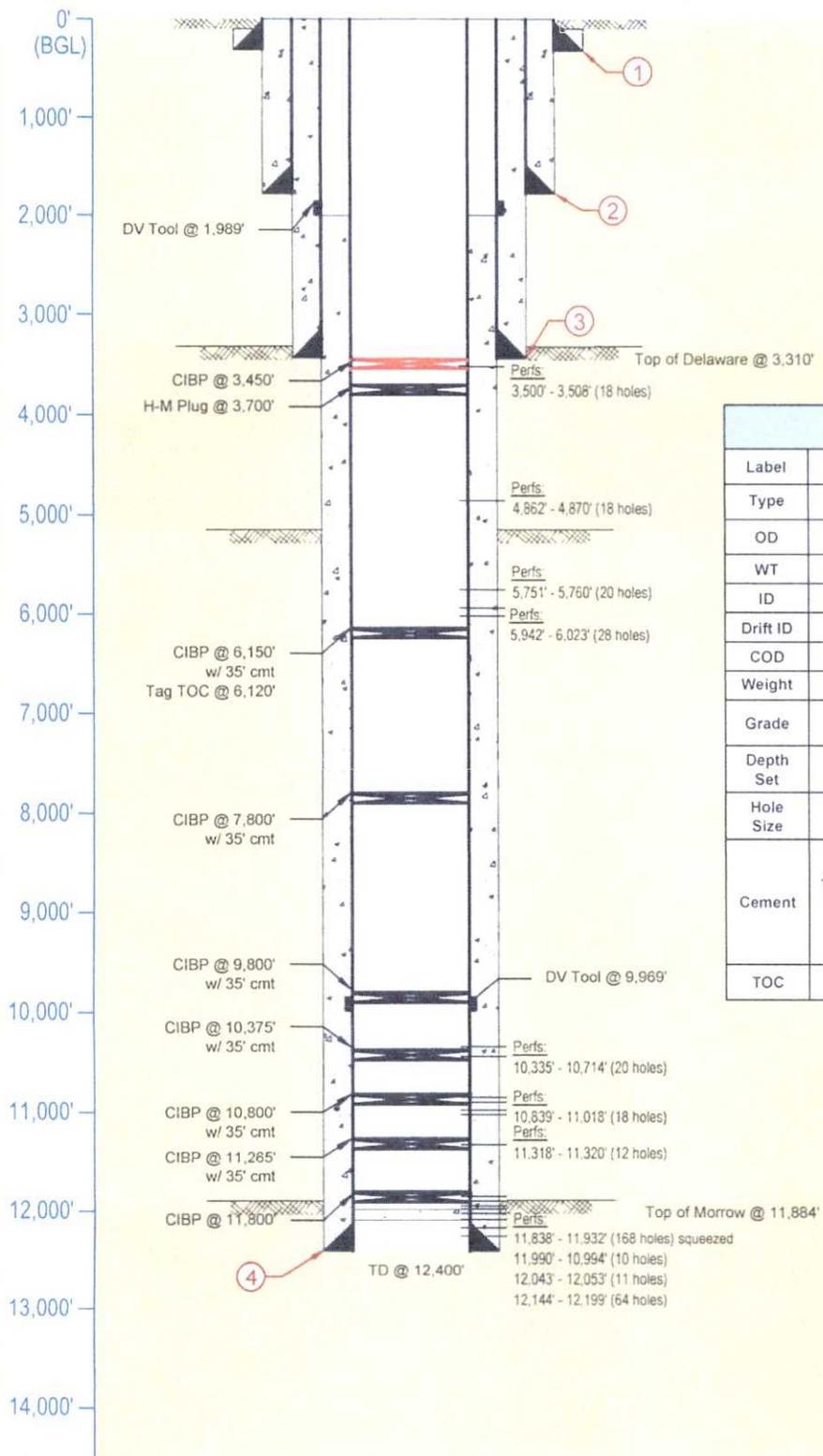
Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

CURRENT STATUS
11/15/2015



Casing Information				
Label	1	2	3	4
Type	Conductor	Surface	Intermediate	Production
OD	20"	13.375"	8.625"	5.500"
WT	0.438"	0.38"	0.352"	0.304"
ID	19.124"	12.615"	7.921"	4.892"
Drift ID	18.936"	12.459"	7.796"	4.767"
COD	21"	14.375"	9.625"	6.050"
Weight	94 lb/ft	54.5 lb/ft	32 lb/ft	17 lb/ft
Grade	H-40, BT&C	J-55, ST&C	J-55, BT&C	M95-110, LT&C
Depth Set	315'	1,783'	3,425'	12,400'
Hole Size	26"	17.500"	12.250"	7.875"
Cement	100 sx + 350 sx HLC + 300 sx "C" + 17 sx	1,050 sx HLC + 300 sx "C" (circ 152 sx)	1st: 420 sx HLC + 250 sx "C" (circ 60 sx) 2nd: 600 sx HLC + 100 sx "C" (circ 110 sx)	2,100 sx
TOC	97'	Surface	Surface	2,000'

LONQUIST

FIELD SERVICE

AUSTIN WIRELINE
HOUSTON WIRELINE

OWL SWD Operating, Inc.

Collinscopy Federal #1 - Temp Abandon

Country: USA

State/Province: New Mexico

County/Parish: Eddy

Location:

Site:

Status:

Survey/STR:

Field:

Serial No:

Texas License F-8952

Well API No: 30-015-33758

Project No: 1155

Date: 7/15/2015

3345 Bee Cave Road, Suite 201
Austin, Texas 78746
Tel: 512 732 9812
Fax: 512 732 9816

Drawn: MMC

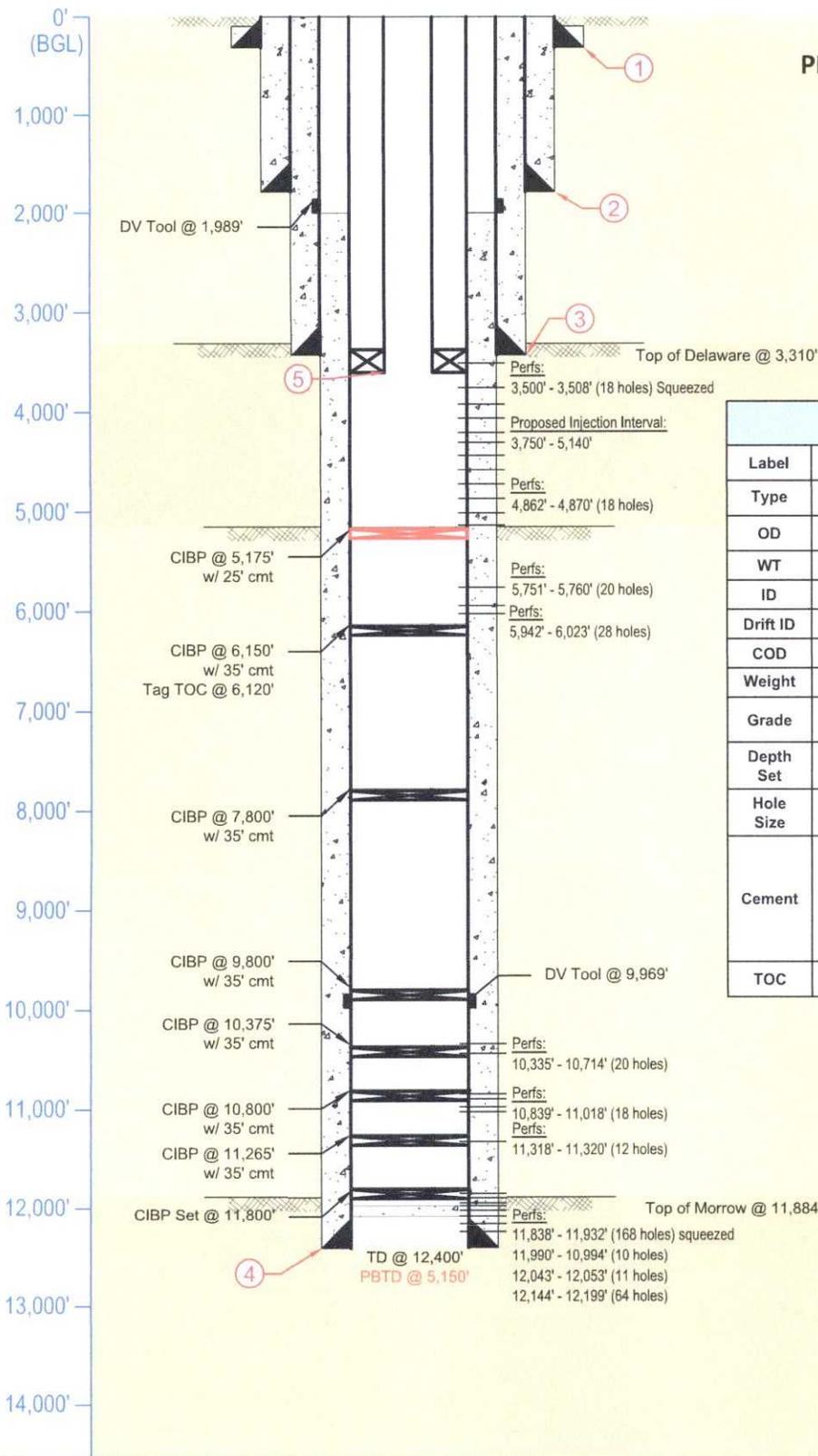
Reviewed: SLP

Approved: SLP

Rev No:

Notes: Configuration for temporarily abandoning wellbore.

PROPOSED SWD CONFIGURATION



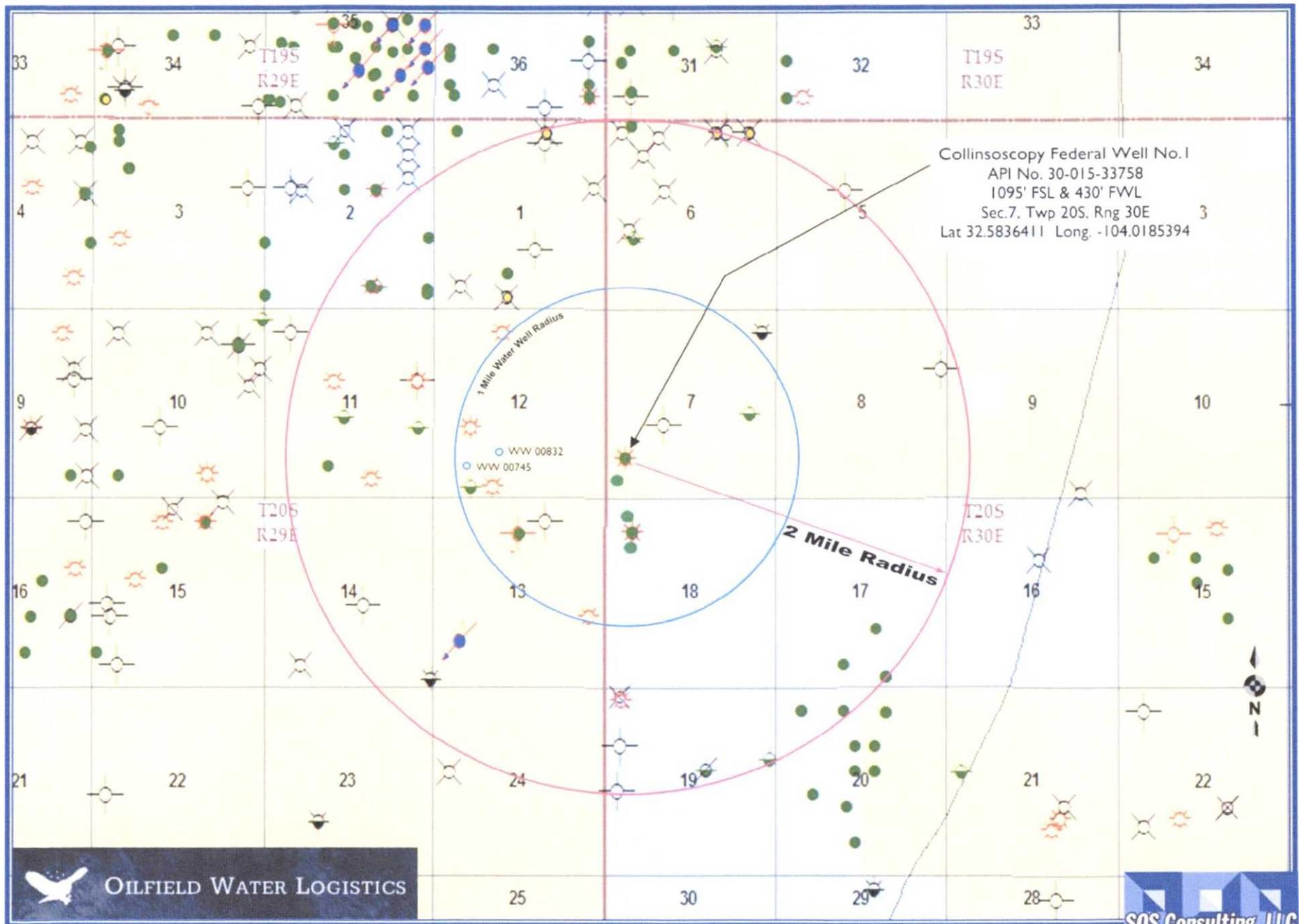
Casing Information				
Label	1	2	3	4
Type	Conductor	Surface	Intermediate	Production
OD	20"	13.375"	8.625"	5.500"
WT	0.438"	0.38"	0.352"	0.304"
ID	19.124"	12.615"	7.921"	4.892"
Drift ID	18.936"	12.459"	7.796"	4.767"
COD	21"	14.375"	9.625"	6.050"
Weight	94 lb/ft	54.5 lb/ft	32 lb/ft	17 lb/ft
Grade	H-40, BT&C	J-55, ST&C	J-55, BT&C	M95-110, LT&C
Depth Set	315'	1,783'	3,425'	12,400'
Hole Size	26"	17.500"	12.250"	7.875"
Cement	100 sx + 350 sx HLC + 300 sx "C" + 17 sx	1,050 sx HLC + 300 sx "C" (circ 152 sx)	1st: 420 sx HLC + 250 sx "C" (circ 60 sx) 2nd: 600 sx HLC + 100 sx "C" (circ 110 sx)	2,100 sx
TOC	97'	Surface	Surface	2,000'

Tubing Information	
Label	5
Type	Production
OD	3.500"
WT	0.216"
ID	3.068"
Drift ID	2.943"
COD	4.500"
Weight	7.7 lb/ft
Grade	L-80, BT&C
Depth Set	3,650'

<p>AUSTIN WICHITA HOUSTON CALGARY</p>	<p>OWL SWD Operating, Inc.</p>	<p>Collinsoscopy Federal #1 - Proposed</p>	
	<p>Country: USA</p>	<p>State/Province: New Mexico</p>	<p>County/Parish: Eddy</p>
	<p>Location:</p>	<p>Site:</p>	<p>Status:</p>
	<p>Survey/STR:</p>	<p>Field:</p>	<p>Serial No:</p>
	<p>Texas License F-8952</p>	<p>Well API No: 30-015-33758</p>	<p>Project No: 1155</p>
<p>3345 Bee Cave Road, Suite 201 Austin, Texas 78746 Tel: 512.732.9812 Fax: 512.732.9816</p>	<p>Drawn: MMC</p>	<p>Reviewed: RSC</p>	<p>Approved: SLP</p>
<p>Rev No:</p>	<p>Notes: Proposed configuration. Well being converted to SWD.</p>		

Collinsoscopy Federal Well No.1 - Area of Review / 2 Miles

(Attachment to NMOCD Form C-108 - Item V)



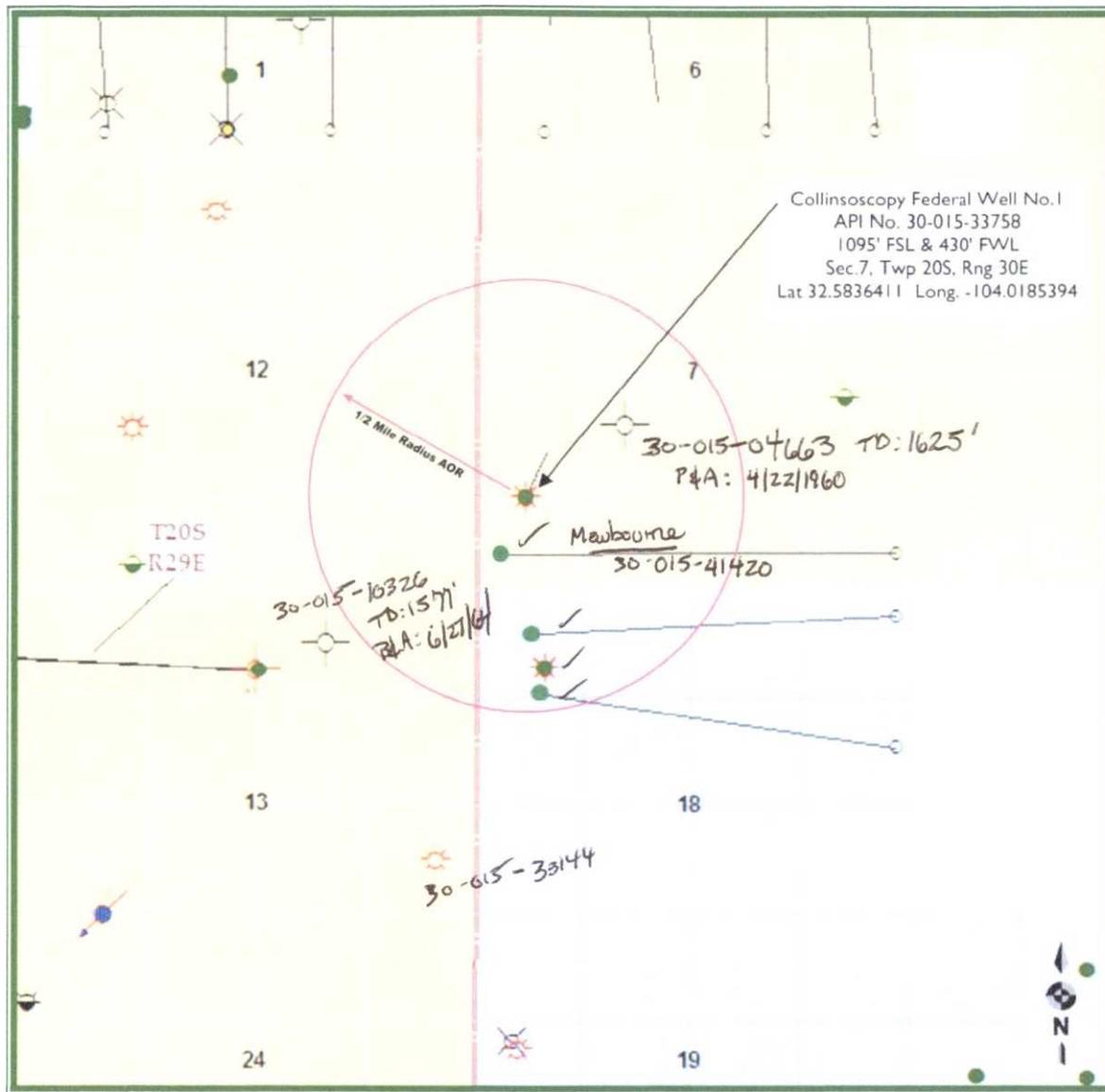
OILFIELD WATER LOGISTICS



SOS Consulting, LLC

Collinsoscopy Federal Well No.1 - Area of Review / Overview Map

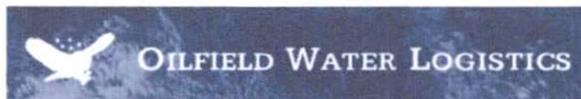
(Attachment to NMOCD Form C-108 - Item V)



~19.7 miles Northeast of
Carlsbad, NM



Eddy County, New Mexico



Form C-108 Item VI - Tabulation of AOR Wells

Top of Proposed DELAWARE Interval 3750'

ALL Wells Penetrate Subject Formation.

API Number	Current Operator	Well Name	Well No.	Type	Lease	Status	ULSTR	Depth	Note
<i>Subject Well</i>									
30-015-33758	[308339] OWL SWD OPERATING, LLC	COLLINSOSCOPY FEDERAL	#001	Gas	Federal	Active	4-7-20S-30E	12,400'	3450' PBTD
<i>TA'd DELAWARE (Orig: STRAWN Gas); 20.0" (26.0" hole) @ 315' w/ 767 sx - Circ.; 13.75" (17.5" hole) @ 1783' w/ 1350 sx - Circ. 152 sx; 8.625" (12.25" hole) @ 3425' w/ 1370sx - Circ. 110 sx; 5.5" (8.75" hole) @ 12,400' w/ 2100 sx - TOC @ DV 1969'.</i>									
<i>Section 7 Wells</i>									
30-015-41420	[14744] MEWBOURNE OIL CO	TWO MESAS 7 MP FEDERAL	#001H	Oil	Federal	Active	4-7-20S-30E	12,770' MD	
<i>HZNTL Bone Spring Perfs: 8850' - 12,725' (Lateral TVD ~8400'+/-); 20.0" (26.0" hole) @ 285' w/ 854 sx - Circ.; 13.75" (17.5" hole) @ 1764' w/ 1300 sx - Circ. 94 sx to pit; 9.625" (12.25" hole) @ 3450' w/ 1330sx - Circ.; 7.0" (8.75" hole) @ 8788' w/ 1000 sx - Circ. 72 sx pit; 4.5" LNR 8514' to 12,738' w/ 20 PKRs & liner hanger.</i>									
<i>Section 18 Wells</i>									
30-015-32958	[229137] COG OPERATING LLC	COINFLIP STATE	#001	Oil	State	Active	1-18-20S-30E	9365' PBTD	
<i>BONE SPRING Perfs: 6602' - 6943'; 20.0" (26.0" hole) @ 300' w/ 650 sx - Circ. 166 sx; 13.75" (17.5" hole) @ 1439' w/ 1100 sx - circ. 170 sx to pit; 8.625" (12.25" hole) @ 3684' w/ 2750sx - Circ. 100 sx; 5.5" (7.875" hole) @ 12280' w/ 2350 sx - Circ. 25 sx; FCBP @ 7400' (PZ Lwr BS); CIBP @ 9400' W/ 35' cap (PZ Strawn); CIBP @ 11,225' w/ 35' cmt cap (PZ Atoka).</i>									
30-015-41937	[229137] COG OPERATING LLC	COINFLIP STATE COM	#002H	Oil	State	Active	1-18-20S-30E	12,343' MD	
<i>HZNTL Bone Spring Perfs: 8624' - 12,243' (Lateral TVD ~8450'+/-); 13.75" (17.5" hole) @ 1535' w/ 1300 sx - Circ.; 9.625" (12.25" hole) @ 3402' w/ 2050sx - Circ. 147 sx; 5.5" w/XO @ 7813' & 7.0" (8.75" hole) @ 12,338' w/ 2550 sx - Circ. 240 sx.; Perf @ 7710' & Sqz w/ 600 sx. Drill out to TD.</i>									
30-015-41938	[229137] COG OPERATING LLC	COINFLIP STATE COM	#003H	Oil	State	Active	1-18-20S-30E	12,607' MD	39205
<i>HZNTL Bone Spring Perfs: 8637' - 12,600' (Lateral TVD ~8450'+/-); 13.75" (17.5" hole) @ 1533' w/ 1850 sx - Circ. 103 sx to pit; 9.625" (12.25" hole) @ 3430' w/ 2400sx - Circ. 235 sx; 7.0" (8.75" hole) @ 12,650' w/ 2450 sx - Circ.</i>									

SUMMARY: 4 wells penetrate proposed disposal interval. 0 P&A.



C-108 ITEM VII – PROPOSED OPERATION

Collinsoscopy Federal SWD Well No.1

Commercial SWD Facility

Upon approval of all permits for SWD, operations would begin within 30 days. Completion of the well operations will take six to seven weeks. Facility construction including installation of the tank battery, berms, plumbing and other and associated equipment would be occurring during the same interval but at a different location from the well. In any event, it is not expected for the construction phase of the project to last more than 60 days, depending on availability of contractors and equipment. At the time of this submittal, and subject to the availability of the drilling contractor, the anticipated start date is February 1, 2016.

Configure for Salt Water Disposal

Prior to commencing any work, an NOI sundry(ies) will be submitted to BLM to configure the well for SWD and will detail the completion workover including all work otherwise described above, any change to the procedure noted herein and to perform mechanical integrity pressure test per OCD test procedures. (Notify BLM/NMOCD 24 hours prior.) The casing/tubing annulus will be monitored for communication with injection fluid or loss of casing integrity.

Operational Summary

The SWD facility will be fenced with only the offloading station located outside so that trucks may access for load disposal 24/7.

The well and injection equipment will be a closed system and equipped with pressure limiting devices and volume meters. The annulus, loaded with an inert, anti-corrosion packer fluid, will be monitored for pressure.

The tanks will be equipped with telemetry devices and visual alarms to alert the operator and customers of full tanks or an overflow situation.

Anticipated daily maximum volume is 8,000 bpd and an average of 7,000 bpd at a maximum surface injection pressure of 750 psi (.2 psi/ft gradient) with an average pressure of approximately 577 psi.

Potential releases will be contained and cleaned up immediately. The operator shall repair or otherwise correct the situation within 48 hours before resuming operations. OCD will be notified within 24 hours of any release greater than 5 bbls. If required, remediation will start as soon as practicable. Operator shall comply with 19.15.29 NMAC and 19.15.30 NMAC and applicable BLM rules, as necessary and appropriate.

C-108 - Item VII.4

Water Analysis - Disposal Zone - DELAWARE

(Representative of Delaware Formation Water in Area)

WATER ANALYSIS REPORT

Company : YATES PET.
 Address : ARTESIA
 Lease : MEDANO BRAVA
 Well : 1
 Sample Pt. : WELLHEAD

Date : 10-22-90
 Date Sampled : 10-19-90
 Analysis No. : 1

ANALYSIS	mg/L		* meq/L	
-----	-----		-----	
1. pH	7.1			
2. H2S	POS			
3. Specific Gravity	1.085			
4. Total Dissolved Solids		115832.4		
5. Suspended Solids		NR		
6. Dissolved Oxygen		NR		
7. Dissolved CO2		NR		
8. Oil In Water		NR		
9. Phenolphthalein Alkalinity (CaCO3)				
10. Methyl Orange Alkalinity (CaCO3)				
11. Bicarbonate	HCO3	207.0	HCO3	3.4
12. Chloride	Cl	68799.0	Cl	1940.7
13. Sulfate	SO4	1750.0	SO4	36.4
14. Calcium	Ca	1480.0	Ca	73.0
15. Magnesium	Mg	268.2	Mg	22.1
16. Sodium (calculated)	Na	43328.2	Na	1884.7
17. Iron	Fe	0.0		
18. Barium	Ba	0.0		
19. Strontium	Sr	0.0		
20. Total Hardness (CaCO3)		4800.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter	Compound	Equiv wt X meq/L	= mg/L
+-----+	+-----+	+-----+	+-----+
74: *Ca <----- *HCO3	Ca (HCO3)2	81.0	3.4
----- /----->	CaSO4	68.1	36.4
22: *Mg -----> *SO4	CaCl2	55.5	34.0
----- <----- /	Mg (HCO3)2	73.2	
1885: *Na -----> *Cl	MgSO4	60.2	
+-----+	MgCl2	47.6	22.1
Saturation Values Dist. Water 20 C	NaHCO3	84.0	
CaCO3	Na2SO4	71.0	
CaSO4 * 2H2O	NaCl	58.4	1884.7
BaSO4			110139
13 mg/L			
2090 mg/L			
2.4 mg/L			

REMARKS:

Petrolite Oilfield Chemicals Group

Respectfully submitted,
 L MALLETT

C-108 - Item VII.4

Water Analysis - Source Water - BONE SPRING



Laboratory Analysis
Endurance

Sample Date: 1/31/2014

Requested by: T. Ratliff

Jazzmaster 17 State #4H

Lea Co. NM

		Water Analysis Measurements		Cations (+)		Anions (-)	
					mg/L		mg/L
Oxygen (mg/L)	1.00	Oil in Water (ppm)	n/a	Barium (Ba)	0	Carbonate (CO ₃)	0
Carbon Dioxide (mg/L)	699.16	Specific Gravity	1.150	Calcium (Ca)	16.440	Bicarbonate (HCO ₃)	36.60
Hydrogen Sulfide (mg/L)	0.0	Total Dissolved Solids (TDS)		Magnesium (Mg)	380	Chloride (mg/L)	118.520
pH	5.7	(mg/L) _{calc}	189.969	Sodium (Na) _{calc}	54.270	Sulfate (SO ₄)	319
Temperature °F	73	Total Hardness (mg/L)	18.000	Iron (Fe)	3.00		
				Manganese (Mn)	0.00		

Scaling Potential: Stiff Davis Scale Indicator (SDI)

	1/31/2014								
80° F	0.1								
120° F	--								
200° F	--								

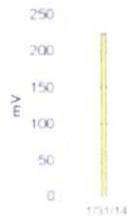
Negative SDI = no scaling potential Positive SDI = scaling potential (scale can form and precipitate) SDI close to zero = borderline scaling potential

Corrosion Potential: ORP Analysis (mV)

1/31/2014									
224.1									

Corrosion Potential Analysis

Negative numbers indicate the potential for severe corrosion.



Red & Negative Corrosion
Yellow & Positive Scale

C-108 – Item VIII

Geologic Information

The Delaware Mountain Group (DMG) of the Delaware Basin comprises of Guadalupian-age arkosic to subarkosic sandstone, siltstone, and detrital limestone that was deposited in deep water, mainly during lowstand and early transgressive sea-level stages. The basin succession is formally divided into the Brushy Canyon, Cherry Canyon, and Bell Canyon Formations (descending order). Stratigraphic divisions within the Delaware Mountain Group are somewhat uncertain due to lithologic similarity and thus a lack of clear boundaries between the major formational intervals.

The Delaware Basin during deposition of the Delaware Mountain Group was a deep-water basin bounded by carbonate-ramp (San Andres and Grayburg) and carbonate-rim (Goat Seep and Capitan) margins that developed on the western edge of the Central Basin Platform, the Northwest Shelf, and the Diablo Platform. The top of the interval is designated by another carbonate, the Lamar limestone included in the Bell Canyon Formation.

The Bell Canyon contains carbonaceous silty sandstone along with clean, fine grained, massive friable sand. The Brushy Canyon and Cherry Canyon intervals consist of the following: (1) very fine to fine-grained arkosic to subarkosic sandstones, mostly massive in character, (2) very fine grained sandstones microlaminated with siltstones, (3) dark-colored organic siltstones (lutites), (4) carbonate beds (limestone or dolomite) more prevalent near shelf margins, and (5) black to dark gray, calcareous shales. Shale is notably rare in the section and is virtually absent from the Brushy Canyon Formation.

Carbonate units (mainly limestone) are present in the upper Cherry Canyon and, especially, Bell Canyon intervals. Porosities and permeabilities in productive intervals range from 12–25% and 1–5 md, respectively, but occasional “streaks” of permeability of up to 200 md are sometimes present. These good porosities indicate a rock that is capable of taking water injection.

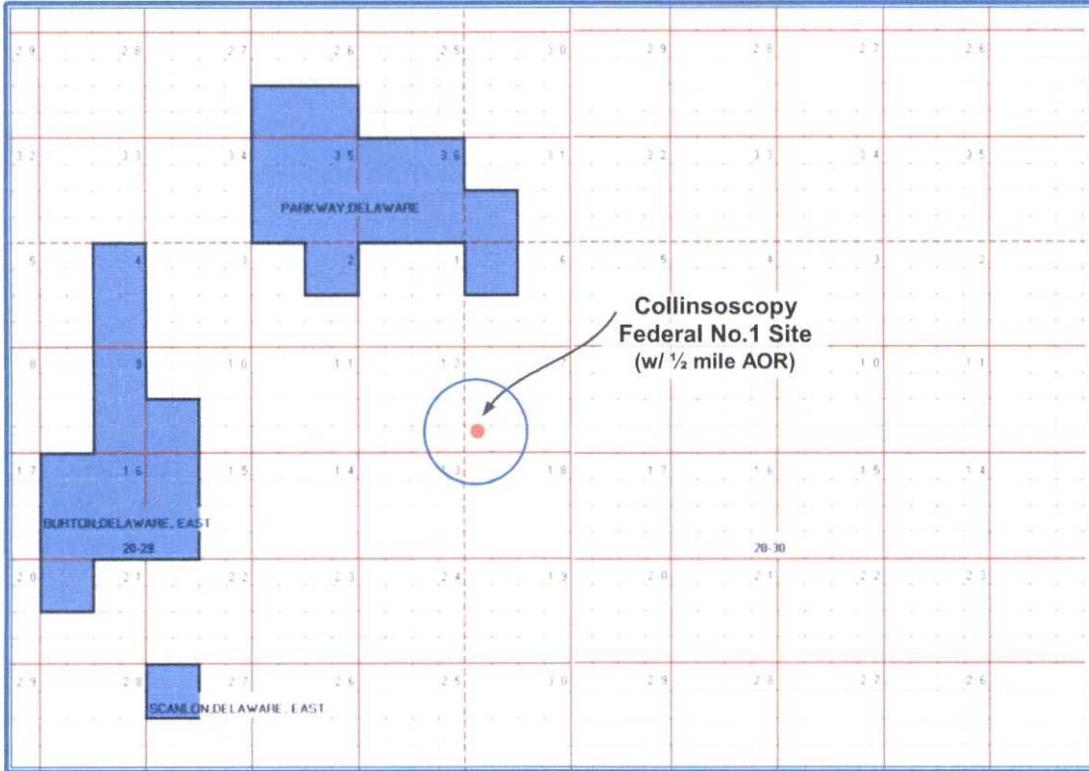
Fresh water in the area is generally available from the Santa Rosa formation. State Engineer’s records show water wells in the area to have an average depth of 100 feet.

There are two (2) water wells located within one mile of the proposed SWD. Analyses will be forward as soon as available.

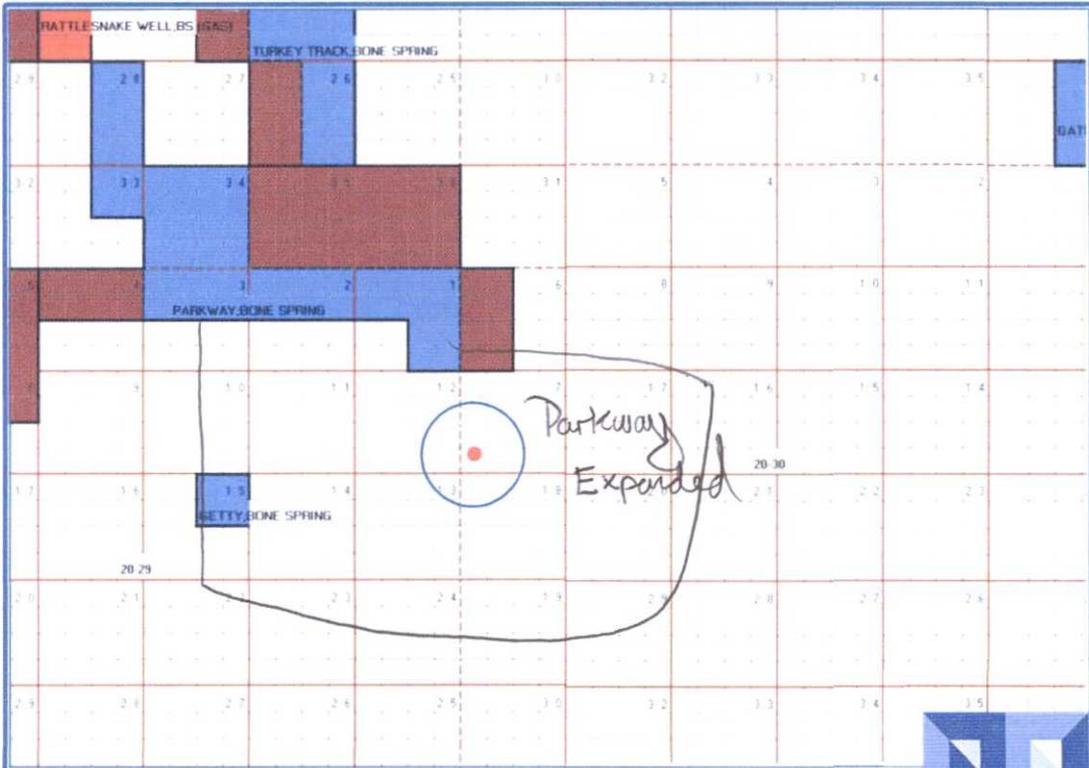
Collinsoscopy Federal Well No.1 – Pool Maps

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)

DELAWARE Pools near proposed SWD.



BONE SPRING Pools near proposed SWD.



C-108 ITEM X – LOGS and AVAILABLE TEST DATA

A log strip from subject well is attached.

LOG STRIP FOLLOWS

HALLIBURTON



DUAL-SPACED NEUTRON SPECTRAL DENSITY

COMPANY <u>MARBOB ENERGY CORPORATION</u> WELL <u>COLLINSOSCOPY FEDERAL No.1</u> FIELD <u>BURTON FLAT; MORROW EAST</u> COUNTY <u>EDDY</u> STATE <u>NM</u>	COMPANY <u>MARBOB ENERGY CORPORATION</u> WELL <u>COLLINSOSCOPY FEDERAL No.1</u> FIELD <u>BURTON FLAT; MORROW EAST</u> COUNTY <u>EDDY</u> STATE <u>NM</u> API No <u>30-015-33758</u> Location <u>1095' FSL & 430' FWL</u> Other Services <u>DLI/MGRD</u> Sect <u>7</u> Trap <u>20S</u> Rge <u>30E</u>
Permanent Datum <u>GROUND LEVEL</u> Elev <u>3310</u> Log measured from <u>K.B.</u> <u>18</u> ft. above perm datum Drilling measured from <u>KELLY BUSHING</u>	Elev.: <u>K.B.</u> <u>3328</u> <u>D.F.</u> <u>3327</u> <u>GL</u> <u>3310</u>
RECEIVED MAY 19 2005 OCU-ARTEBIA	
Date <u>7-FEB-05</u> Run No. <u>ONE</u> Depth - Driller <u>12400</u> Depth - Logger <u>12386</u> Bottom - Logged Interval <u>12300</u> Top - Logged Interval <u>200</u> Casing - Driller <u>8.625 @ 3425</u> Casing - Logger <u>3418</u> Bit Size <u>7.875</u> Type Fluid in Hole <u>BRINE STARCH</u> Dens. Visc. <u>9.9 32</u> Ph Fluid Loss <u>10 N/A</u> Source of Sample <u>FLOW LINE</u> Rm @ Meas. Temp. <u>.089 @ 62 F</u> Rmf @ Meas. Temp. <u>.089 @ 62 F</u> Rmc @ Meas. Temp. <u>N/A @ N/A</u> Source Rmf Rmc <u>MEAS N/A</u> Rm @ BHT <u>0.034 @ 174 F</u> Time Since Circ. <u>02/07 0000</u> Time on Bottom <u>02/07 1015</u> Max. Rec. Temp. <u>174 F @ 12386</u> Equip. Location <u>582 HOBBS</u> Recorded By <u>J. MOUNT</u> Witnessed By <u>B. MAY</u> <u>DOCTOR PROCTO</u>	

— Add here

Service Ticket No.: <u>3478641</u>		API Serial No.: <u>30-015-33758</u>		PGM Version:	
CHANGE IN MUD TYPE OR ADDITIONAL SAMPLES					
Date Sample No.	Type Log	Depth	Scale Up Hole	Scale Down Hole	
Depth - Driller					
Type Fluid					
Dens. Visc.					
Ph Fluid Loss					
RESISTIVITY EQUIPMENT DATA					
Source of Sample	Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other
Rm @ Meas. Temp.					
Rmf @ Meas. Temp.					
Rmc @ Meas. Temp.					
Source Rmf Rmc					
Rm @ BHT					
Rmf @ BHT					
Rmc @ BHT					
EQUIPMENT DATA					
GAMMA			ACOUSTIC		
Run No.	Serial No.	Model No.	Run No.	Serial No.	Model No.
<u>ONE</u>	<u>108590YL</u>	<u>NGRT</u>		<u>AD44YL</u>	<u>SDL_DA</u>
	<u>3.625"</u>	<u>T102-A</u>		<u>4.50"</u>	<u>GAM_GAM</u>
	<u>SCINT</u>			<u>Ce:37</u>	<u>Ca:137</u>
			DENSITY		
Run No.	Serial No.	Model No.	Run No.	Serial No.	Model No.
			<u>ONE</u>	<u>108772YL</u>	<u>DSNT-A</u>
				<u>3.625"</u>	<u>NEU_NEU</u>
				<u>Am241Be</u>	

Length	4"	LSA [Y/N]		Serial No	2549GW	Serial No	DSN-90
Distance to Source	11'	FWDA [Y/N]		Strength	5Ci	Strength	8.5Ci

LOGGING DATA

GENERAL			GAMMA		ACOUSTIC			DENSITY			NEUTRON			
Run	Depth		Speed	Scale		Scale			Scale			Scale		
No.	From	To	Ft/Min	L	R	L	R	Matrix	L	R	Matrix	L	R	Matrix
ONE	12386	3418	REC	0	100				30%	-10%	2.7	30%	-10%	LIME
ONE	3418	200	REC	0	100							30%	-10%	LIME

DIRECTIONAL INFORMATION

Maximum Deviation deg @ KOP
 WELLSITE COORDINATES: 32.35 DEG. NORTH AND 104.01 DEG. WEST

Remarks:
 TOOLSTRING CONFIGURATION: BRID/FLEX/GR/DSN/SDL/FLEX/DLL/MGRD
 ANNULAR HOLE VOLUME CALCULATED USING 5.5" PRODUCTION CASING
 LOGGING INTERVALS AS PER CUSTOMER REQUEST
 NO AFTER SURVEY CALIBRATIONS PERFORMED AS PER CUSTOMER REQUEST
 TD NOT TAGGED ON MAIN PASS AS PER CUSTOMER REQUEST

H.E.S. CREW: A. JURADO, J. RODRIGUEZ
 THANK YOU FOR USING HALLIBURTON ENERGY SERVICES (800)844-8451 HOBBS, NM

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA. CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

HALLIBURTON

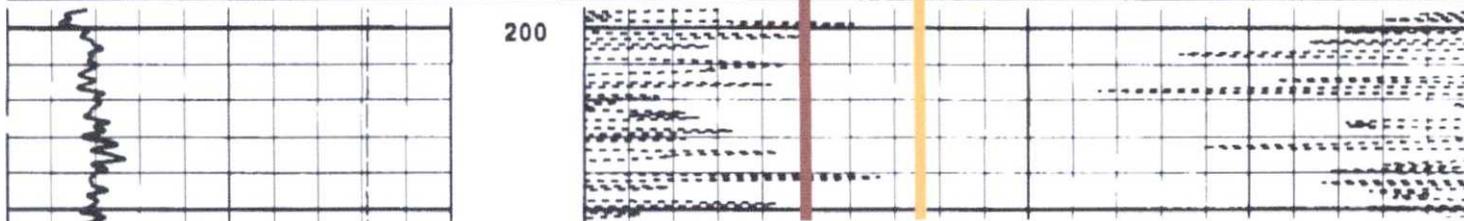
MAIN SECTION (2"=100')

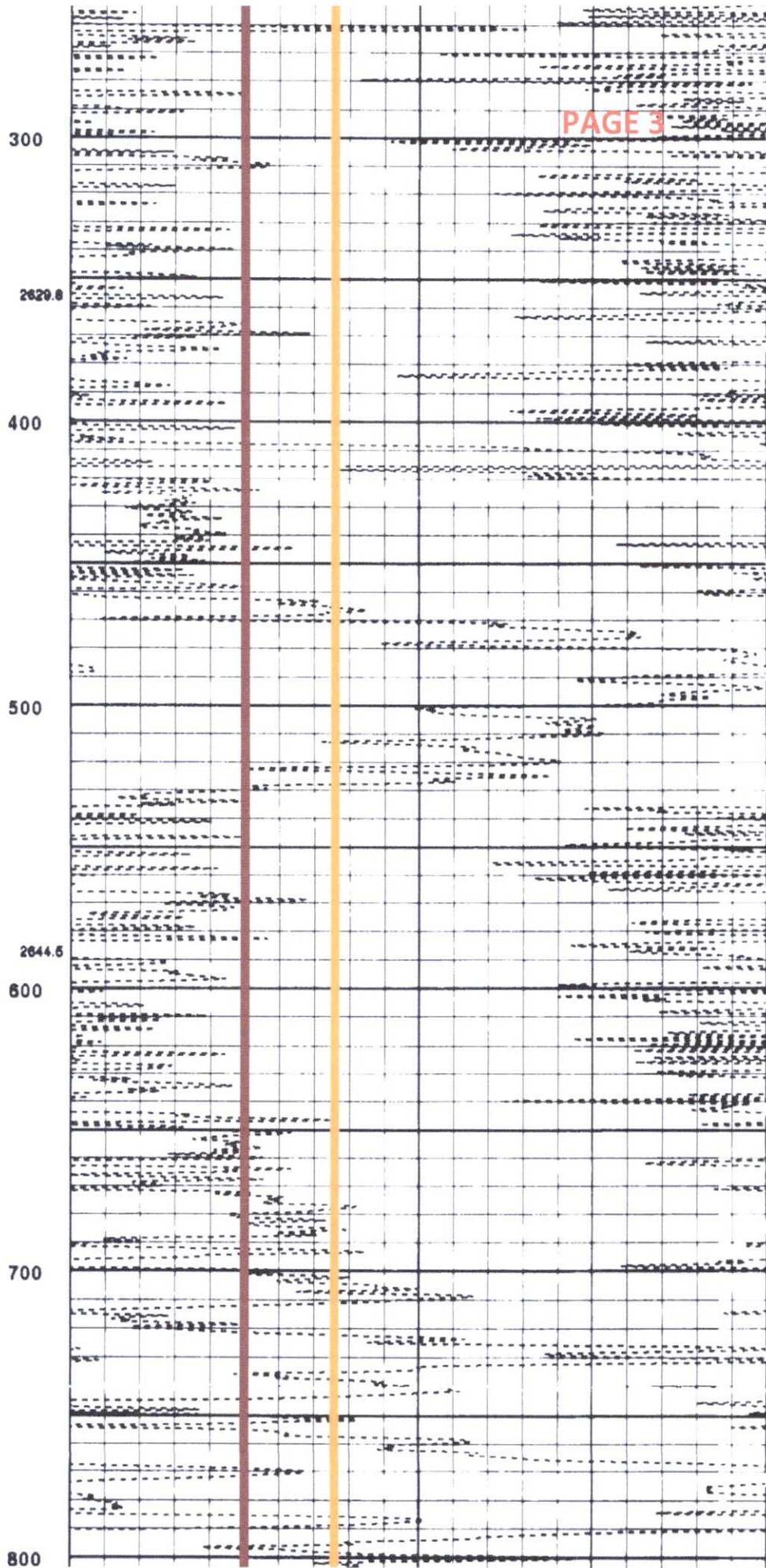
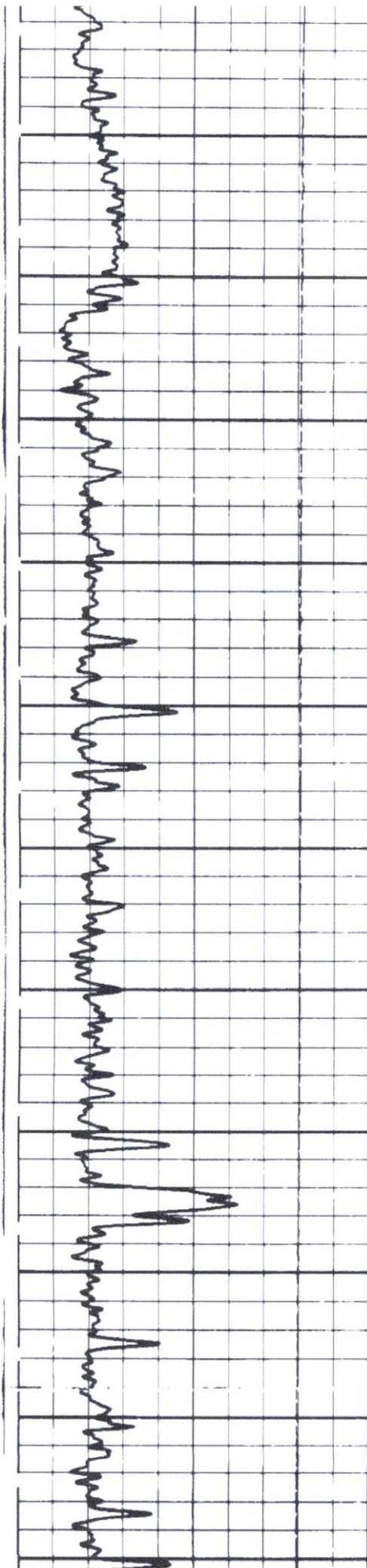


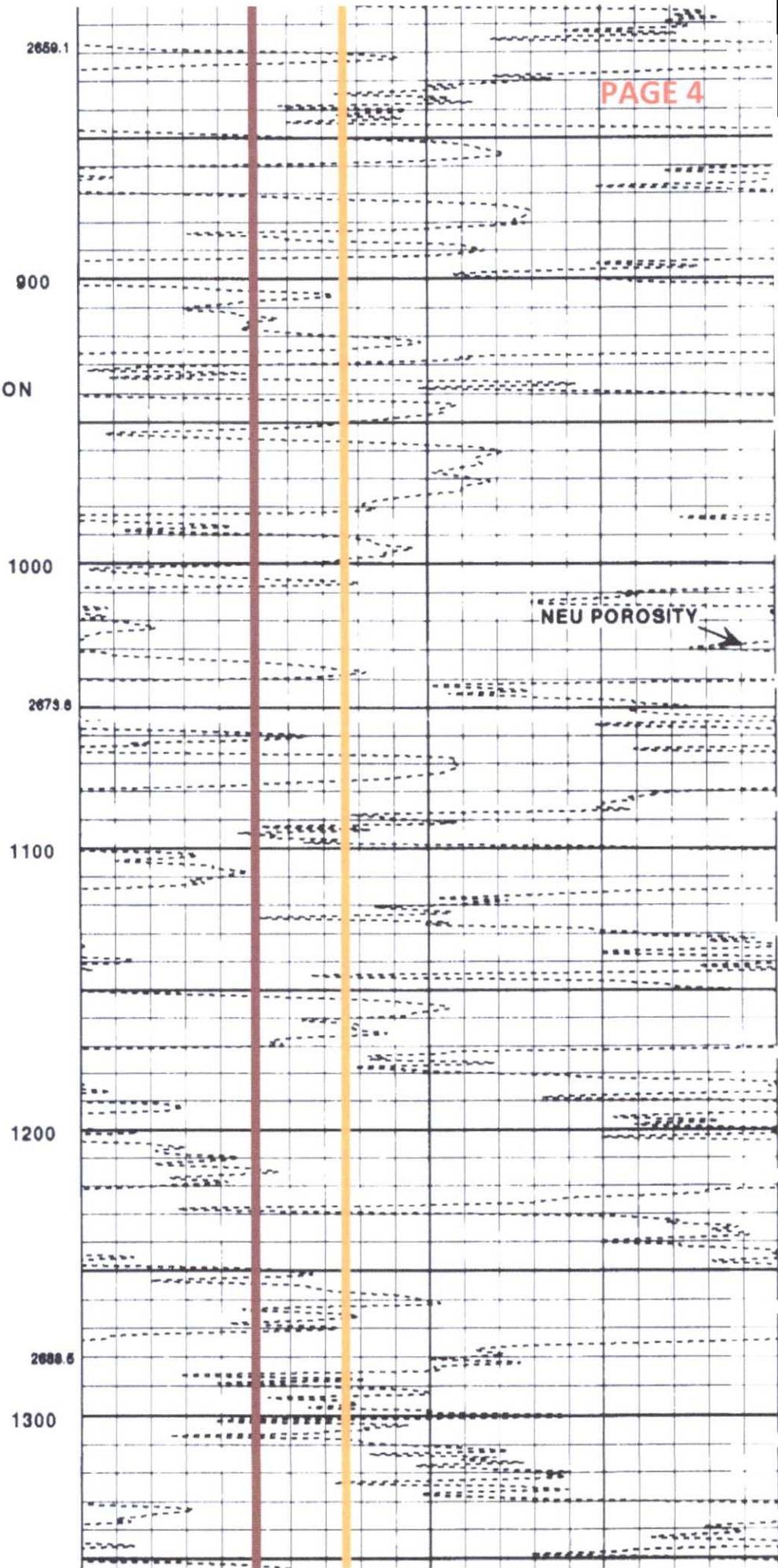
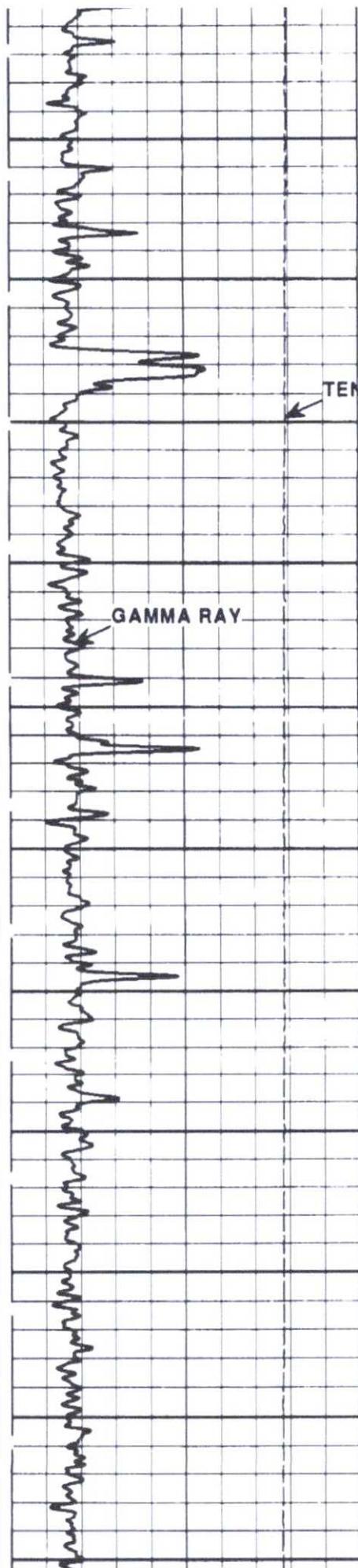
Version No: 8.6 | hc:3.0
 Data File: 0207_0886_s2701.3.cis
 Format File: plot_02_2.spc
 Plot Time: 2005-02-07 17:06:48
 Log Time: 2005-02-07 10:48:08

Top Depth: 193.76
 Bottom Depth: 12388.25

GAMMA RAY	ANN. VOL. >	NEU POROSITY
API 100	30.	% MTX=LIME -10
SDL CALIPER	TIC=10FT3	BULK DENSITY
INCHES 18	<HOLE VOL.	GM/CC 3
NEAR QUALITY	TIC=10F13	PE CORR.
-4.5 .5	1:800	4.5
FAR QUALITY	FT.	DENSITY COR.
4.5 -.5	-5	GM/CC .8
TENSION	-2	
10000 POUNDS 0		







Salado

1400

1500

1600

1700

1800

1900

Bottom of salt

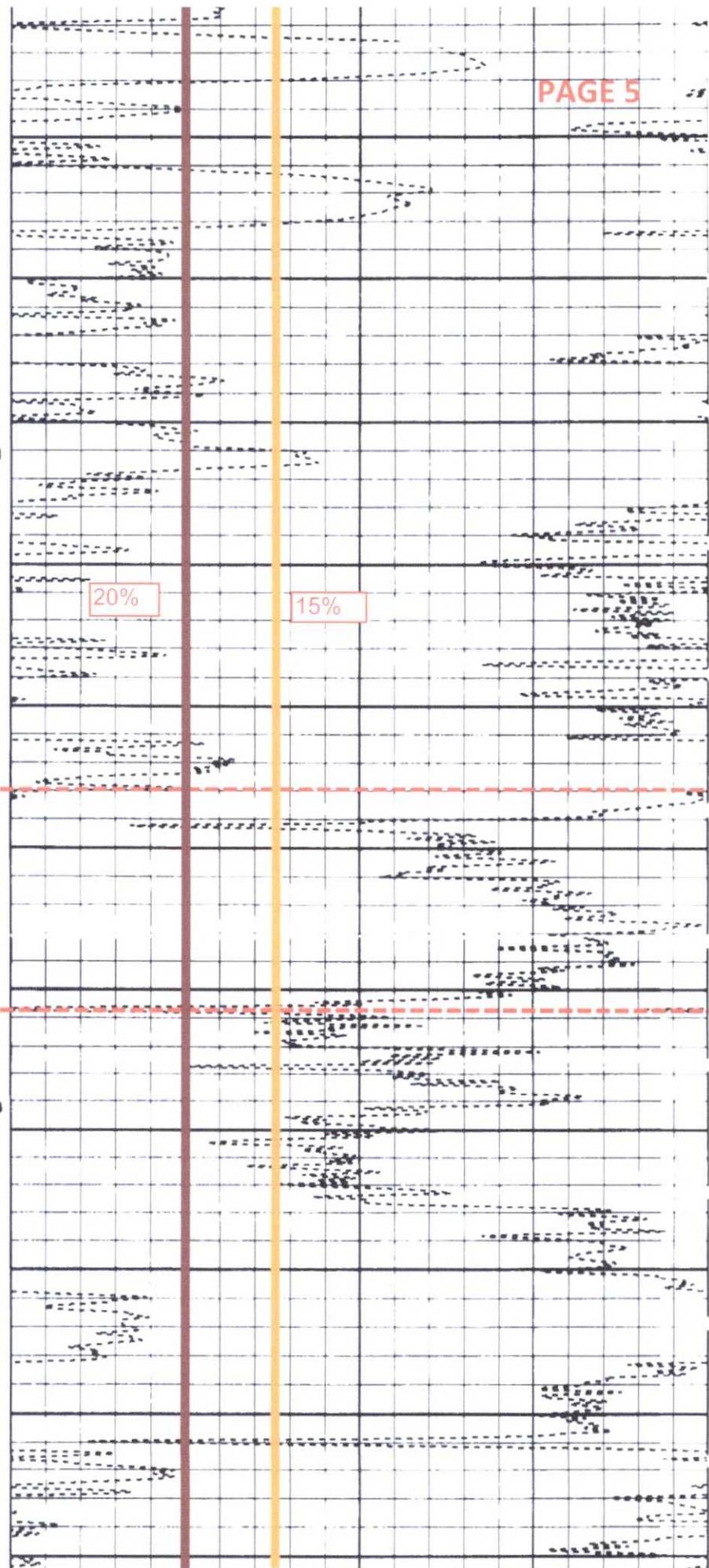
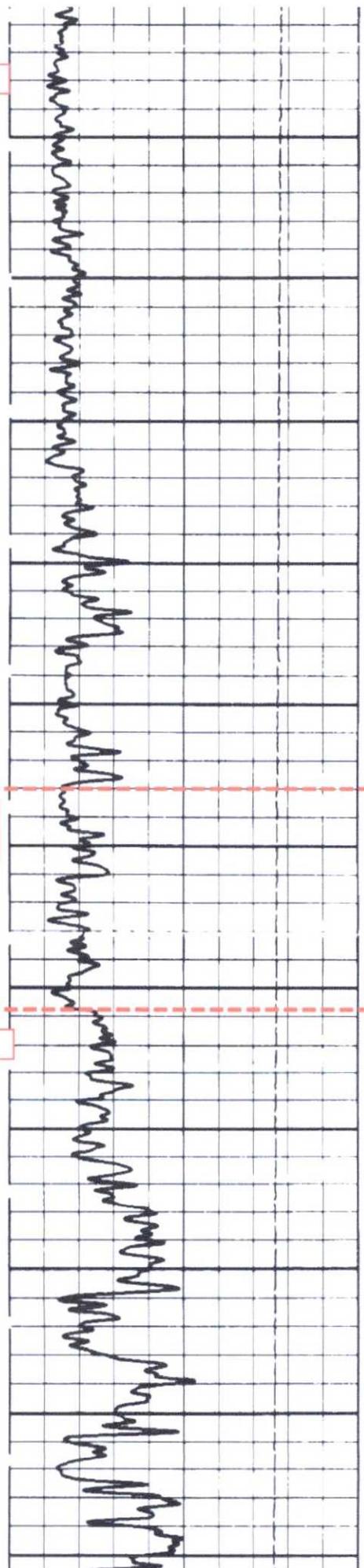
Yates

2703.1

2717.6

20%

15%



Seven Rivers

Capitan Reef

TENSION

GAMMA RAY

IEU POROSITY

2732.4

2000

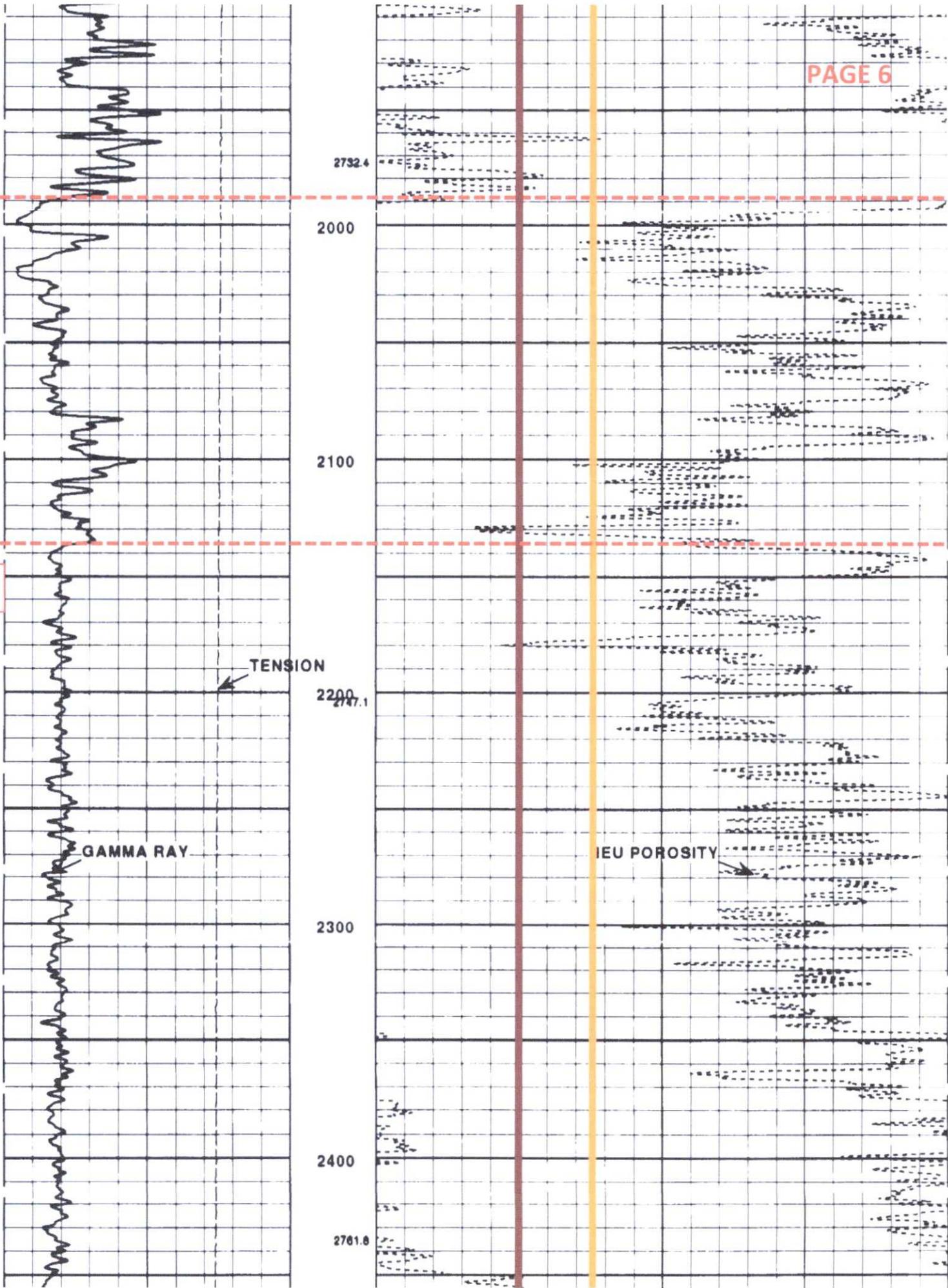
2100

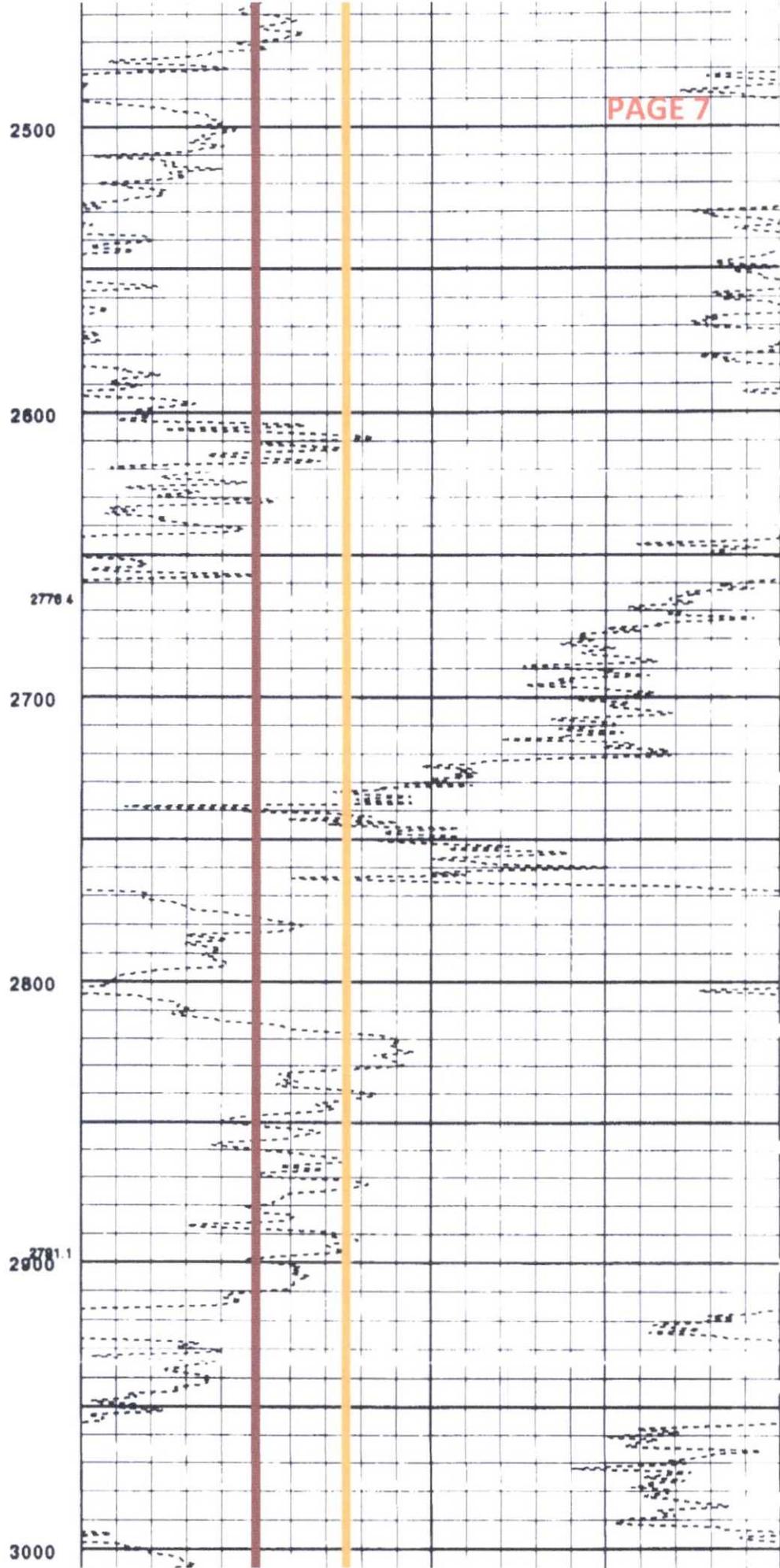
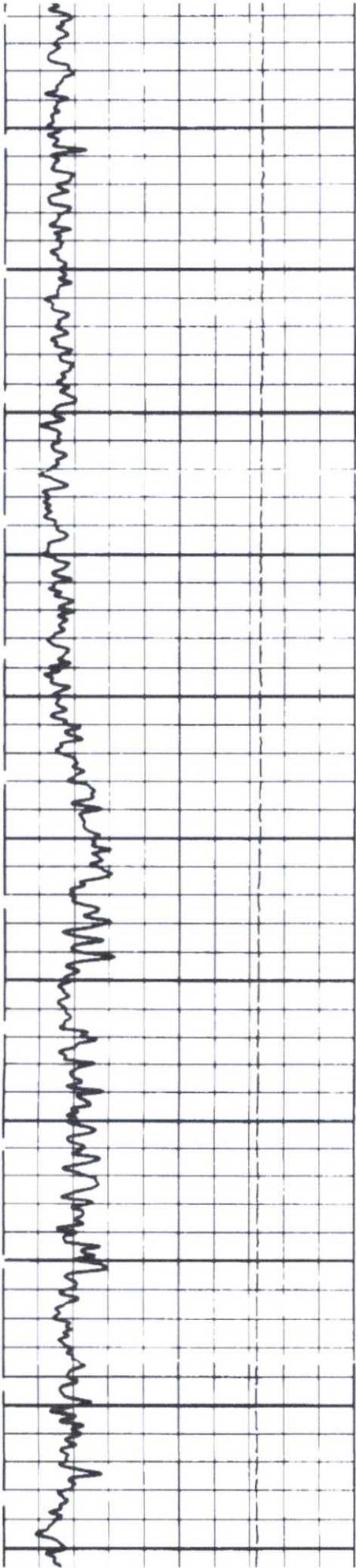
2200
2147.1

2300

2400

2761.0





3100

2805.8

3200

3300

2820.4

3400

CASING

TENSION

FAR QUALITY

NEAR QUALITY

DENSITY COR.

SDL CALIPER

HOLE VOL.

BULK DENSITY

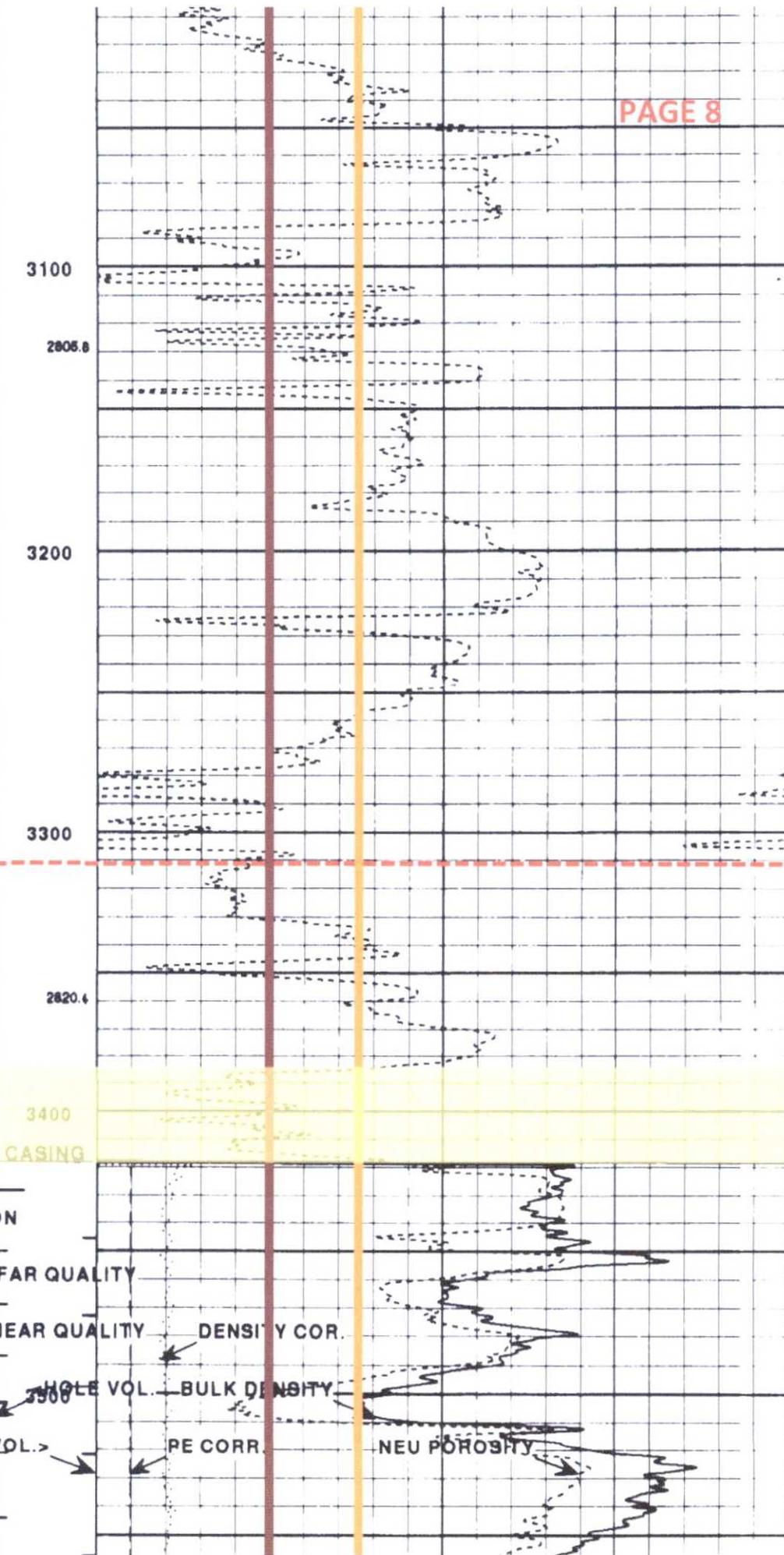
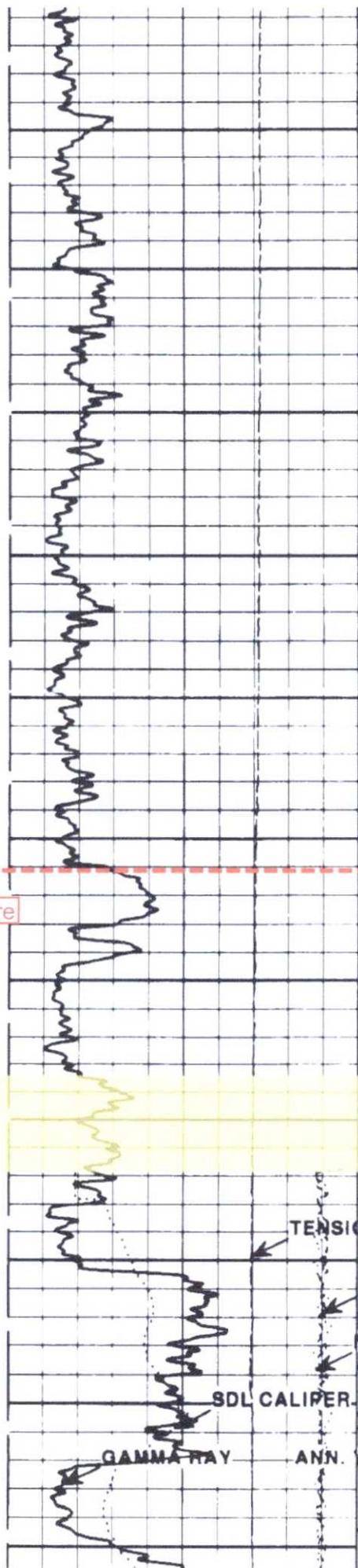
GAMMA RAY

ANN. VOL.

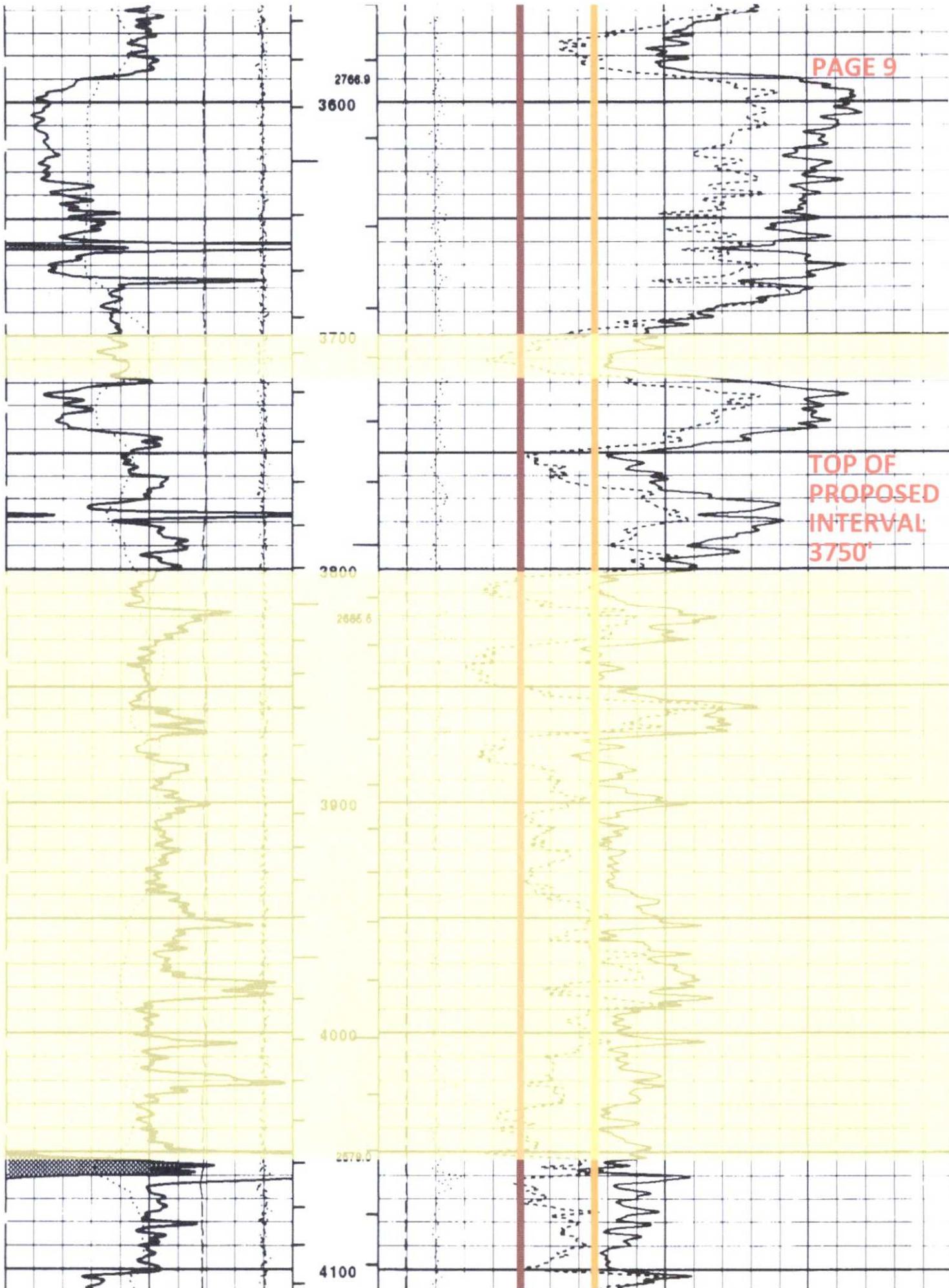
PE CORR.

NEU POROSITY

3500



Delaware



2768.9

3600

3700

3800

2666.6

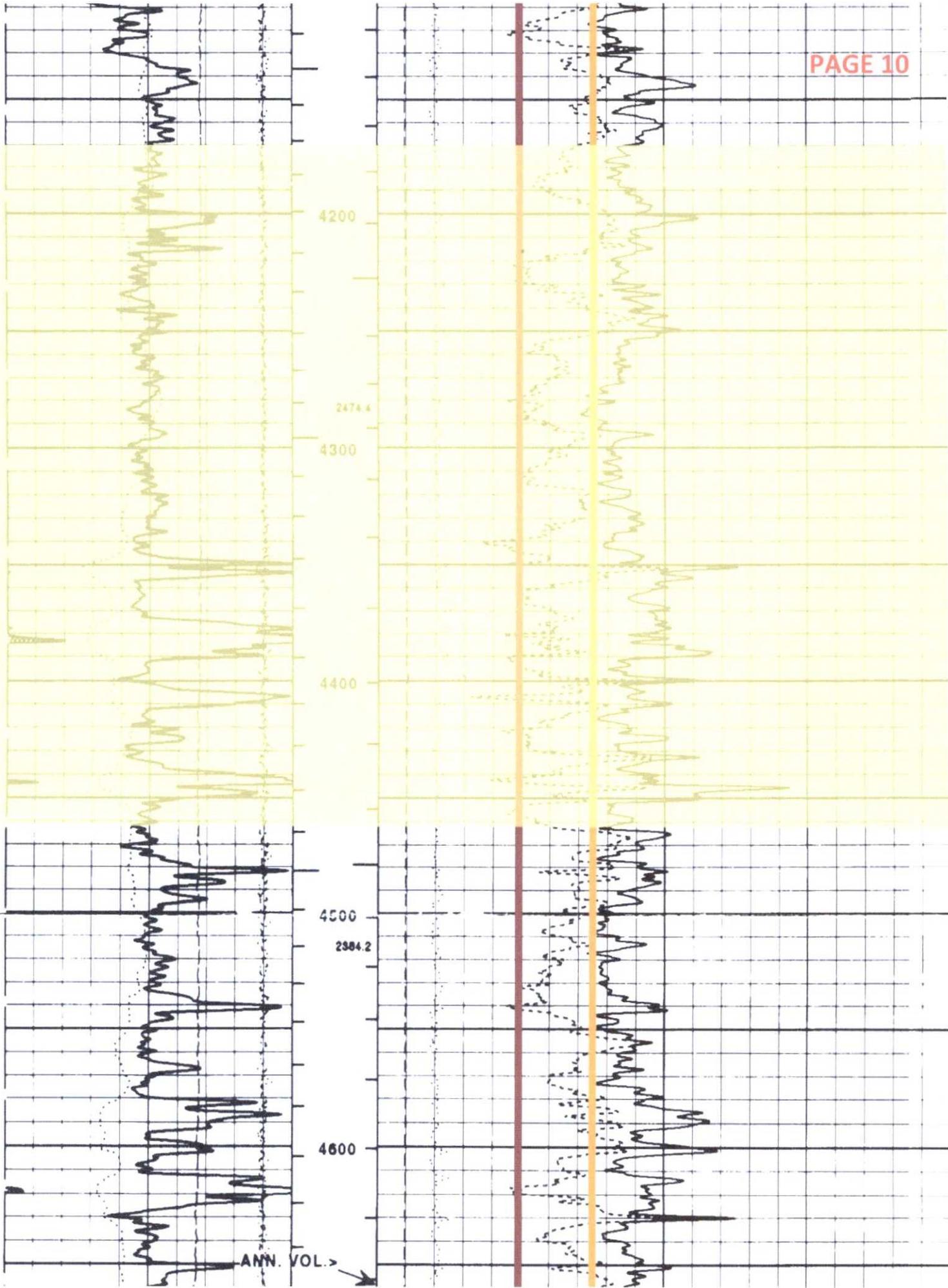
3900

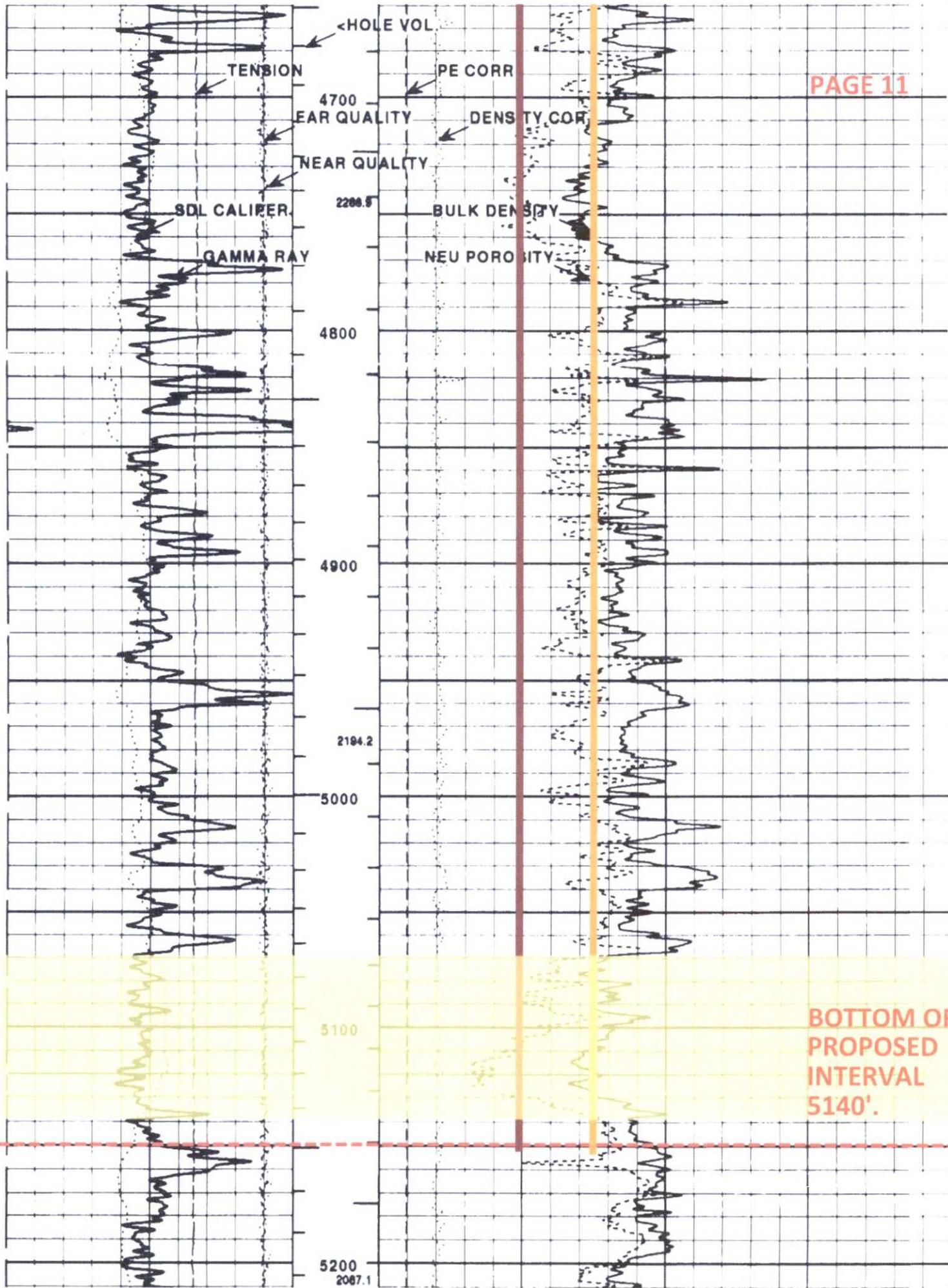
4000

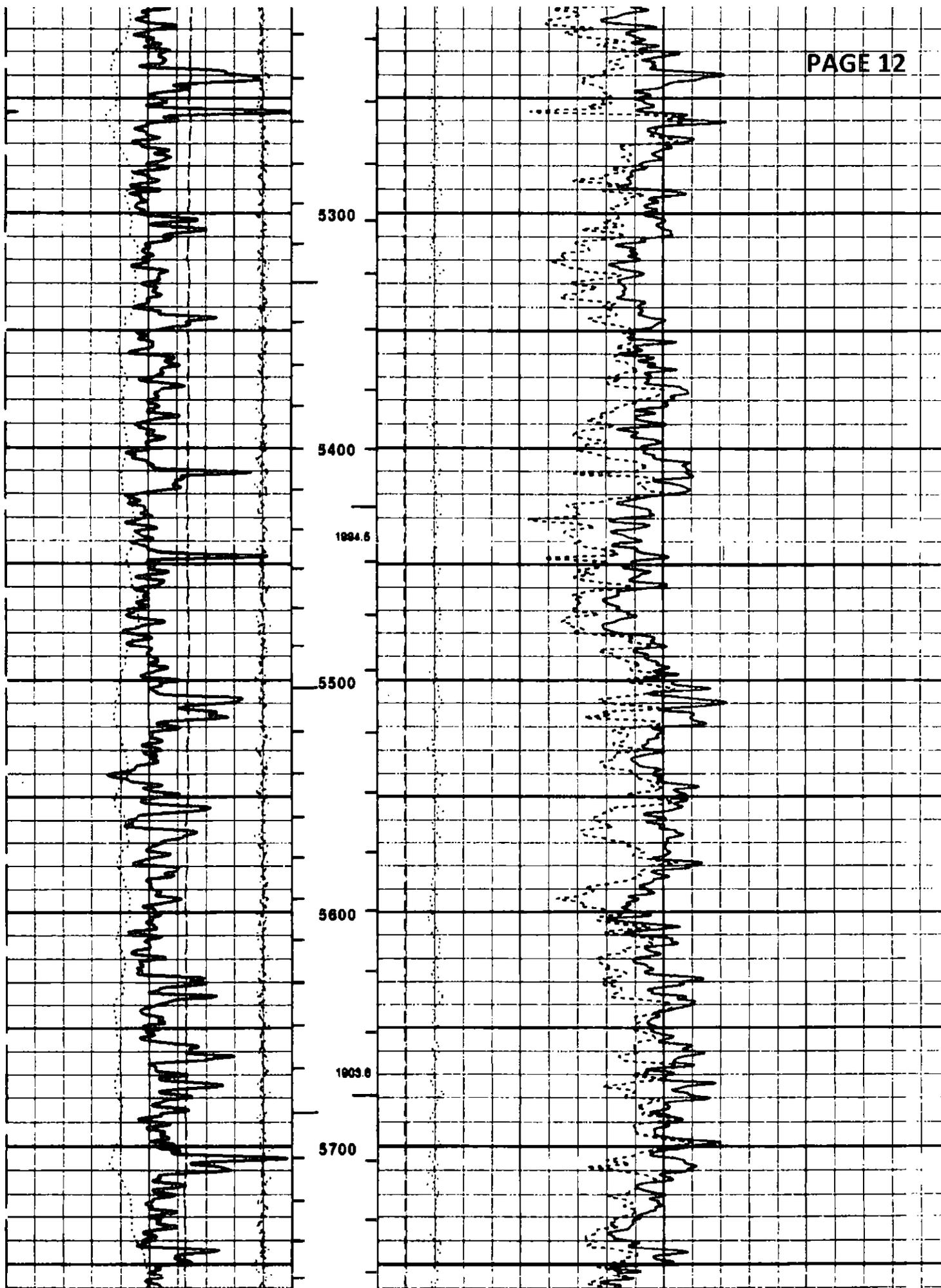
2679.0

4100

TOP OF
PROPOSED
INTERVAL
3750'







C-108 ITEM XII – GEOLOGIC AFFIRMATION

We have examined available geologic and engineering data and have found no evidence of open faults or other hydrologic connection between the disposal interval and any underground sources of drinking water.



Ben Stone, Partner
SOS Consulting, LLC

Project: Owl SWD Operating, LLC
Collinsoscopy Federal No.1
Reviewed 11/23/2015

C-108 ITEM XI – WATER WELLS IN AOR

A search of the State Engineer’s database indicates there are 2 water wells within one mile of the proposed salt water disposal well. The well locations are indicated on the 2 Mile AOR Map. Samples will be taken and the analysis will be forwarded to OCD upon receipt.

(Red rectangle indicates wells located within one mile of subject well.)



**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		
										Sec	Twp	Range					
CP 00740		PRO	3	YATES PETROLEUM CORP.	ED	CP 00740			6416 4	2	3	12	20S	29E	590669	3605509*	
CP 00745		PRO	0	YATES PETROLEUM	ED	CP 00745			Shallow	4	1	3	12	20S	29E	590653	3605782
CP 00832		PLS	3	SNYDER RANCHES	LE	CP 00832			Shallow	2	3	12	20S	29E	590971	3605815*	
CP 01111		PRO	0	CONCHO OIL AND GAS	ED	CP 00745			Shallow	4	1	3	12	20S	29E	590653	3605782
CP 01112		PRO	0	CONCHO OIL & GAS	ED	CP 00745			Shallow	4	1	3	12	20S	29E	590653	3605782
CP 01113		PRO	0	BUREAU OF LAND MANAGEMENT	ED	CP 00745			Shallow	4	1	3	12	20S	29E	590653	3605782

Record Count: 6

PLSS Search:

Section(s): 12, 13 Township: 20S Range: 29E

Sorted by: File Number



**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	
										Sec	Twp	Range				
CP 00834		PLS	3	SNYDER RANCHES	LE	CP 00834			Shallow	2	3	06	20S	30E	592566	3607436*

Record Count: 1

PLSS Search:

Section(s): 6, 7, 8, 18 Township: 20S Range: 30E

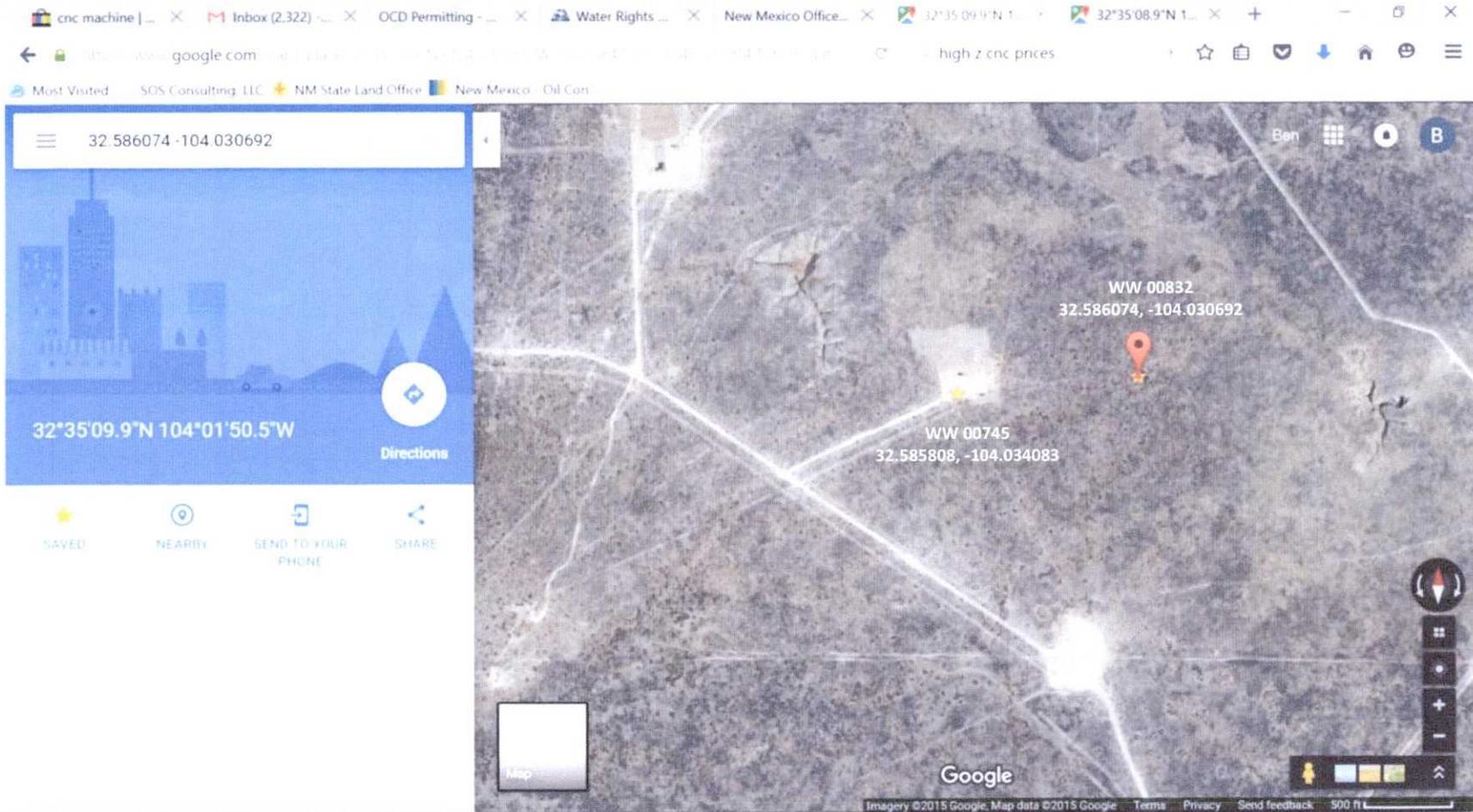
Sorted by: File Number

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ASC 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.

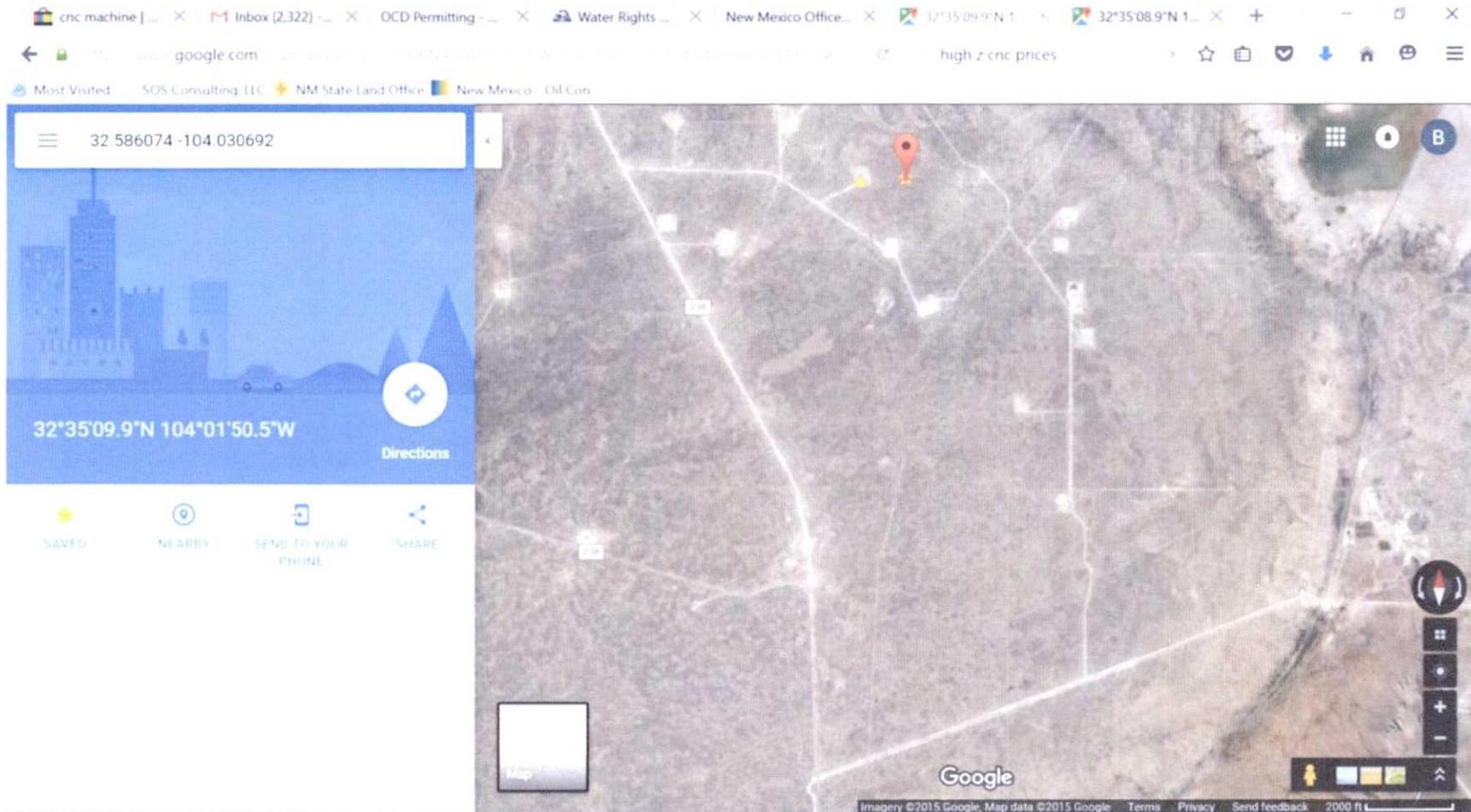
C-108 ITEM XI – WATER WELLS IN AOR

COLLINSOSCOPY FEDERAL NO.1 - WATER WELLS WITHIN ONE MILE



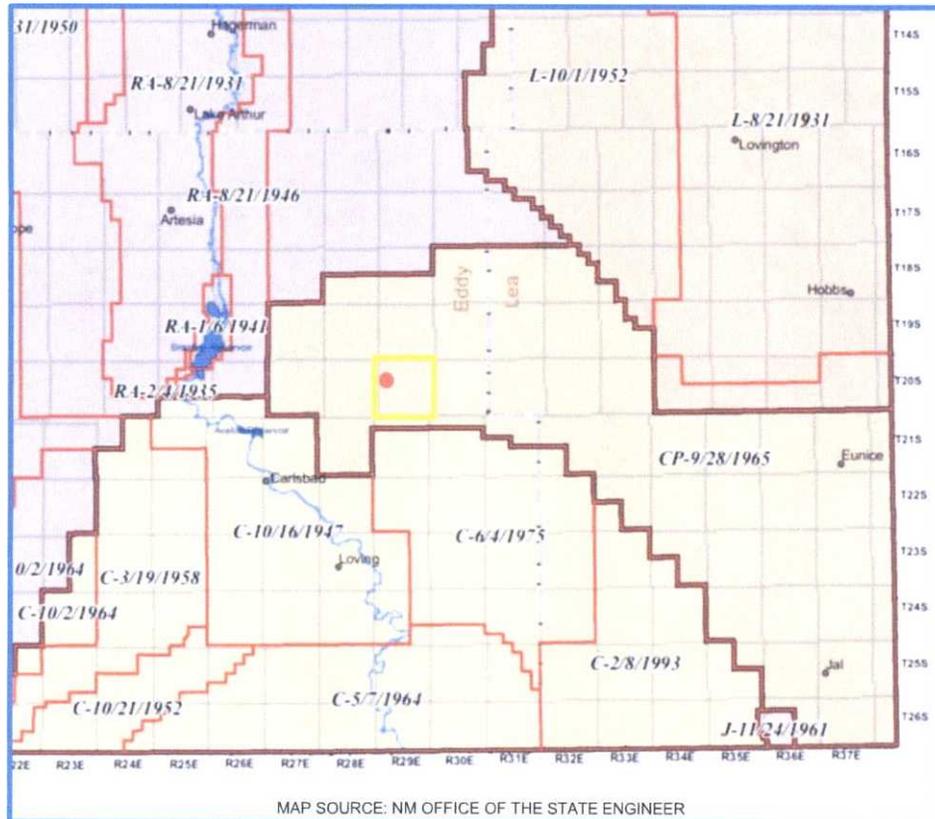
C-108 ITEM XI – WATER WELLS IN AOR

COLLINSOSCOPY FEDERAL NO.1 – LOCATION & ACCESS ROUTES TO WATER WELLS



C-108 - Item XI

Groundwater Basins - Water Column / Depth to Groundwater



The subject well is located within the Capitan Basin, 1-1/2 townships north of the Carlsbad Basin.

Fresh water in the area is generally available from the Santa Rosa formation. State Engineer's records show water wells in 12-20S-29E with an average depth to water at 80 feet.

There are two (2) water wells located within one mile of the proposed SWD. Analyses will be forwarded as soon as available.



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

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

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 6	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 03265 POD1	CUB	ED	1 1 3 20 20S 29E	584052	3602648*	89	52	37						
CP 00698		ED	2 3 1 03 20S 29E	587445	3608005									
CP 00698	C	ED	2 3 1 03 20S 29E	587445	3608005									
✓ CP 00740		ED	2 3 3 12 20S 29E	590669	3605509*	150								
CP 00743 POD1		ED	2 4 05 20S 29E	585319	3607382*	160								
CP 00745		ED	4 1 3 12 20S 29E	590653	3605782	232								
CP 00759		ED	4 2 28 20S 29E	586984	3601360*	205	90	115						
CP 00830		LE	2 1 04 20S 29E	586118	3608193*	120								
CP 00831		LE	2 2 10 20S 29E	588548	3606605*	100								
✓ CP 00832		LE	2 3 12 20S 29E	590971	3605815*	200								
CP 00833		LE	1 2 16 20S 29E	586548	3604978*	100								
CP 00936 POD1		ED	3 4 2 30 20S 29E	583661	3601238*	70	52	18						
CP 01201 POD1		ED	2 2 1 18 20S 29E	582983	3605121	119	49	70						
CP 01202 POD1		ED	4 4 3 26 20S 29E	589577	3600494	173	158	15						

*Yates 3Ac-ft
PO*

*Snyder Ranches
3Ac-ft
PLS*

Average Depth to Water: **80 feet**
Minimum Depth: **49 feet**
Maximum Depth: **158 feet**

Record Count: 14

PLSS Search:

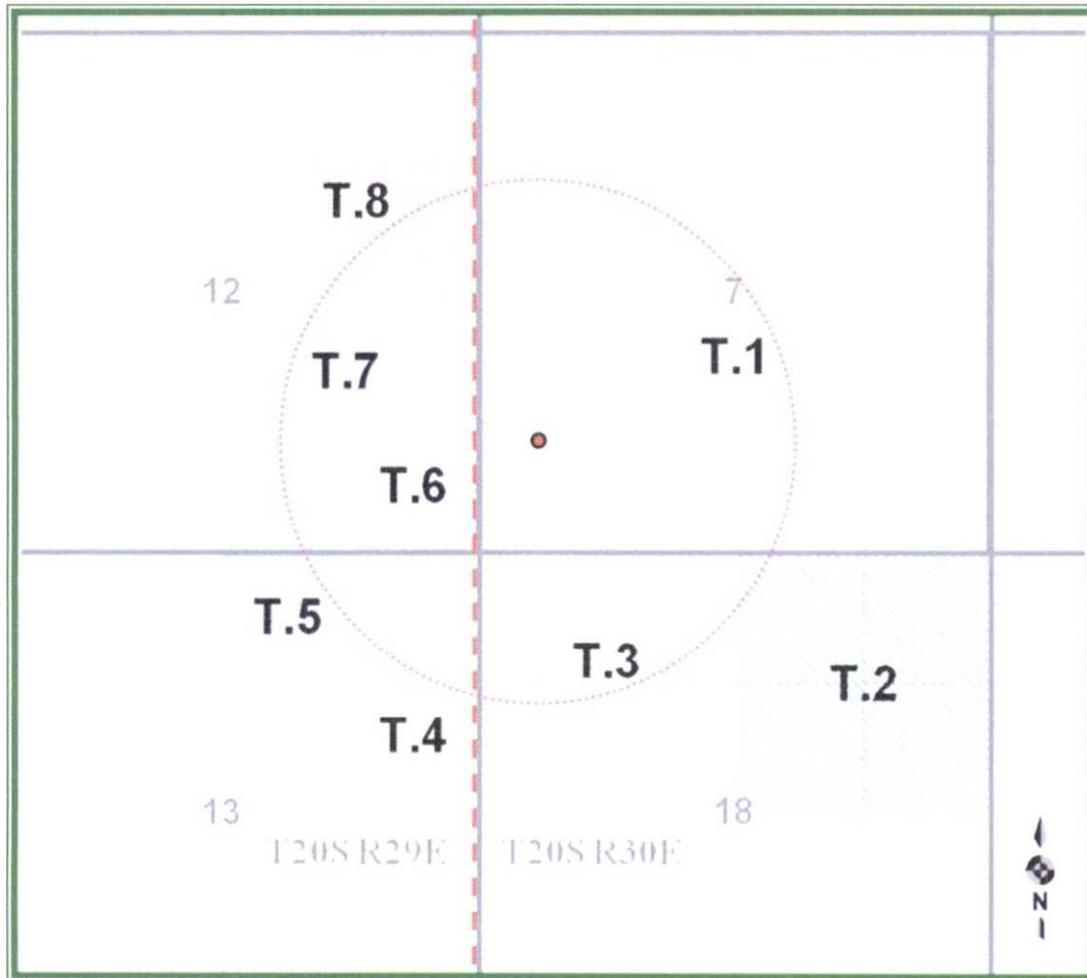
Township: 20S Range: 29E

*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.

Collinsoscopy Federal No.1 - Leasehold Plat

(Attachment to NMOCD Form C-108, Application for Authority to Inject.)



Owl SWD Operating, LLC

LEGEND

- T.1 – NMNM-112273 – COG Operating, LLC
- T.2 – V0-8444-0000 – VF Petroleum
- T.3 – V0-5391-0003 – COG Operating, LLC
- T.4 – NMNM-110350 – COG Operating, LLC
- T.5 – NMNM-0555546 – Occidental Permian, LP
- T.6 – NMNM-0313550 – Occidental Permian, LP
- T.7 – NMNM-0120863 – Occidental Permian, LP
- T.8 – NMNM-015882 – Marigold, LLLP

**C-108 ITEM XIII – PROOF OF NOTIFICATION
INTERESTED PARTIES LIST**

SURFACE OWNER

U.S. DEPARTMENT OF INTERIOR (FedEx'ed Copy)
Bureau of Land Management
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220

OFFSET MINERALS LESSEES and OPERATORS (All Notified via USPS Certified Mail)

BLM Leases NMNM-112273; NMNM-110350; State Lease V0-5391-0003
(T.1, T.3 and T.4 on attached plat.)

Lessee/Operator
1 COG OPERATING, LLC
Attn: Jim Bob Burnett
2208 W. Main St.
Artesia, NM 88210

Operator
2 MEWBOURNE OIL COMPANY
P.O. Box 5270
Hobbs, NM 88241

State Lease V0-8444-0000
(T.2 on attached plat.)

Lessee
3 V-F PETROLEUM CORPORATION
P.O. Box 1889
Midland, TX 79702-1889

BLM Leases NMNM-055546; NMNM-0313550; NMNM-0120863
(T.5, T.6 and T.7 on attached plat.)

Lessee
4 OCCIDENTAL PERMIAN, LTD
P.O. Box 4294
Houston, TX 77210

BLM Lease NMNM-012211
(T.8 on attached plat.)

Lessee
5 MARIGOLD, LLLP
105 S. 4th Street
Artesia, NM 88210

**C-108 ITEM XIII – PROOF OF NOTIFICATION
INTERESTED PARTIES LIST (cont.)**

OFFSET MINERALS OWNERS (All Notified via USPS Certified Mail)

NEW MEXICO STATE LAND OFFICE
Commissioner of Public Lands
310 Old Santa Fe Trail
Santa Fe, NM

- 6 U.S. DEPARTMENT OF INTERIOR
Bureau of Land Management
Oil & Gas Division
620 E. Greene St.
Carlsbad, NM 88220

REGULATORY

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed original and copy)
1220 S. St. Francis Dr.
Santa Fe, NM 87505

NEW MEXICO OIL CONSERVATION DIVISION (FedEx'ed copy)
811 S. First St.
Artesia, NM 88210

NEW MEXICO STATE LAND OFFICE (FedEx'ed copy)
Commissioner of Public Lands
310 Old Santa Fe Trail
Santa Fe, NM



November 30, 2015

NOTIFICATION TO INTERESTED PARTIES
via U.S. Certified Mail

To Whom It May Concern:

Owl SWD Operating, LLC, Dallas, Texas, has made application to the New Mexico Oil Conservation Division to reconfigure and complete for salt water disposal the Collinsoscopy Federal Well No.1. The proposed SWD will be for commercial use. As indicated in the notice below, the well will be located in Section 7, Township 20 South, Range 30 East in Eddy County, New Mexico.

The disposal interval will be through perforations between a maximum of 3750 feet to 5140 feet in the Delaware formation.

Following is the legal notice published in the Artesia Daily Press, Artesia, New Mexico on or about November 24, 2015.

LEGAL NOTICE

Owl SWD Operating, LLC, 8214 Westchester Dr., Ste.850, Dallas, TX 75255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to [reenter, plug back and] permit for salt water disposal its Collinsoscopy Federal Well No.1. The well is located 1095' FSL & 430' FWL in Section 7, Township 20 South, Range 30 East in Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Delaware formation through selectively perforated intervals between a maximum applied for top of 3750 feet to maximum depth of 5140 feet based on log analysis. The maximum injection pressure will be 750 psi surface (0.2 psi/ft gradient) and a maximum rate limited only by such pressure. The well may be step-rate tested upon completion to determine if higher pressures are warranted.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us.

You have been identified as a party who may be interested as an offset lessee or operator.

You are entitled to a full copy of the application. A full copy in PDF format on a mini-CD will be arriving within a few days of this notice. If you do not receive it, please call or email SOS Consulting, LLC at 903-488-9850, info@sosconsulting.us, and a copy will be expedited to you and may also be sent via email if preferred.

Thank you for your attention in this matter.

Best regards,

A handwritten signature in black ink, appearing to read "Ben Stone". The signature is fluid and cursive, with the first name "Ben" and last name "Stone" clearly distinguishable.

Ben Stone, SOS Consulting, LLC
Agent for Owl SWD Operating, LLC

Cc: Application File

C-108 - Item XIV

Proof of Notice (Certified Mail Receipts)

7015 090 0490 5T02 7015 090 0490 5T02 7015 090 0490 5T02 7015 090 0490 5T02 7015 090 0490 5T02

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
 Domestic Mail Only

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

OFFICIAL USE

Certified Mail Fee \$ 3.45

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ <u>2.70</u>
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$.49

Total Postage and Fees \$ 6.74

Sent To
 Street and Ap. **COG OPERATING, LLC**
 City, State, Zi **Attn: Jim Bob Burnett**
2208 W. Main St.
Artesia, NM, 88210 McCloy

PS Form 38

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Extra Services & Fees (check box, add fee as appropriate)

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<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$.49

Total Postage and Fees \$ 6.74

Sent To
 Street and Ap. **OCCIDENTAL PERMIAN, LTD**
 City, State, Zi **P.O. Box 4294**
Houston, TX 77210

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ <u>2.70</u>
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$.49

Total Postage and Fees \$ 6.74

Sent To
 Street and Ap. **MEWBOURNE OIL COMPANY**
 City, State **P.O. Box 5270**
Hobbs, NM 88241

PS Form 38

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
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Certified Mail Fee \$ 3.45

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ <u>2.70</u>
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$.49

Total Postage and Fees \$ 6.74

Sent To
 Street and Ap. **V-F PETROLEUM CORPORATION**
 City, State **P.O. Box 1889**
Midland, TX 79702-1889

PS Form 38

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

OFFICIAL USE

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Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ <u>2.70</u>
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$.49

Total Postage and Fees \$ 6.74

Sent To
 Street and Ap. **MARIGOLD, LLLP**
 City, State **105 S. 4th Street**
Artesia, NM 88210

PS Form 38

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

OFFICIAL USE

Certified Mail Fee \$ 3.45

Extra Services & Fees (check box, add fee as appropriate)

<input type="checkbox"/> Return Receipt (hardcopy)	\$ <u>2.70</u>
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage \$.49

Total Postage and Fees \$ 6.74

Sent To
 Street and Ap. **BUREAU OF LAND MANAGEMENT**
 City, State **Oil & Gas Division**
620 E. Greene St.
Carlsbad, NM 88220

PS Form 38

**C-108 ITEM XIII – PROOF OF NOTIFICATION
Regulatory Filings**

Owl SWD Operating, LLC

Collinsoscopy Federal No.1

C-108 sent 12/03/15

FedEx Tracking Nos.

OCD SF – 7751 1229 7745

OCD Artesia – 7751 1231 6295

BLM – 7751 1226 5794

I hereby certify that a full copy of the subject C-108 application was sent to the applicable regulatory agencies as indicated above.



Ben Stone, Partner
SOS Consulting, LLC
Agent for Owl SWD Operating, LLC

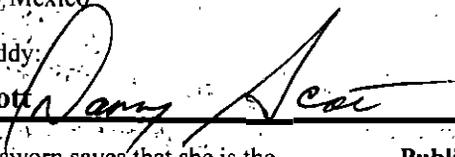
Affidavit of Publication

No. 23741

State of New Mexico

County of Eddy:

Danny Scott



being duly sworn says that she is the **Publisher**

of the Artesia Daily Press, a daily newspaper of General circulation, published in English at Artesia, said county and state, and that the hereto attached

Legal Ad

was published in a regular and entire issue of the said Artesia Daily Press, a daily newspaper duly qualified for that purpose within the meaning of Chapter 167 of the 1937 Session Laws of the state of New Mexico for 1 Consecutive weeks/day on the same

day as follows:

First Publication November 24, 2015

Second Publication _____

Third Publication _____

Fourth Publication _____

Fifth Publication _____

Sixth Publication _____

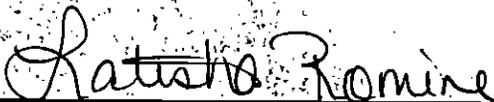
Subscribed and sworn before me this

24th day of November 2015



OFFICIAL SEAL
Latisha Romine
NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 5/12/2019



Latisha Romine

Notary Public, Eddy County, New Mexico

Copy of Publication:

LEGAL NOTICE

Owl SWD Operating, LLC, 8214 Westchester Dr., Ste. 850, Dallas, TX 75255 is filing Form C-108 (Application for Authority to Inject) with the New Mexico Oil Conservation Division for administrative approval to [reenter, plug back and] permit for salt water disposal its Collinsoscopy Federal Well No. 1. The well is located 1095' FSL & 430' FWL in Section 7, Township 20 South, Range 30 East in Eddy County, New Mexico. Produced water from area production will be commercially disposed into the Delaware formation through selectively perforated intervals between a maximum applied for top of 3750 feet to maximum depth of 5140 feet based on log analysis. The maximum injection pressure will be 750 psi surface (0.2 psi/ft gradient) and a maximum rate limited only by such pressure. The well may be step-rate tested upon completion to determine if higher pressures are warranted.

Interested parties wishing to object to the proposed application must file with the New Mexico Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, NM 87505, (505)476-3460 within 15 days of the date of this notice. Additional information may be obtained from the applicant's agent, SOS Consulting, LLC, (903)488-9850 or, email info@sosconsulting.us.

Published in the Artesia Daily Press, Artesia, N.M., Nov. 24, 2015 Legal No. 23741.



C-108 Review Checklist: Received 12/10/15 Add. Request: --- Reply Date: 7/8/16 Suspended: * 12/31/15 (Ver 16)

ORDER TYPE: WFX / PMX / SWD Number: 1648 Order Date: 08/29/14 Legacy Permits/Orders: ---

Well No. 1 Well Name(s): Collinsoscopy Federal Review R-11-P * DMG assessment 9/7/2016

API: 30-0 15-33758 Spud Date: 12/18/2004 New or Old: New (UIC Class II Primacy 03/07/1982)

Footages 1095 FSL / 430 FWL Lot 2A of Unit M Sec 7 Tsp 20S Rge 30E County Eddy

General Location: Clayton Basin; 4 1/2 m north of 180- Pool: Morrow East; Strawn East SWD/Delaware
10 miles E of Carlisle Pool No.: ---

BLM 100K Map: Hobbs & Artesia Operator: OWL SWD Operating LLC OGRID: 308339 Contact: B. Stone / SOS Consulting

COMPLIANCE RULE 5.9: Total Wells: 20 Inactive: 2 Fincl Assur: Yes Compl. Order? No IS 5.9 OK? Yes Date: 08/29/16

WELL FILE REVIEWED Current Status: Active well; Morrow -> Strawn -> Delaware producer [Morrow/previous operator]

WELL DIAGRAMS: NEW: Proposed or RE-ENTER: Before Conv. After Conv. Logs in Imaging: Deep form logs shallower one copy

Planned Rehab Work to Well: Drill out shallow plugs; squeeze perms 3500'-3508'; install CIBP @ 5175; new perms

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Cement (Sx) or Cf	Cement Top and Determination Method
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Surface	2 1/2 / 20	0 to 315	Stage Tool	750 + 10cy RM - not cir. / 56' after RM
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Intern/Prod	1 7/8 / 12 3/8	0 to 1783	None	1350 cir. to surface
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Intern/Prod	12 1/4 / 8 5/8	0 to 3425	DV 1989'	1400 cir. to surface
Planned <input type="checkbox"/> or Existing <input checked="" type="checkbox"/> Prod/Liner	7 5/8 / 5 1/2	0 to 12400	DV 9969'	2100 TS 1000' BGS
Planned <input type="checkbox"/> or Existing <input type="checkbox"/> Liner	Preas	---	---	---
Planned <input checked="" type="checkbox"/> or Existing <input checked="" type="checkbox"/> OH / PERE	Morrow Strawn Delaware	Planned: 3750' - 5140'	Inj Length 1390	Completion/Operation Details:
Injection Lithostratigraphic Units:	(See Attached Injection or Confining Depths (ft) & Units)	Tops	Drilled TD 12400	PBTD 5150
Adjacent Unit: Litho. Struc. Por.		Capitan Reef	2136	NEW TD --- NEW PBTD * 5175 - cont
Confining Unit: Litho. Struc. Por.	+ 440'	Delaware I	3310	NEW Open Hole <input type="checkbox"/> or NEW Perfs <input checked="" type="checkbox"/>
Proposed Inj Interval TOP:	3750	Cherry Canyon	---	Tubing Size 4 1/2 in. Inter Coated? Yes
Proposed Inj Interval BOTTOM:	5140	Brushy Canyon	---	Proposed Packer Depth ---
Confining Unit: Litho. Struc. Por.	+ 1,155'	Bone Spring	6295	Min. Packer Depth (above perms at 3500/3508) (100-ft limit)
Adjacent Unit: Litho. Struc. Por.		Wolfcamp	4789	Proposed Max. Surface Press. 750 psi
				Admin. Inj. Press. 750 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P No Noticed? --- BLM Sec Ord WIPP NA Noticed? NA Salt/Salado T: 682B: 1620 NW: Cliff House fm NA

FRESH WATER: Aquifer Shallow SR / Capitan Max Depth < 300' / < 330' HYDRO AFFIRM STATEMENT By Qualified Person

NMOSE Basin: Capitan CAPITAN REEF: thru and --- NA No. GW Wells in 1-Mile Radius? 2 FW Analysis? No

Disposal Fluid: Formation Source(s) Bone Spring / Delaware Analysis? Yes On Lease Operator Only or Commercial

Disposal Interval: Inject Rate (Avg/Max BWPD): 7000/8000 Protectable Waters? No Source: Sample System: Closed or Open

HC Potential: Producing Interval? No Formerly Producing? Yes Method: Logs DST/P&A Other production history 2-Mile Radius Pool Map

AOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 4 Horizontals? 3

Penetrating Wells: No. Active Wells 4 Num Repairs? 0 on which well(s)? --- Partway BS Play Diagrams? No

Penetrating Wells: No. P&A Wells --- Num Repairs? --- on which well(s)? NA Diagrams? No

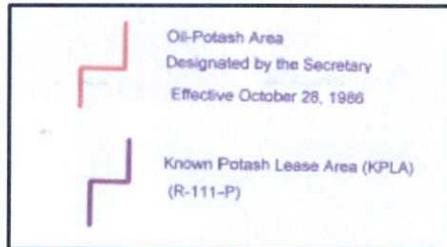
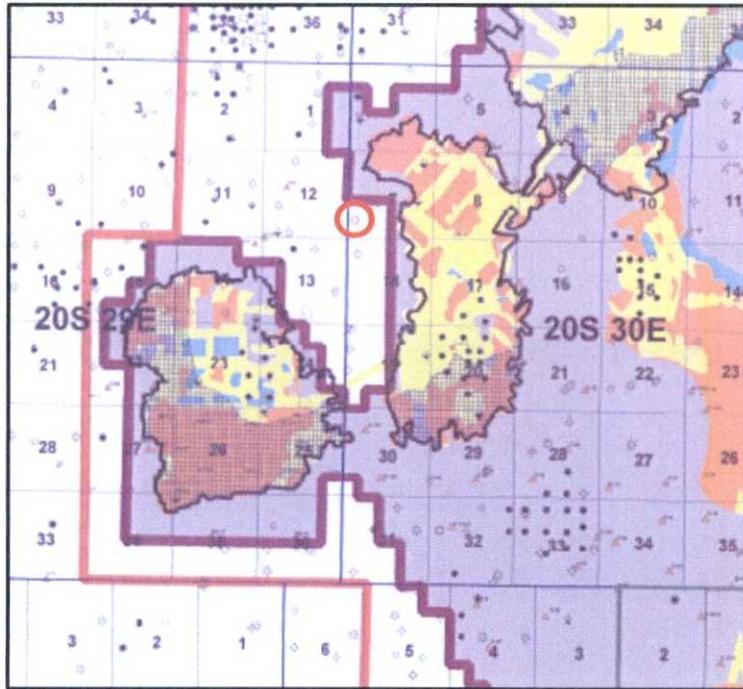
NOTICE: Newspaper Date Nov 24, 2015 Mineral Owner BLM Surface Owner BLM N. Date Nov 30, 2015

RULE 26.7(A): Identified Tracts? Yes Affected Persons: Marrow / COG / Occidental / V-F Petroleum / Managold Date Nov 30, 2015

Order Conditions: Issues: pressure in DMG; commercial injection rate

Add Order Cond: Set MSIP with SRT; injection survey

Potash Resource Area Evaluation
C-108 Application; OWL SWD Operating LLC
Collinscopy Fed No. 1 (30-015-33758)
Proposed Disposal Interval: 3750' to 5140'



30-015-33758-00-00

COLLINSOSCOPY FEDERAL No. 001

Company Name: MARBOB ENERGY CORP

Location: Sec: 7 T: 20S R: 30E Spot:

Lat: 32.583648244872 Long: -104.018535248961

Property Name: COLLINSOSCOPY FEDERAL

County Name: Eddy

String Information

Cement Information

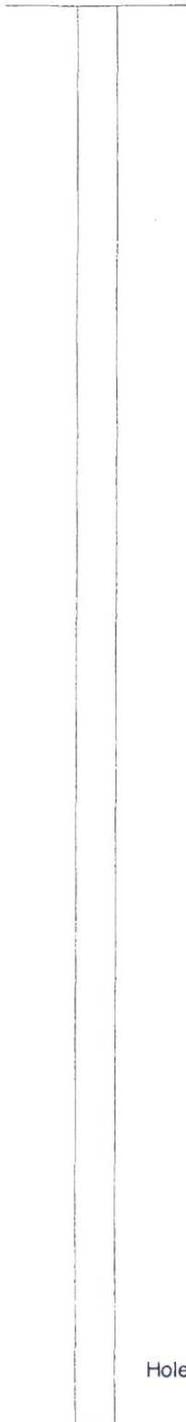
Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Sqz
0	0			

Formation Information

St Code	Formation	Depth
Psal	Salado	682
Pbslt	Base of Salt	1630
Pyts	Yates	1708
Psr	Seven Rivers	1988
Preef	Capitan Reef	2136
Pdel	Delaware	3309
Pbs	Bone Spring	6295
Pwc	Wolfcamp	9789
PPst	Strawn	10818
Ppat	Atoka	11100
Ppmorc	Morrow Clastics	11884

*(Two Mesas 7 MP Fed #1H)
30-015-41420
M-7-20S-30E
- 3729
- 6212*



Hole: Unknown

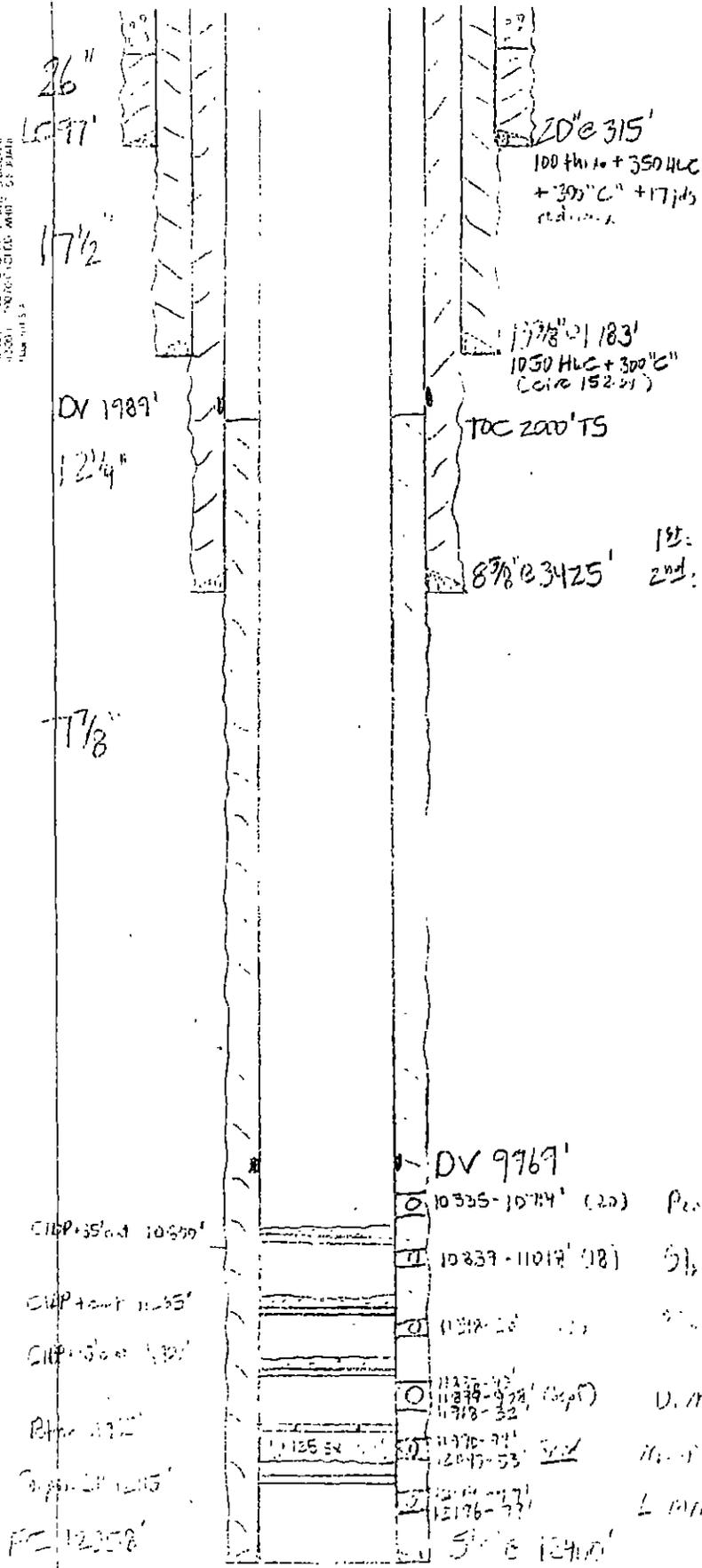
TD:

TVD: 0

PBTD:

Coll. by Fred Hall
 1075' 24" 400' 44" (5' 44") / 1177' 44" 516' 44" (5' 44")
 VI - 7 - 20 - 30
 30-015-

3 - 12 - 12
 2 - 12 - 12
 2 - 12 - 12



20" @ 315'
 100 HLC + 350 HLC
 + 300 "C" + 171 ds
 red. mica

17 1/8" @ 183'
 1050 HLC + 300 "C"
 (Coire 152.21)

TOC 200' TS

8 5/8" @ 3425'
 1st: 420 HLC + 250 "C" (Coire 69.22)
 2nd: 600 HLC + 100 "C" (Coire 119.55)

Size	Vol	Gr	Comp	Coire
20"	94	H40	BTC	315'
13 3/8"	54.5	J55	STC	1783'
8 5/8"	32	J55	BTC	3425'
5 1/2"	17	1175-110	LTC	12400'
23/8"	4.7	L80	ENE	

BLFIRE



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

FORM APPROVED
OM B No. 1004-0137
Expires: March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE- Other instructions on reverse side.

1. Type of Well Oil Well Gas Well Other

OCT 31 2007

2. Name of Operator **Marbob Energy Corporation**

OCD-ARTESIA

3a. Address
PO Box 227, Artesia, NM 88211-0227

3b. Phone No. (include area code)
575-748-3303

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1095 FSL 430 FWL, Sec. 7-T20S-R30E, Lot 4

5. Lease Serial No.
NMNM112273

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No
Collinoscopy Federal #1

9. API Well No.
30-015-33758

10. Field and Pool, or Exploratory Area
Burton Flat; Delaware

11. County or Parish, State
Eddy Co., NM

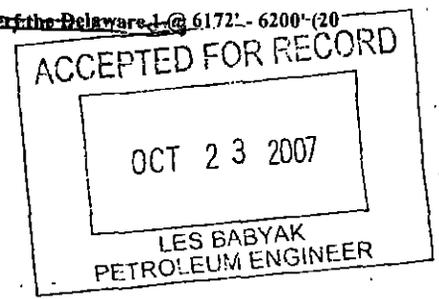
12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input checked="" type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Recompleted in the Delaware I zone as follows:

- 8/27/07 - Set CIBP + 35' cmt @ 10815' ~~Perf the Upper Penn~~ @ 10400' - 10743' (20 shots).
- 8/28/07 - Acdz w/ 5000 gal NE Fe 7 1/2% HCl acid.
- 9/11/07 - Set CIBP + 35' cmt @ 10375'. Set CIBP + 35' cmt @ 9800'. Set CIBP + 35' cmt @ 7800' ~~Perf the Delaware I~~ @ 6172' - 6200' (20 shots).
- 9/12/07 - Acdz w/ 1000 gal NE Fe 7 1/2% HCl.
- 9/14/07 - Frac Delaware I perfs w/ 80K# sand. AIR 26 BPM. AIP 1500#. ISIP 1200#.



14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed) **Diana J. Briggs** Title **Production Analyst**

Signature *[Handwritten Signature]* Date **10/15/2007**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by _____ Title _____ Date _____
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
MAR 10 2010
BLM WYOMING
WOOD ARTESIA
OMB No. 1001-0137
Expires July 31, 2010

RM

OCD-ARTESIA

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on page 2.

1 Type of Well
 Oil Well Gas Well Other

2 Name of Operator
 Marbob Energy Corporation

3a Address
 PO Box 227
 Artesia, NM 88211-0227

3b Phone No. (include area code)
 (575) 748-3303

4 Location of Well (if on lease Sec. T, R, M, or Survey Description)
 1095 430 FWL, Sec. 7-T20S-R30E, Lot 4

5 Lease Serial No.
 NMNM112273

6 If Indian, Allottee, or Tribe Name

7 If Unit or CA Agreement Name and/or No

8 Well Name and No
 Collinsoscopy Federal #1

9 API Well No
 30-015-33758

10 Field and Pool, or Exploratory Area
 Burton Flat, Delaware

11 County or Parish, State
 Eddy Co., NM

12 CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input checked="" type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Plugged back to the Delaware 5 zone as follows:

- 2/16/10 - MIRU, POOH w/ pump & rods.
- 2/17/10 - POOH w/ tbg. Set 5 1/2" H-M plug @ 3700'. Test OK to 2000#. RIH w/ 111 jts 2 3/8" L80 tbg. Set @ 3596'. RIH w/ pump & rods.
- 2/18/10 - Hang well on pump. RDMO. Producing Interval: Delaware 5 @ 3500' - 3508'

14 I hereby certify that the foregoing is true and correct

Name (Printed/Typed) Diana J. Briggs Title Production Manager

Signature  Date March 2, 2010

ACCEPTED FOR RECORD
March 2, 2010

MAR 6 2010

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

D. J. - 3-15-10

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

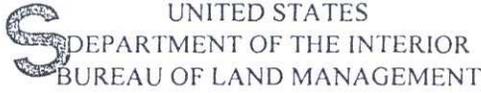
Approved by _____ Title _____

Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 USC Section 1001 AND Title 43 USC Section 1212, make it a crime for any person knowingly and willfully to state any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OCD-ARTESIA

Form 3160-5
(August, 2007)



FORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

SEP - 9 2008

OCD-ARTESIA

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other Instructions on page 2.

1 Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		5 Lease Serial No NMNM112273
2 Name of Operator Marbob Energy Corporation		6 If Indian, Allottee, or Tribe Name
3a Address PO Box 227 Artesia, NM 88211-0227	3b Phone No (include area code) (575) 748-3303	7 If Unit or CA Agreement Name and/or No
4 Location of Well (Footage, Sec., T., R., M., or Survey Description) 1095 430 FWL, Sec. 7-T20S-R30E, Lot 4		8 Well Name and No Collinoscopy Federal #1
		9 API Well No 30-015-33758
		10 Field and Pool, or Exploratory Area Burton Flat; Strawn, East
		11 County or Parish, State Eddy Co., NM

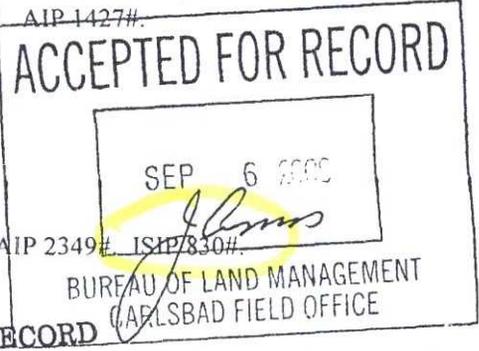
12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input checked="" type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input checked="" type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths or pertinent markers and sands. Attach the Bond under which the work will be performed or provide the Bond No. on file with the BLM/ BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notice shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Recompleted in the Delaware Sand as follows:

- 7/17/08 - Set CIBP + 35' cmt @ 6150'. Perf the Delaware 2 @ 5942' - 6023' (28 shots). Acdz w/ 1500 gal NE Fe 7 1/2% HCl.
- 7/22/08 - Frac the Delaware 2 w/ 29784# sand & 30736 gal fluid. AIR 14.4 BPM. AIP 1427#.
- 7/25/08 - Set CBP @ 5912'. Perf the Delaware 3 @ 5751' - 5760' (20 shots).
- 7/28/08 - Acdz w/ 750 gal NE Fe 7 1/2% HCl.
- 7/30/08 - Set CBP @ 5700'. Perf the Delaware 4 @ 4862' - 4870' (18 shots).
- 7/31/08 - Acdz w/ 500 gal NE Fe 7 1/2% HCl.
- 8/1/08 - Set CBP @ 4810'. Perf the Delaware 5 @ 3500' - 3508' (18 shots).
- 8/4/08 - Acdz w/ 500 gal NE Fe 7 1/2% HCl.
- 8/7/08 - Frac the Delaware 5 w/ 11844# sand & 11437 gal fluid. AIR 9.9 BPM. AIP 2349# ISIP 830#.
- 8/8/08 - Drill out CBP's @ 5912', 5700' & 4810'. Tag TOC @ 6120'.



ACCEPTED FOR RECORD

14 I hereby certify that the foregoing is true and correct

Name (Printed/Typed) Diana J. Briggs	Title Production Analyst
Signature <i>Diana J. Briggs</i>	Date SEP 10 2008
THIS SPACE FOR FEDERAL OR STATE OFFICE USE	

Approved by	Title	Date
Conditions of approval, if any are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 AND Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

OCD Artesia

Form 3160-4
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: March 31, 2007

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. NMNMI12273

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
Two Mesas 7 MP Fed #1H

9. AFI Well No.
30-015-41420

10. Field and Pool, or Exploratory
Parkway Bone Spring 49622

11. Sec., T., R., M., on Block and
Survey or Area Sec 7, T20S, R30E

12. County or Parish
Eddy

13. State
NM

14. Date Spudded 10/31/13

15. Date T.D. Reached 11/29/13

16. Date Completed 01/02/14
 D & A Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
3314' GL

18. Total Depth: MD 12770'
TVD 8436'

19. Plug Back T.D.: MD 12725'
TVD 8436'

20. Depth Bridge Plug Set: MD NA
TVD NA

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
CCL, GR, CNL & CBL

22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit report)
Directional Survey? No Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26"	20" J55	94#	0	285'		854	204	Surface	NA
17 1/2"	13 3/8" J&H	54.5 & 48#	0	1764'		1300	478	Surface	NA
12 1/4"	9 5/8" J55	36#	0	3450'		1330	469	Surface	NA
8 3/4"	7" P110	26#	0	8788'		1000	331	Surface	NA
6 1/8"	4 1/2" P110	13.5#	8514'	12738'		Liner	NA	NA	NA

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8"	7840'							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Bone Spring	6212	12770'	8850' - 12725' MD			Open
B)			8386' - 8436' TVD			
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
8850' - 12725'	Frac w/298,923 gals SW, 294,075 gals 20# Linear Gel, 808,727 gals 20# XL gel carrying 106,036# 100 Mesh, 1,655,827# 20/40 white sand & 401,092 20/40 SB Excel sand.

RECEIVED
FEB 25 2014
NMOC D ARTESIA

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
01/02/14	02/20/14	24	→	239	618	1499	43.4	0.8158	Pumping
Choke Size	Tbg. Press Flwg. SI	Csg. Press. 220	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
NA	SI 370	220	→	239	618	1499	2585	Producing	

ACCEPTED FOR RECORD

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

FEB 22 2014

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

* (See instructions and spaces for additional data on page 2)

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Cwt. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Cwt. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				T. Salt	400'
				B. Salt	1558'
				Yates	1760'
				Capitan	2064'
				Delaware	3729'
				Bone Spring	6212'

32. Additional remarks (include plugging procedure):

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- Electrical/Mechanical Logs (1 full set req'd.)
 Geologic Report
 DST Report
 Directional Survey
 Sundry Notice for plugging and cement verification
 Core Analysis
 Other: Comp sundry, Dev Rpt, C104, Gyro, Final C102, C144 Clez, pkr port

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Jackie Lathan

Title Hobbs Regulatory

Signature

Jackie Lathan

Date 01/10/14

Title 18 U.S.C Section 1001 and Title 43 U.S.C Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
OCD Artesia
SEP 05 2012
ANMOGD ARTESIA

FORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT

1. License Serial No. NMMN81929

a. Type of Well Oil Well Gas Well Dry Other

b. Type of Completion New Well Work Over Deepen Plug Back Diff Resvr
Other _____

2. Name of Operator YATES PETROLEUM CORPORATION Contact TINA HUERTA
Mail: tinah@yatespetroleum.com

3. Address 105 SOUTH FOURTH STREET ARTESIA, NM 88210
Ja. Phone No. (include area code) Ph: 575-748-4168

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
Sec 13 T20S R29E Mer NMP
At surface NENW 983FNL 2490FWL
Sec 13 T20S R29E Mer NMP
At top prod interval reported below NENW 983FNL 2490FWL
Sec 14 T20S R29E Mer NMP
At total depth NWNW 750FNL 2279FEL

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. NMMN128739

8. License Name and Well No. ZIA AHZ FEDERAL COM 2H

9. API Well No. 30-015-40404-00-S1

10. Field and Pool, or Exploratory GETTY

11. Sec., T., R., M., or Block and Survey or Area Sec 13 T20S R29E Mer NMP

12. County or Parish EDDY 13. State NM

14. Date Spudded 06/13/2012 15. Date T.D. Reached 07/10/2012 16. Date Completed D & A Ready to Prod. 08/07/2012

17. Elevations (DF, KB, RT, GL)* 3326 GL

18. Total Depth. MD 12900 TVD
19. Plug Back T.D.: MD 12760 TVD
20. Depth Bridge Plug Set MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CNL HI-RESLATEROLOG CBL

22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit analysis)
Directional Survey? No Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
36.000			0	40		27		0	
26.000	20.000 J-55	94.0	0	300		840		0	
17.500	13.375 H-40	48.0	0	1498		1160		0	
12.250	9.625 J-55	36.0	0	3600		1045		0	
8.750	5.500 P-110	17.0	0	12801		1360			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	7885							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	8610	12775	9925 TO 12775			19 ports, open
B)						
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
12449 TO 12449	bbls 20# Borate X-Link, 99800# 20/40 Jordan, 21900# 20/40 Super LC, 1000 gal 7.5% HCL acid
12602 TO 12602	bbls 20# Borate X-Link, 99800# 20/40 Jordan, 21900# 20/40 Super LC, 1000 gal 7.5% HCL acid
12775 TO 12775	bbls 20# Borate X-Link, 99800# 20/40 Jordan, 21900# 20/40 Super LC

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
08/08/2012	08/13/2012	24	→	239.0	0.0	1874.0			ELECTRIC-PUMP-SUB-SURFACE
Choke Size	Tbg. Press Flwg St	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
	340		→	239	0	1874		POW	

28a Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
			→						SEP 2 2012
Choke Size	Tbg. Press Flwg St	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)
ELECTRONIC SUBMISSION #145924 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
** BLM REVISED **

RECLAMATION
DUE 2-7-12

ACCEPTED FOR RECORD

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

J. [Signature]

JWD

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg. Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
Choke Size	Tbg. Press Flwg SI	Csg Press	24 Hr Rate →	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
NO MEASURABLE GAS

30. Summary of Porous Zones (Include Aquifers).

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
RUSTLER	268	521		RUSTLER	268
TANSILL	1326	1424		TANSILL	1326
YATES	1425	1826		YATES	1425
CAPITAN REEF	1827	3742		CAPITAN REEF	1827
DELAWARE	3742	6241		DELAWARE	3742
BONE SPRING	6242	12900		BONE SPRING	6242

32. Additional remarks (include plugging procedure):
CONTINUED:

44 ACID FRACTURE TREATMENT, CEMENT SQUEEZE, ETC
TOP-AMOUNT AND TYPE OF MATERIAL
12293-2089BBLs 20# BORATE X-LINK, 99800LB 20/40 JORDAN, 21900LB 20/40 SUPER LC, PUMPED 1000G
7-1/2% HCL ACID
12136-1995BBLs 20# BORATE X-LINK, 99800LB 20/40 JORDAN, 21900LB 20/40 SUPER LC, PUMPED
1000G 7-1/2% HCL ACID

33. Circle enclosed attachments:

- 1. Electrical/Mechanical Logs (1 full set req'd)
- 2. Geologic Report
- 3. DST Report
- 4. Directional Survey
- 5. Sundry Notice for plugging and cement verification
- 6. Core Analysis
- 7. Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #145924 Verified by the BLM Well Information System.
For YATES PETROLEUM CORPORATION, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 08/23/2012 (12KMS2851SE)

Name (please print) TINA HUERTA

Title REG COMPLIANCE SUPERVISOR

Signature _____ (Electronic Submission)

Date 08/15/2012

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

NM OIL CONSERVATION

ARTESIA DISTRICT

OCB Artesia

JAN 06 2015

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT

5. Lease Serial No.
NMNM15882

1a. Type of Well Oil Well Gas Well Dry Other
b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

2. Name of Operator
COG OPERATING LLC

Contact: STORMI DAVIS
E-Mail: sdavis@concho.com

8. Lease Name and Well No.
MOSSY FEDERAL 1H

3. Address 2208 W MAIN ST
ARTESIA, NM 88210

3a. Phone No. (include area code)
Ph: 575-748-6946

9. API Well No.
30-015-42735

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

Sec 12 T20S R29E Mer NMP
At surface NENE 990FNL 550FEL

At top prod interval reported below
Sec 7 T20S R30E Mer NMP

At total depth NENE 408FNL 350FEL

10. Field and Pool, or Exploratory
PARKWAY; BONE SPRING

11. Sec., T., R., M., or Block and Survey
or Area Sec 12 T20S R29E Mer NMP

12. County or Parish
EDDY

13. State
NM

14. Date Spudded
12/07/2014

15. Date T.D. Reached
01/04/2015

16. Date Completed
 D & A Ready to Prod.
04/10/2015

17. Elevations (DF, KB, RT, GL)*
3266 GL

18. Total Depth: MD 13678
TVD 8424

19. Plug Back T.D.: MD 13678
TVD 8424

20. Depth Bridge Plug Set: MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
DSN, DLL

22. Was well cored? No Yes (Submit analysis)
Was DST run? No Yes (Submit analysis)
Directional Survey? No Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
26.000	20.000 J55	94.0	0	292		1423		0	
17.500	13.375 J55	54.5	0	1691		1550		0	
12.250	9.625 J55	40.0	0	3210		925		0	
8.750	7.000 P110	29.0	0	7700		2450		0	
8.750	5.500 P110	17.0	7700	13671					

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	8586	7784						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	9062	13475	9062 TO 13475	0.430	540	OPEN
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9062 TO 13475	SEE IN REMARKS

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity
04/11/2015	06/08/2015	24	→	469.0	707.0	1560.0		
Choke Size	Flg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→	469	707	1560		POW

ACCEPTED FOR RECORD

GAS LIFT

DEC 31 2015

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity
			→					
Choke Size	Flg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #305463 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

Reclamation: 12/19/15

AB

28b. Production - Interval C									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
			→						

28c. Production - Interval D									
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):
Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
CHERRY CANYON	3451	4554		RUSTLER	81
BRUSHY CANYON	4555	6145		TOS	395
BONE SPRING LM	6146	7407		BOS	1605
1ST BONE SPRING	7408	8143		YATES	1698
2ND BONE SPRING	8144	8448		SEVEN RIVERS	1921
				CAPITAN	2027
				CHERRY CANYON	3451
				BRUSHY CANYON	4555

32. Additional remarks (include plugging procedure):
Perfs 7 1/2" Sand (#) Fluid (gal)
13274-13475 3024 450635 361200
12976-13173 6048 449745 375522
12673-12873 6006 449322 382326
12372-12574 5982 449955 377850
12071-12271 6300 451718 378630
11772-11970 6720 449895 378126
11469-11670 6048 450511 377076

33. Circle enclosed attachments:
- 1. Electrical/Mechanical Logs (1 full set req'd.)
 - 2. Geologic Report
 - 3. DST Report
 - 4. Directional Survey
 - 5. Sundry Notice for plugging and cement verification
 - 6. Core Analysis
 - 7. Other:

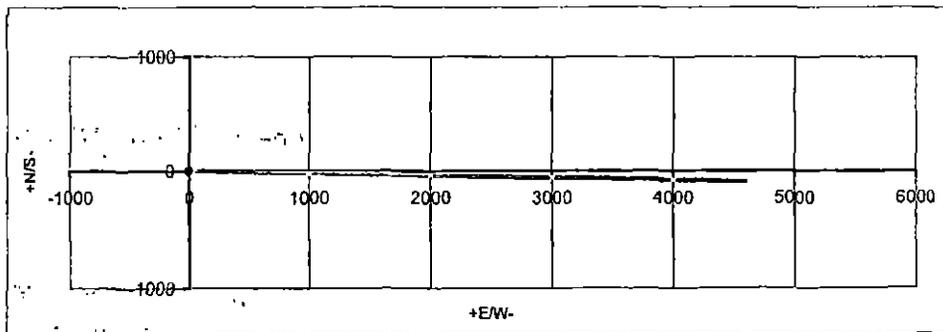
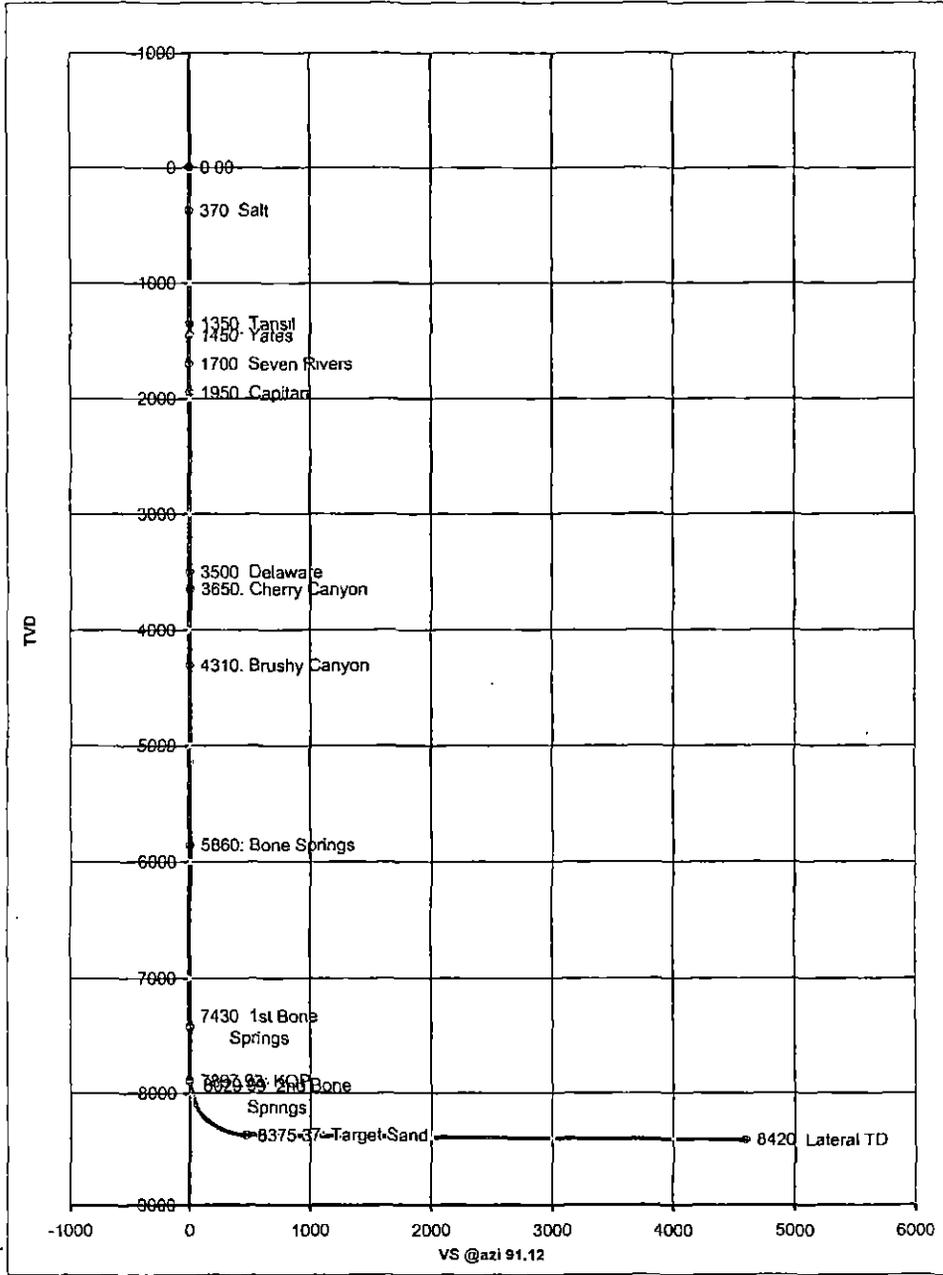
34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #305463 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by DEBORAH HAM on 12/21/2015 ()

Name (please print) STORMI DAVIS Title REGULATORY ANALYST

Signature _____ (Electronic Submission) Date 06/18/2015

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



30-015-33790-00-00

FREEWAY FEDERAL No. 001

Company Name: CHI OPERATING INC

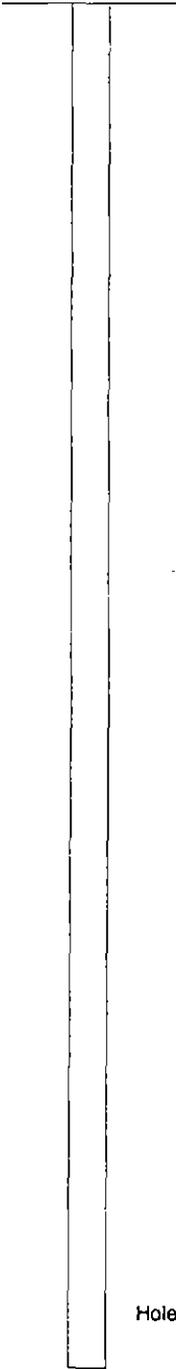
Location: Sec: 30 T: 19S R: 30E Spot:

Lat: 32.6332500656379 Long: -104.013370697723

String Information

Property Name: FREEWAY FEDERAL

County Name: Eddy



Hole: Unknown

TD:

TVD: 0

PBTD:

Cement Information

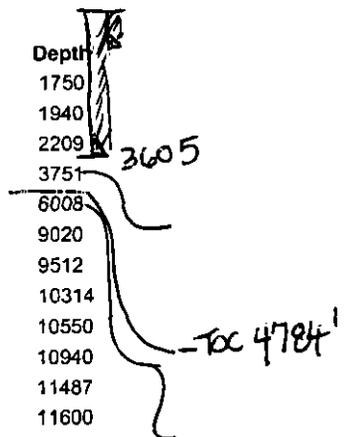
Perforation Information

Top (ft sub)	Bottom (ft sub)	Shts/Ft	No Shts	Dt Sqz
0	0			

*Check GR
350-370 Salt*

Formation Information

St Code	Formation
Pyts	Yates
Psr	Seven Rivers
Preef	Capitan Reef
Pdel	Delaware
Pbs	Bone Spring
Pbs3sd	3rd Bone Spring Sand
Pwc	Wolfcamp
Ppund	Pennsylvanian
PPst	Strawn
Ppat	Atoka
Ppmorl	Morrow Limestone
Ppmorc	Morrow Clastics



Goetze, Phillip, EMNRD

From: Goetze, Phillip, EMNRD
Sent: Friday, July 08, 2016 9:47 AM
To: 'ben@sosconsulting.us'
Cc: McMillan, Michael, EMNRD; Jones, William V, EMNRD; Catanach, David, EMNRD
Subject: RE: Owl's Collinsoscopy SWD C-108...

Ben:

OWL's proposed location is within an area identified by the NMBGMR as having a moderate potential for hydrocarbon development for the Brushy Canyon formation (Broadhead, 2010). Additionally, there is compiled information of adjacent DMG fracturing data (both SRT results and horizontal well completions to the west) suggesting a formation parting pressure of less than the administrative gradient of 0.2 psi/ft. Since this is a proposed commercial operation and the applicant has indicated an 8000 BPD rate, the application garners a little more review than the usually DMG application farther west in Lea County. It is in a collection of DMG applications that I am trying to resolve in the next 30 days, barring additional assignments requiring immediate response. PRG

Phillip R. Goetze, PG
Engineering Bureau
Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
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From: ben@sosconsulting.us [mailto:ben@sosconsulting.us]
Sent: Friday, July 08, 2016 8:44 AM
To: McMillan, Michael, EMNRD <Michael.McMillan@state.nm.us>; Goetze, Phillip, EMNRD <Phillip.Goetze@state.nm.us>; Jones, William V, EMNRD <WilliamV.Jones@state.nm.us>
Subject: Owl's Collinsoscopy SWD C-108...

Gentlemen:

Can I get a quick update on the status of this C-108... it's been in for 7 months.

Thanks,
Ben

