

7/29/08 DATE IN	SUSPENSE	W Jones ENGINEER	7/29/08 LOGGED IN	SWD TYPE	PKVR0821132715 APP NO.
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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.

Eddie W. Seay
Print or Type Name

Eddie W. Seay
Signature

Agent
Title

7/16/08
Date

seay04@leaco.net
e-mail Address

COG
Loc # 3774
Surf # 1

RECEIVED
2008 JUL 28 PM 3 31

APPLICATION FOR AUTHORIZATION TO INJECT

PURPOSE: _____ Secondary Recovery _____ Pressure Maintenance _____ ☒ Disposal _____ Storage
Application qualifies for administrative approval? _____ Yes _____ No

II. OPERATOR: COG Operating, LLC (Concho Resources) _____

ADDRESS: 550 W. Texas Ave., Ste. 1300 Midland, TX 79701 _____

CONTACT PARTY: Mark A. Firchild _____ PHONE: 432-686-3021 _____

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

IV. Is this an expansion of an existing project? _____ Yes _____ ☒ No
If yes, give the Division order number authorizing the project: _____

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

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

VII. Attach data on the proposed operation, including:

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

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

IX. Describe the proposed stimulation program, if any.

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

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

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

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

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

NAME: Eddie W. Seay TITLE: Agent

SIGNATURE: Eddie W. Seay DATE: 7/16/08

E-MAIL ADDRESS: seay04@leaco.net

* 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: _____

ATTACHMENT TO APPLICATION C-108

Loco Hills SWD #1
Unit P, Sect. 36, Tws. 17 S., Rng. 30 E.
Eddy Co., NM

III. WELL DATA

- A.
 - 1) See injection well data sheets and attached schematics.
 - 2) See injection well data sheets and attached schematics.
 - 3) 3 1/2" Fusion bonded powder coating.
 - 4) Arrowset II Type.
- B.
 - 1) Injection formation is the Wolfcamp.
 - 2) Injection interval 8810' to 9162' into deviated interval.
 - 3) Well was drilled as a producer, then P & A.
 - 4) The next higher producing zone is the Bone Springs at approximately 4956' .
The next lower producing zone is the Penn at approximately 9703' .

IV. NO.

V. MAP ATTACHED.

VI. LIST OF WELLS AND DATA ATTACHED.

- VII. COG proposes to re-enter P & A well, drill out plugs, run in hole with 9500 ft. of 26#-7" casing, set on top of cement plug, cement 7" casing with 1000 sx cement, and tie back to 9 5/8" casing, run temperature survey to check top of cement. Go in hole and selectively perforate the 7" casing from 8810' to 9162' . Acidize well, run 3 1/2" coated tubing and packer in 7" and set at approximately 8710' . Pressure test well as OCD requires.

- 1) Plan to inject approximately 10,000 bpd of produced water from COG's own operation in offset production.
- 2) Closed system.
- 3) Average injection pressure should be approximately 800# to 1250# or whatever limit OCD allows.
- 4) Analysis attached, only produced water.
- 5) Water from offset production from San Andres, Queen and 7 Rivers.

VIII. Wolfcamp Formation.

This disposal well is located in the transitional zone between the shelf environment and the basin environment of the Delaware Basin. In this area the Wolfcamp is approximately 3500 feet thick. In the disposal well, the Wolfcamp occurs from 6258' to 9703'. The Wolfcamp consists of limestone with interbedded dolomites and shales. The limestones and shale have little porosity and act as confining intervals for the interbedded dolomites. The disposal intervals will be the pores dolomites exposed in the open hole interval.

IX. ACID AS NEEDED, FRAC IF NECESSARY.

X. PREVIOUSLY SUBMITTED TO OCD OR WILL RUN.

- 1) Compensated Density/Neutron
- 2) Gamma Ray
- 3) Bond Log

XI. NO FRESH WATER FOUND OR RECORDED BY STATE ENGINEER OR OCD.

XII. I, Eddie W. Seay, have examined all available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zones and any underground source of drinking water pertaining to this well.

XIII. ATTACHED.

Side 1

WELL NAME & NUMBER: Loco Hills SWD # 1

A

UNIT LETTER

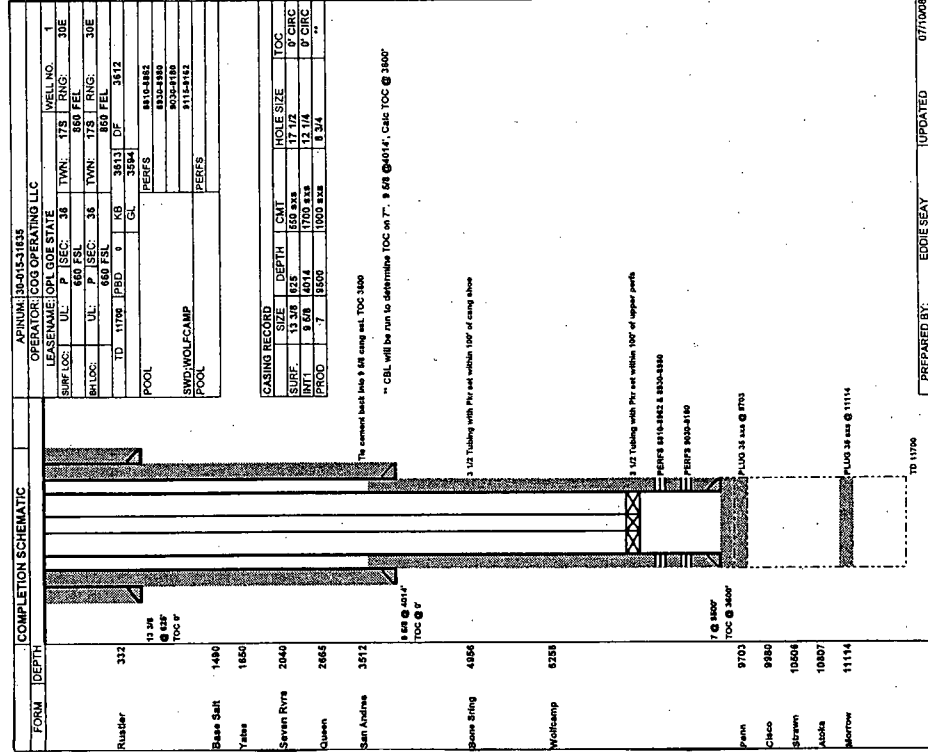
30

5

RANGE

WELL CONSTRUCTION DATA

Surface Casing



Casing Size: 13 3/8

Hole Size: 17 1/2

or n^3

Cemented with: **550** **SX.**

Top of Cement: Surface Method Determined: Circulate

Intermediate Casing

Casing Size: 9 5/8

Hole Size: 12⁺4

or \mathfrak{fr}^3

Cemented with: 1700 sx.

Top of Cement: 3 in. use

Production Casing

Plan to Run

Casing Size: 7

Hole Size: 8 3/4

or n^3

Cemented with: 1000

Top of Cement: Tie back to 9 1/2
Method Determined: TS

Total Depth: 9500

Injection Interval

8810 feet to 9162

(Perforated or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3 1/2 Lining Material: Fusion bonded powder coated
 Type of Packer: Arrowsat Type II with on-off tools
 Packer Setting Depth: 2710'
 Other Type of Tubing/Casing Seal (if applicable): NONE

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 and gas

2. Name of the Injection Formation: Wolfcamp

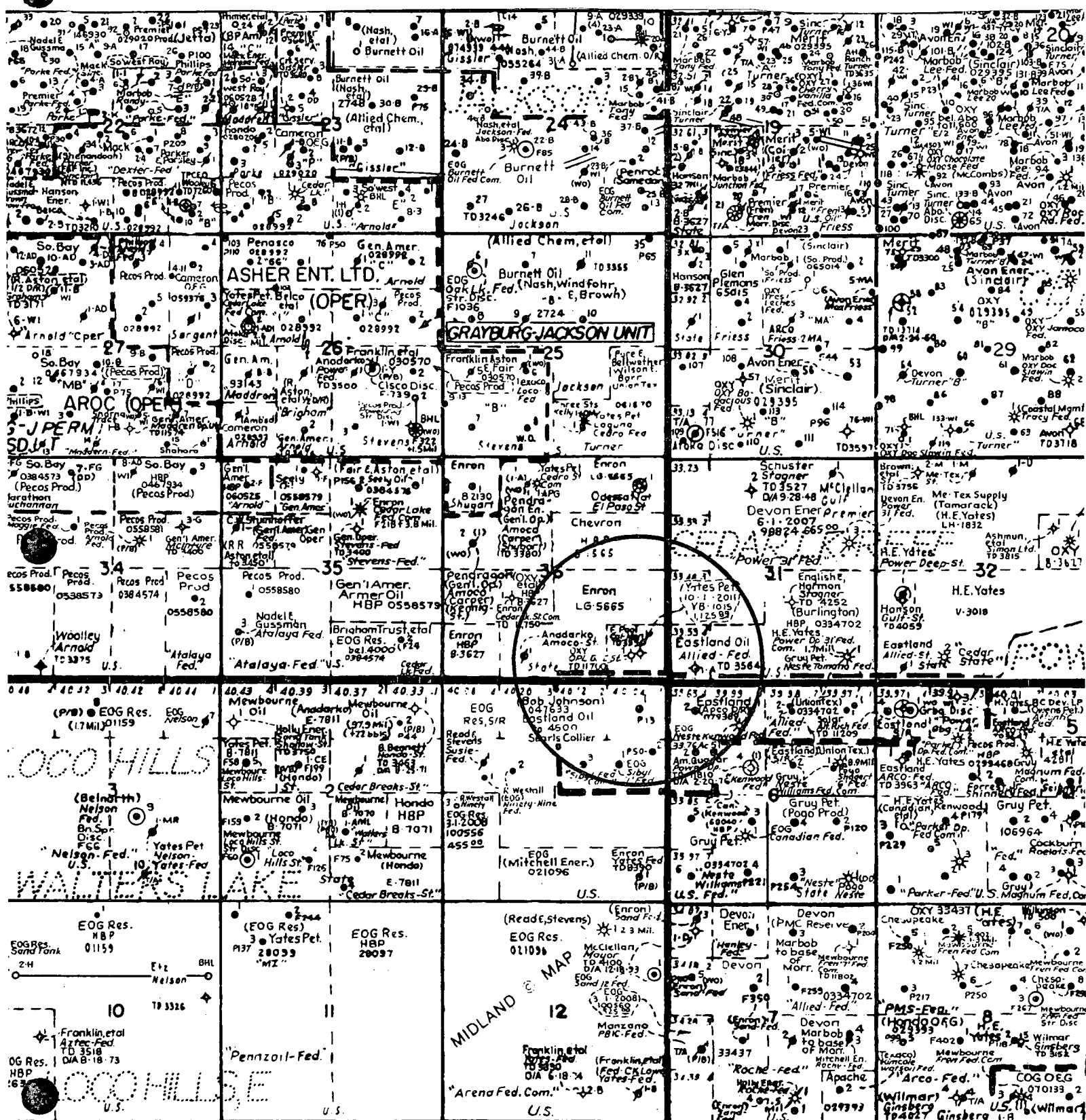
3. Name of Field or Pool (if applicable): NA

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. No perforations

Plugs 3964-4064, 2156-2256, 175 to surface

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

The Bone Springs is above the injection zone and the Penn is below



API #	PROPERTY NAME	#	OPERATOR	TD	TYPE	STAT	CO	LAND	U/L	SEC	TWN	RNG	N/S	E/W
30-015-31635	LOCO HILLS SWD	1	COG OPERATING LLC	11700	D&A	P&A	EDDY	S	P	36	17 S	30 E	660 S	860 E

5280 5280

API #	PROPERTY NAME	#	OPERATOR	TD	TYPE	STAT	CO	LAND	U/L	SEC	TWN	RNG	N/S	E/W	Distance	< 1/2 mile		
30-015-25824	CAL-MON		1 FRED POOL DRILLING INC.	3350	D&A	P&A	EDDY	S	P	36	17S	30E	660	S	660	E	200	1/2 mile
30-015-25961	AMOCO STATE 36	1	ANADARKO PETROLEUM CORP	3565	O	P&A	EDDY	S	N	36	17S	30E	660	S	1980	W	2440	1/2 mile
30-015-20451	ALLIED FEDERAL A	1	EASTLAND OIL CO	3564	D&A	P&A	EDDY	F	M	31	17S	31E	330	S	660	W	1555	1/2 mile
30-015-20449	POWER GRAYGURG UNIT	1	EASTLAND OIL CO	3512	O	A	EDDY	F	A	1	18S	30E	660	N	660	E	1335	1/2 mile
30-015-20484	POWER GRAYGURG UNIT	2	EASTLAND OIL CO	3472	O	A	EDDY	F	H	1	18S	30E	1650	N	330	E	2370	1/2 mile
30-015-30346	SIBYL 1 FEDERAL	1	EOG RESOURCES INC		0	ABL	EDDY	F	B	1	18S	30E	660	N	2310	E	1960	1/2 mile
30-015-20399	POWER GRAYGURG UNIT	3	EASTLAND OIL CO	3478	O	A	EDDY	F	D	6	18S	31E	660	N	660	W	2013	1/2 mile

[illegible]

WELLBORE SCHEMATIC AND HISTORY

		COMPLETION SCHEMATIC		APINUM: 30-015-31635					
FORM	DEPTH			OPERATOR: COG OPERATING LLC					
				LEASENAME: OPL GOE STATE				WELL NO. 1	
		SURF LOC:	UL: P SEC: 36 TWN: 17S RNG: 30E						
		660 FSL		860 FEL					
		BH LOC:	UL: P SEC: 36 TWN: 17S RNG: 30E						
		660 FSL		860 FEL					
		TD	11700	PBD	0	KB	3613	DF	3612
				GL	3594				
		POOL				PERFS			
		DRY & ABANDONED				Open Hole			
		POOL				PERFS			
		POOL				PERFS			
Rustler	332								
		13 3/8 @ 625' TOC 0'	PLUG 675-0'						
Base Salt	1490								
Yates	1650								
Seven Rvrs	2040								
				PLUG 35 sxs @ 2156-2256					
Queen	2665								
San Andres	3512								
		9 5/8 @ 4041' TOC @ 0'	PLUG 100 sxs @ 3964-4064						
Bone Sring	4956								
Wolfcamp	6258			PLUG 35 sxs @ 6258					
Penn	9703			PLUG 35 sxs @ 9703					
Cisco	9980								
Strawn	10506								
Atoka	10807								
Morrow	11114			PLUG 35 sxs @ 11114					
				TD 11700					

CASING RECORD

	SIZE	DEPTH	CMT	HOLE SIZE	TOC
SURF.	13 3/8	625	550 sxs	17 1/2	0' CIRC
INT1	9 5/8	4014	1700 sxs	12 1/4	0' CIRC
No Csng		11700		8 3/4	

PREPARED BY: EDDIE SEAY UPDATED: 07/10/08

WELLBORE SCHEMATIC AND HISTORY

COMPLETION SCHEMATIC					
FORM	DEPTH				
Rustler	332				
Base Salt	1490				
Yates	1650				
Seven Rvrs	2040				
Queen	2665				
San Andres	3512				
Bone Sring	4956				
Wolfcamp	6258				
Penn	9703				
Cisco	9980				
Strawn	10506				
Atoka	10807				
Morrow	11114				

APINUM: 30-015-31635
OPERATOR: COG OPERATING LLC
LEASENAME: OPL GOE STATE
WELL NO. 1

SURF LOC:	UL: P	SEC: 36	TWN: 17S	RNG: 30E
660 FSL		860 FEL		
BH LOC:	UL: P	SEC: 36	TWN: 17S	RNG: 30E
660 FSL		860 FEL		
TD 11700	PBD 0	KB 3613	DF 3612	
		GL 3594		

POOL PERFS 8810-8862
PERFS 8930-8980
PERFS 9030-9180
SWD;WOLFCAMP PERFS 9115-9162
POOL PERFS

	SIZE	DEPTH	CMT	HOLE SIZE	TOC
SURF.	13 3/8	625	550 sxs	17 1/2	0' CIRC
INT1	9 5/8	4014	1700 sxs	12 1/4	0' CIRC
PROD	7	9500	1000 sxs	8 3/4	**

Tie cement back into 9 5/8 csng est. TOC 3600

** CBL will be run to determine TOC on 7". 9 5/8 @4014', Calc TOC @ 3600'

3 1/2 Tubing with Pkr set within 100' of csng shoe

3 1/2 Tubing with Pkr set within 100' of upper perfs

PERFS 8810-8962 & 8930-8980

PERFS 9030-9180

7 @ 9500'
TOC @ 3600'

PLUG 35 sxs @ 9703

PLUG 35 sxs @ 11114

TD 11700

12/29/2001 CMIC:BOWKER

RU LOGGERS. RAN COMP. Z-DENSIOLG, COMP. NEUTRON, GR-CALIPER, DLL AND MLL. POOH AND R.D. LOGGERS. TIH WITH BIT AND SLICK BHA. WASHED 30' TO BOTTOM WITH 15' FILL. CIRCULATING WOO AT REPORT TIME.

12/30/2001 CMIC:REX GLENN

CIRCULATED 3 HOURS WOO. TOOH WITH BIT AND L.D. D.C'S. TIH WITH O.E. D.P. TO 11,114'. RU B.J. SPOTTED 35 SX CLASS H FROM 11,114-11,014'. POOH TO 9703'. SPOTTED 35 SX CLASS H FROM 9703-9603'. POOH TO 6258' SPOTTED 35 SX CLASS H FROM 6258-6158'. POOH L.D. D.P. AT REPORT TIME. RECEIVED PLUGGING ORDERS FROM VAN BARTON WITH NMOC. WAS NOTIFIED BUT DID NOT WITNESS. DAYLIGHT DRILLER CROWNED OUT WHILE TOOH TO L.D. DC'S. NO PHYSICAL DAMAGE DONE.

12/31/2001 CMIC:REX GLENN

POOH WITH D.P. TO 4064'. SPOTTED 100 SX CLASS C WITH 2% CACL2 FROM 4064-3964'. POOH WITH D.P. TO 3000'. WOC 4 HOURS. RBIH AND TAGGED CEMENT AT 3832'. POOH TO 2256'. SPOTTED 35 CLASS C FROM 2256-2156'. POOH TO 675'. CIRCULATED CEMENT TO SURFACE WITH CLASS C NEAT. POOH WITH D.P. R.D. B.J. ND BOP. CUT OFF CASING AND WELLHEAD. WELDED ON 1/4" STEEL PLATE WITH 1" VALVE IN TOP. INSTALLED DRY HOLE MARKER. JETTED AND CLEANED PITS. RELEASED RIG AT 2400 HOURS MST 12-30-01. FINAL REPORT- WELL P&A. NMOC NOTIFIED BUT DID NOT WITNESS

XI

New Mexico Office of the State Engineer
POD Reports and Downloads

Township: Range: Sections:

NAD27 X: Y: Zone: Search Radius:

County: Basin: Number: Suffix:

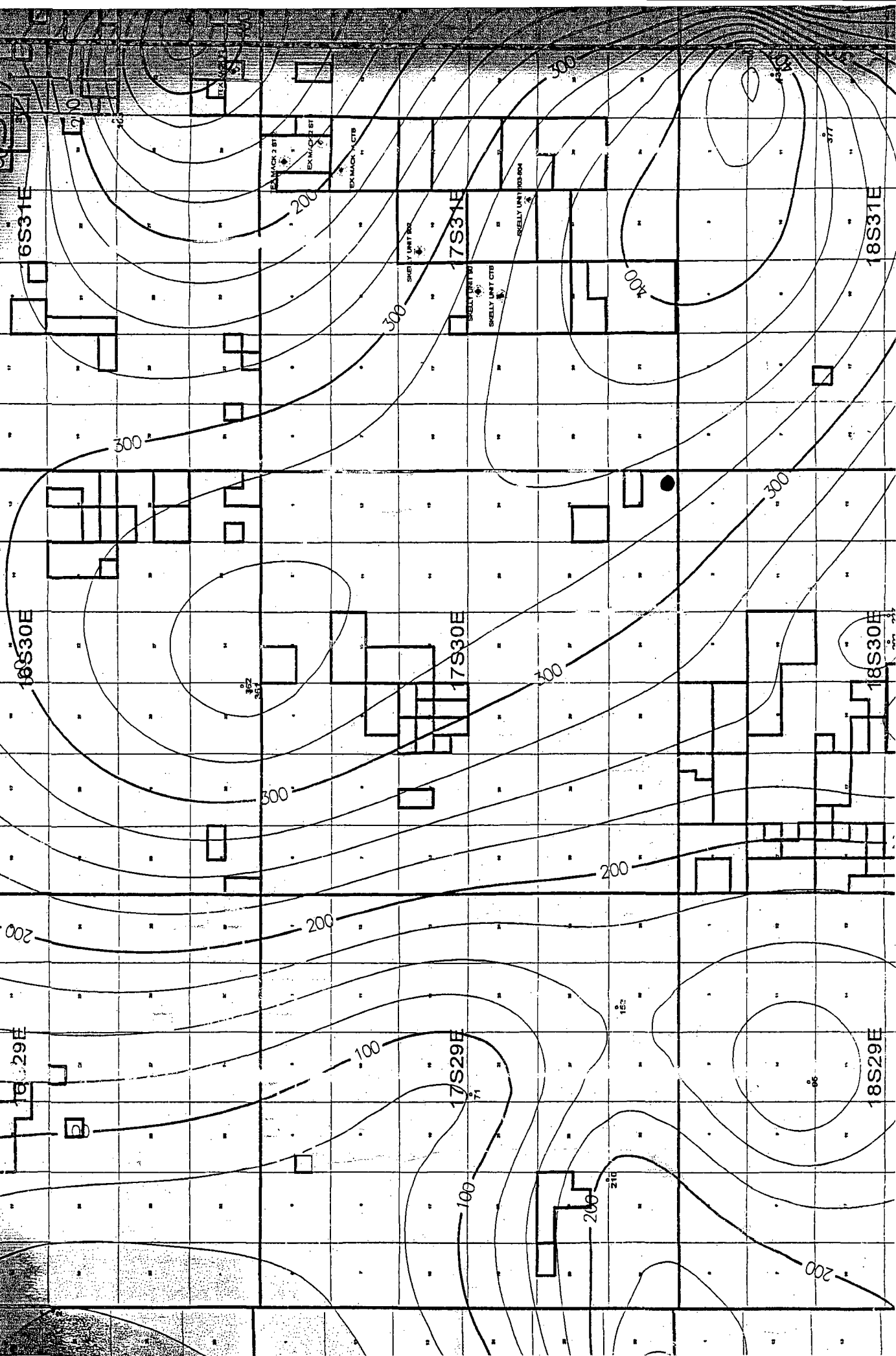
Owner Name: (First) (Last) ☐ Non-Domestic ☐ Domestic
© All

AVERAGE DEPTH OF WATER REPORT 07/09/2008

Bsn	Tws	Rng	Sec	Zone	X	Y	Wells	(Depth Water in Feet)		
								Min	Max	Avg

No Records found, try again

Groundwater Map



VII 4

Produced Waters
OCD

<u>POOL</u>	<u>CHLORIDES</u>
Dean Permo Pennsylvanian	44,730
Dean Devonian	19,525
Denton Wolfcamp	37,275
Denton Devonian	37,062
South Denton Wolfcamp	54,315
South Denton Devonian	34,080
Medicine Rock Devonian	39,760
Little Lucky Lake Devonian	23,288
Wantz Abo	132,770
Crosby Devonian	58,220
Scarborough Yates Seven Rivers	3,443 (Reef)
Teague Simpson	114,665
Teague Ellenburger	120,845
Rhodes Yates Seven Rivers	144,485
House San Andres	93,365
House Drinkard	49,700
South Leonard Queen	115,875
Elliott Abo	55,380
Scharb Bone Springs	30,601
EK Queen	41,890
East EK Queen	179,630
Maljamar Grayburg San Andres	46,079
Maljamar Paddock	115,375
Maljamar Devonian	25,418
Salt Lake Yates	6,781 (Reef)
Teas Yates Seven Rivers	22,152 (Reef?)



Water Analysis Report

Company:	COG Operating LLC	Sample #:	10028
Area:	Artesia	Analysis ID #:	836
Lease:	SKELLY UNIT		
Location:	971		0
Sample Point:	Wellhead		

		mg/l		meq/l	mg/l		meq/l
Sampling Date:	4/2/08	Anions			Cations		
Analysis Date:	4/16/08	Chloride:	134147.4	3783.81	Sodium:	54176.1	2356.53
Analyst:	Mitchell	Bicarbonate:	366.6	6.01	Magnesium:	3752.7	308.71
TDS (mg/l or g/m3):	217250.3	Carbonate:			Calcium:	23195.4	1157.46
Density (g/cm3):	1.151	Sulfate:	1600.0	33.31	Strontium:		
Hydrogen Sulfide:					Barium:		
Carbon Dioxide:	60				Iron:	11.1	0.4
Comments:					Manganese:	1.010	0.04
		pH at time of sampling:		5.6			
		pH at time of analysis:					
		pH used in Calculation:		5.6			
		Temperature @ lab conditions (F):		75	Conductivity (micro-ohms/cm):		210300
					Resistivity (ohm meter):		.0476

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl

Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
°F										
80	0.15	11.37	0.36	491.92	0.39	407.19	0.00	0.00	0.00	0.00
100	0.23	17.35	0.30	432.21	0.39	408.61	0.00	0.00	0.00	0.00
120	0.31	23.03	0.25	378.18	0.42	426.52	0.00	0.00	0.00	0.00
140	0.40	28.72	0.21	331.55	0.47	456.10	0.00	0.00	0.00	0.00



Water Analysis Report

Company:	COG Operating LLC	Sample #:	9768
Area:	Artesia	Analysis ID #:	793
Lease:	WICHITA STATE		
Location:	3		0
Sample Point:	Wellhead		

		mg/l		meq/l	mg/l		meq/l
Sampling Date:	3/13/08	Anions			Cations		
Analysis Date:	3/20/08	Chloride:	124136.4	3501.44	Sodium:	73193.4	3183.74
Analyst:	Mitchell Labs	Bicarbonate:	415.5	6.81	Magnesium:	897.9	73.87
TDS (mg/l or g/m3):	205863.5	Carbonate:			Calcium:	5668.2	282.84
Density (g/cm3):	1.143	Sulfate:	1550.0	32.27	Strontium:		
					Barium:		
Hydrogen Sulfide:	68				Iron:	1.4	0.05
Carbon Dioxide:					Manganese:	0.660	0.02
Comments:		pH at time of sampling:		6.4			
		pH at time of analysis:					
		pH used in Calculation:		6.4			
		Temperature @ lab conditions (F):		75	Conductivity (micro-ohms/cm):		219900
					Resistivity (ohm meter):		.0455

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.57	31.61	-0.12	0.00	-0.09	0.00	0.00	0.00	0.00	0.00
100	0.64	35.92	-0.20	0.00	-0.11	0.00	0.00	0.00	0.00	0.00
120	0.72	40.52	-0.27	0.00	-0.10	0.00	0.00	0.00	0.00	0.00
140	0.79	45.41	-0.33	0.00	-0.07	0.00	0.00	0.00	0.00	0.00



Water Analysis Report

Company:	COG Operating LLC	Sample #:	9769
Area:	Artesia	Analysis ID #:	792
Lease:	JUNIPER STATE		
Location:	5		0
Sample Point:	Wellhead		

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	3/13/08	Chloride:	120132.0	Sodium:	58436.2
Analysis Date:	3/20/08	Bicarbonate:	659.9	Magnesium:	2815.8
Analyst:	Mitchell Labs	Carbonate:		Calcium:	12904.2
TDS (mg/l or g/m3):	195826.8	Sulfate:	875.0	Strontium:	
Density (g/cm3):	1.136			Barium:	
Hydrogen Sulfide:				Iron:	2.6
Carbon Dioxide:				Manganese:	1.090
Comments:		pH at time of sampling:	5.8		
		pH at time of analysis:			
		pH used in Calculation:	5.8		
		Temperature @ lab conditions (F):	75	Conductivity (micro-ohms/cm):	211600
				Resistivity (ohm meter):	.0473

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.41	51.64	-0.08	0.00	-0.06	0.00	0.00	0.00	0.00	0.00
100	0.49	60.63	-0.15	0.00	-0.06	0.00	0.00	0.00	0.00	0.00
120	0.58	69.62	-0.20	0.00	-0.04	0.00	0.00	0.00	0.00	0.00
140	0.67	78.32	-0.25	0.00	0.01	8.70	0.00	0.00	0.00	0.00



Water Analysis Report

Company:	COG Operating LLC	Sample #:	10024
Area:	Artesia	Analysis ID #:	840
Lease:	GJ WEST COOP UNIT		
Location:	171		0
Sample Point:	Wellhead		

		mg/l		meq/l	mg/l		meq/l
Sampling Date:	4/2/08	Anions			Cations		
Analysis Date:	4/16/08	Chloride:	92101.2	2597.84	Sodium:	52461.8	2281.96
Analyst:	Mitchell	Bicarbonate:			Magnesium:	976.0	80.29
TDS (mg/l or g/m3):	151113.3	Carbonate:			Calcium:	4968.7	247.94
Density (g/cm3):	1.105	Sulfate:	601.0	12.51	Strontium:		
					Barium:		
Hydrogen Sulfide:	51				Iron:	3.6	0.13
Carbon Dioxide:	16				Manganese:	0.970	0.04
Comments:		pH at time of sampling:		6.2			
		pH at time of analysis:					
		pH used in Calculation:		6.2			
		Temperature @ lab conditions (F):		75	Conductivity (micro-ohms/cm):		6
					Resistivity (ohm meter):		1666.6667

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	-5.09	0.00	-0.56	0.00	-0.56	0.00	0.00	0.00	0.00	0.00
100	-5.02	0.00	-0.62	0.00	-0.55	0.00	0.00	0.00	0.00	0.00
120	-4.99	0.00	-0.68	0.00	-0.53	0.00	0.00	0.00	0.00	0.00
140	-4.98	0.00	-0.72	0.00	-0.48	0.00	0.00	0.00	0.00	0.00



Water Analysis Report

Company:	COG Operating LLC	Sample #:	9701
Area:	Artesia	Analysis ID #:	752
Lease:	FRESH WATER SOURCE		
Location:	Section-28-17S		0
Sample Point:	Wellhead		

		mg/l		meq/l	mg/l		meq/l
Sampling Date:	3/10/08	Anions			Cations		
Analysis Date:	3/11/08	Chloride:		44048.4	Sodium:		23103.8
Analyst:	Mitchell Labs	Bicarbonate:		146.6	Magnesium:		1141.9
TDS (mg/l or g/m3):	73069.6	Carbonate:			Calcium:		3417.0
Density (g/cm3):	1.051	Sulfate:		1200.0	Strontium:		
Hydrogen Sulfide:				24.98	Barium:		
Carbon Dioxide:					Iron:		10.8
Comments:		pH at time of sampling:		6.64	Manganese:		1.060
		pH at time of analysis:					
		pH used in Calculation:		6.64	Conductivity (micro-ohms/cm):		73000
		Temperature @ lab conditions (F):		75	Resistivity (ohm meter):		.1370

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.00	0.00	-0.27	0.00	-0.31	0.00	0.00	0.00	0.00	0.00
100	0.11	2.28	-0.31	0.00	-0.28	0.00	0.00	0.00	0.00	0.00
120	0.21	4.57	-0.34	0.00	-0.23	0.00	0.00	0.00	0.00	0.00
140	0.32	7.50	-0.35	0.00	-0.15	0.00	0.00	0.00	0.00	0.00



Water Analysis Report

Company:	COG Operating LLC	Sample #:	10031
Area:	Artesia	Analysis ID #:	831
Lease:	GJ WEST COOP UNIT		
Location:	179		0
Sample Point:	Wellhead		

		Anions		Cations	
		mg/l	meq/l	mg/l	meq/l
Sampling Date:	4/2/08	Chloride:	93102.3	Sodium:	50211.2
Analysis Date:	4/16/08	Bicarbonate:	598.8	Magnesium:	1805.6
Analyst:	Mitchell	Carbonate:		Calcium:	6890.3
TDS (mg/l or g/m3):	154560	Sulfate:	1950.0	Strontium:	
Density (g/cm3):	1.107		40.6	Barium:	
				Iron:	0.9
Hydrogen Sulfide:	30			Manganese:	0.920
Carbon Dioxide:	40				
Comments:		pH at time of sampling:	5.8		
		pH at time of analysis:			
		pH used in Calculation:	5.8		
		Temperature @ lab conditions (F):	75	Conductivity (micro-ohms/cm):	184300
				Resistivity (ohm meter):	.0543

Values Calculated at the Given Conditions - Amounts of Scale in lb/1000 bbl										
Temp	Calcite CaCO ₃		Gypsum CaSO ₄ ·2H ₂ O		Anhydrite CaSO ₄		Celestite SrSO ₄		Barite BaSO ₄	
°F	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount
80	0.09	11.76	0.06	124.85	0.06	103.74	0.00	0.00	0.00	0.00
100	0.18	24.13	-0.01	0.00	0.06	110.98	0.00	0.00	0.00	0.00
120	0.28	35.89	-0.06	0.00	0.09	158.63	0.00	0.00	0.00	0.00
140	0.38	47.65	-0.09	0.00	0.15	234.32	0.00	0.00	0.00	0.00

XIII

COG OPERATING LLC

July 14, 2008

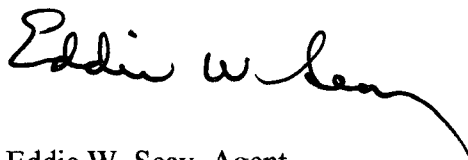
RE: Loco Hills SWD #1 (was GOE State #1)
Unit P, Sect. 36, T. 17 S., R. 30 E.
API #30-015-31635
Eddy Co., NM

Dear Sir:

In accordance with the Rules and Regulations of the Oil Conservation Division of the State of New Mexico, you are being provided a copy of the C-108, Application for Authorization to Inject in to the above captioned well.

Any questions about the permit can be directed to Eddie W. Seay, (575)392-2236. Any objections or request for hearing must be filed with the Oil Conservation Division within fifteen (15) days from the date received. The OCD address is 1220 S. Saint Francis Drive, Santa Fe, NM 87504, (505)476-3440.

Thank you,



Eddie W. Seay, Agent
601 W. Illinois
Hobbs, NM 88242
(575)392-2236
seay04@leaco.net

LEASE OWNERS AND OFFSETS

NM State Land Office
310 Old Santa Fe Trail
Box 1148
Santa Fe, NM 87504-1148

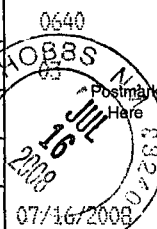
No Offset Wells Penetrate the Injection Zone.

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SANTA FE NM 87504

Postage	\$ 1.51
Certified Fee	\$2.70
Return Receipt Fee (Endorsement Required)	\$2.20
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$ 6.41



NM State Land Office

Sent To
 310 Old Santa Fe Trail
 Street, Apt. No.,
 or P.O. Box No.
 Box 1148
 City, State, ZIP+4
 Santa Fe, NM 87504-1148

PS Form 3800, August 2006 See Reverse for Instructions

7007 2560 0000 4575 3193

LEGAL NOTICE

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, COG Operating, LLC (Concho Resources), 550 W. Texas Ave., Ste 1300, Midland, Texas 79701, is filing a C-108, Application for Salt Water Disposal. The well being applied for is the Loco Hills SWD #1, API 30-015-31635, located in Unit P, Section 36, Township 17 South, Range 30 East, Eddy Co., NM. The injection formation is the Wolfcamp from 6258' to 9703' below surface. Expected maximum injection rate is 10,000 bpd., and the expected maximum injection pressure is 1250 psi or what the OCD allows. Any questions about the application can be directed to Eddie W. Seay, (575)392-2236, or any objection or request for hearing must be directed to the Oil Conservation Division, (505)476-3440, 1220 South Saint Francis Drive, Santa Fe, NM 87504, within fifteen (15) days.

Affidavit of Publication

NO.

20308

STATE OF NEW MEXICO

County of Eddy:

GARY D. SCOTT

being duly

sworn, says: That he is the

PUBLISHER

of The

Artesia Daily Press, a daily newspaper of general

circulation, published in English at Artesia, said county

and county and state, and that the here to attached

Legal Notice

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 week/days on the same

day as follows:

First Publication

July 15, 2008

Second Publication

Third Publication

Fourth Publication

Fifth Publication

Subscribed and sworn to before me this

16 Day

July

2008



OFFICIAL SEAL

Jo Morgan

NOTARY PUBLIC-STATE OF NEW MEXICO

My commission expires: 6/26/2012

Jo Morgan
Notary Public, Eddy County, New Mexico

Copy of Publication:

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, COG Operating, LLC (Concho Resources), 550 W Texas Ave., Ste 1300, Midland, Texas 79701, is filing a C-108, Application for Salt Water Disposal. The well being applied for is the Loco Hills SWD #1, API 30-015-31635, located in Unit P, Section 36, Township 17 South, Range 30 East, Eddy Co., NM. The injection formation is the Wolfcamp from 6258' to 9703' below surface. Expected maximum injection rate is 10,000 bpd., and the expected maximum injection pressure is 1250 psi or what the OCD allows. Any questions about the application can be directed to Eddie W. Seay, (575)392-2236, or any objection or request for

hearing must be directed to the Oil Conservation Division, (505)476-3440, 1220 South Saint Francis Drive, Santa Fe, NM 87504, within fifteen (15) days.

Published in the Artesia Daily Press, Artesia, NM July 15, 2008
Legal 20308

Jones, William V., EMNRD

From: Jones, William V., EMNRD
Sent: Thursday, September 18, 2008 3:08 PM
To: 'Eddie Seay'
Cc: Ezeanyim, Richard, EMNRD; Gum, Tim, EMNRD; Phillips, Dorothy, EMNRD
Subject: SWD APPLICATION FROM COG OPERATING LLC: Loco Hills SWD#1 30-015-31635 Wolfcamp

Release 10/9/08

Hello Eddie:

Concerning this application:

1) Please have a COG Landman sign a statement that Rule 701B(2) has been covered as to required notice. Send a list of the "affected" parties for the various tracts in the 1/2 mile AOR. We have begun to ask applicants for "lists" of tracts with affected parties on SWD and NSL applications. It appears that Eastland Oil operates shallow wells in this area and would therefore control the minerals in the Wolfcamp unless there is a depth severance. OXY and Chevron also seem to have something in this area - unless the Midland Map you sent is not up to date. (I did not see where your application said that COG had control of all minerals in this 1/2 mile AOR.) If additional parties need to be noticed, please send proof of notice.

2) Please have an engineer or geologist talk about the productivity of the Wolfcamp in this well and the nearest Wolfcamp production to this location.

3) Your application says this well is deviated - is this the case? If so, what are the TVDs to correspond to the MDs of the top and bottom of the injection interval? If deviated, please send a plat showing what the well looks like from a Side view.

4) COG has a well that needs additional bonding: Red Raider State #2. Please ask COG to correct this with Dorothy Phillips and verify that all financial assurances are up to date. Here is a link to the OCD site showing recorded bonds:

<http://www.emnrd.state.nm.us/OCD/OCDPermitting/Report/Stats/InactiveWellFinancialAssuranceReport.aspx?Operator=229137>

5) Where did you get the Groundwater Map? Is there no windmills in this area either?

Thank You,

William V. Jones PE
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3448

9/18/2008

September 25, 2008

NMOCD Engineering
ATTN: Will Jones
1220 S. Saint Francis Dr.
Santa Fe, NM 87504

RE: COG Operating LLC
Loco Hills SWD #1 API 30-015-31635
Supplement to C-108 Application

Mr. Jones:

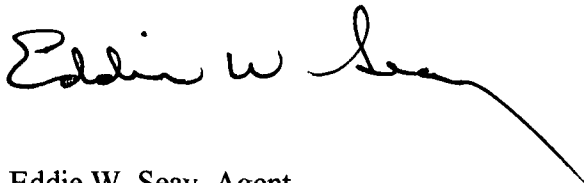
Please find answers to SWD application:

- 1) Since we or COG could not exactly determine which persons have mineral interest in the Wolfcamp, all interest owners within the AOR were noticed. Find attached a list of mineral owners and certified receipts for each.
- 2) Answer to Wolfcamp productivity, see attached Engineers comments and map.
- 3) Concerning the deviation of the subject well, the comment concerning the well being deviated was an incorrect statement. In re-looking at the well information, the well is only deviated 3 degrees.
- 4) COG has been in contact with Dorothy Phillips, and is working on additional bonding.
- 5) Groundwater.

The groundwater map you asked about was taken from the OCD office. In the area of concern, the water that is used for cattle is from dirt tanks, or is piped in from off of the Caprock. No water wells or windmills were found for this area.

Should you need anything further, please call.

Thanks,



Eddie W. Seay, Agent
Eddie Seay Consulting
601 W. Illinois
Hobbs, NM 88242
(575)392-2236

RECEIVED
2008 SEP 29 PM 2 58

Eddie W. Seay

From: "Jones, William V., EMNRD" <William.V.Jones@state.nm.us>
To: "Eddie Seay" <seay04@leaco.net>
Cc: "Ezeanyim, Richard, EMNRD" <richard.ezeanyim@state.nm.us>; "Gum, Tim, EMNRD" <tim.gum@state.nm.us>; "Phillips, Dorothy, EMNRD" <dorothy.phillips@state.nm.us>
Sent: Thursday, September 18, 2008 3:07 PM
Subject: SWD APPLICATION FROM COG OPERATING LLC: Loco Hills SWD#1 30-015-31635 Wolfcamp

Hello Eddie:
 Concerning this application:

- 1) Please have a COG Landman sign a statement that Rule 701B(2) has been covered as to required notice. Send a list of the "affected" parties for the various tracts in the 1/2 mile AOR. We have begun to ask applicants for "lists" of tracts with affected parties on SWD and NSL applications. It appears that Eastland Oil operates shallow wells in this area and would therefore control the minerals in the Wolfcamp unless there is a depth severance. OXY and Chevron also seem to have something in this area - unless the Midland Map you sent is not up to date. (I did not see where your application said that COG had control of all minerals in this 1/2 mile AOR.) If additional parties need to be noticed, please send proof of notice.
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- 4) COG has a well that needs additional bonding: Red Raider State #2. Please ask COG to correct this with Dorothy Phillips and verify that all financial assurances are up to date. Here is a link to the OCD site showing recorded bonds:

<http://www.emnrd.state.nm.us/OCD/OCDPermitting/Report/Stats/InactiveWellFinancialAssuranceReport.aspx?Operator=229137>

- 5) Where did you get the Groundwater Map? Is there no windmills in this area either?

Thank You,

William V. Jones PE
 New Mexico Oil Conservation Division
 1220 South St. Francis
 Santa Fe, NM 87505
 505-476-3448

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9/22/2008

Parties to Notice for SWD Permit Application
OPL GOE State #1, SE/4 SE/4 Sec. 36, T17S-R30E, Eddy Co., NM

The Eastland Oil Company
P.O. Box 3488
Midland, TX 79702

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

Canadian Kenwood Company
1910 IDS Center
80 South Eighth
Minneapolis, MN 55402

William G. Parker, Sylvia Voorhies and
Nancy Halsell, Trustees of the T.R. Parker Estate
P.O. Box 1281
Medford, OR 97504

Read & Stevens, Inc.
P.O. Box 1518
Roswell, NM 88202

Westall Oil & Gas LLC
P.O. Box 4
Loco Hills, NM 88255

Harvey E. Yates Company
P.O. Box 1933
Roswell, NM 88202

Yates-McMinn Drilling Venture 1984-2
P.O. Box 1608
Albuquerque, NM 87103

Yates Energy Corporation
P.O. Box 2323
Roswell, NM 88202

Laurelind Corporation
P.O. Box 2143
Roswell, NM 88202

Oxy USA WTP Ltd.
P.O. Box 4294
Houston, TX 77210

Jalapeno Corporation
P.O. Box 1608
Albuquerque, NM 87103

Warfield Associates
P.O. Box 6366
Midland, TX 79701

Jimmie R. Parker, Jr.
P.O. Box 2000
Midland, TX 79702

Spiral, Inc.
P.O. Box 1933
Roswell, NM 88202

Nadel & Gussman Capitan, LLC
15 East 5th Street, Suite 3200
Tulsa, OK 74103

Explorers Petroleum Corp.
P.O. Box 1933
Roswell, NM 88202

Occidental Permian LTD.
P.O. Box 4294
Houston, TX 77210

Texas Reexploration LTD 1
3025 Maxroy Street
Houston, TX 77008

Camtera Resources Partners LTD
P.O. Box 2069
Marshall, TX 75671

Chevron U.S.A. Inc.
11111 South Wilcrest
Houston, TX 77099

Yates Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210

Yates Drilling Corporation
105 South Fourth Street
Artesia, NM 88210

ABO Petroleum Corporation
105 South Fourth Street
Artesia, NM 88210

MYCO Industries, Inc.
105 South Fourth Street
Artesia, NM 88210

BP America Production Company
P.O. Box 3092
Houston, TX 77253

Marbob Energy Corporation
P.O. Box 217
Artesia, NM 88210

Pitch Energy Corporation
P.O. Box 304
Artesia, NM 88211

Bureau of Land Management
Carlsbad Field Office
620 East Greene Street
Carlsbad, NM 88220

GEOLOGY

Wolfcamp Formation

This disposal well is located in the transitional zone between the shelf environment and the basin environment of the Delaware Basin. In this area the Wolfcamp is approximately 3500 feet thick. In the Disposal well the Wolfcamp occurs from 6258 to 9703 feet. The Wolfcamp consists limestone with interbedded dolomites and shales. The limestones and shale have little porosity and act as confining intervals for the interbedded dolomites. The disposal intervals will be the pores dolomites exposed in the open hole interval.

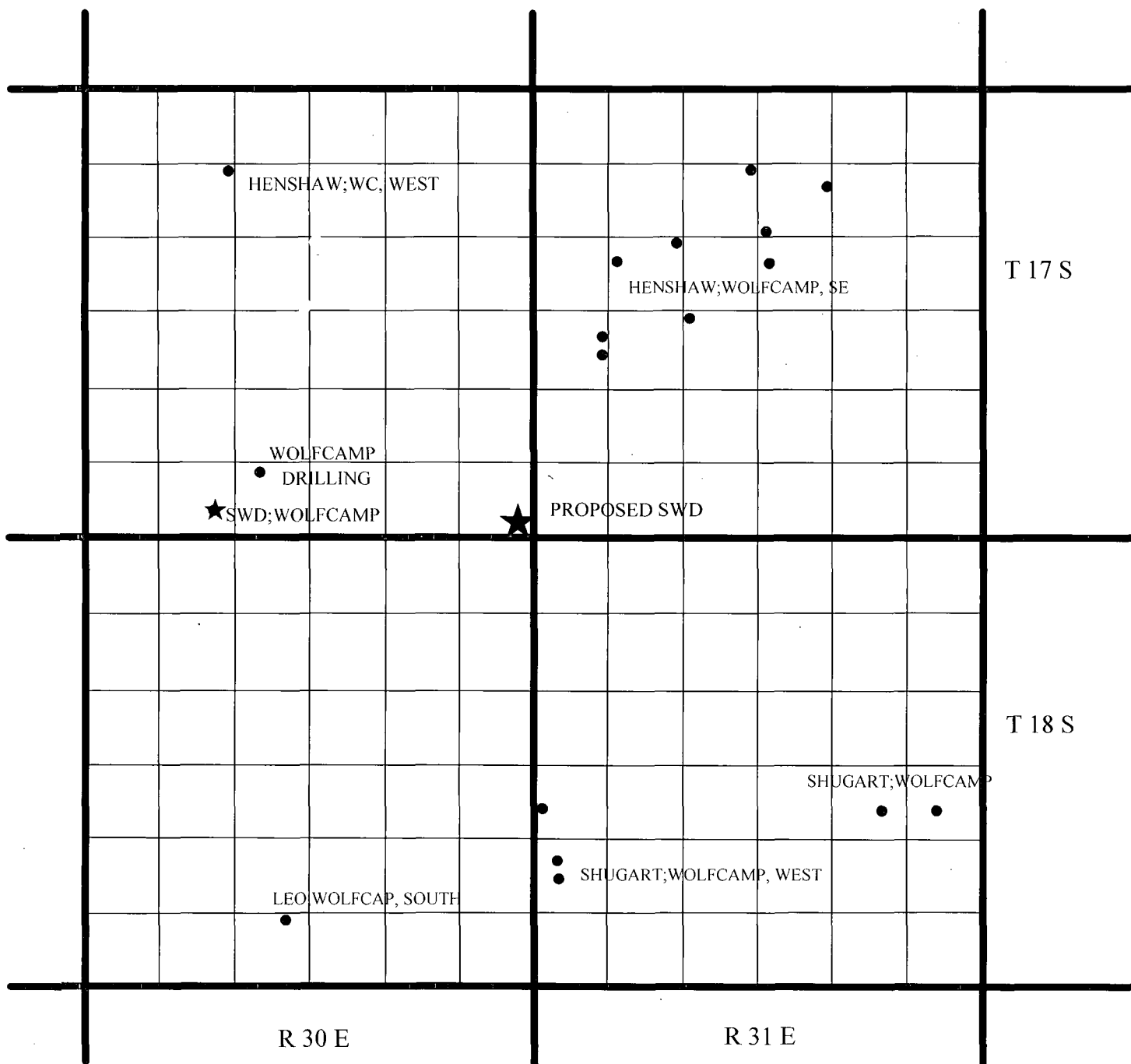
Wolfcamp Production

The nearest production is 2.5 to 4.5 to the northeast in the Henshaw; Wolfcamp, Southeast oil pool (see attached map). Also there is production in the Wolfcamp approximately 3.5 to 4.5 to the south in the Shugart; Wolfcamp, West oil pool.

Henshaw; Wolfcamp, Southeast oil pool: This pool is a stratigraphic trap along a structural nose. Porosity developed in carbonates on the shelf above the slope into the basin.

Shugart; Wolfcamp, West oil pool: This pool is a stratigraphic trap. Porosity developed in detrital carbonates which were shed off shelf and foreslope areas and deposited downslope in a deeper marine environment.

Area around proposed disposal well: Production from the Wolfcamp in the 6 mile radius around the proposed disposal well occur as stratigraphic traps controlled by structure. Around this well there are no structures which would have aided in the trapping of oil and gas.



WOLFCAMP SWD WELLS AND OIL PRODUCERS

7006 1140 0001 3089 7254

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Restricted Delivery Fee (Endorsement Required)	624
Total Postage & Fees	\$ 624
Postmark SEP 23 2008	
Sent To William G. Parker, Sylvia Voorhies and Nancy Halsell, Trustees of the T.R. Parker Estate P.O. Box 1281 Medford, OR 97504	
PS Form 3800, August 2006 See Reverse for Instructions	

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Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624
Postmark SEP 23 2008	
Sent To Read & Stevens, Inc. P.O. Box 1518 Roswell, NM 88202	
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Postmark SEP 23 2008	
Sent To Bureau of Land Management Carlsbad Field Office 620 E. Greene St. Carlsbad, NM 88220	
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Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624
Postmark SEP 23 2008	
Sent To Yates Energy Corporation P.O. Box 2323 Roswell, NM 88202	
PS Form 3800, August 2006 See Reverse for Instructions	

7006 1140 0001 3089 7070

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Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624
Postmark SEP 23 2008	
Sent To Yates Petroleum Corporation 105 South Fourth Street Artesia, NM 88210	
PS Form 3800, August 2006 See Reverse for Instructions	

7008 1140 0001 3089 7049

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Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624
Send To: Abo Petroleum Corporation 105 South Fourth Street Artesia, NM 88210	
PS Form 3800, August 2006 See Reverse for Instructions	

7008 1140 0001 3089 7025

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For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624
Send To: Marbob Energy Corporation P.O. Box 217 Artesia, NM 88210	
PS Form 3800, August 2006 See Reverse for Instructions	

7008 1140 0001 3089 7148

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(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624
Send To: Explorers Petroleum Corp. P.O. Box 1933 Roswell, NM 88202	
PS Form 3800, August 2006 See Reverse for Instructions	

7008 1140 0001 3089 7001

U.S. Postal Service™	
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For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624
Send To: BP America Production Company P.O. Box 3092 Houston, TX 77253	
PS Form 3800, August 2006 See Reverse for Instructions	

7008 1140 0001 3089 7032

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OFFICIAL USE	
Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624
Send To: MYCO Industries, Inc. 105 South Fourth Street Artesia, NM 88210	
PS Form 3800, August 2006 See Reverse for Instructions	

7008 1140 0001 3089 7131

U.S. Postal Service™	
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(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624
Send To: Jalapeno Corporation P.O. Box 1608 Albuquerque, NM 87103	
PS Form 3800, August 2006 See Reverse for Instructions	

7008 1140 0001 3089 7018

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OFFICIAL USE	
Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624
Send To: Pitch Energy Corporation P.O. Box 304 Artesia, NM 88211	
PS Form 3800, August 2006 See Reverse for Instructions	

7008 1140 0001 3089 7230

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OFFICIAL USE	
Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624
Send To: Harvey E. Yates Co. P.O. Box 1933 Roswell, NM 88202	
PS Form 3800, August 2006 See Reverse for Instructions	

7008 1140 0001 3089 7261

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Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624

Postmark Here
 SEP 23 2008

Sent To: Canadian Kenwood Co.
 Street, Apt. No., or PO Box No.: 1910 IDS Center
 City, State, ZIP+4: 80 South Eighth
 Minneapolis, MN 55402

PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7278

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Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624

Postmark Here
 SEP 23 2008

Sent To: FOG Resources, Inc.
 Street, Apt. No., or PO Box No.: P.O. Box 2267
 City, State, ZIP+4: Midland, TX 79702

PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7155

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Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624

Postmark Here
 SEP 23 2008

Sent To: Spiral, Inc.
 Street, Apt. No., or PO Box No.: P.O. Box 1933
 City, State, ZIP+4: Roswell, NM 88202

PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7179

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OFFICIAL USE

Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624

Postmark Here
 SEP 23 2008

Sent To: OXY USA Limited Partnership
 Street, Apt. No., or PO Box No.: Box 4294
 City, State, ZIP+4: Houston, TX 77210-4294

PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7216

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OFFICIAL USE

Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624

Postmark Here
 SEP 23 2008

Sent To: Westall Oil & Gas LLC
 Street, Apt. No., or PO Box No.: P.O. Box 4
 City, State, ZIP+4: Loco Hills, NM 88255

PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7056

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OFFICIAL USE

Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624

Postmark Here
 SEP 23 2008

Sent To: Yates Drilling Corporation
 Street, Apt. No., or PO Box No.: 105 South Fourth Street
 City, State, ZIP+4: Artesia, NM 88210

PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7063

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OFFICIAL USE

Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624

Postmark Here
 SEP 23 2008

Sent To: Occidental Permian LTD
 Street, Apt. No., or PO Box No.: P.O. Box 4294

PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7209

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OFFICIAL USE

Postage	\$ 134
Certified Fee	270
Return Receipt Fee (Endorsement Required)	220
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$ 624

Postmark Here
 SEP 23 2008

Sent To: Yates-McMinn Drilling Venture
 Street, Apt. No., or PO Box No.: P.O. Box 1608
 City, State, ZIP+4: Albuquerque, NM 87103

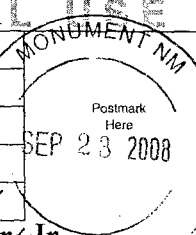
PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7117

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OFFICIAL USE

Postage	\$ 1.34	
Certified Fee	2.70	
Return Receipt Fee (Endorsement Required)	2.20	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 6.24	

Sent To: **Jimmy R. Parker, Jr.**
 Street, Apt. No. or PO Box No.: **P.O. Box 2000**
 City, State, ZIP+4: **Midland, TX 79702**

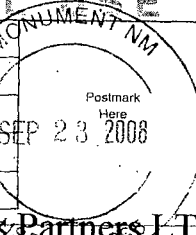
PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7067

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
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For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.34	
Certified Fee	2.70	
Return Receipt Fee (Endorsement Required)	2.20	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 6.24	

Sent To: **Camtera Resources Partners LTD**
 Street, Apt. No. or PO Box No.: **P.O. Box 2069**
 City, State, ZIP+4: **Marshall, TX 75671**

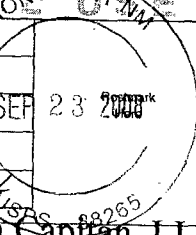
PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7100

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OFFICIAL USE

Postage	\$ 1.34	
Certified Fee	2.70	
Return Receipt Fee (Endorsement Required)	2.20	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 6.24	

Sent To: **Nadel & Gussman Capitan, LLC**
 Street, Apt. No. or PO Box No.: **15 East 5th St., Suite 3200**
 City, State, ZIP+4: **Tulsa, OK 74103**

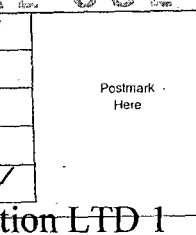
PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7094

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OFFICIAL USE

Postage	\$ 1.34	
Certified Fee	2.70	
Return Receipt Fee (Endorsement Required)	2.20	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 6.24	

Sent To: **Texas Reexploration LTD I**
 Street, Apt. No. or PO Box No.: **3025 Maxroy Street**
 City, State, ZIP+4: **Houston, TX 77008**

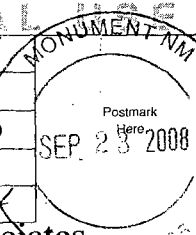
PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7124

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OFFICIAL USE

Postage	\$ 1.34	
Certified Fee	2.70	
Return Receipt Fee (Endorsement Required)	2.20	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 6.24	

Sent To: **Warfield Associates**
 Street, Apt. No. or PO Box No.: **P.O. Box 6366**
 City, State, ZIP+4: **Midland, TX 79701**

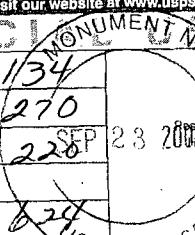
PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7193

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OFFICIAL USE

Postage	\$ 1.34	
Certified Fee	2.70	
Return Receipt Fee (Endorsement Required)	2.20	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 6.24	

Sent To: **Eastland Oil Co.**
 Street, Apt. No. or PO Box No.: **Box 3488**
 City, State, ZIP+4: **Midland, TX 79702**

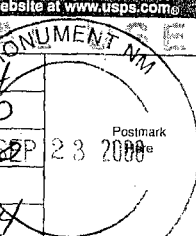
PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7162

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

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

OFFICIAL USE

Postage	\$ 1.34	
Certified Fee	2.70	
Return Receipt Fee (Endorsement Required)	2.20	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 6.24	

Sent To: **Laurelind Corporation**
 Street, Apt. No. or PO Box No.: **P.O. Box 2143**
 City, State, ZIP+4: **Roswell, NM 88202**

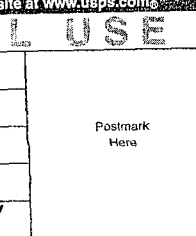
PS Form 3800, August 2006 See Reverse for Instructions

7008 1140 0001 3089 7266

U.S. Postal Service™
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For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$ 1.34	
Certified Fee	2.70	
Return Receipt Fee (Endorsement Required)	2.20	
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$ 6.24	

Sent To: **Chevron USA**
 Street, Apt. No. or PO Box No.: **1411 S. Wilcrest**
 City, State, ZIP+4: **Houston, TX 77099**

PS Form 3800, August 2006 See Reverse for Instructions

Injection Permit Checklist (7/8/08)

Case _____ R- SWD 1146 WFX _____ PMX _____ IPI _____ Permit Date _____ UIC Qtr _____

Wells _____ Well Name: LoCo Hills SWD #1 (was GOE State #1)

API Num: (30-) 05-31635 Spud Date: 11/15/01 New/Old: N (UIC primacy March 7, 1982)

Footages 660 FSL / 860 FEL Unit P Sec 36 Tsp 17S Rge 30E County EDDY

Operator: COG OPERATING, LLC Contact Mark A. FIRCHILD

OGRID: 0229137 RULE 40 Compliance (Wells) 7/1255 (Finan Assur) Red Road St #2

Operator Address: 550 W. TEXAS AVE SUITE 1300 MIDLAND TX 79701

Current Status of Well: P & A

Planned Work to Well: Re-enter - Run 7" T. 9500' (non commercial) Planned Tubing Size/Depth: 3 1/2" @ 8710'

	Sizes Hole.....Pipe	Setting Depths	Cement Sx or Cf	Cement Top and Determination Method
Existing <input checked="" type="checkbox"/> Surface	17 1/2 13 3/8	625	550	CIRC
Existing <input checked="" type="checkbox"/> Intermediate	12 1/4 9 5/8	400	1700	CIRC
Existing <input checked="" type="checkbox"/> Long String	8 3/4 7"	9500	1000	TS (TIE BACK)

DV Tool EF Liner EF Open Hole EF Total Depth 1700' PBD (9500' after THIS)

Well File Reviewed ☒

Diagrams: Before Conversion ☒ After Conversion ☒ Elogs in Imaging File: ☒

Intervals:	Depths	Formation	Producing (Yes/No)
Above (Name and Top)			
Above (Name and Top)	4956 - BS.		
Injection.....	6258 - wetop		
Interval TOP:	8810	WC	
Injection.....	9162	WC	
Interval BOTTOM:			
Below (Name and Top)	9703	P. perm	

1762 PSI Max. WHIP
NO Open Hole (Y/N)
Yes Deviated Hole?

Sensitive Areas: Capitan Reef Chert House Salt Depths 682-1490'

... Potash Area (H-111-P) NO Potash Lessee NO Notified?

Fresh Water: Depths: _____ Wells (Y/N) NO Analysis Included (Y/N): _____ Affirmative Statement ☒

Salt Water: Injection Water Types: SA/OW/FRVLS Analysis? _____

Injection Interval..... Water Analysis: _____ Hydrocarbon Potential ?

Notice: Newspaper (Y/N) ☒ Surface Owner SLO Mineral Owner(s) _____

RULE 701B(2) Affected Parties OKY? ? Enrich OIL? ? Charm? ? need Lodon analysis

Area of Review: Adequate Map (Y/N) ☒ and Well List (Y/N) ☒

Active Wells 0 Num Repairs _____ Producing in Injection Interval in AOR NO

..P&A Wells 0 Num Repairs _____ All Wellbore Diagrams Included? NO

Questions to be Answered:

Run CBL to verify TOP

Required Work on This Well: _____ Request Sent _____ Reply: _____

AOR Repairs Needed: _____ Request Sent _____ Reply: _____

_____ Request Sent _____ Reply: _____