STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. OPERATOR: _____OXY USA Inc_____ NBR 7 State #1____30-025-34992_____

ADDRESS: _____P.O. Box 50250 Midland, TX 79710_____

CONTACT PARTY: _David Stewart_____ PHONE: __432-685-5717__

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

HOBBS OCD

MAR 18 2016

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

RECEIVED

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

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

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected; Avg-3000BWPD – Max-6000BWPD
2. Whether the system is open or closed; Closed
3. Proposed average and maximum injection pressure; Avg- 1006 psi – Max-1046 psi
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, Atoka, Bone Spring, Delaware, Morrow from OXY operated leases, see attached.
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.). Attached

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

IX. Describe the proposed stimulation program, if any. Acid stimulation

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

*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken. Per our field personnel no fresh water wells or windmills were found within one mile of this well, see attached.

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

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

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: _____David Stewart_____ TITLE: _____Sr. Regulatory Advisor_____

SIGNATURE: _____ DATE: 3/16/16

E-MAIL ADDRESS: _____david_stewart@oxy.com_____

* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

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

MAR 22 2016

III. WELL DATA

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

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.

Side 1

INJECTION WELL DATA SHEET

OPERATOR: OXY USA Inc

WELL NAME & NUMBER: NBR 7 State #1 30-025-34992

WELL LOCATION:	660 FSL 990 FWL	M	7	22S	33E
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE

WELLBORE SCHEMATIC

PROPOSED WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17-1/2" Casing Size: 13-3/8" @ 772'

Cemented with: 915 sx. *or* 1208 ft^3

Top of Cement: Surface Method Determined: Circ

Intermediate Casing

Hole Size: 12-1/4" Casing Size: 9-5/8" @ 4622'

Cemented with: 1650 sx. *or* 2178 ft^3

Top of Cement: Surface Method Determined: Circ

Production Casing

Hole Size: 8-1/2" Casing Size: 7" @ 12223'

Cemented with: 2504 sx. *or* 2978 ft^3

Top of Cement: Surface Method Determined: Circ

Production Casing

Hole Size: 6-1/8" Casing Size: 5" @ 11932-15140'

Cemented with: 427 sx. *or* 448 ft^3

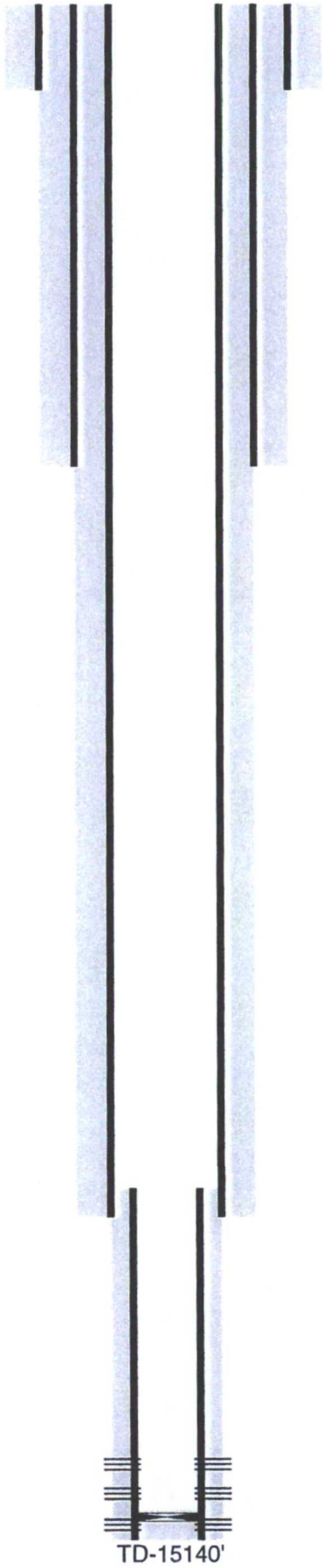
Top of Cement: 11932' Method Determined: Circ

Injection Interval

5230 feet to 6478 feet

(Perforated or Open Hole; indicate which)

OXY USA Inc. - Current
NBR 7 State #1
API No. 30-025-34992



17-1/2" hole @ 772'
13-3/8" csg @ 772'
w/ 915sx-TOC-Surf-Circ

12-1/4" hole @ 4622'
9-5/8" csg @ 4622'
w/ 1650sx-TOC-Surf-Circ

8-1/2" hole @ 12223'
7" csg @ 12223'
w/ 2504sx-TOC-Surf-Circ

6-1/8" hole @ 15140'
5" liner @ 11932-15140'
w/ 427sx-TOC-11932'-Circ

CIBP @ 15025' w/ 15' cmt

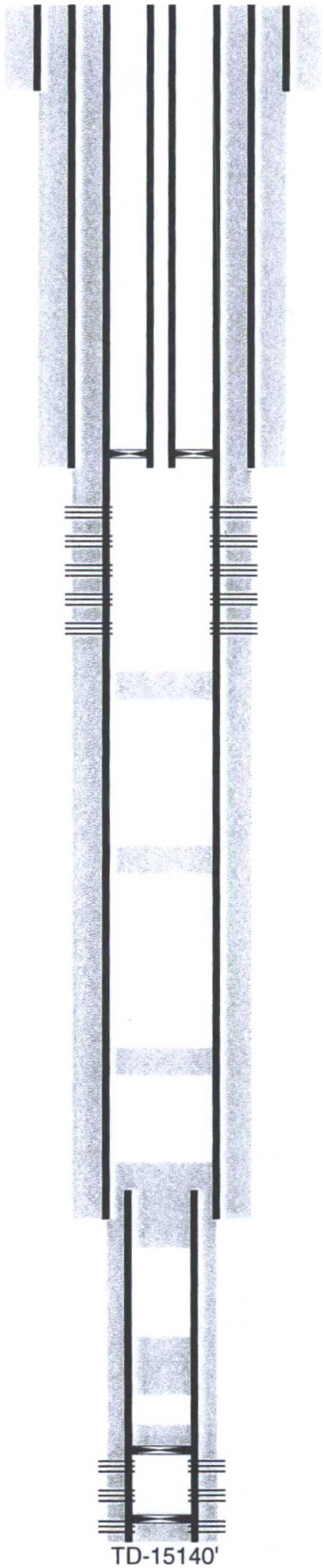
PB-15000'

Perfs @ 14630-14920'

Perfs @ 15038-15042'

TD-15140'

OXY USA Inc. - Proposed
NBR 7 State #1
API No. 30-025-34992



17-1/2" hole @ 772'
13-3/8" csg @ 772'
w/ 915sx-TOC-Surf-Circ

12-1/4" hole @ 4622'
9-5/8" csg @ 4622'
w/ 1650sx-TOC-Surf-Circ

2-7/8" Tbg & Pkr @ 5130'

Perfs @ 5230-6478'

25sx @ 6950-6850' WOC-Tag

25sx @ 8700-8600' WOC-Tag

25sx @ 10800-10700' WOC-Tag

8-1/2" hole @ 12223'
7" csg @ 12223'
w/ 2504sx-TOC-Surf-Circ

45sx @ 12273-11882' WOC-Tag

6-1/8" hole @ 15140'
5" liner @ 11932-15140'
w/ 427sx-TOC-11932'-Circ

25sx @ 13700-13450' WOC-Tag

CIBP @ 14580 w/ 25sx to 14330'

Perfs @ 14630-14920'

CIBP @ 15025' w/ 15' cmt

PB-15000'

Perfs @ 15038-15042'

TD-15140'

INJECTION WELL DATA SHEET

Tubing Size: 2-7/8" 6.5# J55 Lining Material: Duo Line

Type of Packer: Nickel Plated Arrow Set

Packer Setting Depth: 5130'

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

Additional Data

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

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

2. Name of the Injection Formation: Delaware – Bell/Cherry Canyon

3. Name of Field or Pool (if applicable): SWD Delaware

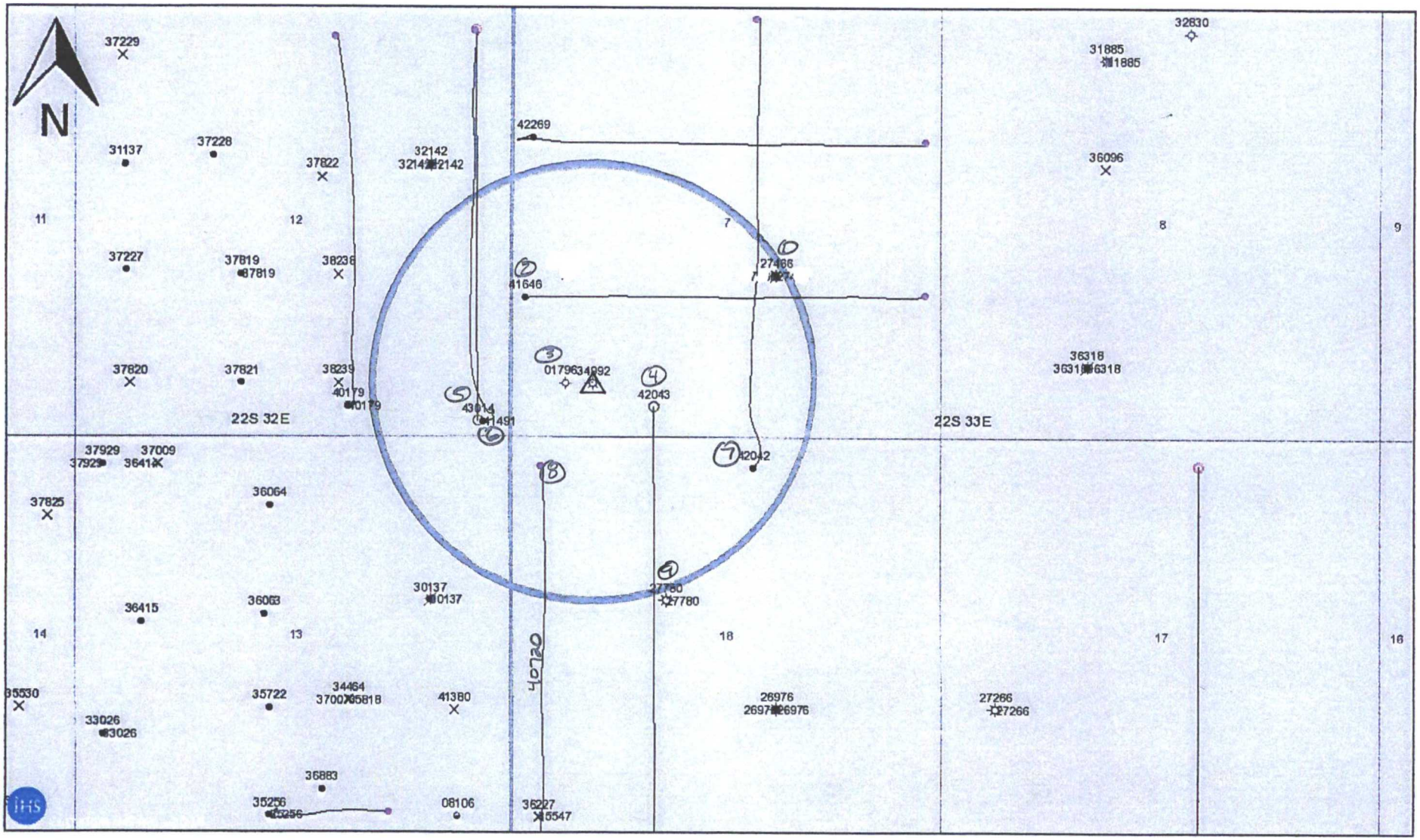
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. Yes

   14630-14920' – 15038-15042' – CIBP @ 15025' w/ 15' cmt

   See attached for Proposed Plugback procedure

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Delaware/Bone Springs/Atoka/Morrow

NBR 7 State #1 - 1/2 Mile AOR



C-108 - Item VI
NBR 7 State #1
AREA OF REVIEW

OPERATOR	LEASE	WELL NO.	API NO. 30-	PLAT	LOCATION	DATE DRILLED	TD	PERFS	CASING-CEMENT	STATUS
Penroc Oil Corp	State 7 SST	1	025-27466	1	1980 FSL 1980 FEL (J)	8/3/81	15323'	14424-14902'	16" @ 352' w/ 470sx - TOC-Surf-Circ	P&A-1/8/74
					7-22S-33E				10-3/4" @ 4750' w/ 3130sx - TOC-Surf-Circ	Pre-Ongard
									7-5/8" @ 8740-12080' w/ 600sx - TOC-8653'-Calc	WBD Attached
									5" @ 11776-15323' w/ 350sx - TOC-11776'-Circ	
OXY USA Inc.	Ridge Runner 7 St	1H	025-41646	2	S-1700 FSL 165 FWL (L)	8/7/14	15325'M	10951-15123'	11-3/4" @ 989' w/ 620sx-TOC-Surf-Circ	Act Oil
					B-1735 FSL 299 FEL (I)		10862'V		8-5/8" @ 4754' w/ 1290sx - TOC-700'-Calc	Red Tank East
					7-22S-33E				5-1/2" @ 15308' w/ 1490sx - TOC-Surf-Circ	Bone Spring
Cabot Corp	State K	1	025-01796	3	660 FSL 660 FWL (M)	7/2/62	4999'	NA	8-5/8" @ 388' w/ 300sx - TOC-Surf-Circ	P&A-8/27/62
					7-22S-33E					Pre-Ongard
										WBD Attached
OXY USA Inc.	NBR 18 State	4H	025-42043	4	S-370 FSL 1720 FWL (N)	TBD	Proposed	NA	Proposed	To Be Drilled
					7-22S-33E		15183'M		11-3/4" @ 975' w/ 760sx-TOC-Surf-Circ	Red Tank East
					B-180 FSL 1720 FWL (N)		9908'V		8-5/8" @ 4825' w/ 820sx - TOC-Surf-Circ	Bone Spring
					18-22S-33E				5-1/2" @ 15183' w/ 1490sx - TOC-3825'	
COG Operating	Airbonita 12 Fed	9H	025-43014	5	S-190 FSL 390 FEL (P)	TBD	Proposed	NA	Proposed	To Be Drilled
					B-330 FNL 380 FEL (A)		14458'M		13-3/8" @ 960' w/ 670sx - TOC-Surf-Circ	Red Tank
					12-22S-32E		9904'V		9-5/8" @ 4800' w/ 1450sx - TOC-Surf-Circ	Bone Spring
									5-1/2" @ 14458' w/ 2165sx - TOC-Surf-Circ	
COG Operating	Airbonita 12 Fed	1H	025-41491	6	S-190 FSL 330 FEL(P)	12/1/13	16396'M	12106-16288'	13-3/8" @ 960' w/ 670sx - TOC-Surf-Circ	Act Oil
					B-336 FNL 433 FEL(A)		11937'V		9-5/8" @ 4742' w/ 1550sx - TOC-Surf-Circ	Red Tank
					12-22S-32E				5-1/2" @ 16377' w/ 2890sx - TOC-Surf-Circ	Bone Spring
OXY USA Inc.	NBR 7 State	4H	025-42042	7	S-370 FNL 2250 FEL (B)	10/17/14	15163'M	10425-14970'	11-3/4" @ 990' w/ 640sx - TOC-Surf-Circ	Act Oil
					18-22S-33E		9921'V		8-5/8" @ 4815' w/ 1280sx - TOC-Surf-Circ	Red Tank East
					B-178 FNL 2222 FEL (B)				5-1/2" @ 15163' w/ 1670sx - TOC-Surf-Circ	Bone Spring
					7-22S-33E					
OXY USA Inc.	NBR	3H	025-40720	8	S-340 FSL 350 FWL (M)	8/29/12	14229'M	10364-14044'	13-3/8" @ 1015' w/ 1160sx - TOC-Surf-Circ	Act Oil
					B-342 FNL 333 FWL (D)		9905'V		9-5/8" @ 4970' w/ 2255sx - TOC-240'-TS	Red Tank East
					18-22S-33E				5-1/2" @ 14207' w/ 2440sx - TOC-600'-CBL	Bone Spring
OXY USA Inc.	NBR	2	025-27780	9	1980 FNL 1864 FWL (F)	4/22/82	15300'	14422-14941'	13-3/8" @ 768' w/ 500sx - TOC-Surf-Circ	Act Gas
					18-22S-33E				10-3/4" @ 4751' w/ 1650sx - TOC-Surf-Circ	Bootleg Ridge
									7-5/8" @ 12201' w/ 2000sx - TOC-4810'-TS	Morrow
									5" @ 11788-15040' w/ 625sx - TOC-11788'-Circ	
*Wellbore does not penetrate the injection interval.										

Penroc Oil Corp - P&A 10/89
State 7 SST #1
API No. 30-025-27466

10sx @ surface

60sx @ 1100-954' Calc

60sx @ 4800-4699' Tagged
120sx @ 4900-4800' Tagged

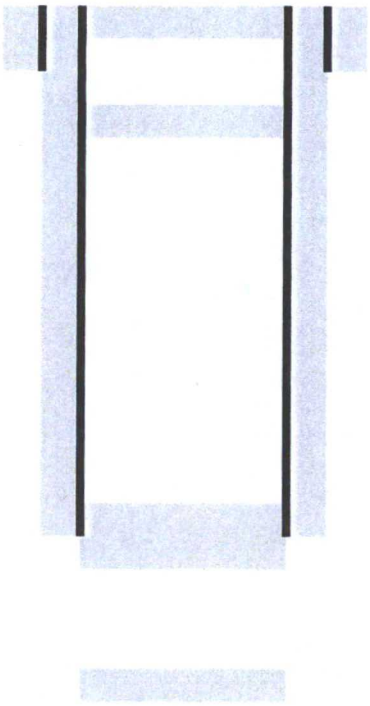
60sx @ 6034-5933' Tagged

25sx @ 8740-8600' Calc

50sx @ 11810-11630' Tagged

CIBP @ 14000' w/ 50sx to 13545' Calc

PB-15200'



TD-15323'

18-1/2" hole @ 352'
16" csg @ 352'
w/ 470sx-TOC-Surf-Circ

14-3/4" hole @ 4750'
10-3/4" csg @ 4750'
w/ 3130sx-TOC-Surf-Circ

9-1/2" hole @ 12080'
7-5/8" csg @ 8740-12080'
w/ 600sx-TOC-8653'-Calc

6-1/4" hole @ 15323'
5" liner @ 11776-15323'
w/ sx-TOC-

Perfs @ 14424-14902'

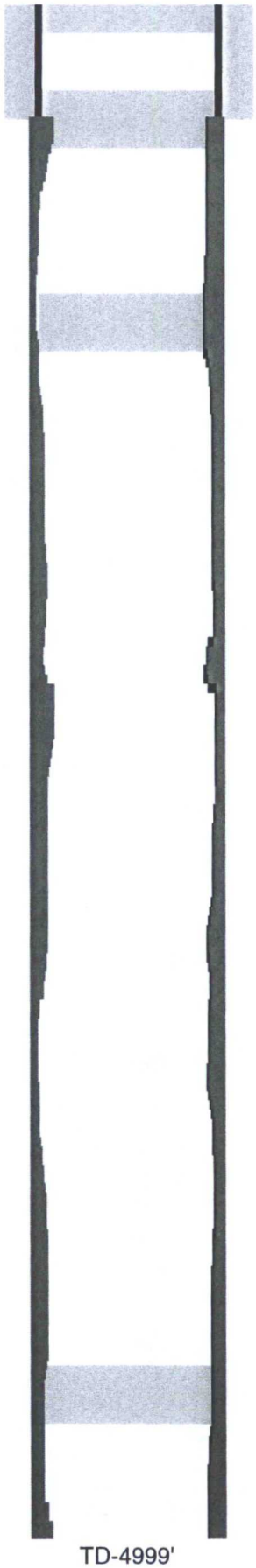
Cabot Corp. - P&A 8/62
State K #1
API No. 30-025-01796

10sx @ surface

20sx @ 443-340'

20SX @ 1085-990'

100SX @ 4999-4525'

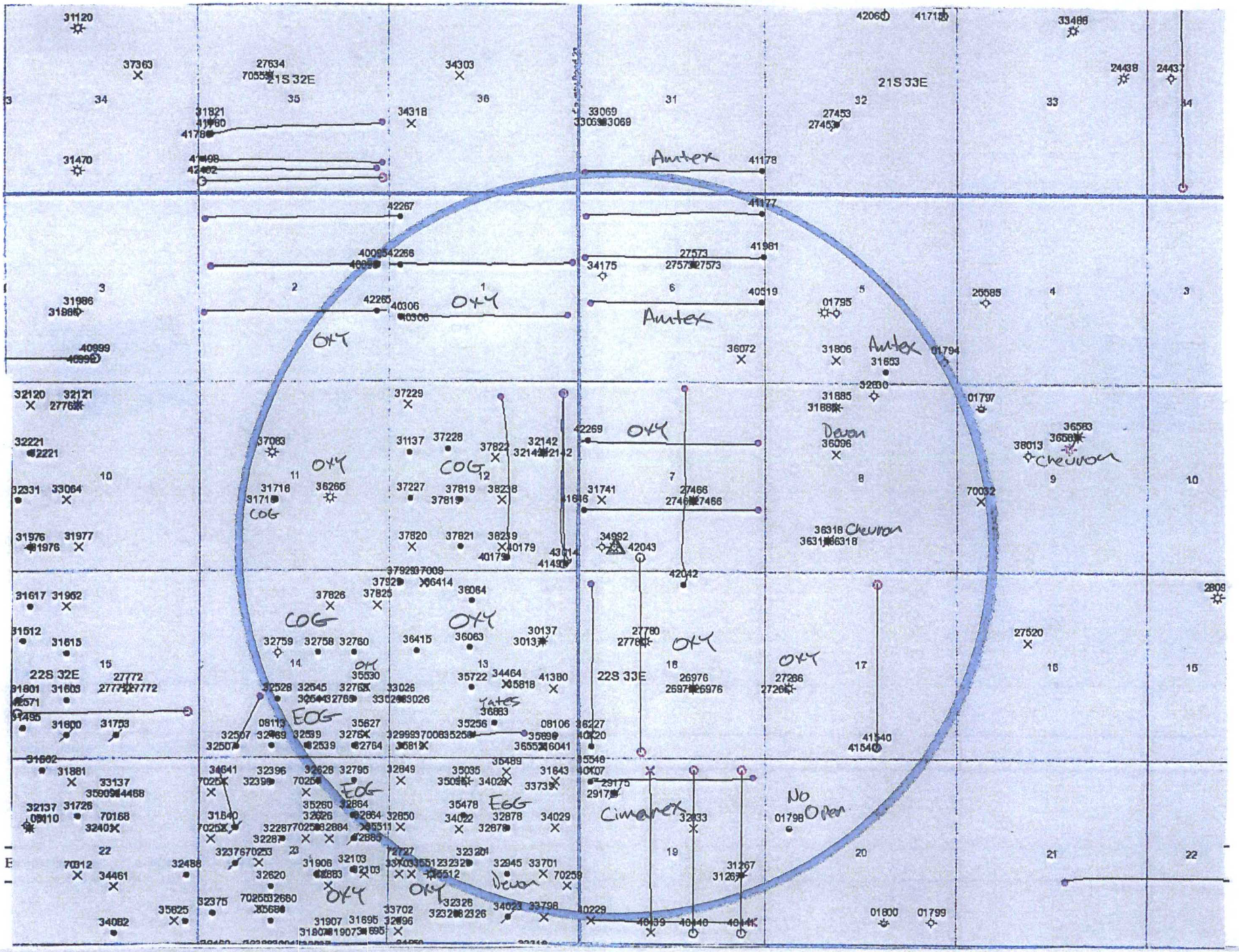


11" hole @ 388'
8-5/8" csg @ 388'
w/ 300sx-TOC-Surf-Circ

6-3/4" OH @ 388-4999'

TD-4999'

NBR 7 State #1 - 2 Mile AOR



February 27, 2016

NBR 7 State #1 – Proposed salt-water disposal well
C-108, part VIII- geological data

The injection zone is in the lower Bell Canyon Formation and upper Cherry Canyon Formation from a depth of 5230' to 6478'; total thickness of the injection interval is about 1250'. The top of the Bell Canyon is at 4780', and the top of the Cherry Canyon is at 5706'. In the disposal well, these two formations are mainly fine-grained to very fine-grained sandstone with interbedded limestone layers. The sandstone layers have porosities of about 15% to 22%. No measurements of permeability based on core measurement are available, but the resistivity log shows an invasion profile consistent with good permeability. The sandstone layers are poorly consolidated by calcareous cement. The limestone layers have porosities less than about 8% and are impermeable, so they will not be perforated for injection. Neither the Bell Canyon nor the Cherry Canyon is productive of oil and gas within one mile of the proposed disposal well.

A 3700'-thick layer of impermeable anhydrite and salt (Salado and Castille formations) lies above the top of the Bell Canyon Formation.

Above the anhydrite and salt layer, the Santa Rosa Sandstone (Triassic, Dockum Group) is a potential source of drinking water near the disposal well. The depth to the base of this aquifer is about 360'. Although there are no freshwater wells within one mile of the proposed disposal well, two wells about 2 miles southwest of the proposed disposal well found water with total dissolved solids less than 10,000 mg/l in the Santa Rosa Sandstone. Water analyses of these two wells are included in this application.

There are no known sources of drinking water immediately underlying the disposal zone.

Appendix #4- Fresh Water Report (1/21/2016)

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 5, 6, 7, 8, 17, 18 **Township:** 22S **Range:** 33E

Appendix #4- Fresh Water Report (1/21/2016)

New Mexico Office of the State Engineer

Water Column/Average Depth to Water

No records found.

PLSS Search:

Section(s): 1, 12, 13 **Township:** 22S **Range:** 32E

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: ***Nalco Company***

Well Number:	Mills Water Well	Sample Temp:	70
Lease:	OXY	Date Sampled:	2/3/2016
Location:	Overflow Line on Water Tank	Sampled by:	Leo Sandmann
Date Run:	2/3/2016	Employee #:	
Lab Ref #:	16-feb-n83184	Analyzed by:	GEORGE

Dissolved Gases

			Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	(H2S)		.00	16.00	.00
Carbon Dioxide	(CO2)	**NOT ANALYZED**			
Dissolved Oxygen	(O2)	**NOT ANALYZED**			

Cations

Calcium	(Ca++)		534.98	20.10	26.62
Magnesium	(Mg++)		136.25	12.20	11.17
Sodium	(Na+)		4.99	23.00	.22
Barium	(Ba++)	**NOT ANALYZED**			
Manganese	(Mn+)		.01	27.50	.00
Strontium	(Sr++)	**NOT ANALYZED**			

Anions

Hydroxyl	(OH-)		.00	17.00	.00
Carbonate	(CO3=)		.00	30.00	.00
BiCarbonate	(HCO3-)		122.20	61.10	2.00
Sulfate	(SO4=)		1,000.00	48.80	20.49
Chloride	(Cl-)		535.59	35.50	15.09

Total Iron	(Fe)		0.21	18.60	.01
Total Dissolved Solids			2,334.23		
Total Hardness as CaCO3			1,896.08		
Conductivity MICROMHOS/CM			4,000		

pH 7.290 Specific Gravity 60/60 F. 1.002

CaSO4 Solubility @ 80 F. 17.25MEq/L, CaSo4 scale is likely

CaCO3 Scale Index

70.0	-.072	100.0	.278	130.0	.788
80.0	.058	110.0	.518	140.0	.788
90.0	.278	120.0	.518	150.0	1.018

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: ***Nalco Company***

Well Number:	Mills Water Well	Sample Temp:	70
Lease:	OXY	Date Sampled:	2/3/2016
Location:	Spigot on Wellhead	Sampled by:	Leo Sandmann
Date Run:	2/3/2016	Employee #:	
Lab Ref #:	16-feb-n83183	Analyzed by:	GEORGE

Dissolved Gases

			Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	(H2S)		.00	16.00	.00
Carbon Dioxide	(CO2)	**NOT ANALYZED**			
Dissolved Oxygen	(O2)	**NOT ANALYZED**			

Cations

Calcium	(Ca++)		70.11	20.10	3.49
Magnesium	(Mg++)		57.44	12.20	4.71
Sodium	(Na+)		88.00	23.00	3.83
Barium	(Ba++)	**NOT ANALYZED**			
Manganese	(Mn+)		.01	27.50	.00
Strontium	(Sr++)	**NOT ANALYZED**			

Anions

Hydroxyl	(OH-)		.00	17.00	.00
Carbonate	(CO3=)		24.00	30.00	.80
BiCarbonate	(HCO3-)		219.96	61.10	3.60
Sulfate	(SO4=)		92.00	48.80	1.89
Chloride	(Cl-)		204.22	35.50	5.75

Total Iron	(Fe)		0.29	18.60	.02
Total Dissolved Solids			756.03		
Total Hardness as CaCO3			410.78		
Conductivity MICROMHOS/CM			1,203		

pH 7.560 Specific Gravity 60/60 F. 1.001

CaSO4 Solubility @ 80 F. 19.22MEq/L, CaSO4 scale is unlikely

CaCO3 Scale Index

70.0	-.383	100.0	-.033	130.0	.477
80.0	-.253	110.0	.207	140.0	.477
90.0	-.033	120.0	.207	150.0	.707

ATOKA FORMATION

COVINGTON A FED #1
30-025-24947

Endura Products Corp.

P.O. Box 3394 Midland, Texas 79706
Phone (915) 684-4233 * Fax (915) 684-4277

WATER ANALYSIS

Date 8/19/95 Nutro Rep **TERRY SOLANSKY** Code **W-0147**
Sampling Point/Date **WELL HEAD - 8/18/95** State **NEW MEXICO**
Company **POGO PRODUCING** County **EDDY**
Field Lease **COVINGTON** Well **A-1**

DISSOLVED SOLIDS

CATIONS	mg/1	me/1
Sodium, Na- (Calc.)	78,338	3,406
Total Hardness as Ca--	1,400	0
Calcium, Ca--	840	42
Magnesium, Mg--	341	28
Barium, Ba--	0	0
Iron (Total) Fe---	60	3

ANIONS		
Chlorides, Cl-	119,000	3,352
Sulfate, SO_4-	4,200	88
Carbonate, CO_3-	0	0
Bicarbonate, HCO_3-	2,366	39
Sulfide, S--	0	0
Total Dissolved Solids (Calc.)	205,145	

OTHER PROPERTIES

pH-	6.800
Specific Gravity, 60-/60 F	1.109
TURBIDITY	100

SCALING INDICIES

TEMP, F	CA CO_3	$CASO_4*2H_2O$	CA SO_4	BA SO_4
80	0.9037	-0.4808	-0.7533	-29.3552
120	1.3079	-0.4920	-0.5840	-29.5395
160	1.9281	-0.5147	-0.4340	-29.7651

BONESPRING FORMATION

WBR FED #7
30-025-35722

MITCHELL ANALYTICAL LABORATORY

2638 Faudree
Odessa, Texas 79765-8538
561-5579

Company: ***Nalco Company***

Bone Springs

Well Number:	WBR Federal #7	Sample Temp:	70
Lease:	OXY	Date Sampled:	4/7/2008
Location:		Sampled by:	Casey Summers
Date Run:	4/11/2008	Employee #:	
Lab Ref #:	08-apr-n39441	Analyzed by:	DOM

Dissolved Gases

			Mg/L	Eq. Wt.	MEq/L
Hydrogen Sulfide	(H2S)		.00	16.00	.00
Carbon Dioxide	(CO2)	**NOT ANALYZED**			
Dissolved Oxygen	(O2)	**NOT ANALYZED**			

Cations

Calcium	(Ca++)	369.84	20.10	18.40
Magnesium	(Mg++)	24.40	12.20	2.00
Sodium	(Na+)	58,806.10	23.00	2,556.79
Barium	(Ba++)	**NOT ANALYZED**		
Manganese	(Mn+)	.15	27.50	.01

Anions

Hydroxyl	(OH-)	.00	17.00	.00
Carbonate	(CO3=)	.00	30.00	.00
BiCarbonate	(HCO3-)	1,490.84	61.10	24.40
Sulfate	(SO4=)	725.00	48.80	14.86
Chloride	(Cl-)	90,099.00	35.50	2,538.00
Total Iron	(Fe)	1.19	18.60	.06
Total Dissolved Solids		151,516.52		
Total Hardness as CaCO3		1,024.64		
Conductivity MICROMHOS/CM		205,100		

pH 7.200 Specific Gravity 60/60 F. 1.105

CaSO4 Solubility @ 80 F. 107.67MEq/L, CaSO4 scale is unlikely

CaCO3 Scale Index

70.0	.434	100.0	.754	130.0	1.314
80.0	.524	110.0	1.014	140.0	1.314
90.0	.754	120.0	1.014	150.0	1.654

Nalco Company

DELAWARE FORMATION

COVINGTON A FED # 9
30-025-32036

PETROLITE

Petrolite Corporation
510 West Texas
Artesia, NM 88210-2041

TRETOLITE DIVISION

(505) 746-3588
Fax (505) 746-3580

Reply to:
P.O. Box FF
Artesia, NM
88211-7531

WATER ANALYSIS REPORT

Company : POGO PRODUCING
Address : MIDLAND, TX
Lease : COVINGTON "A"
Well : #9
Sample Pt. : WELLHEAD

Date : 3/17/94
Date Sampled : 3/16/94
Analysis No. : 632

	ANALYSIS		mg/L		* meq/L
1.	pH	5.7			
2.	H2S	NEG			
3.	Specific Gravity	1.160			
4.	Total Dissolved Solids		254252.3		
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	122.0	HCO3	2.0
12.	Chloride	Cl	157833.0	Cl	4452.3
13.	Sulfate	SO4	75.0	SO4	1.6
14.	Calcium	Ca	19800.0	Ca	988.0
15.	Magnesium	Mg	3705.0	Mg	304.8
16.	Sodium (calculated)	Na	72717.3	Na	3163.0
17.	Iron	Fe	NR		
18.	Barium	Ba	NR		
19.	Strontium	Sr	NR		
20.	Total Hardness (CaCO3)		64700.0		

PROBABLE MINERAL COMPOSITION

*milli equivalents per Liter

988	*Ca <----- *HCO3	2
	/------->	
305	*Mg -----> *SO4	2
	<---------/	
3163	*Na -----> *Cl	4452

Saturation Values Dist. Water 20 C

CaCO3	13 mg/L
CaSO4 * 2H2O	2090 mg/L
BaSO4	2.4 mg/L

Compound	Equiv wt	X meq/L	= mg/L
Ca(HCO3)2	81.0	2.0	162
CaSO4	68.1	1.6	106
CaCl2	55.5	984.5	54628
Mg(HCO3)2	73.2		
MgSO4	60.2		
MgCl2	47.6	304.8	14511
NaHCO3	84.0		
Na2SO4	71.0		
NaCl	58.4	3163.0	184845

Petrolite Oilfield Chemicals Group

Respectfully submitted,
A. MILLER

MORROW FORMATION

BOOTLEG 11 FED COM #2
30-025-37083

BJ Services

WATER ANALYSIS

Permian Region Laboratory
(915) 530-2667

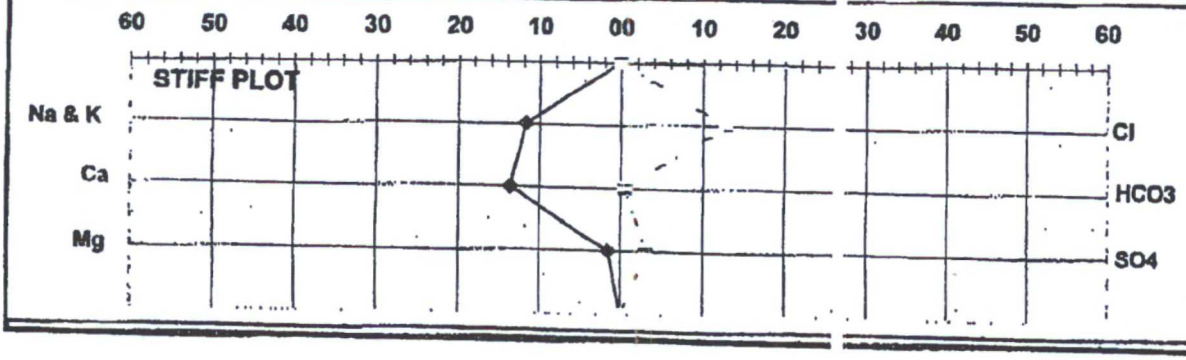
Operator:	Latigo	**Date:**	8/21/2006
Well:	Bootleg #2	**District:**	Artesia
Formation:		**Requested:**	
Field:		**Technician:**	Bid Thompson
County:		**Source:**	
Depth:		**PFS Test #:**	
		M:Water Analysis	**Customer:**
pH:	5.03	**Temp (F):**	73
Specific Gravity:	1.055	**H2S:**	

	mg/l	me/l	ppm
CATIONS			
Sodium (calc.)	28341	1232.8	26864
	2887	144.1	2737
Magnesium	194	16.0	184
Barium	< 25	—	—
Potassium	< 10	—	—
Iron	3	0.1	3
ANIONS			
Chloride	48000	1354.0	45498
Sulfate	1600	33.3	1517
Carbonate	< 1	—	—
Bicarbonate	342	5.6	324
Total Dissolved Solids(calc.)	81367		77125
Total Hardness as CaCO3	8010	160.1	7593

COMMENTS:

SCALE ANALYSIS:

CaCO3 Factor	986267.52	Calcium Carbonate Sc	le Probability Possible
CaSO4 Factor	4619520	Calcium Sulfate Scale	robability: Possible



February 27, 2016

NBR 7 State #1 – Proposed salt-water disposal well
C-108, part XII

I have examined the geologic and engineering data for the area around the NBR 7 State #1 proposed salt-water disposal well, API 30-025-34992, located in section 7-T22S- R33E, Lea County, New Mexico. The proposed salt-water injection zone is from 5230' to 6478'. The base of the only known freshwater aquifer is at a depth of approximately 360' in two wells 1.9 miles southwest of the proposed disposal well. There are no known faults or other permeable zones capable of allowing injected salt water to move up into the freshwater aquifer. An impermeable layer of anhydrite and salt that is over 3700' thick separates the freshwater from the injection zone. The casing and cement in the NBR 7 State #1 well are sufficient to prevent upward movement of water from injection zone within this well.

One abandoned well, the Cabot Corporation State of New Mexico K #1 (API 30-025-01796), is about 300' west of the NBR State 7 #1. This well was drilled to a total depth of 4999', and it penetrated into the top 230' of the Bell Canyon Formation. The well did not encounter hydrocarbons, and it was plugged in 1962. When the State K #1 was plugged, a cement plug was set 348' to 443' to protect the freshwater zone. This plug extended about 24' into the base of the conductor, which was set at 372'. The State K #1 well has the same 3700' of impermeable anhydrite and salt layer seen in the NBR 7 State #1 well, and this layer also protects the freshwater zone in the State K #1. When the State K #1 was plugged, a 20-sack plug was set at 990' to 1085' to seal the top of the anhydrite, which is at 1050'. A 100-sack plug was set at 4525' to 4999' to seal the base of the anhydrite (at 4778') to TD (at 4999'). If water injected into the NBR 7 State #1 were to reach the State K #1 well, it is very unlikely that it could move upward to reach the freshwater zone. As an additional safeguard against this, the highest perforations in the NBR 7 State #1 will be at 5230'. This would put the highest injection point in the disposal well 230' below the total depth of the State K #1. This 230' interval includes a total of about 75' of impermeable limestone layers.

Based on the above information, I have examined the available geologic and engineering data for the NBR 7 State #1 SWD well and find no evidence of open faults of other hydrological connection between the disposal zone and any underground sources of drinking water.

Richard J. Erickson
Senior Geological Advisor
Occidental Petroleum Corporation

C-108 Service List
OXY USA Inc
NBR 7 State #1

New Mexico Oil Conservation Division
1625 N. French Dr.
Hobbs, NM 88240

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

United States Dept of Interior
Bureau of Land Management
620 E. Greene Street
Carlsbad, NM 88220

Surface Owner

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

Merchant Livestock Co., Inc. - Tenant
P.O. Box 1105
Eunice, NM 88231

Offset Operators within 1/2 mile

OXY USA Inc.
P.O. Box 50250
Midland, TX 79710

COG Operating LLC
600 W. Illinois Ave,
Midland, TX 79701

Potash Lessee(s) within 2 miles

Intrepid Potash NM LLC
707 17th St., Ste.4200
Denver, CO 80202-3432

Copies of this application were mailed to the following individuals, companies and organiztions on or before 3/16/16.

David Stewart
OXY USA Inc.

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Daniel Russell, Publisher of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
March 12, 2016
and ending with the issue dated
March 12, 2016.

Daniel Russell
Publisher

Sworn and subscribed to before me this
12th day of March 2016.

Gussie Black
Business Manager

My commission expires
January 29, 2019
(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-19

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL LEGAL

LEGAL NOTICE
March 12, 2016

Notice Of Application For Fluid Disposal

Applicant:
OXY USA Inc.
P.O. Box 50250
Midland, TX 79710
ATTN: David Stewart
432-685-5717

Purpose – Well:
Disposal of Produced Water Into A Zone Non Productive of Oil & Gas
NBR 7 State #1
660 FSL 990 FWL SWSW (M) Sec 7 T22S R33E
Lea County, NM

Formation:
Delaware – Bell/Cherry Canyon
5230-6478'
Maximum Injection Rate – 6000 BWPD
Maximum Injection Pressure – 1046 psi

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 of this application.
#30750

67108498 00171766

DOUGLAS LOWRIE
OCCIDENTAL PERMIAN LTD
PO BOX 50250
MIDLAND, TX 79710

SENDER: COMPLETE THIS SECTION

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

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X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

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1. Article Addressed to:

NMOCD
1625 N. French Dr.
Hobbs, NM 88240

COMPLETE THIS SECTION ON DELIVERY

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X ☐ Agent ☐ Addressee

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1. Article Addressed to:

Merchant Livestock Co.
P.O. Box 1605
Eunice, NM 88231

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X ☐ Agent ☐ Addressee

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If YES, enter delivery address below: ☐ No

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1. Article Addressed to:

NMOCD
1220 South St. Francis Dr.
Santa Fe, NM 87505

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

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

3. Service Type
☑ Certified Mail® ☐ Priority Mail Express™
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7011 3500 0002 4988 4356

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1. Article Addressed to:

COG Operating LLC
600 W. Illinois Ave.
Midland, TX 79701

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

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

3. Service Type
☑ Certified Mail® ☐ Priority Mail Express™
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4. Restricted Delivery? (Extra Fee) ☐ Yes

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1. Article Addressed to:

BLM
620 E. Greene St.
Carlsbad, NM 88220

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

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

3. Service Type
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4. Restricted Delivery? (Extra Fee) ☐ Yes

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1. Article Addressed to:

Tuborpid Bokesh NM LLC
707 17th St. Ste 4000
Denver, CO 80202-3432

3. Service Type
☑ Certified Mail® ☐ Priority Mail Express™
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ Collect on Delivery
4. Restricted Delivery? (Extra Fee) ☐ Yes

X ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

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If YES, enter delivery address below: ☐ No

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