L	I doy wis	SUPPOISE	ENGINEER	LOOGEDN	SwD TYPE	APP NO.	 
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		J	- Engine	CONSERVATION DI eering Bureau - Is Drive, Santa Fe, NM 87	(I.)		
	·	ADN	INISTRATI	/E APPLICATIO	N CHECK	LIST	
	THIS CHECKLI	ST IS MANDATC		ATIVE APPLICATIONS FOR EXC DCESSING AT THE DIVISION LET	EPTIONS TO DIVIS	ION RULES AND	REGULATIONS
Ap	онсј (1	i-Standard I Downhole C IC-Pool Com [WFX-Y [S]	commingling] [CT mingling] [OLS - Yaterflood Expansio WD-Salt Water Disp	-Standard Proration Unit B-Lease Commingling] Off-Lease Storage] [O on] [PMX-Pressure Mai posai] [IPI-Injection Pre bry Certification] [PPR	[PLC-Pool/Les LM-Off-Lease h intenance Expansion Increase Positive Produ	ase Comming Jeasurement ansion] 9] Iction Respon	ling] ] 1sel
r11	• .				-54	-13 1614	
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	CI [B	] <u>Com</u> n	lly for [B] or [C] ingling - Storage - M HC [] CTB [		OLS 🗌 OL	M 2005 OCT	RECI
	ţc			ure Increase - Enhanced ( SWD [] IPI []	Dil Recovery EOR 🔲 PP	R N	RECEIVED OC
	[D]	Other:	Specify			, Č	00
[2]	NOTIFIC/ [A]	TION REC	QUIRED TO: - Che orking, Royalty or O	eck Those Which Apply, ( verriding Royalty Interest	r Does Not A Owners	••••	
	[8]	🕅 Of	fset Operators, Lease	cholders or Surface Owne	<b>r</b> .	ne -Las	4nnGuAnd
	[C]	Ap	plication is One Whi	ich Requires Published La	gal Notice		-015-2163 E
	ູ [D]		tification and/or Con Bureau of Land Management - (	Commissioner of Public Lands, Slate L	Dor SLO		2001
	(E)	🔀 For	all of the above, Pro	of of Notification or Publ	ication is Attac	hed, and/or,	Sho's Dela
	[F]	. 🔲 Wai	ivers are Attached		•	•	96100
J.	SUBMIT AC	CURATE	AND COMPLETE	INFORMATION REQ			

[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.

\* \$5 X

Edlie W Soory	Ellin	Lean Azent	9/11/15
Print or Type Name	Signature	Title 3	Dato
		sear 04 @	leaco. net

#### STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

# APPLICATION FOR AUTHORIZATION TO INJECT

	PURPOSE:       Secondary Recovery       Pressure Maintenance       X       Disposal       Storage         Application qualifies for administrative approval?       X       Yes       No
П.	OPERATOR:Cherokee Disposal LLC
	ADDRESS: _301 Hinson Rd., Lovington, NM 88260
	CONTACT PARTY: Kenneth BossPHONE: _575-390-0344
ш.	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?YesX_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:
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>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.).</li> </ol>
*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: Kenneth Boss TITLE: Owner-Operator
	SIGNATURE: DATE: 925 15
	E-MAIL ADDRESS: BMb Rentale @ yahoo. 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: Filed when drilled.
DIST	RIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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## **ATTACHMENT TO APPLICATION C-108**

Laguna Grande #1 (API 30-015-21636) Unit I, Sect. 28, Tws. 23 S., Rng. 29 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) 4 1/2'' coated tubing.
  - 4) Baker lock set or the equivalent.
- B. 1) Injection formation is the Bell Canyon:
  - 2) Injection interval 2950' to 3400'.
  - 3) This is an existing well converted to SWD.
  - 4) The next higher producing zone is the base of salt at 2900'. The next lower producing zone is the Cherry Canyon at approximately 3900'.
- IV. NO.
- V. MAP ATTACHED.

### VI. LIST OF WELLS AND DATA ATTACHED.

- VII. Cherokee plans to convert the Laguna Grande #1 to a SWD, to dispose of water from various producers. Will pull production equipment, plug well back as schematic points out and as approved, selectively perforate from 3000' 3400', acidize as needed. Run in hole with 4 1/2" coated tubing and packer set at approximately 2900' or within 100 ft. of top perfs. Load backside with packer fluid, run MIT as OCD requires and put on injection. File sundry report.
  - 1) Plan to inject approximately 10,000 bls per day.
  - 2) Commercial, closed system.
  - 3) Average injection pressure should be approximately 600# or whatever limit OCD allows.
  - 4) Produced water from various operations.
- VIII. The proposed disposal formation is interbedded sand and limestone. The primary geologic formation is the Bell Canyon from 2950' to 3400'.

The fresh water formation for this area would be the Santa Rosa which would be between 300' to 400' below surface, no sampling points available.

# IX. ACID AS NEEDED.

# X. PREVIOUSLY SUBMITTED TO OCD.

## XI. ATTACHED.

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.

ide 1 " INJE	CTION WELL DATA SHEET	· · · · · · · · · · · · · · · · · · ·
OPERATOR: Cherke Disposals LLC		
VELL NAME & NUMBER: Laguna Grande	#1 (API 30.015.2163	6
VELL LOCATION: 1380 5 990 E FOOTAGE LOCATION	UNIT LETTER SECTION	23 29 TOWNSHIP RANGE
WELLBORE SCHEMATIC	<u>WELL (</u>	ONSTRUCTION DATA
· ·	Surface	Casing
AFTER WELLBORE SCHEMATIC COMPLETION SCHEMATIC FORM DEPTH FORM DEPT	Hole Size:7.5	Casing Size: 13.375
Image: Second	Cemented with: <u>325</u> sx.	or
& SOF         PCRL®         PERF®         11688-11669           TOC @ F         PCOL         PCRT®         1588-11669           PCOL         PCRT®         1588-11669           PCOL         PCRT®         FCRT®         771-4566           LAGIRAA SALADC//BONE SPRING, 8         PCRT®         6664-6599           RRUBHY CANYON (DRY)         PCRT®         6664-6599	Top of Cement: <u>Sur (cee</u> <u>Intermedia</u>	Method Determined: <u>Cere</u>
CASHQ RECORD           BURP         CANT         HOLE SIZE         1700           BURP         13.375         543         1326 stra         17.6         0" Circ           BURP         13.775         543         1326 stra         17.6         0" Circ           BURP         13.77         543         1326 stra         17.6         0" Circ           BURP         13.76         1400 stra         17.2.8         0" Circ           FROM         10644         700 stra         11.2.8         0" Circ	Hole Size: 12. 25	
UNER         6         (researces)         775 83.57         6.6         103243           SPUID:         10/13/178         COMP:         83/627/8778         59 300	Cemented with: $1300$ sx.	Casing Size: <u>10, 75</u>
0 3000     2000       Datamanare     2000       Start Charges     3000	Top of Cement:	Method Determined:
Chamy Gayron 6000	U Production	
Denne Spring 6716	Hole Size: 95	
DV Test & \$210		Casing Size: 7. 4 5
	Top of Cement: <u>Scarbe</u> sz	
G 1960 TOC g 4 Stream 1155 Stream 1155	Total Depth 13700	Method Determined: <u>CULD</u> Sin liner 10343 - 13645
Aloka 12080 Morrow 12212	Injection	
	<u> </u>	to_3400

# INJECTION WELL DATA SHEET

Lining Material: IPC Tubing Size: Type of Packer: Baker set or the equivalent 100 Packer Setting Depth: App 2900 on within 100 A. of top ports. Other Type of Tubing/Casing Seal (if applicable): None

# Additional Data

1.	Is this a new well drilled for injection?YesNo
	If no, for what purpose was the well originally drilled? oil d gas
	tested several zones
2.	Name of the Injection Formation: Bell Conyon
3.	Name of Field or Pool (if applicable): 100 une
4 <sub>-</sub>	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. Morrow?
	Strawn, Bone Spring, Brushy Canyon - see schematic
5.	Give the name and depths of any oil or gas zones underlying or overlying the propose injection zone in this area:
	B. Salt at 2900
	Cherry Canyon 3993
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	· · · · · · · · · · · · · · · · · · ·

Side 2



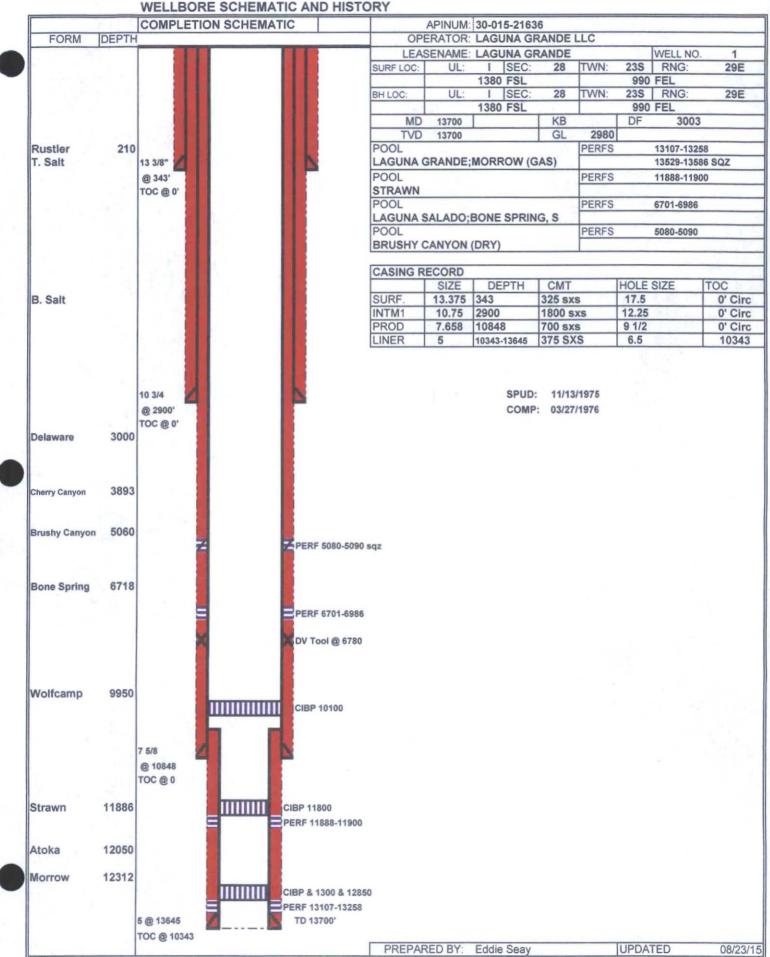
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30-015-21636	LUGUNA GRANDE	1 CHEROKEE DISPOSAL LLC	· 0	0	А	Eddy F	I	28	23 S	29 E	1380 S	990 E

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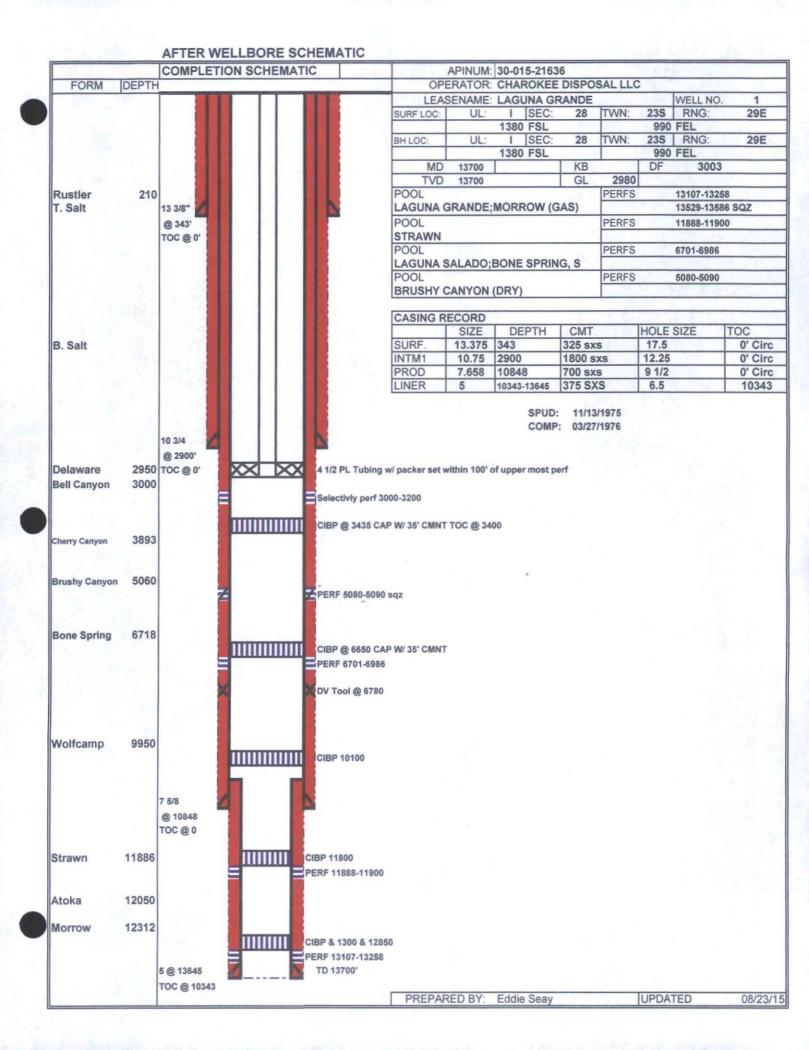
#### Wells within 0.5 miles of proposed disposal well

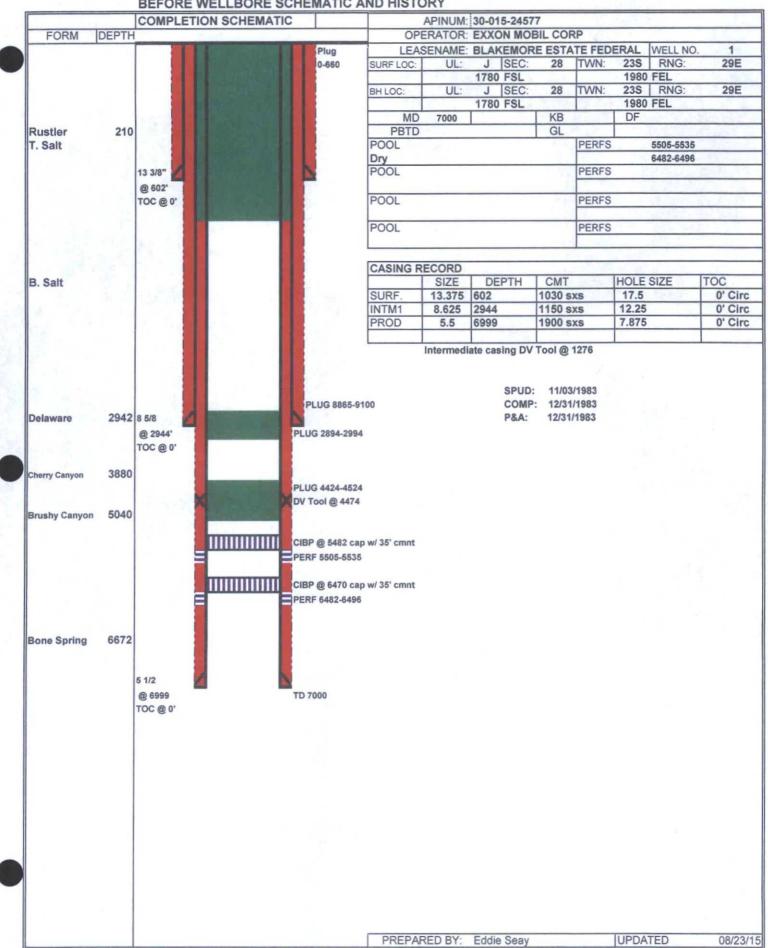
API #	PROPERTY NAME	#	OPERATOR	MD	TVD	TYPE	STAT	co	LAND	U/L	SEC	TWN	RNG	N/S	I	E/W		Dist
30-015-24577	BLAKEMORE ESTATE FEDERAL	1	EXXON MOBIL CORP	7000	7000	0	Р	Eddy	F	J	28	23 S	29 E	1780	S	1980	Е	1067
30-015-41138	CYPRESS 28 FEDERAL	6H	OXY USA INC	11425	6574	0	A	Eddy	F	N	28	23 S	29 E	330	S	2000	w	2519
30-015-41303	CYPRESS 28 FEDERAL	7H	OXY USA INC	0	0	0	N	Eddy	F	0	28	23 S	29 E	330	S	1400	E	1127
30-015-36137	GOODNIGHT 27 FEDERAL	2H	OXY USA INC	11160	7846	0	А	Eddy	F	l	27	23 S	29 E	2460	S	1330	W	2559
30-015-39220	GOODNIGHT 27 FEDERAL	3H	OXY USA INC	11419	7789	0	А	Eddy	F	М	27	23 S	<b>29</b> E	962	S	364	W	1417
30-015-39431	GOODNIGHT 27 FEDERAL	5H	OXY USA INC	10409	6661	0	A	Eddy	F	М	27	23 \$	29 E	906	S	459	W	1524
30-015-37308	CYPRESS 33 FEDERAL	2H	OXY USA INC	11400	7649	0	A	Eddy	F	A	33	23 5	29 E	635	N	765	Е	2027
30-015-40768	CYPRESS 33 FEDERAL COM	5H	OXY USA INC	12929	8737	0	А	Eddy	F	А	33	23 S	29 E	453	N	803	E	1842
30-015-41557	CYPRESS 33 FEDERAL COM	6H	OXY USA INC	13152	8744	0	A	Eddy	F	Α	33	23 5	29 E	466	N	1040	E	1846
30-015-42616	CYPRESS 33 FEDERAL COM	7H	OXY USA INC	13592	8746	0	A	Eddy	F	С	33	23 S	29 E	150	N	1900	E	1780
30-015-35742	CYPRESS 34 FEDERAL	4H	OXY USA INC	10758	7839	0	A	Eddy	F	D	34	23 5	29 E	480	N	560	W	2421
30-015-43076	CYPRESS 34 FEDERAL	10H	OXY USA INC	0		0	N	Eddy	F	D	34	23 5	29 E	210	N	330	w	2066

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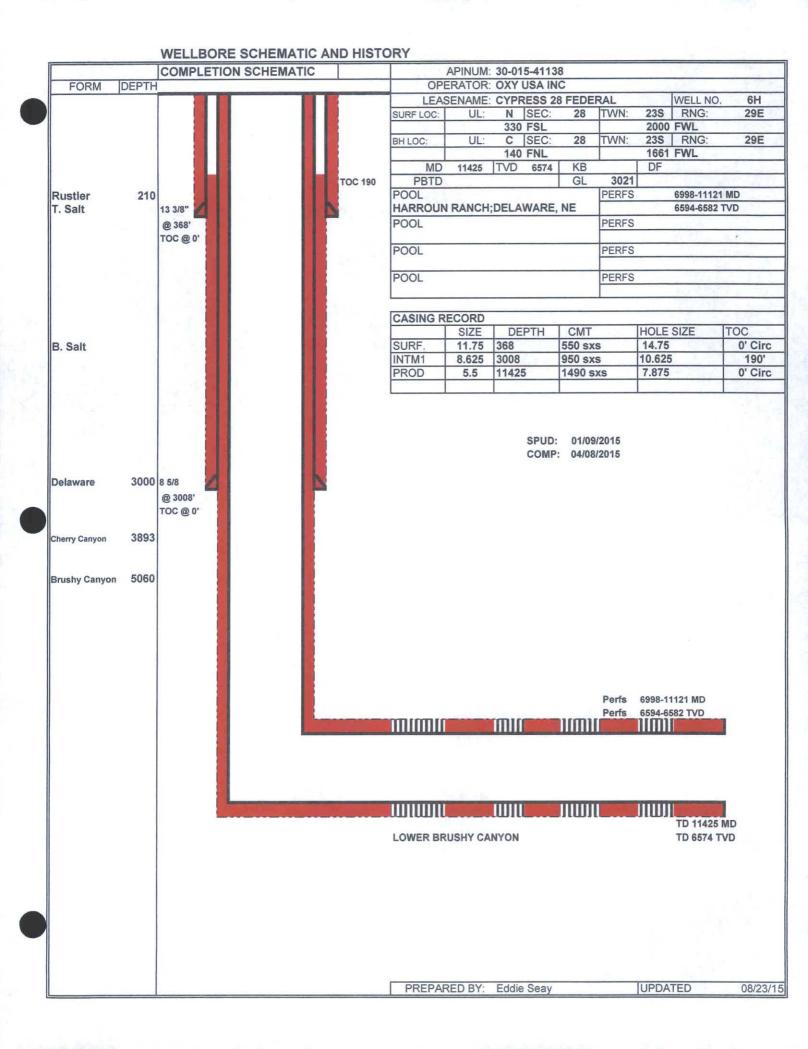


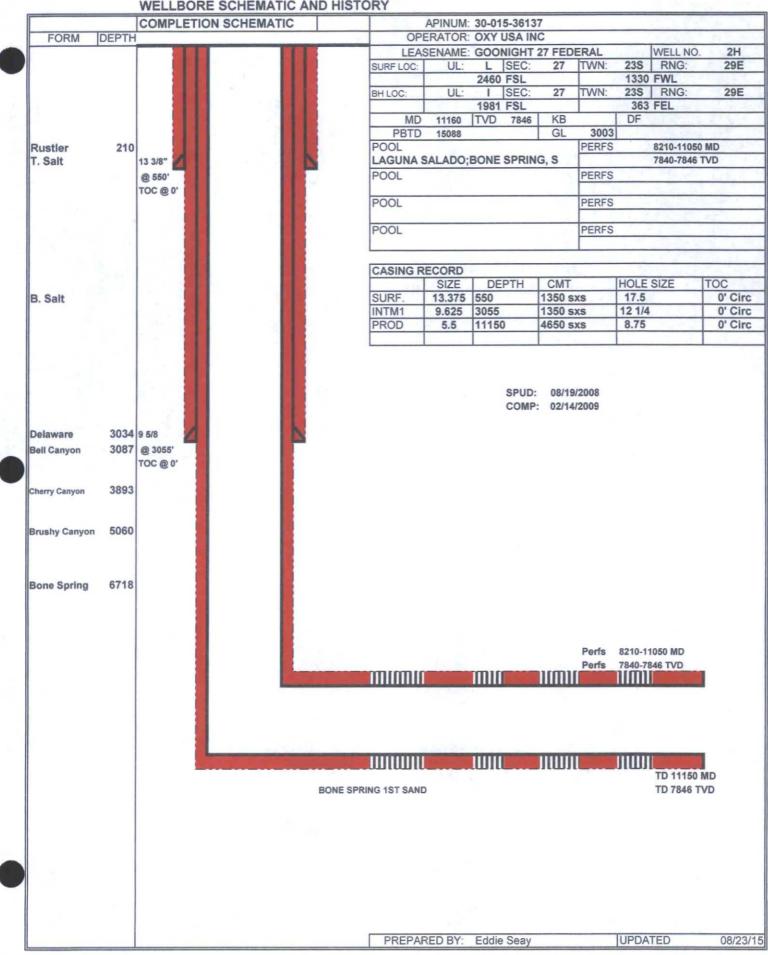
#### WELLBORE SCHEMATIC AND HISTORY



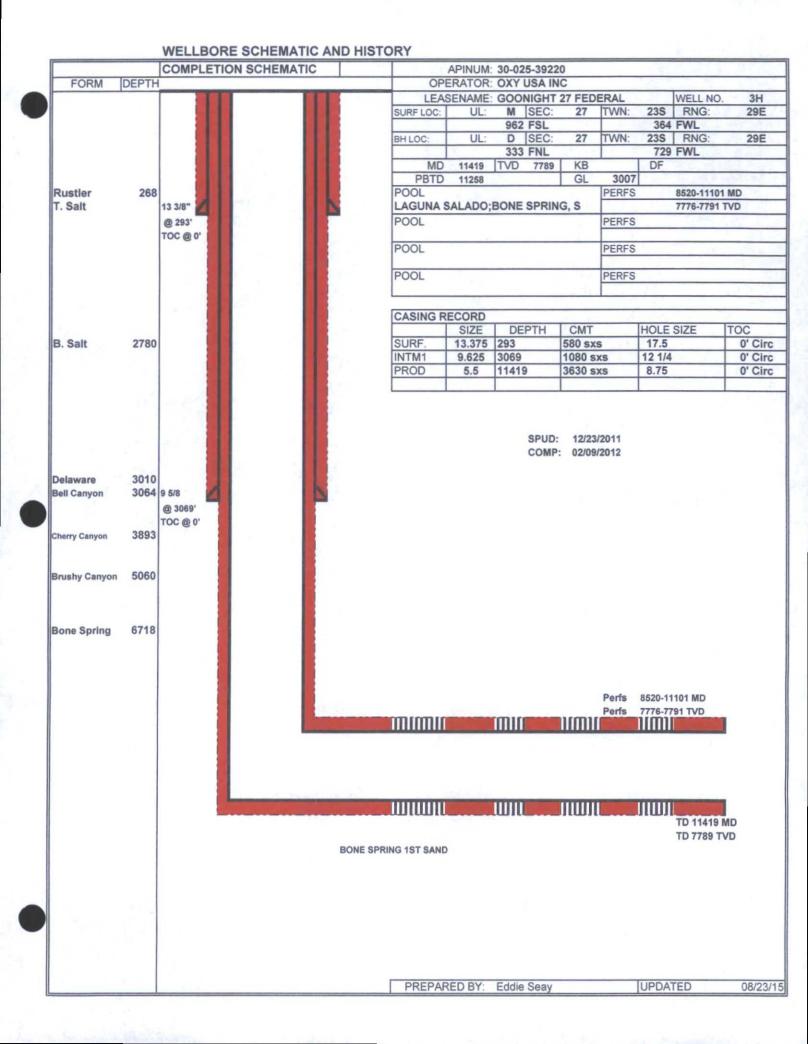


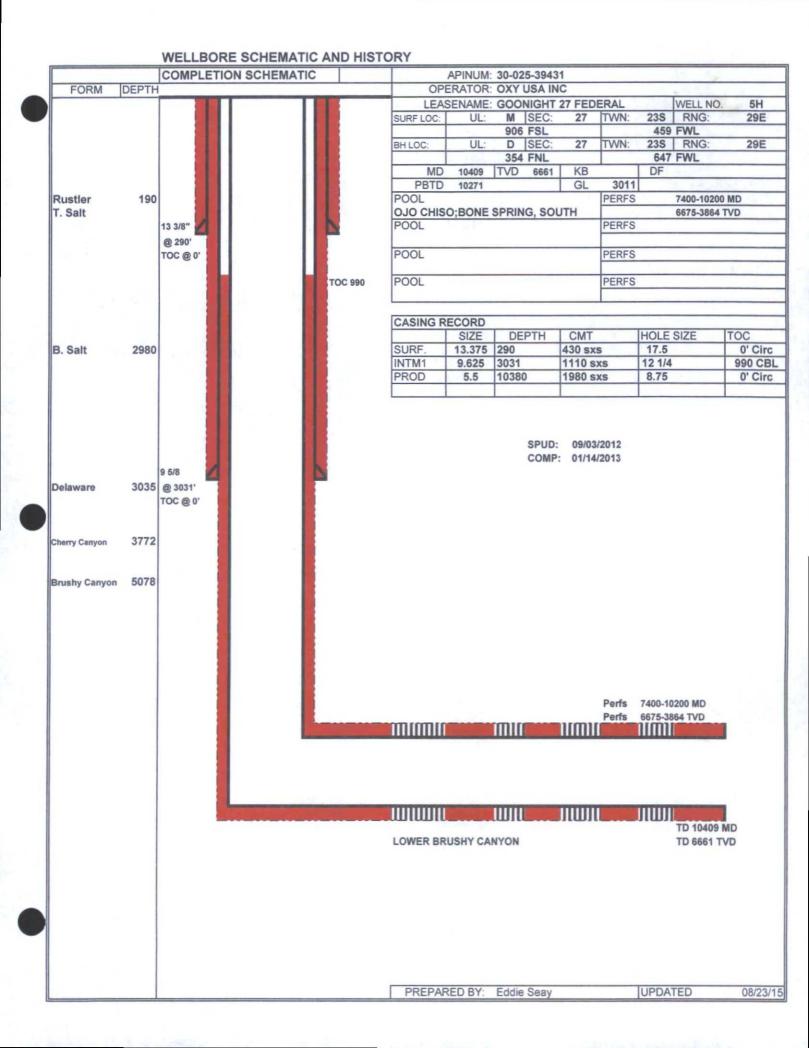
#### BEFORE WELLBORE SCHEMATIC AND HISTORY

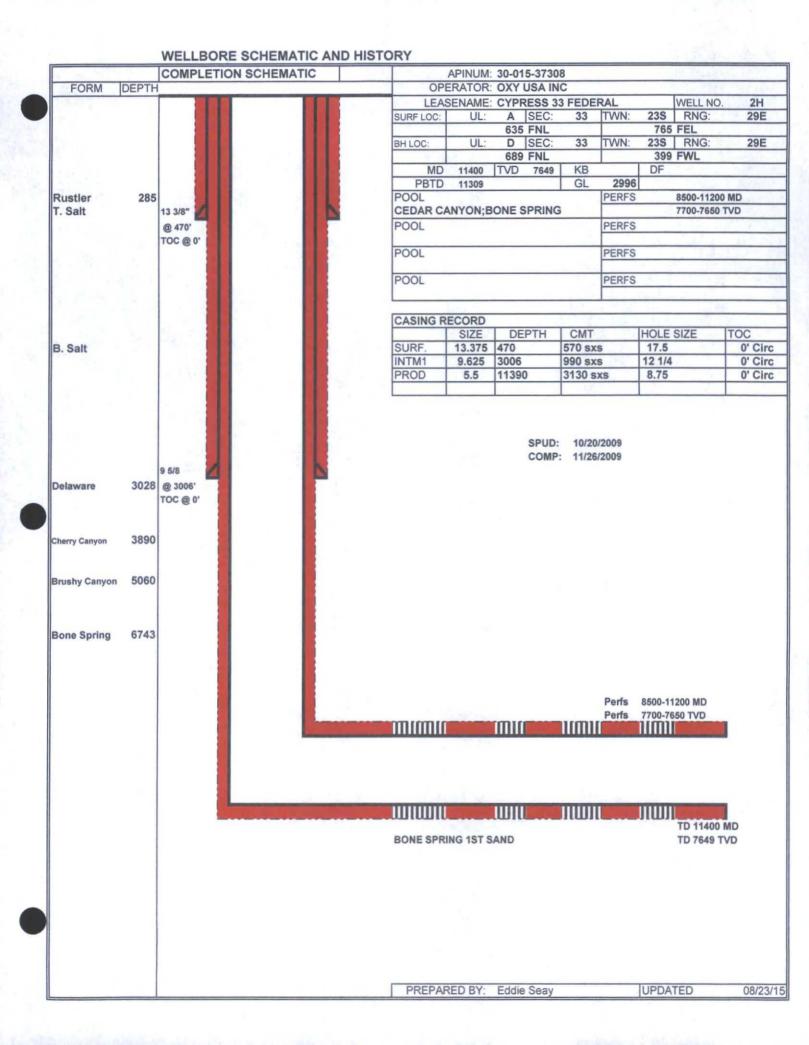


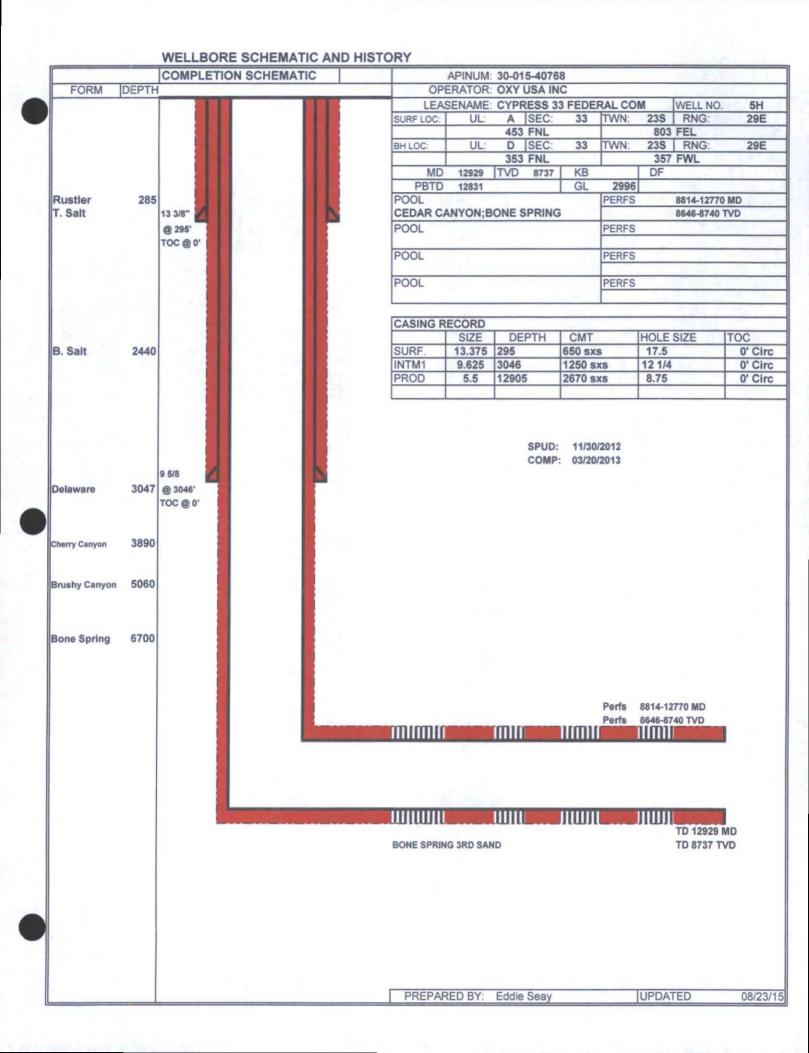


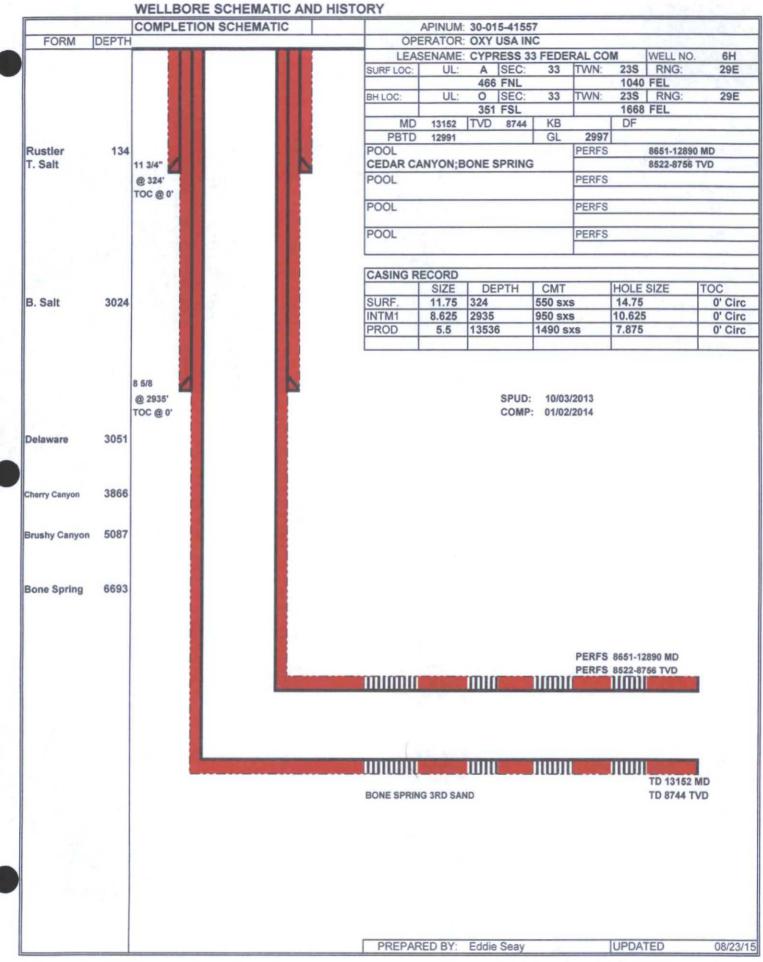
#### WELLBORE SCHEMATIC AND HISTORY

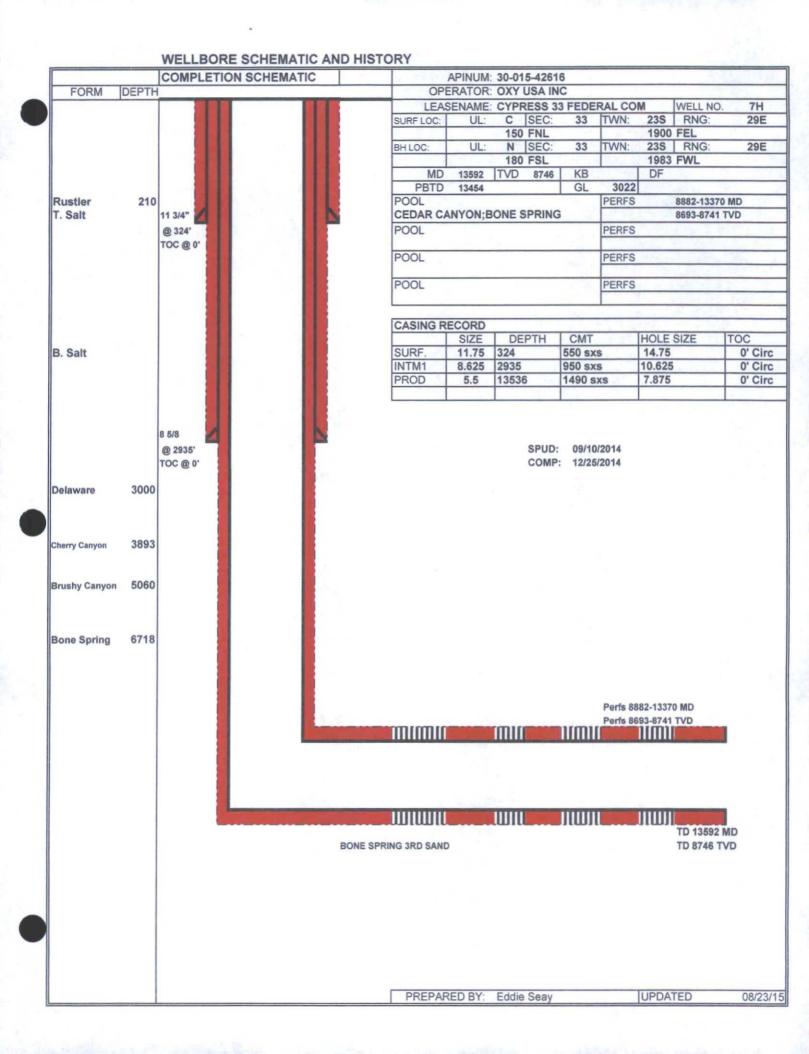


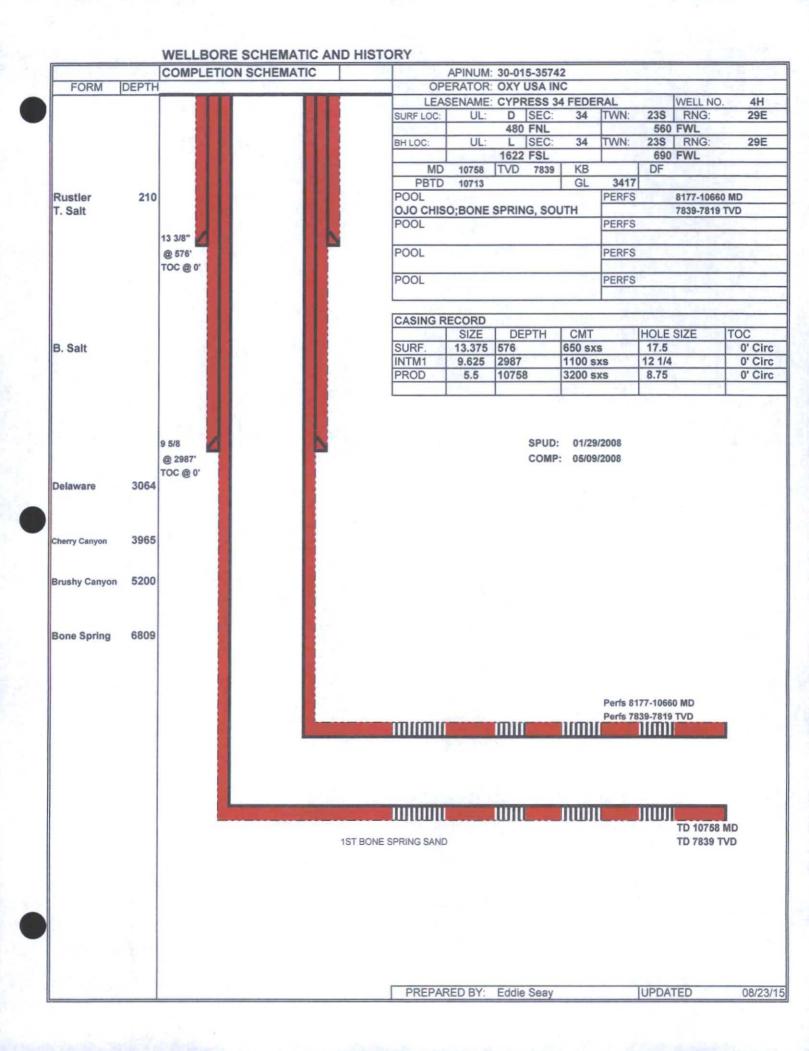














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30-015-21636	LUGUNA GRANDE	1 CHEROKEE DISPOSAL LLC	0	- IO [A	L Eddy F	1 28	3 23 S 29 E	1380 S 990 E

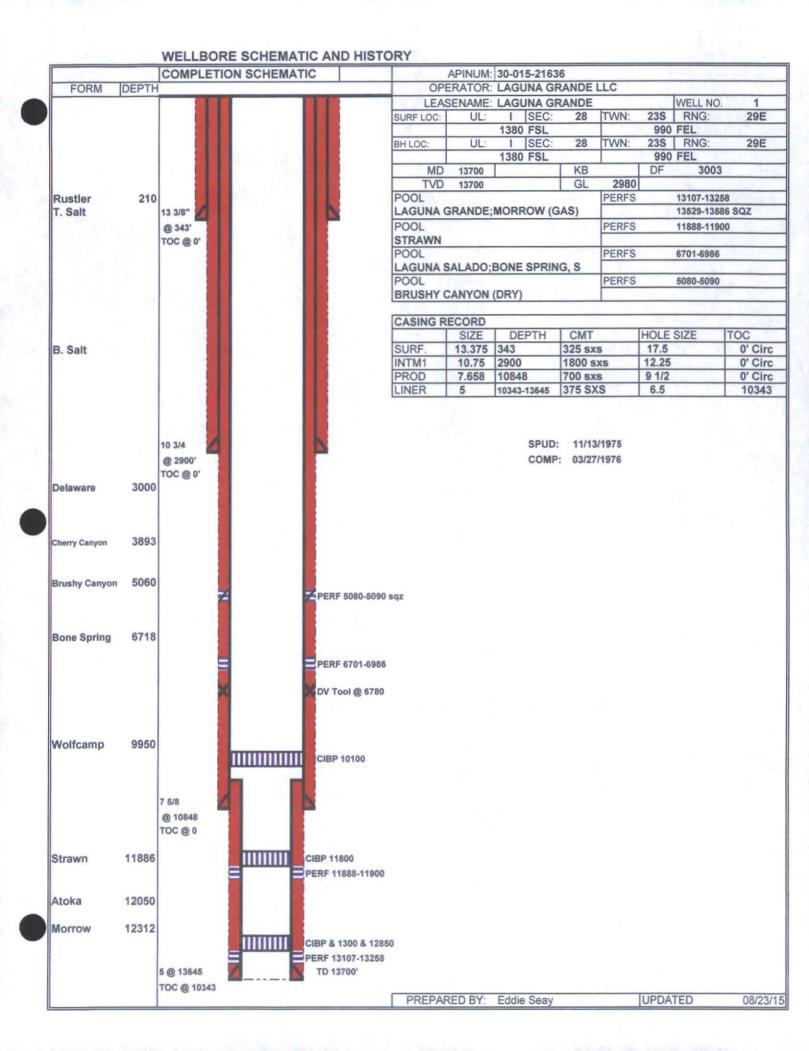
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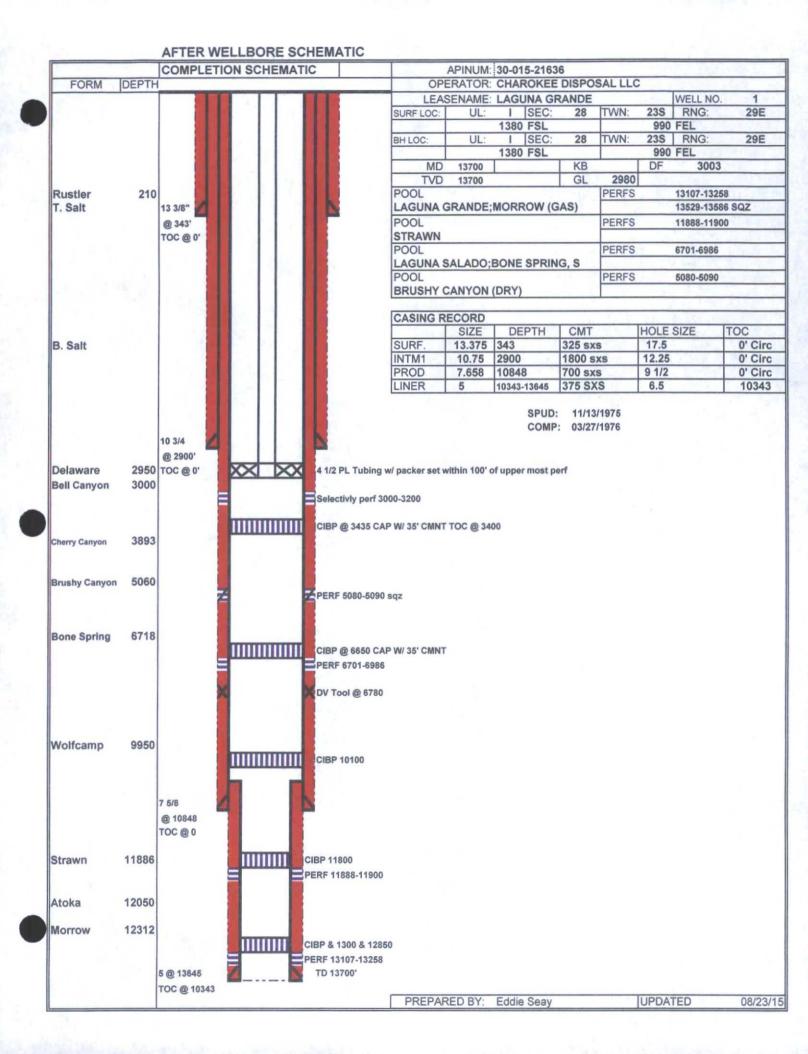
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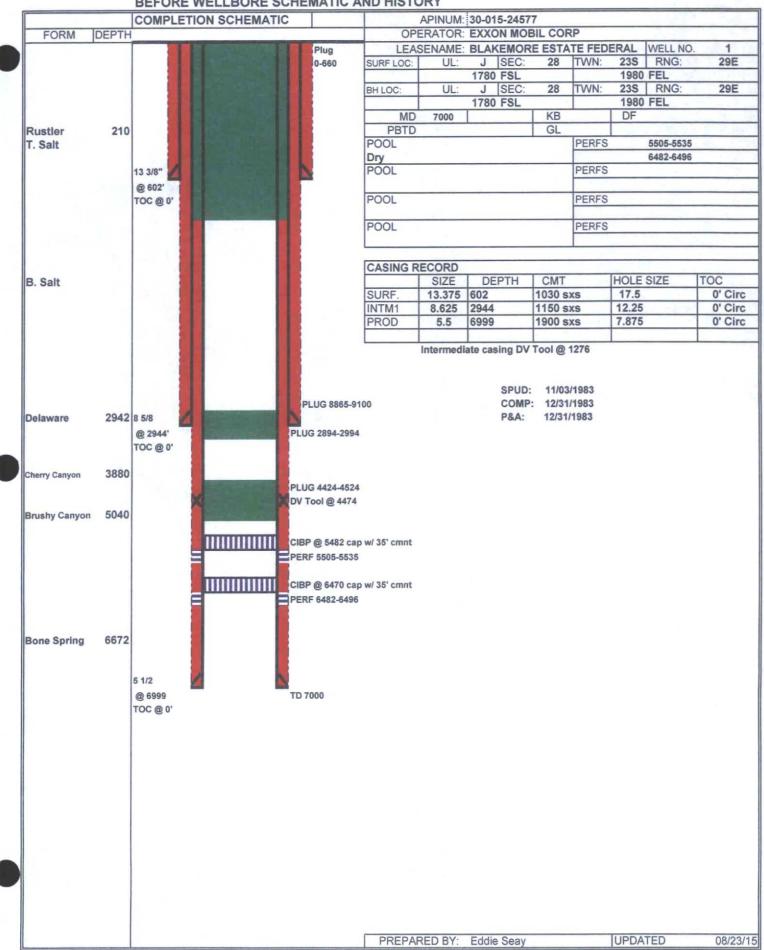
#### Wells within 0.5 miles of proposed disposal well

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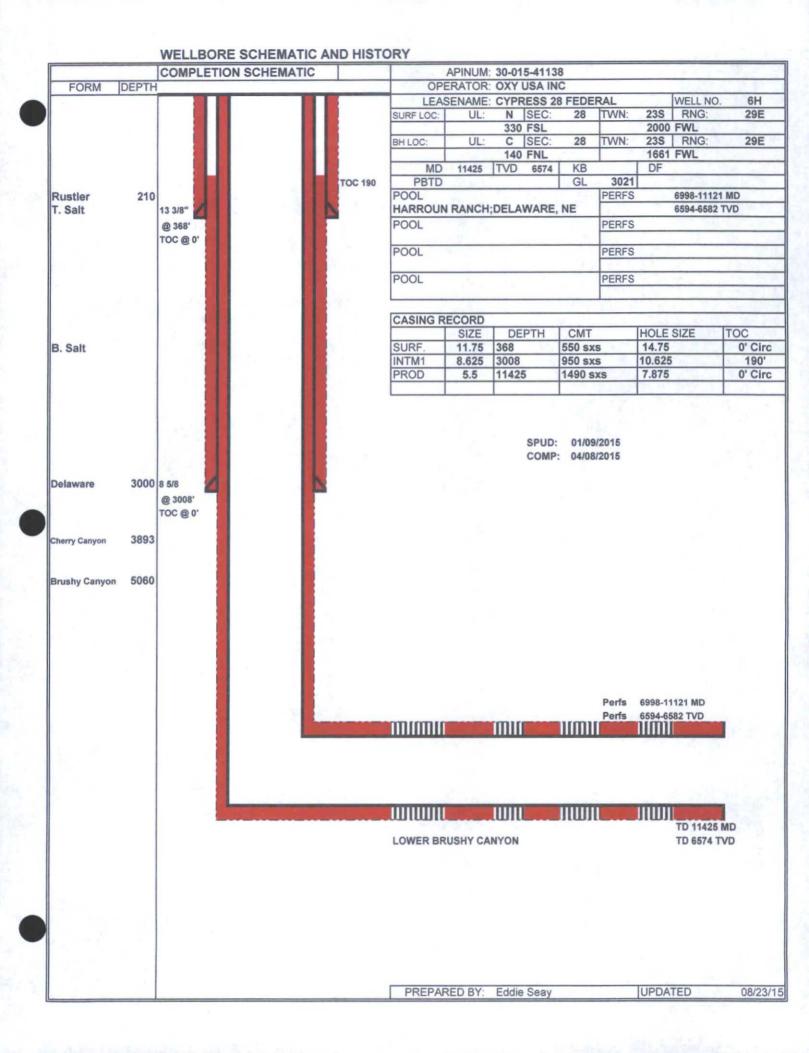
API #	PROPERTY NAME	#	OPERATOR	MD	TVD	TYPĖ	STAT	co	LAND	U/L	SEC	TWN	RNG	N/S	E/W	ľ	Dist
30-015-24577	BLAKEMORE ESTATE FEDERAL	1	EXXON MOBIL CORP	7000	7000	0	Р	Eddy	F	J	28	23 S	29 E	1780	5 19	80 E	1067
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80-015-36137	GOODNIGHT 27 FEDERAL	2H	OXY USA INC	11160	7846	0	A	Eddy	F	L	27	23 S	29 E	2460	S 13.	30 W	2559
30-015-39220	GOODNIGHT 27 FEDERAL	3H	OXY USA INC	11419	7789	0	A	Eddy	F	М	27	23 S	29 E	962	S 3	64 W	141
30-015-39431	GOODNIGHT 27 FEDERAL	5H	OXY USA INC	10409	6661	0	A	Eddy	F	М	27	23 S	29 E	906	S 4	59 W	152
30-015-37308	CYPRESS 33 FEDERAL	2H	OXY USA INC	11400	7649	0	A'	Eddy	F	A	33	23 S	29 E	635	N 7	65 E	202
30-015-40768	CYPRESS 33 FEDERAL COM	5H	OXY USA INC	12929	8737	0	A	Eddy	F	A	33	23 S	29 E	453	N 8	03 E	184
30-015-41557	CYPRESS 33 FEDERAL COM	6H	OXY USA INC	13152	8744	0	A	Eddy	F	A	33	23 S	29 E	466	N 10	40 E	184
30-015-42616	CYPRESS 33 FEDERAL COM	7H	OXY USA INC	13592	8746	0	A	Eddy	F	С	33	23 S	5 29 E	150	N 19	00 E	1780
30-015-35742	CYPRESS 34 FEDERAL	4H	OXY USA INC	10758	7839	0	Ä,	Eddy	F	D	34	23 S	5 29 E	480	N 5	60 W	242
30-015-43076	CYPRESS 34 FEDERAL	10H	OXY USA INC	0		0	XA	Eddy	F	D	34	23 S	29 E	210	N 3	30 W	2066

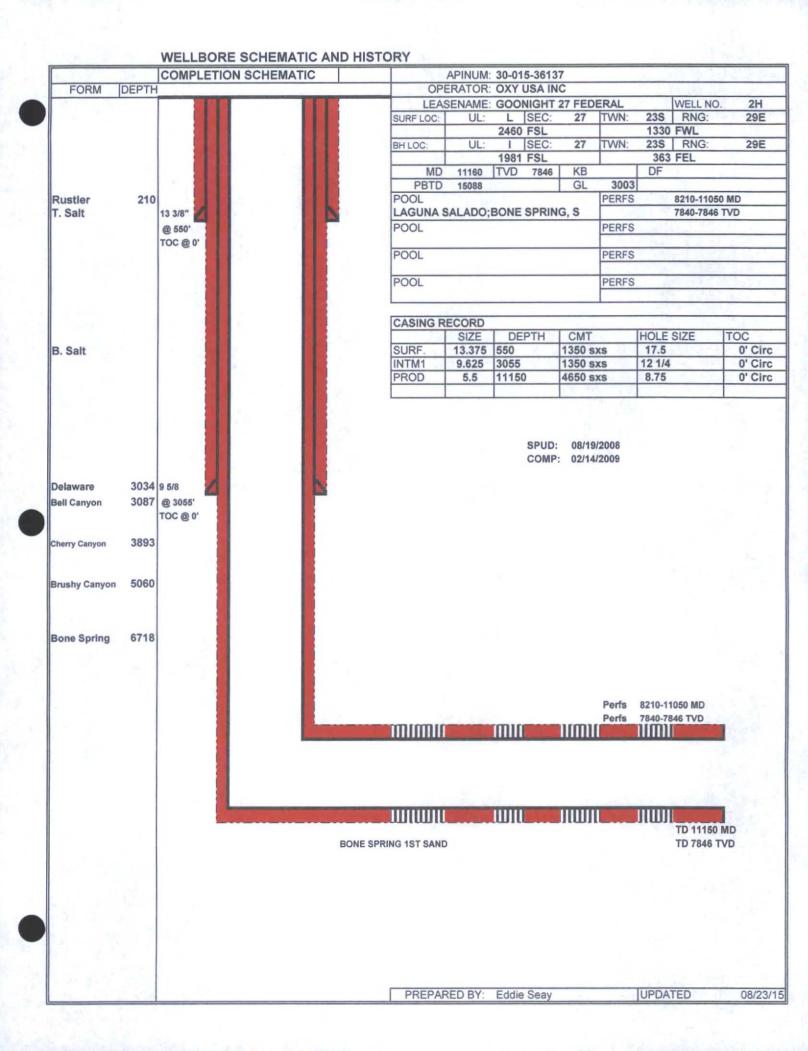


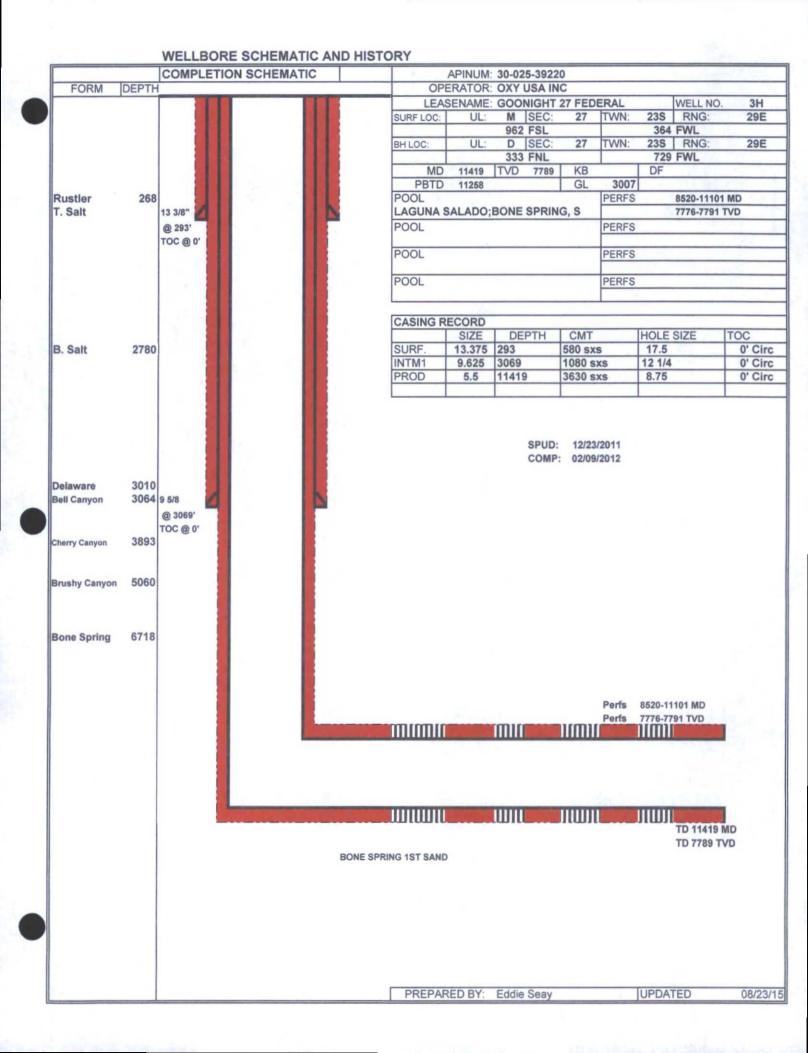


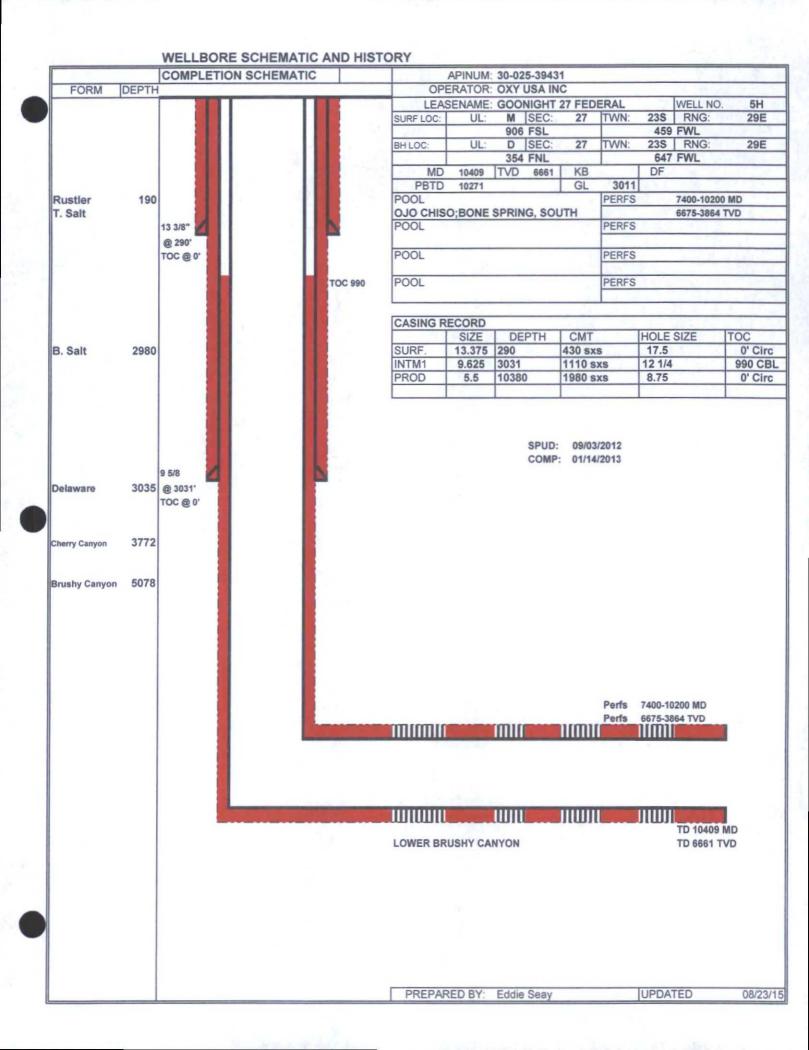


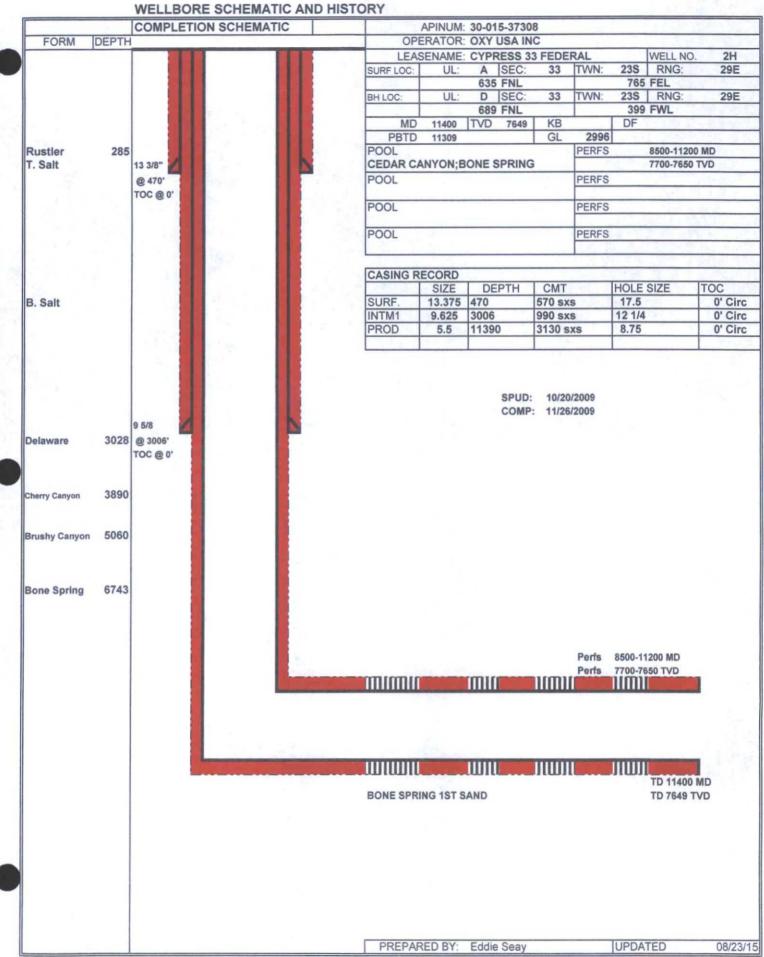
#### BEFORE WELLBORE SCHEMATIC AND HISTORY

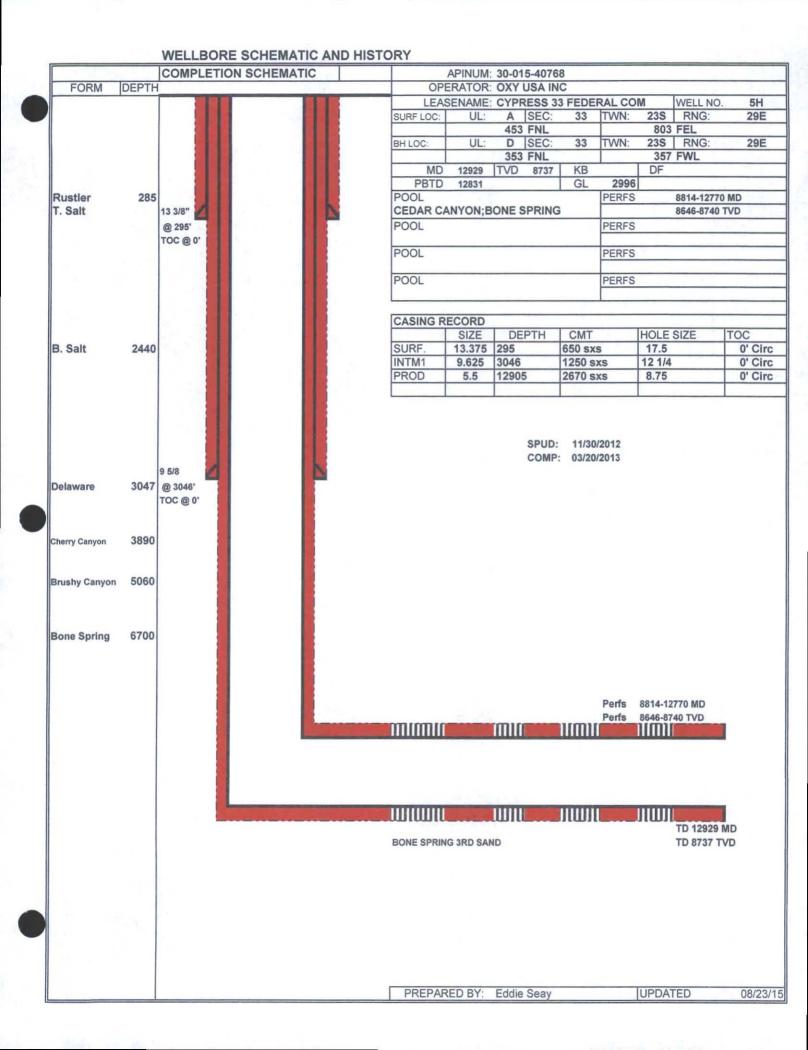


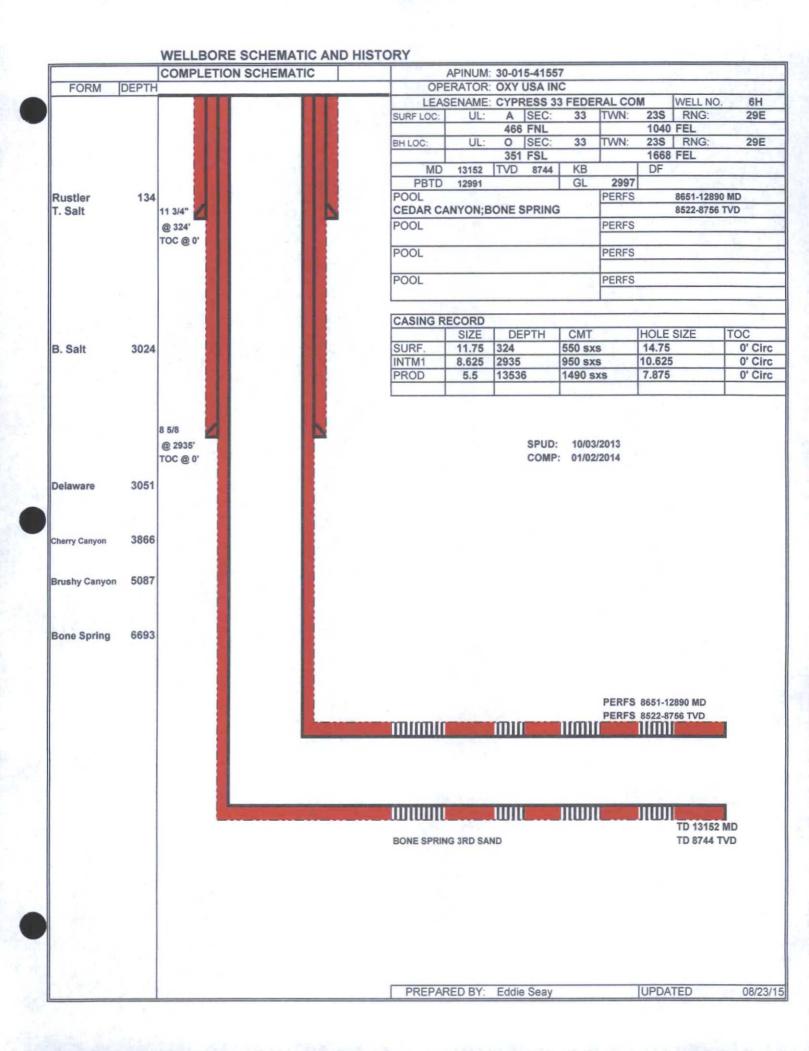


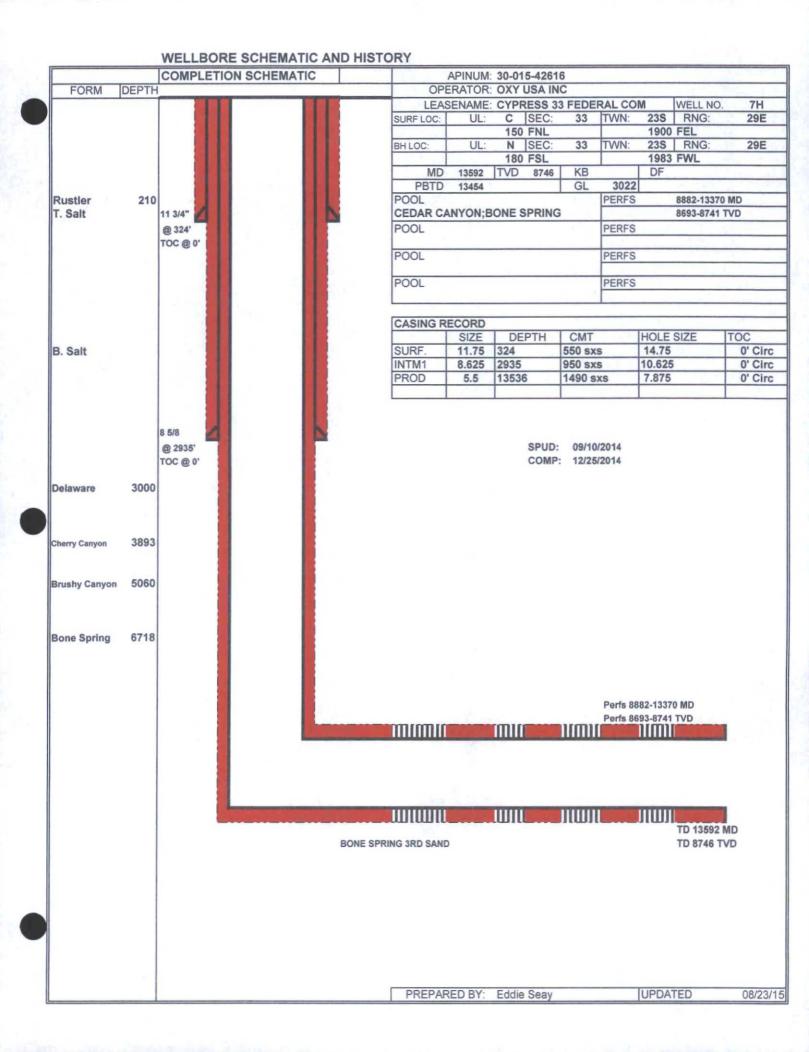


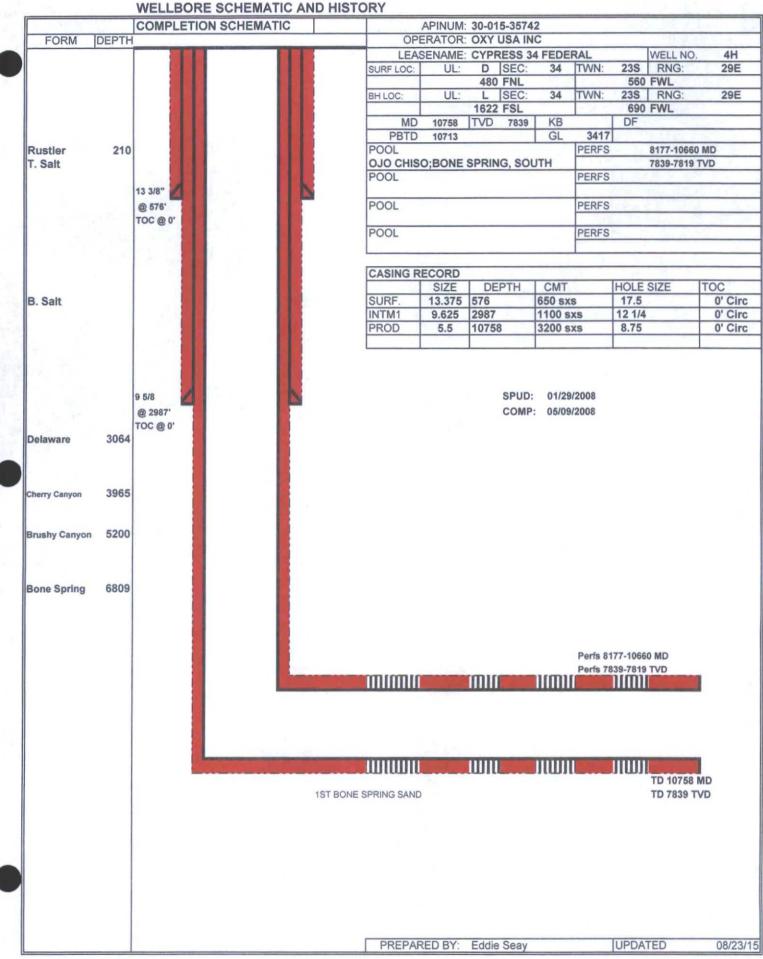












Water Sample Analysis

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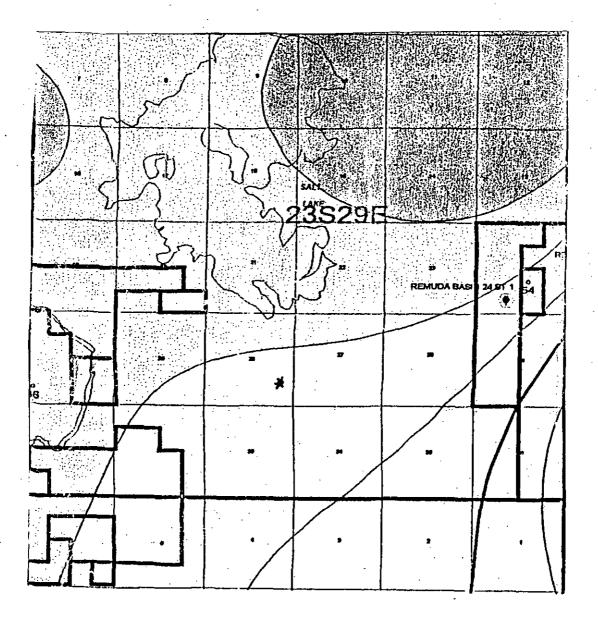
E Maret Sample Analysis	:	Location	··· ·· ·	· ·
Pool	Section	Township		Chlorides
North Justis Montoya	· 2	25S	37E	45440
North Justis McKee	2	258	37E	58220
North Justis Fusselman	2	258	37E	68533
North Justis Ellenburger	2	258	37E	34151.
Fowler Blinebry	22	24S	37E	116085
Skaggs Grayburg	18	205	38E	84845
Warren McKee	18	208	38E	85910
Warren Abo	19	20S	39E	91600
	30	208	39E	106855
DK Drinkard	8	218	38E	38895
Littman San Andres	29	188	39E	6461
East Hobbs grayburg	18	208	32E	14768
Halfway Yates Arkansas Junction San Andres	12	185	38E	7171
	28	195	35E	114310
Pearl Queen	17	179	37E	38494
Midway Abo	31	165	37E	22933
Lovinton Abo	3	169	37E	4899
Lovington San Andres	31	165	37E	93720
Lovington Paddock	17	165	\$2E	172530
Mesa Queen	27	165	34E	49345
Kemnitz Wolfcamp	9	165	34Ė	124980
Hume Queen	2	169	32Ē	11040
Anderson Ranch Wolfcamp	11	168	32E	25702
Anderson Ranch Devonlan	11	165	32E	23788
Anderson Ranch Unit	9	155	38E	20874
Caudill Devonian	6	165	36E	38895
Townsend Wolfcamp	5	169	37E	44730
Dean Permo Penn	35	158	38E	19525
Dean Devonian			37E	54315
South Denton Wolfcamp	28	159	37E	34080
South Denton Devonian	36	158		39760
Medicine Rock Devonian	15	159	38E	23288
Little Lucký Lake Devonlan	29	158	30E	132770
Wantz Abo	28	218	37E	58220
Crosby Devonian	18 7	258 285	37E 37E	3443(Reef)
Scarborough Yátes Seven Rivers	34	239	37E 37E	114665
Teague Simpson	34 34	235		120345
Teague Ellenburger	27	233 269	37E	144485
Rhodes Yates 7 Rivers	11	205	37E 38E	93385
House SA House Drinkard	12	209	38E	49700
South Leonard Queen	24	265	37E	115375
	.2	203	38E	55380
Elilot Abo	.z 5	198	35E	30601
Scharb Bone Springs EK Queen	13	189	34E	.41890
East EK Queen	22 .	185	34E	179830
Maljamar Grayburg SA	22	178	32E	46079
Maljamar Paddock	27	175	32E	115375
	22	178	32E	25418
Maljamar Devonlan	44	110	VEG	49710

· 1<sup>\*</sup>

# MITCHELL ANALYTICAL LABORATORY

2638 Faudree Odessa, Texas 79765-8538 561-5579

Weil Number:Giant Superior St. #3 Harvard Location:Bable Conservation Date Sampled by: Employee #: Analyzed by:70 1/7/203 Wade H Employee #: Analyzed by:Date Run:1/14/2013 Lab Ref #:13-jan-h10083Sampled by: Employee #: Analyzed by:70 1/7/203 Wade H Employee #: Analyzed by:Hydrogen Sulfide Carbon Dioxide Dissolved Oxygen(H2S) (CO2)NOT ANALYZED NOT ANALYZED $Mg/L$ Eq. Wt. 16.00Eq. Wt. 16.00Calcium Magnesium Manganese(Ca++) (Mn+) $7,147.56$ 44,424.7220.10 23.00Manganese Hydroxyl Carbonate (CO3=)NOT ANALYZED $44,424.72$ 2.3.0023.00 30.00Hydroxyl Sulfate Calcium (Ca+=)(OH-) (CO3=).00 48.8811.0 30.00Sulfate Calcium (SO4=)(CI-)86,294.82 35.5035.50	
Dissolved Gases       Mg/L       Eq. Wt.         Hydrogen Sulfide       (H2S)       .00       16.00         Carbon Dioxide       (CO2)       NOT ANALYZED       .00       16.00         Dissolved Oxygen       (O2)       NOT ANALYZED       .00       16.00         Calcium       (Ca++)       NOT ANALYZED       .00       16.00         Magnesium       (Mg++)       1,761.68       12.20         Sodium       (Na+)       44,424.72       23.00         Barium       (Ba++)       NOT ANALYZED       4.70       27.50         Anions         Hydroxyl       (OH-)       .00       17.00         Carbonate       (CO3=)       .00       30.00         BiCarbonate       (HCO3-)       48.88       61.10         Sulfate       (SO4=)       10.00       48.80	.00 355.60 144.40
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	.00 355.60 144.40
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	.00 355.60 144.40
$\begin{array}{c cccc} \mbox{Hydrogen Sulfide} & (H2S) & .00 & 16.00 \\ \mbox{Carbon Dioxide} & (CO2) & NOT ANALYZED & .00 & 16.00 \\ \mbox{Dissolved Oxygen} & (O2) & NOT ANALYZED & .00 & 16.00 \\ \mbox{Not ANALYZED} & .00 & .00 & .00 \\ \mbox{Cations} & .00 & .00 & .00 \\ \mbox{Sodium} & (Mg++) & .00 & .00 & .00 & .00 \\ \mbox{Barium} & (Ba++) & NOT ANALYZED & .00 & .00 & .00 \\ \mbox{Barium} & (Ba++) & NOT ANALYZED & .00 & .00 & .00 \\ \mbox{Barium} & (Ba++) & .00 & .00 & .00 & .00 \\ \mbox{Carbonate} & (Mn+) & .00 & .00 & .00 & .00 \\ \mbox{BiCarbonate} & (HCO3-) & .00 & .00 & .00 \\ \mbox{Sulfate} & (SO4=) & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 & .00 & .00 & .00 & .00 & .00 \\ \mbox{Sulfate} & .00 $	.00 355.60 144.40
Carbon Dioxide Dissolved Oxygen(CO2)NOT ANALYZED $O(2)$ NOT ANALYZED $O(2)$ NOT ANALYZED $O(2)$ $O($	144.40
CationsCalcium(Ca++)7,147.5620.10Magnesium(Mg++)1,761.6812.20Sodium(Na+)44,424.7223.00Barium(Ba++)NOT ANALYZED00Manganese(Mn+)4.7027.50AnionsHydroxyl(OH-).0017.00Carbonate(CO3=).0030.00BiCarbonate(HCO3-)48.8861.10Sulfate(SO4=)10.0048.80	144.40
$\begin{array}{cccc} Calcium & (Ca++) & 7,147.56 & 20.10 \\ Magnesium & (Mg++) & 1,761.68 & 12.20 \\ Sodium & (Na+) & 44,424.72 & 23.00 \\ Barium & (Ba++) & NOT ANALYZED \\ Manganese & (Mn+) & 4.70 & 27.50 \\ \hline \\ Hydroxyl & (OH-) & .00 & 17.00 \\ Carbonate & (CO3=) & .00 & 30.00 \\ BiCarbonate & (HCO3-) & 48.88 & 61.10 \\ Sulfate & (SO4=) & 10.00 & 48.80 \\ \end{array}$	144.40
Magnesium       (Mg++)       1,761.68       12.20         Sodium       (Na+)       44,424.72       23.00         Barium       (Ba++)       NOT ANALYZED       4.70       27.50         Manganese       (Mn+)       4.70       27.50         Anions         Hydroxyl       (OH-)       .00       17.00         Carbonate       (CO3=)       .00       30.00         BiCarbonate       (HCO3-)       48.88       61.10         Sulfate       (SO4=)       10.00       48.80	144.40
Magnesium $(Mg++)$ 1,761.6812.20Sodium $(Na+)$ 44,424.7223.00Barium $(Ba++)$ <b>NOT ANALYZED</b> 700Manganese $(Mn+)$ 4.7027.50AnionsHydroxyl $(OH-)$ .0017.00Carbonate $(CO3=)$ .0030.00BiCarbonate $(HCO3-)$ 48.8861.10Sulfate $(SO4=)$ 10.0048.80	
Barium       (Ba++)       NOT ANALYZED         Manganese       (Mn+)       4.70       27.50         Anions         Hydroxyl       (OH-)       .00       17.00         Carbonate       (CO3=)       .00       30.00         BiCarbonate       (HCO3-)       48.88       61.10         Sulfate       (SO4=)       10.00       48.80	1,931.51
Manganese       (Mn+)       4.70       27.50         Anions       Anions       17.00         Hydroxyl       (OH-)       .00       17.00         Carbonate       (CO3=)       .00       30.00         BiCarbonate       (HCO3-)       48.88       61.10         Sulfate       (SO4=)       10.00       48.80	
Anions         Hydroxyl       (OH-)       .00       17.00         Carbonate       (CO3=)       .00       30.00         BiCarbonate       (HCO3-)       48.88       61.10         Sulfate       (SO4=)       10.00       48.80	
Hydroxyl(OH-).0017.00Carbonate(CO3=).0030.00BiCarbonate(HCO3-)48.8861.10Sulfate(SO4=)10.0048.80	.17
Carbonate(CO3=).0030.00BiCarbonate(HCO3-)48.8861.10Sulfate(SO4=)10.0048.80	
BiCarbonate(HCO3-)48.8861.10Sulfate(SO4=)10.0048.80	.00
Sulfate (SO4=) 10.00 48.80	.00
	.80
Chloride (CI-) 86,294.82 35.50	.20
	2,430.84
Total Iron (Fe) 3.06 18.60	.16
Total Dissolved Solids 139,695.42	
Total Hardness as CaCO3 25,091.79	
Conductivity MICROMHOS/CM 169,200	
pH 7.230 Specific Gravity 60/60 F.	1.097
CaSO4 Solubility @ 80 F. 31.49MEq/L, CaSO4 scale is unlikely	
CaCO3 Scale Index	
70.0 .336 100.0 .666 130.0 1.236	
80.0 .426 110.0 .946 140.0 1.236	
90.0 .666 120.0 .946 150.0 1.576	



Groundwater Map

## NOTICES MINERAL INTEREST AND OFFSET OPERATERS

#### SURFACE OWNER AND MINERAL INTEREST OWNER

U.S. Government (BLM) 620 E. Green St. Carlsbad, NM 88220

### **OFFSET OPERATIONS**

Laguna Grande, LLC 601 W. 2<sup>nd</sup> Street, Suite 18 Roswell, NM 88201

Exxon Mobile Corp. Box 4358 Houston, TX 77210-4358

Devon Energy Production Co., LP 20 N. Broadway Oklahoma City, OK 73102

Oxy USA, Inc. Box 4294 Houston, TX 77210

Intrepid Potash 210 Red Cloud Carlsbad, NM 88220

Mosaic Potash 1361 Potash Mine Road Carlsbad, NM 88220

Intercontinental Potash Corp. 600 W. Bender Hobbs, NM 88240

# **CHEROKEE DISPOSAL, LLC**

September 2015

RE: Laguna Grande #1 (API 30-015-21636) Unit I, Sect. 28, T. 23 S., R. 29 E. Eddy County

Dear Sir:

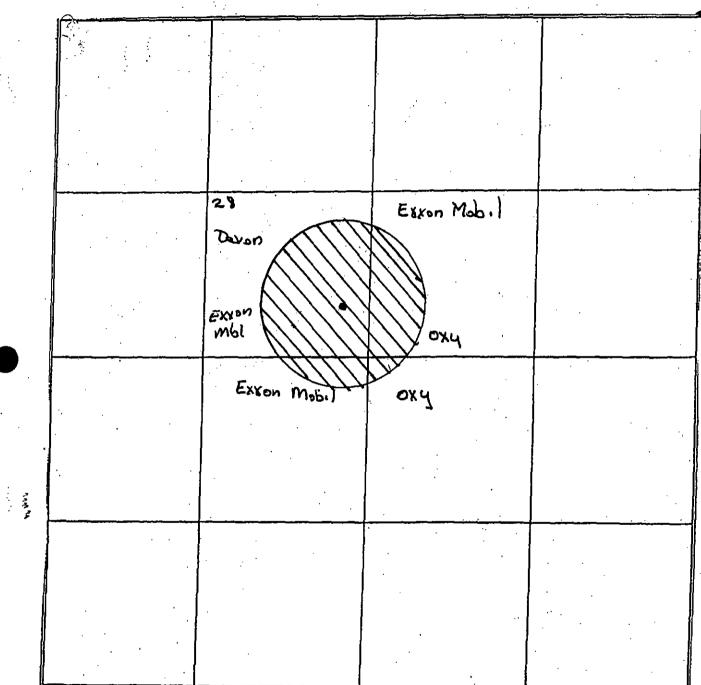
In accordance with the Rules and Regulations of the Oil Conservation Division of the State of New Mexico, you are being provided a copy of the C-108, Application for Authorization to Inject into the above captioned well to be drilled.

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.

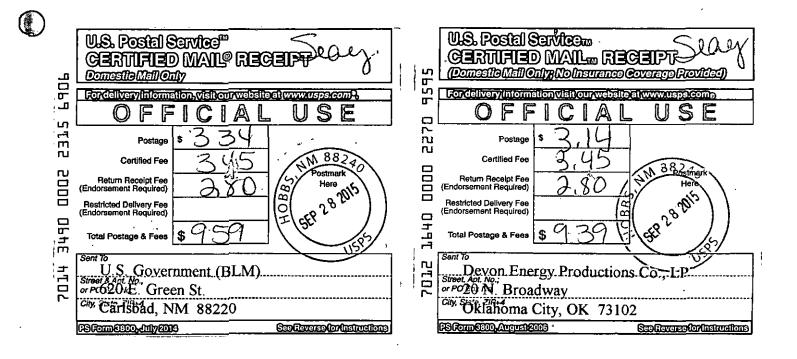
Thank you,

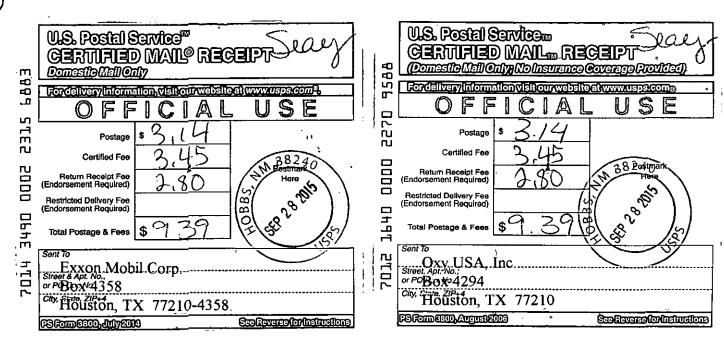
Lear

Eddie W. Seay, Agent Eddie Seay Consulting 601 W. Illinois Hobbs, NM 88242 (575)392-2236 seay04@leaco.net Unit I Sect 28 Two 23 Rng 29 E Eddy Co.

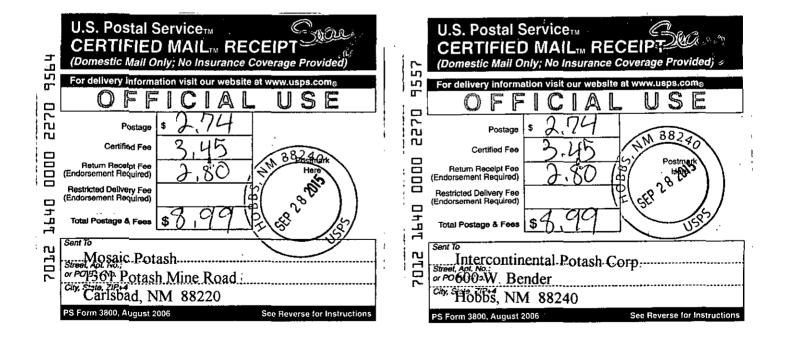


All: Federal surface and Mineral









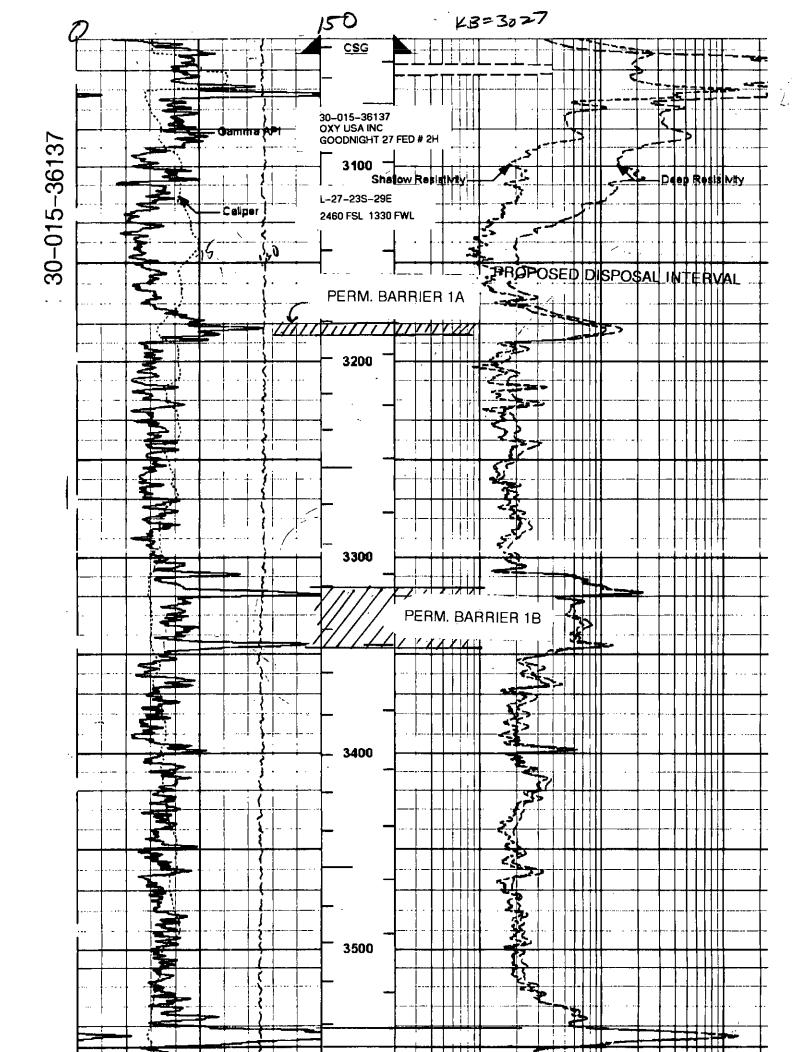
### LEGAL NOTICE -

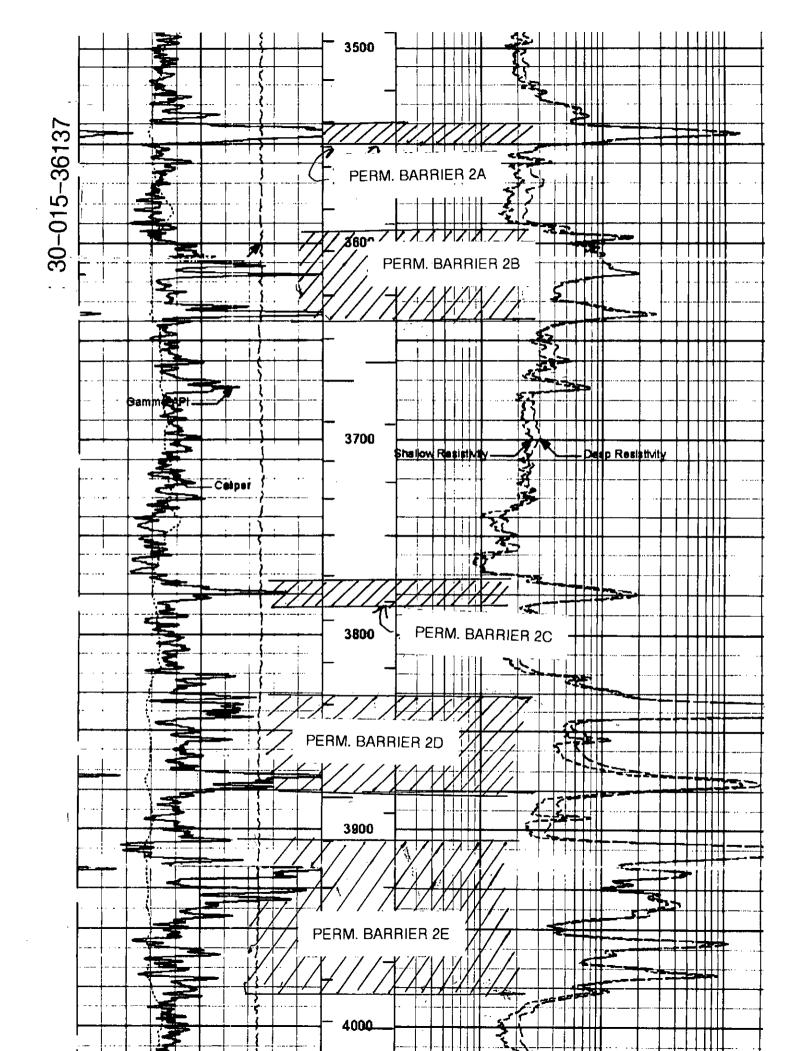
Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Cherokee Disposal, LLC, 301 Hinson Rd, Lovington, NM 88260, is filing a C-108 to convert an existing well to a Salt Water Disposal. The well being applied for is the Laguna Grande #1, API 30-015-21636, located in Unit I, Section 28, Township 23 South, Range 29 East, Eddy Co., NM. The injection formation is the Bell Canyon from 2950' to 3400' below surface. Expected maximum injection rate is 10,000 bpd., and the expected maximum injection pressure is 600 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.

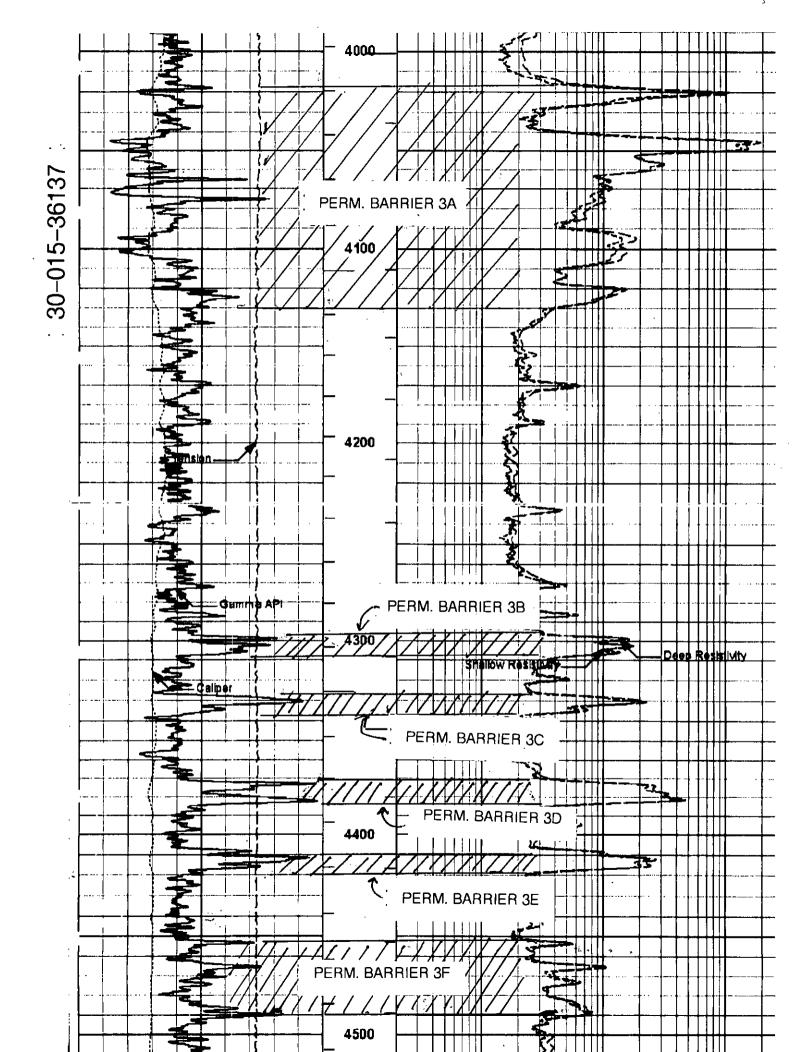
A	ffidav	it of Public	cation	
		No.	23	3635
County of Danny S	. /	anny Sea	/	
being duly	s sworn saye	s that she is the	Publisher	
of the Arte	sia Daily Pres	ss, a daily newspaper of	General	
circulation	, published in	English at Artesia, said	county	
and state, a	and that the he	ereto attached		
	Legal	Notice		
was publis	hed in a regu	lar and entire issue of th	e said	
Artesia Da	ily Press, a da	ily newspaper duly qua	lified	
for that pu	rpose within t	he meaning of Chapter	167 of	
the 1937 S	Session Laws	of the state of New Mex	tico for	
	Consecutiv	e weeks/day on the same	e	
day as foll	ows:			
First Publi	cation	September	13, 2015	
Second Pu	blication	·		
mird Publ	ication			
Fourth Put	olication			
Fifth Publi	cation	<u></u>		
Sixth Publ	ication			
Subscribed	l and sworn b	efore me this		
14th	day of	September	:	2015
	ALL CONTRACTOR		2019	
d	) nata	the Rom	ine	
	Latisha Ro	mine		
	Notary Pul	olic, Eddy County, Ne	w Mexico	

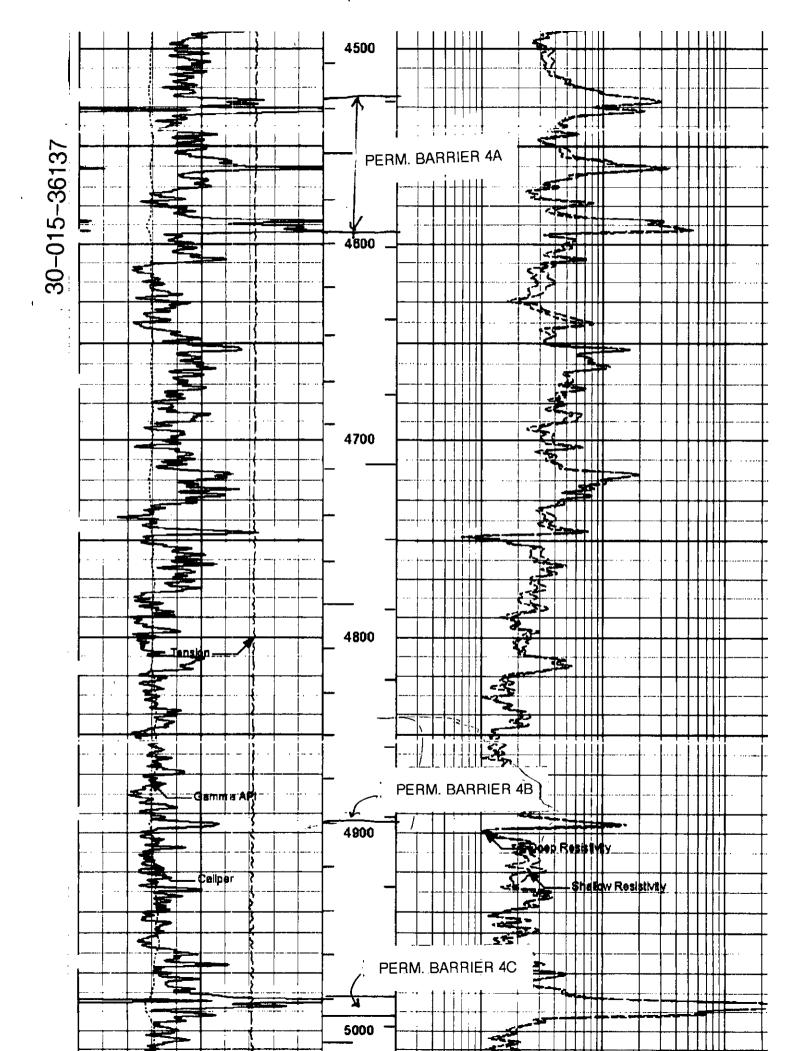
# **Copy of Publication:**

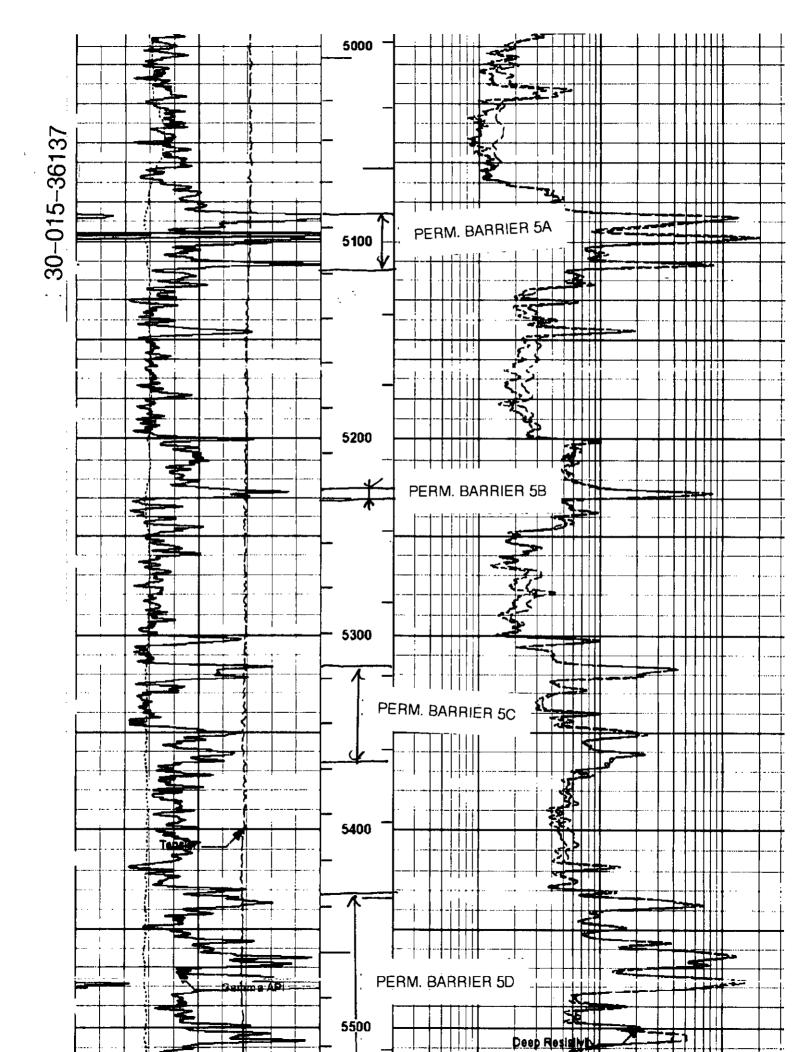
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of the Oil Conservation Division of the
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Water Disposal. The well being ap-
plied for is the Laguna Grande #1.
API 30-015-21636, located in Unit 1 Section 28, Township 23 South,
Range 29 East, Eddy Co, NM, The In
iection rate is 10,000 bpd., and the
expected maximum injection pressure
is 600 psi or what the OCD allows. Any questions about the application
can be directed to Eddie W. Seav.
(575) 3922236, or any objection or
request for hearing must be directed to the Oil Conservation Division, (505
1 476-3440 1220 south Saint Francis
Drive, Santa Fe, NM 87504, within fit
teen (15) davs.
Published in the Artesia Daily Press, Artesia, N.M., Sept. 13, 2015 Legal
No. 23635.
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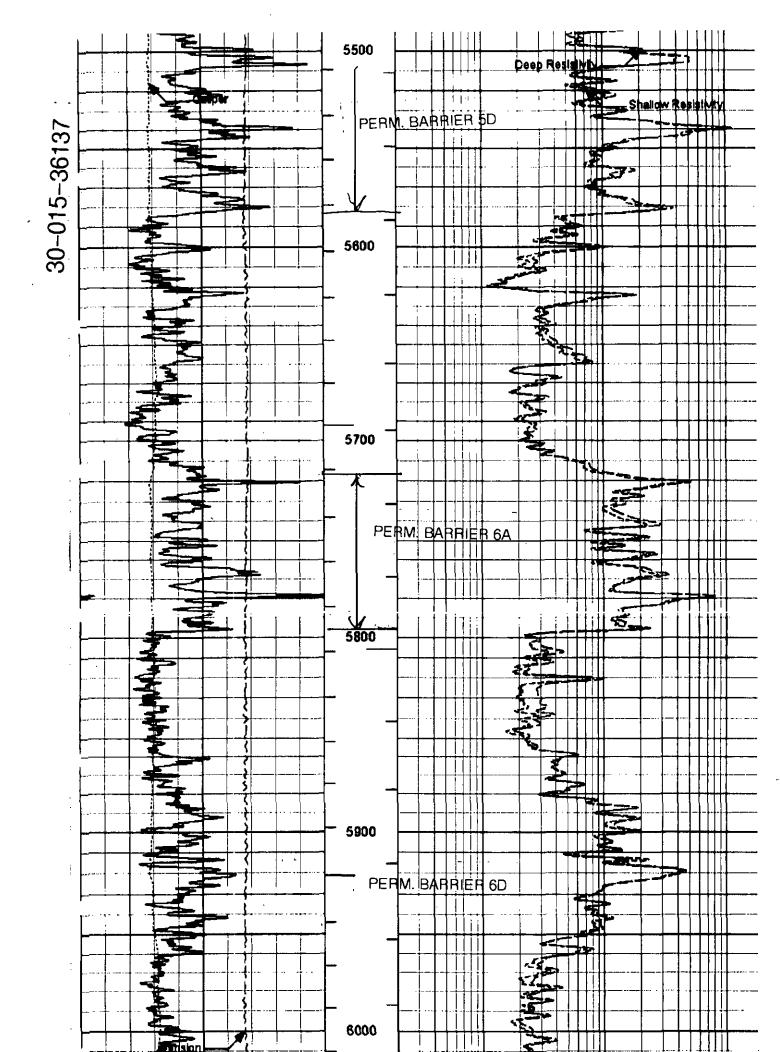


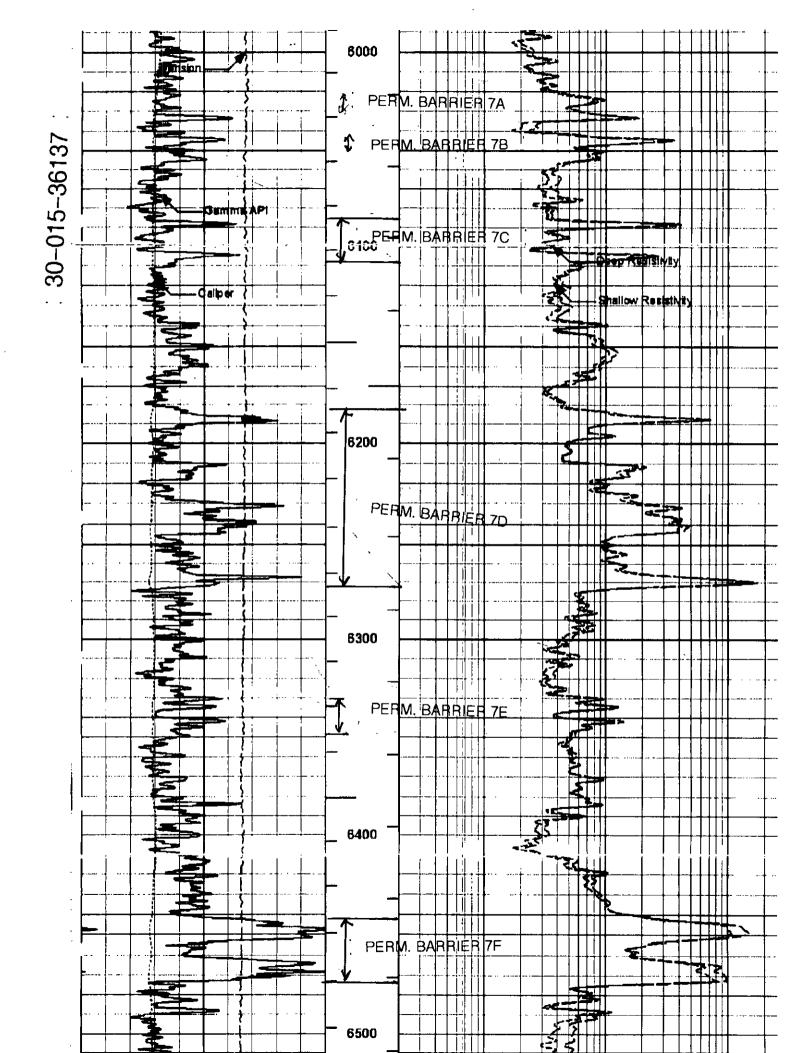


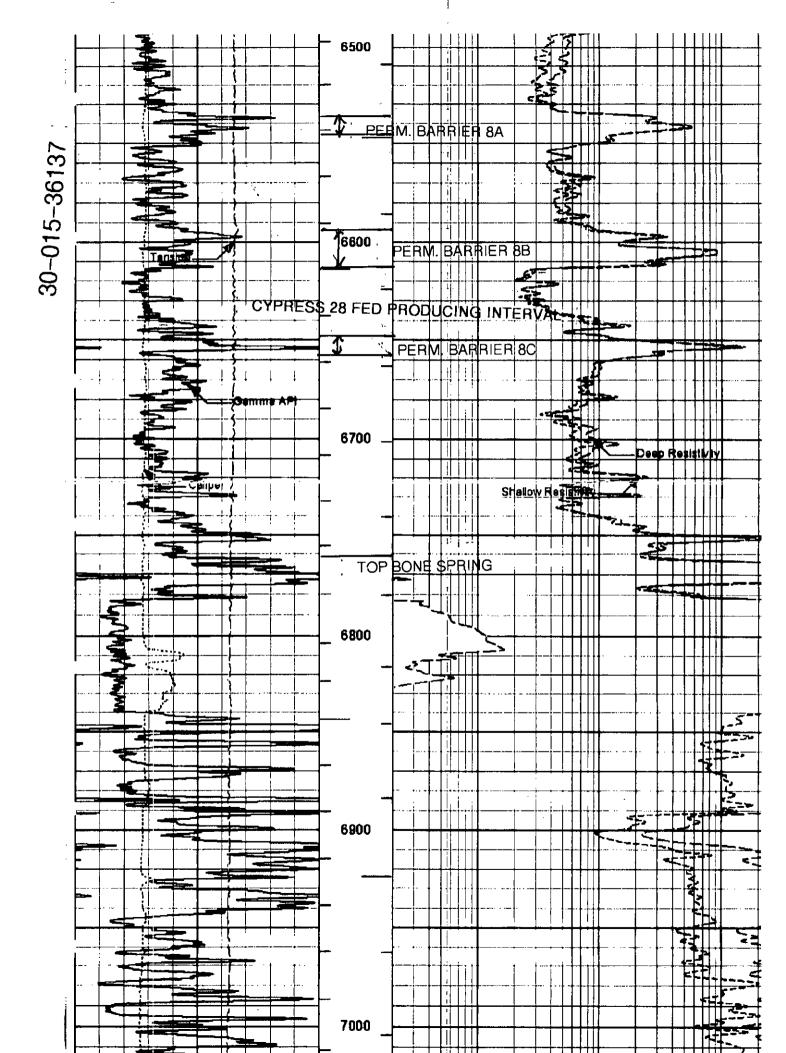


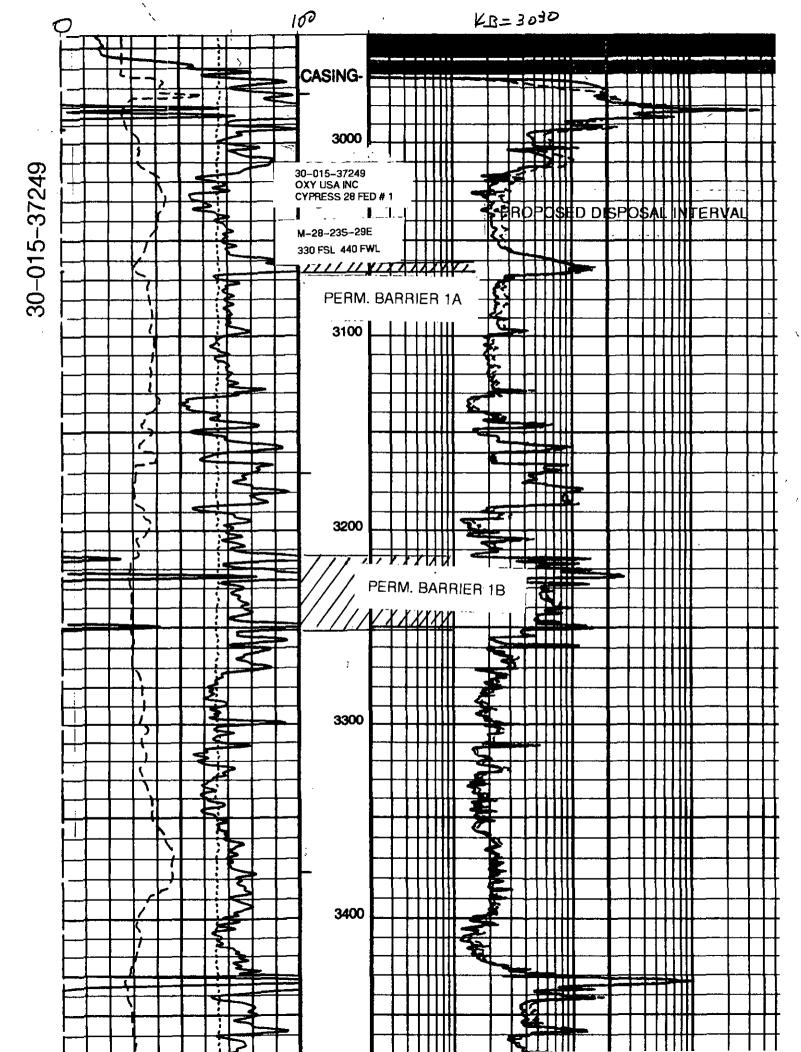


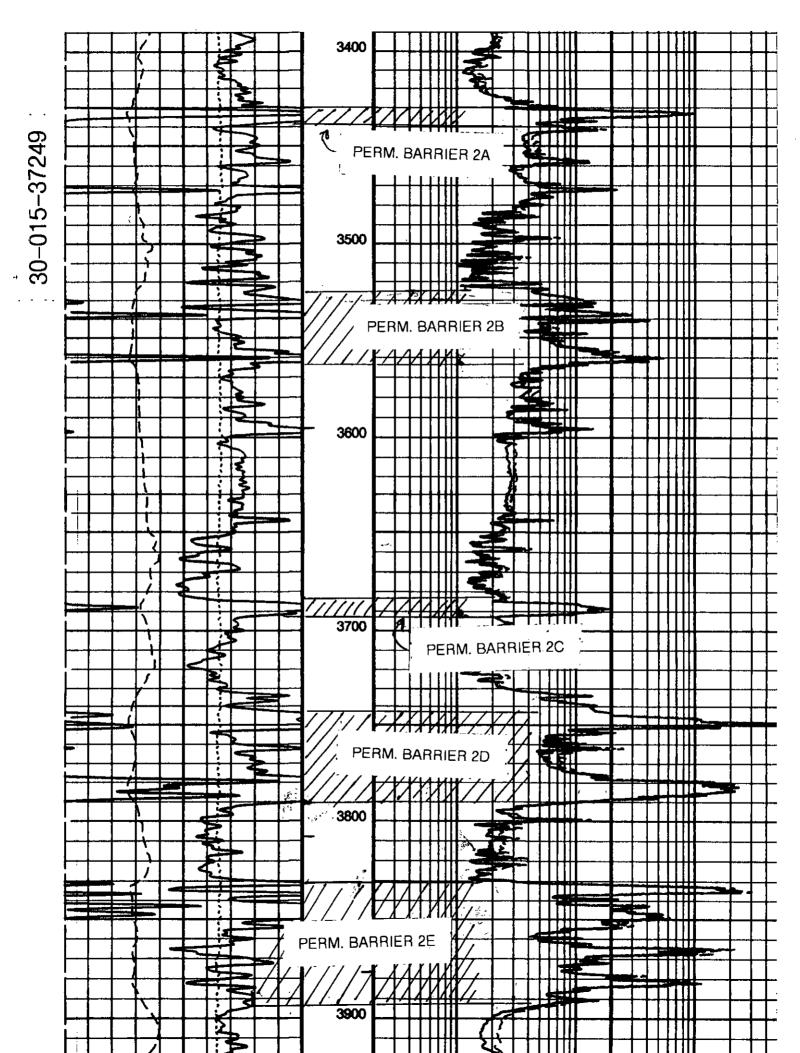


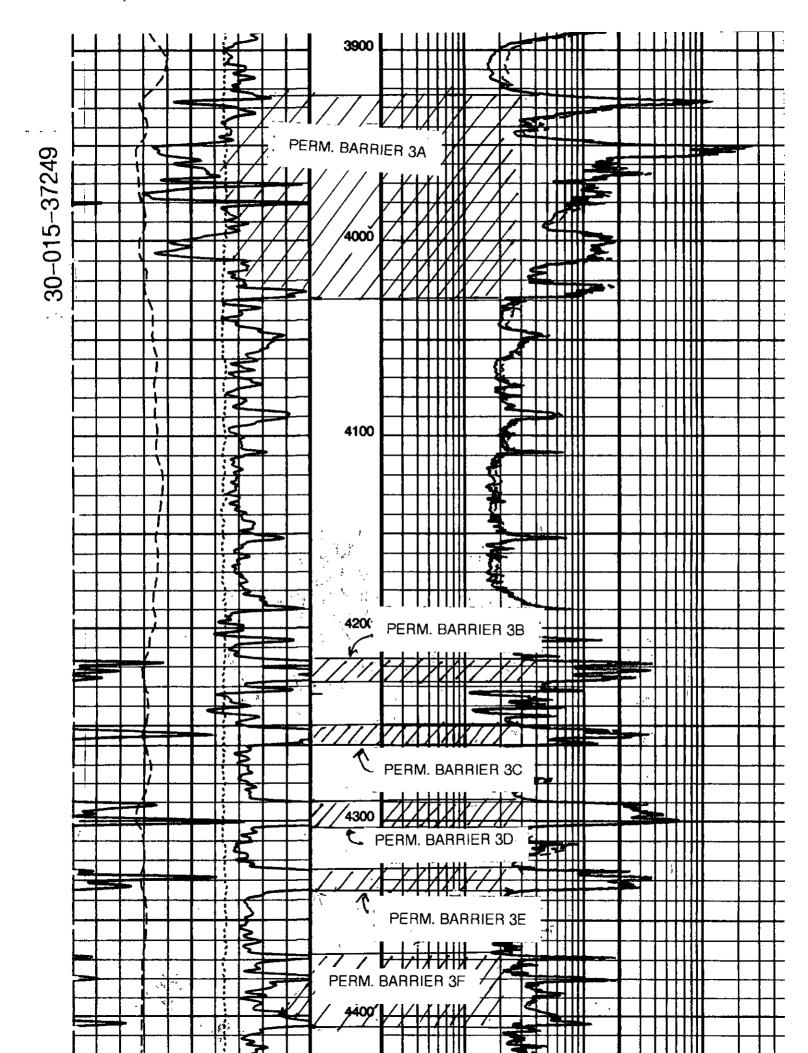


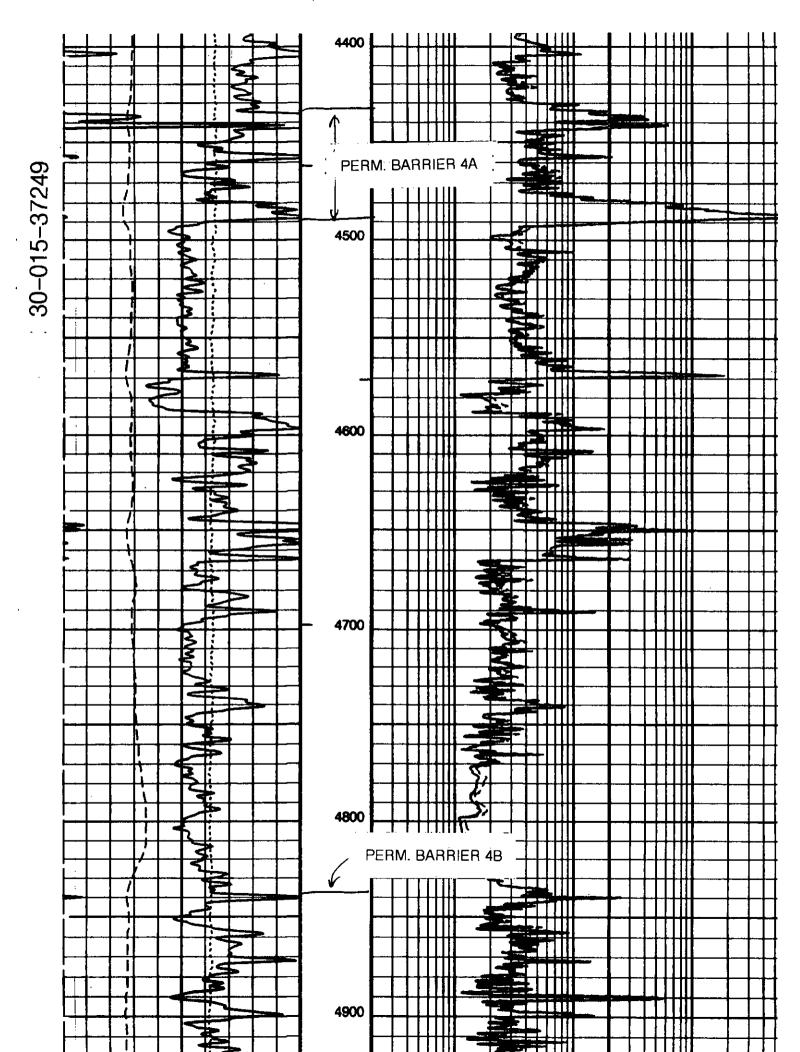


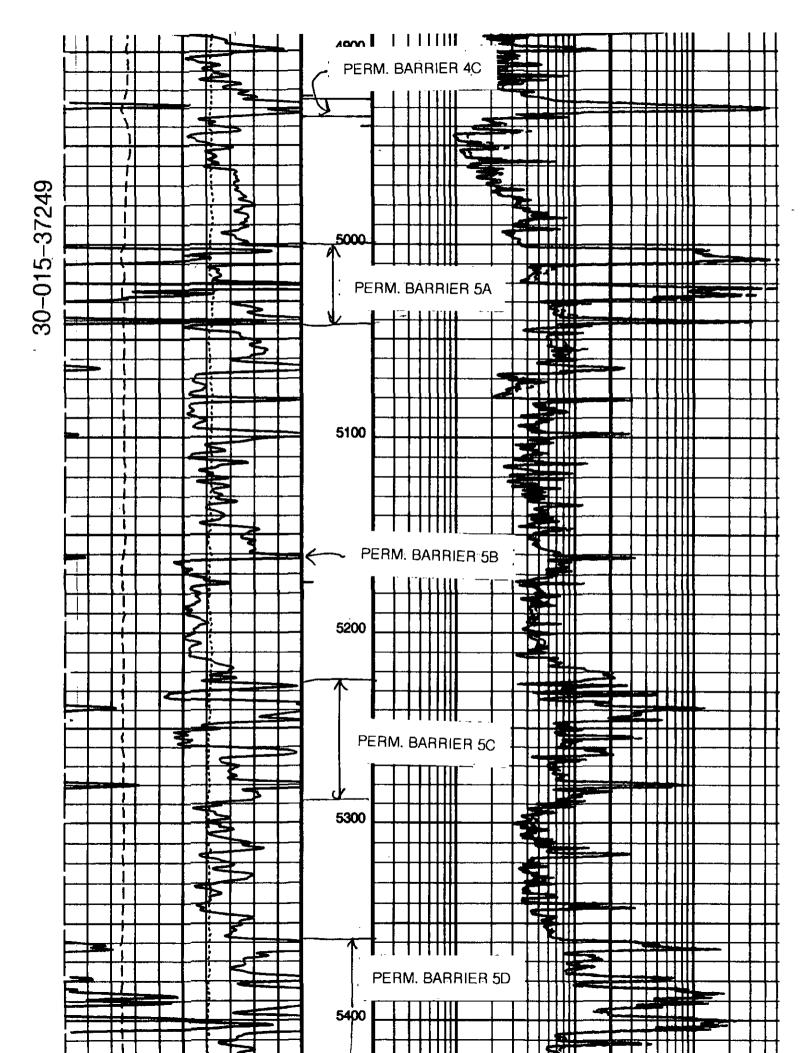


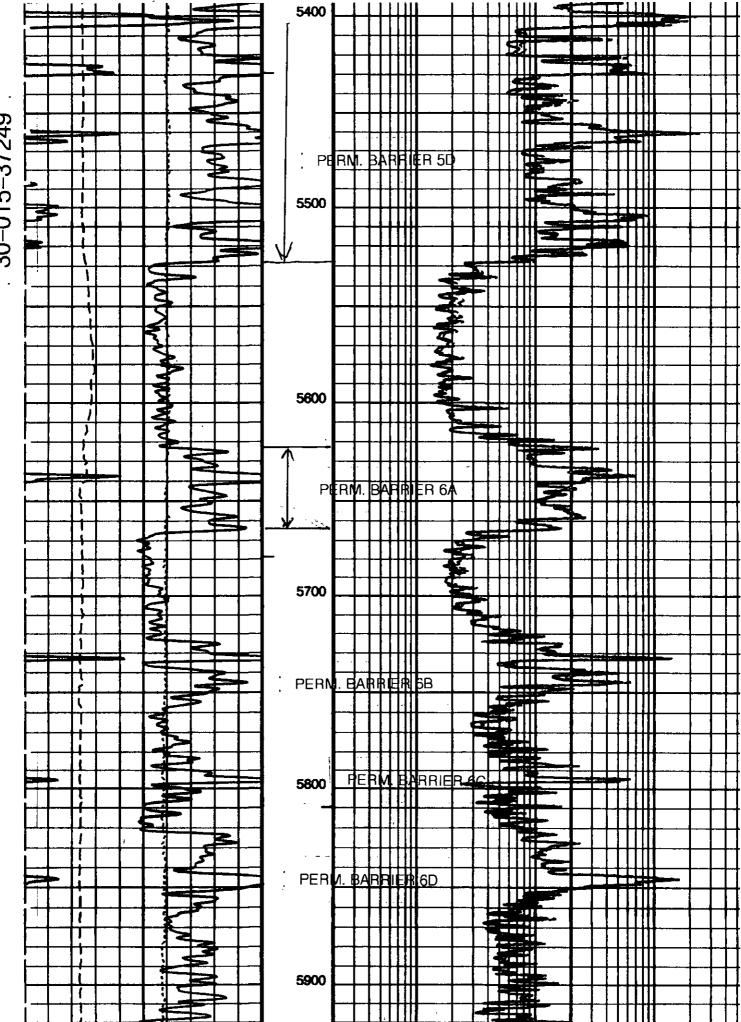




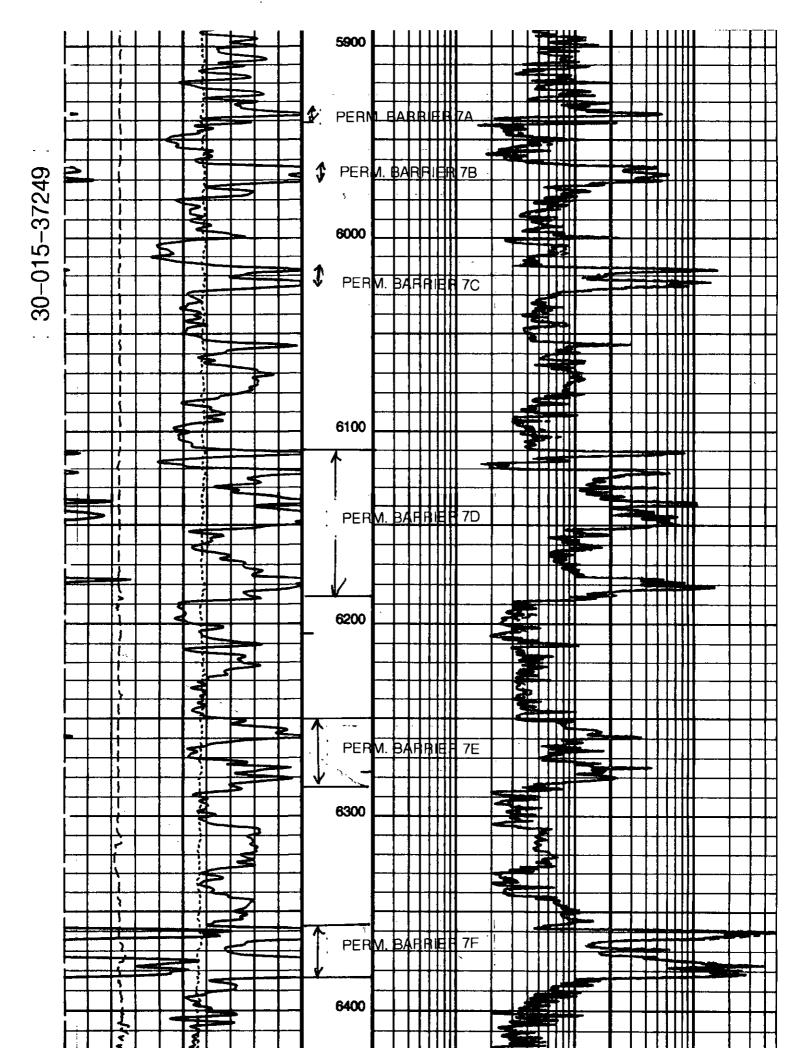


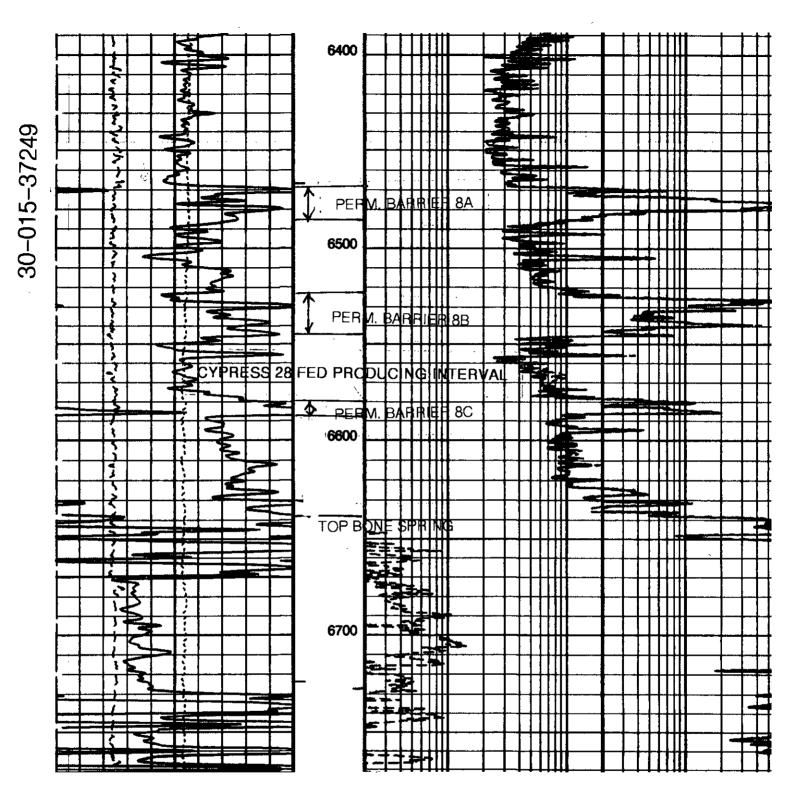






30-015-37249





#### LAGUNA GRANDE SWD #1 API 30-015-21636

I, Eddie W. Seay, have examined all available geologic and engineering data pertaining to the Laguna Grande #1, and find no evidence of open faults or any other hydrologic connection between the disposal zones and any underground source of drinking water.

Eddie W. Seay

The fresh water formation for this area would be the Santa Rosa which would be between 300' to 400' below surface, no sampling points available.

#### IX. ACID AS NEEDED.

#### X. PREVIOUSLY SUBMITTED TO OCD.

#### XI. ATTACHED.

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.

(Exten, Eastland, BBVS! -13 # @ 343' cmt. circ. 10 1/4" = 2400' cunt. cive. Perf: 5080-90 CIBPC 6400 Perf: 6437-39; 6444; 6951-56; 6470; 6474 (IT B) @ 6.570' Pert: 6522-30; 6537-34; 6548-50; 6562-64 CIBP @ 6580 Perfs: 6590-94; 6598-6600; 6602-04 CIBP 0 6690 Perfs: 6701-6936 DV tool: 6780 S 2500'TOC Calc. CI.BP = 10,100' 75/8 @ 10848 0-2865'= 33.7# 2863-10845-29.7# 4 . CIBPE 11,800' CIBPO 12,850' CIBPE (3,000) 5" 0 10, 343 -13,695

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form 3160-5 Fune 1990)	UNITE DEPARTMENT BUREAU OF LA	D STATES OF THE INTE IND MANAGE	101019		FORM Budget Bun Expires: 5. Lour Designat NM~67 103	APPROVED nu No. 1004-0135 March 31, 1993 non and Serial No
S Do not use this form Use	BUREAU OF LA BUREAU OF LA SUNDRY NOTICES A for proposals to drill "APPLICATION FOR	or to deeber t	ON WELLS <sup>URE</sup>	SOURCE MGMT	6. If Indian, Allor	ter or Tribe Name
	SUBMIT I	N TRIPLICATI	E		7. If Unit of CA,	Agreement Designation
1. Type of Well Oil X Gas Well X Well	Other		AUL	i 8 8 1397	8. Well Name and	
PALOMA RESOURC	ES, INC.				Laguna Gr 9. API Web No 30-015-21	ande Fed. #1
3. Address and Telephone No. P.O. BOX 1814			05 622-0770		10. Field and Pool.	or Faplominy Ame ande Mortow
4. Location of Well (Protage, 3 1380' FSL & 994 Sec. 28-T235-R		iption)			11. County of Paris	sh, Siste
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give subserface locations Operator propose squueze off Bon and BOP equipme in the hole. ( squeezing the s testing casing for commercial	ses to squeeze of ne Springs perfor ent to 5000#. Dr Clean out wellbor Strawn, Atoka, an . Paloma Resourc production. If esting each prosp	rations from rill out CIE re to 13,695 od Upper Mot ces, Inc. pl no commerci	n 6701'-6936'. BP at 10,100' 5'. Casing rrow Perforati Lana to perfor ial production	Drill out S above the lir integrity will ns, then dril atc the lower is obtained,	Squeezes a ner top an 11 be maín 11ing out r Morrow i	nd test casin d continue tained by cement and nterval
give unburface locations Operator proposis squueze off Bon and BOP equipme in the hole. ( squeezing the s testing casing for commercial plugged back to	ses to squeeze of ne Springs perfor ent to 5000#. Dr Clean out wellbor Strawn, Atoka, an . Faloma Resourc production. If	rations from rill out CIE re to 13,695 nd Upper Mot ces, Inc. pl no commerci sective inte	n 6701'-6936'. BP at 10,100' 5'. Casing rrow Perforati Lans to perfor ial production erval in the w	Drill out S above the lir integrity will ns, then dril atc the lower is obtained,	Squeezes a ner top an 11 be maín 11ing out r Morrow i	nd test casin d continue tained by cement and nterval
give subserface locations Operator proposis squueze off Bon and BOP equipme in the hole. ( squeezing the S testing casing for commercial plugged back to Brine Water will Wellhead equipm	ses to squeeze of ne Springs perfor ent to 5000#. Dr Glean out wellbor Strawn, Atoka, an . Paloma Resourc production. If esting each prosp ll be utilized to ment and BOP's wi	rations from rill out CIE re to 13,695 od Upper Mot ces, Inc. pl no commerci sective inte o drill with all consist	n 6701'-6936'. BP at 10,100' 5'. Casing rrow Perforati Lana to perfor ial production erval in the w n. of Double Ram	Drill out S above the lir integrity will ns, then dril atc the lower is obtained, ellbore. BOP with 500	Squeezes a ner top an li be main ling out r Morrow i , the well 00# WP.	nd test casin d continue tained by cement and nterval will be <b>RECEIVE</b>
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give unburface bestions Operator proposis squueze off Bon and BOP equipme in the hole. ( squeezing the S testing casing for commercial plugged back to Brine Water will Wellhead equipm	ses to squeeze of ne Springs perfor ent to 5000#. Dr Glean out wellbor Strawn, Atoka, an . Paloma Resourc production. If esting each prosp 11 be utilized to ment and BOP's wi to start work in	rations from rill out CIE re to 13,695 od Upper Mot ces, Inc. pl no commerci sective inte o drill with all consist	n 6701'-6936'. BP at 10,100' 5'. Casing rrow Perforati Lana to perfor ial production erval in the w n. of Double Ram	Drill out S above the lir integrity will ns, then dril atc the lower is obtained, ellbore. BOP with 500	Squeezes a ner top an 11 be main 11 ing out r Morrow i , the well 00// WP. nd NMOCD.	nd test casin d continue tained by cement and nterval will be RECEIVEN AUG 20 87 BLM

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Title 18 U.S.C. Section 1003, makes is a crime for any person knowingly and or representations as to any matter within its jurisdiction.

" make to any department or upency of the United States any false, fictitious or fraudulent statements

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50.015-21636



# NEW MEXICO LNERGY, MINERALS & NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION 2040 South Pachaco Street Santa Fe, New Mexico 87505 (505) 827-7131

March 8,2000



Mr. Ernest L. Carroll Losee, Carson, Haas & Carroll Attorneys at Law P. O. Box 1720 Artesia, New Mexico 88211-1720

Dear Mr. Carroll:

Based upon the reasons stated in your letter of March 7, 2000, and in accordance with the provisions of Division Order No R-11292, Prairie Sun, Inc. is hereby granted an extension of time until June 10, 2000, in which to begin drilling the well pooled by this order.

Sincerely, Eubery ÓRI/ WROTENBER Division Director

fd/

cc: Case No. 12236 LOCD - Artesia

(June 1990)	DEPARTMENT OF TH	EINTERIOR Artesia, NM 88210	FORM APPROVED -2834 pet Bureau No. 1004-0135 Expires: March 31, 1993
	BUREAU OF LAND MA	NAGEMENT	Expires: March 31, 1993 5. Lease Designation and Serial No. NM-67103
	SUNDRY NOTICES AND REF rm for proposals to drill or to de se "APPLICATION FOR PERM	epen or reentry to a different reservoir	6. If Indian, Allottee or Tribe Name
<u> </u>	SUBMIT IN TRIPL	LICATE 125262724	7. If Unit or CA, Agreement Designati
1. Type of Well		6374 50	1
Oil Gas Well 🕅 Well		2224	8. Well Name and No.
2. Name of Operator		$\sqrt{N}$ $d_{\rm ext}$ $d_{\rm ext}$	Laguna Grande Fed. #1
Prairie Sun, Inc.		a on PEON	9. API Well No.
3. Address and Telephone P.O. Box 8280 F	no. Roswell, NM 88202-8280 505-622	-7355 B ARIEU	30-015-21636 10. Field and Pool, or Exploratory Are
	ge, Sec., T., R., M., or Survey Description)		Wildcat
1380' FSL & 990' F		Fieldin El ZULUL 381	<u> </u>
Sec. 28-T23S-R29	E .	States 18	11. County or Parish, State
		2581 ST (10)	Eddy County, New Mexico
12. CHECK	APPROPRIATE BOX(s) TO INDI	CATE NATURE OF NOTICE, REPORT, O	DR OTHER DATA
TYPE OF	SUBMISSION	TYPE OF ACTION	······································
	of Intent	Abandonment	Change of Plans
		Recompletion	
Subseq	uent Report	Plugging Back	Non-Routine Fracturing
		Casing Repair	Water Shut-Off
🗌 Final At	bandonment Notice	Altering Casing	Conversion to Injection
		Other Test Csg, test Delaware perfs.	Dispose Water
	, ,		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
Test 7 5/8" casing 1	to 2500# for 30 minutes. Lost 150# ir 0. Make total of 3 bbls oil and 250 bb p wellhead. Rig down and release pu	bit & scraper to 6245', NU BOP, POH and T 1 12 minutes and held steady with 2350# for 18 ils satt water with slight show of gas, POH layit lling unit, Prepare to clean well out to test Wol	3 minutes. Swab test Delaware, ng down rental tubing and packe
completion rig is ava NOTE: Prairie Sun, Inc. I	has previously been approved to clear	n well out to test Morrow or Wolfcamp formatic ited start date of workover is expected to be 6- (dp.IG. SGD.) DAVID R	27:00
completion rig is ava NOTE: Prairie Sun, Inc. I 28-T23S-R29E by F	has previously been approved to clear Pooling Order from NMOCD. Anticipa	ted start date of workover is expected to be 6-	27:00
completion rig is ava NOTE: Prairie Sun, Inc. I 28-T23S-R29E by F	has previously been approved to clear Pooling Order from NMOCD. Anticipa foregoing is true and correct	Ited start date of workover is expected to be 6-	27:00
completion rig is available NOTE: Prairie Sun, Inc. I 28-T23S-R29E by F 14. I hereby control that the Signed	has previously been approved to clear Pooling Order from NMOCD. Anticipa foregoing is true and correct State office use)	te Agent	27,00 GIASS Date <sup>0</sup> 06/12/00
completion rig is ava NOTE: Prairie Sun, Inc. I 28-T23S-R29E by F	has previously been approved to clear Pooling Order from NMOCD. Anticipa foregoing is true and correct	ted start date of workover is expected to be 6-	27,00 GIASS
completion rig is available NOTE: Prairie Sun, Inc. 28-T23S-R29E by F 14. I hereby codify that the Signed	has previously been approved to clear Pooling Order from NMOCD. Anticipa of foregoing is true and correct Ti State office use) any:	te Agent	27,00 GLASS 

Form 3160-5	UNITED STATES	S	OCD-AR	TESIA	FORM APPROVED OM B No 1004-0137	
	EPARTMENT OF THE	INTERIOR			OM B No 1004-0137 Expires March 31, 2007	
	SUREAU OF LAND MAN			5 Lease Ser NM-67		
	NOTICES AND REA is form for proposals t		Eb		n, Allottee or Tribe Name	
	ell. Use Form 3160 - 3 (/					
SUBMIT IN TR	IPLICATE- Other insti	ructions on reve	rse side.	7 lfUnite	or CA/Agreement, Name and/or No	
Type of Well	Gas WellDO Other		<u></u>	-		
					ame and No. 1a Grande Fed #1	
2 Name of Operator Yeso En-	ergy, Inc.	· · · · · ·	<u></u>	9 API W		
Address P.O. Box 2248 Roswell, New	Mexico 88202	3b Phone No (includ 575-622-7355	le area code)	10 Field a	nd Pool, or Exploratory Area	
4. Location of Well (Footage, Sec,	T, R, M, or Survey Description)		2000	Wilde	at y or Parish, State	
1380' FSL & 990' FEL Sec 28-T23S-R29E		AUG 27			County, NM	
		OCDAR			· · ·	
	PROPRIATE BOX(ES) TO		· · · · · · · · · · · · · · · · · · ·	REPORT, U	R OTHER DATA	
TYPE OF SUBMISSION		<u></u>	PE OF ACTION			
Nouce of Intent	Acidize	Deepen Fracture Treat	Production (S	tart/Resume)	Water Shut-Off	
Subsequent Report	Casing Repair	New Construction			Other	
Final Abandonment Notice	Change Plans	Plug and Abandon			<u> </u>	
	Convert to Injection	✓ Plug Back	Water Disposa	d	<u>+</u>	
5M Hyd BOP. Test BOP packer and tbg. POH wi 10,200' and establish inje Make up 7 5/8" cement re Squeeze Wolfcamp perfoo CR1+0.4% AirOut. Yle +0.4% AirOut (Yld1.18 water. Pall up to 8400' a tubing and tag cement at workover rig. Release al Squeeze cementing and ts	to 4500 psiOK. Attempt to th 2 3/8" tbg. Left packer and ition rate of 3 bpm at 2000 psi tainer on 2 3/8" tubing. THH ations in 5" liner at 11,182' I1.18 cu ft, Wt15.6#/gal. S cu ft, Wt15.6#/gal) on top o nd reverse tubing clean. POH 8647' by tubing tally. POH I rental equipment. Clean loc gging cement plug witnessed l	release packer. Rele 1 30 jts tallpipe in hold , TOH w/ packer. I w/ cement retainer a 11,378', 5" liner, 5" li queeze to 1400 psi. S f cement retainer insi 1 w/ 2 3/8" tbg. Squu w/ tbg. Secure well, ration.	ase packer and pull e. Fish for packer w RIH w/ 7 5/8" esg ser nd set at 10, 196'. M ner top and packer v Sting out of cement r de 7 5/8" esg. Pull to seze completed at 11: Shut in and secure	up hole 45' at ith no succes aper testing f URU Superio V/ 30 jts tailpi etainer and h ubing to 8840 :38 am 8/6/20 well. Rig do	10# Brine water. ND tree & NU Ind hung up in casing. Work s. TIH w/7 5/8" packer. Set at ibg in hole. Lay down 3 bad joints. r Well Services cement equipment. pe with 314.5 sx Class "H" + 0.2% eave 118 sx Class "H" + 0.2% CR1 ', Flush tubing w/ 15 bbls brine 08. WOC overnight. TIH with wm and release Zia Well Service	·
14 I hereby certify that the fore Name (Printed/Typed)	geing is true and correct	)				
Gene Lee	1 <u> </u>	Title	Oper Mgr			
Signature	m Lee	Date		08/09/2008		5
/ <u>.</u> +_%	THIS SPACE FOR	FEDERAL OR	STATE OFFIC		KILU I UK KLUUKI	J
• <u> </u>				Γ		
Approved by Conditions of approval, if any, are	attached Approval of this potice	does not warrant or	Title .	<u> </u>	AUG_2 4 2008	
certify that the applicant holds legi	d or equitable title to those rights		Office		100,4 00.00	
which would entitle the applicant t		a crime for any nerson	knowingly and willfull		ry department or agency of the United	
·	lent statements or representations	s as to any matter within	its jurisdiction		and department or agency of the United	
(Instructions on page 2)			Je <sup>4</sup>	ل(	CARLSBAD FIELD OFFICE	
			RECORD			
		FO	A RECORDS			

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· 2 · **			OCD-AK	TESIA		
SUNDRY Do not use th	UNITED STATES DEPARTMENT OF THE BUREAU OF LAND MAN. NOTICES AND REP is form for proposals to all. Use Form 3160-3 (A	INTERIOR AGEMENT PORTS ON WE	enter an	5 Lease Seria NMNM 6 If Indian		
SUBMIT IN TRI	PLICATE- Other instr	uctions on reve	orse side.	7 If Unit or	r CA/Agreement, Name and/or No.	
Type of Well ✓ Oil Well□ □	Gas Well	COCT	0 7 2008	8 Well Nar		
2 Name of Operator Laguna Gran	ide, LLC	OCD-	ARTESIA	9. API We	a Grande Fed. #1 ell No.	
3a Address 601 W. 2nd Street, Suite #18,	Roswell, NM 88201	3b Phone No (inclue 575-622-1100		30-015-	-21636 d Pool, or Exploratory Area	
4 Location of Well (Footage, Sec.,		1	·_	-	gnated Bone Spring	
1380' FSL & 990' FEL Sec 28-T23S-R29E	,				or Parish, State County, New Mexico	
12. CHECK AI	PROPRIATE BOX(ES) TO	INDICATE NATU	RE OF NOTICE, R	EPORT, OR	R OTHER DATA	
TYPE OF SUBMISSION	······	TY	PE OF ACTION			
Notice of Intent Subsequent Report Final Abandonment Notice	Acidize	Deepen Fracture Treat New Construction Plug and Abandon Plug Back	Production (St Reclamation Recomplete Temporarily Ai Water Disposal	bandon	Water Shut-Off Well Integrity Other Change of Operato	HT
following completion of the inv testing has been completed Fil determined that the site is ready This is notification of the 4 9/1/2008. Laguna Grande accepted for record at the Laguna Grande, LLC her	work will be performed or provi olved operations If the operation r tal Abandonment Notices shall be f for final inspection.) Change of Operator from Yeso c, LLC has single well plugging BLM New Mexico State Office eby accepts all responsibility fo of the Bureau of Land Manage	results in a multiple con filed only after all requir b Energy, Inc. to Lag g bond on file in Sant e In Santa Fe, NM. or and plugging resp	upletion or recompletion conents, including reclam una Grande, LLC. T ta Fe, NM and is Bond onsibility for the Lag	in a new interva nation, have been <b>he effective d</b> a d #: <u>10 10 .</u>	II, a Form 3160-4 shall be filed once an completed, and the operator has ate of the new operator is $\underline{BDOOSS6}$ and	2
CONTACT INFO: Laguna Grande, LLC 601 W. 2nd Street, Suite Roswell, NM 88201 575-622-1100 Ron Rutherford 505-269-4810 oagman@aol.com	18	No eH, OCT Gerry Guve J	ED FOR RECO ApJGを クド め る「2008 Deputy Field Inspe strict II ARTE	iper Su	BMITED	
14 I hereby dertify that the fore	going is true and correct		SUTTEE TI ARTE	SIA		===
Name (Printed Typed) Ron Rutherford		Tıtle	Agent		APPROVED	
Signature hould	thickord	Date	-	9/29/2008	- HOVLD	, F
	THIS SPACE FOR	FEDERAL OR	STATE OFFICE	USE	0CT - 3 2000-	_
Approved by Conditions of approval, if any, are certify that the applicant holds lega which would entitle the applicant to Title 18 U.S.C. Section 1001 and Titl States any false, fictutious or fraudu (Instructions on page 2)	or equitable title to those rights in conduct operations thereon. e 43 USC Section 1212 make it a	n the subject lease	Title Office knowingly and willfully its jurisdiction	BUREA	U OF LAND MANAGEMEN SLSBAD FIELD OF EIGH UN y department of agency of GIEL UN	VT ited

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une 1990) DEPARTMEN	TED STATES	ſ	5. Leas	FORM APPROVED Budget Bureau No. 1004-4 Expires: March 31, 199 at Designation and Serial	3
SUNDRY NOTICES Do not use this form for proposals to di Use "APPLICATION FO	ill or to deepen or relat	WELLS 1 05 AH 19 Noty to a different res Beoposals		NM 67103 adian, Allottee or Tribe N	ALLE C
SUBMIT	IN TRIPLICATE		7. if U	nit or CA, Agreement De	signation
Type of Well       X     Oil     Gas       Well     Well     Other	/	F.F.H.1 (2-14914	8. Well	UNA GRANDE UN Name and No. UNA GRANDE FE Well No.	
Address and Telephone No.		915/683-6293	30-0	WEU NO. 015-21636 d and Pool, or Explorator	
P. O. DRAWER 3488, MIDLAND, 7 Location of Well (Footage, Sec., T., R., M., or Survey D 1380' FSL and 990' FEL of Sec	escription)	913/083-0293	WIL	DCAT BONE SPR	-
T-23S, R-29E				Y, NM	
	s) TO INDICATE NAT			OTHER DATA	:
TYPE OF SUBMISSION		TYPE OF		hange of Plans	
Subsequent Report	Recomp	etion ; Back		ew Construction on-Routine Fracturing	
Final Abandonment Notice Revised from Previously Approved	Casing I Altering Other _		C	fater Shut-Off onversion to Injection hispose Water Report results of multiple comp tions or Recomplication Report at	
<ul> <li>Describe Proposed or Completed Operations (Clearly state a give subsurface locations and measured and true vertice 13-3/8" csg. @343' cement cir 10-3/4" csg. @2900' cement cir 7-5/8" csg. @10,848' w/DV to Propose to plug as follows:</li> <li>1) Set CIBP @6650': Cap w/3</li> <li>2) Load hole w/mud laden flut (3) Free point 7-5/8" csg. Set 100' plug inside &amp; constraints (3) Spot 100' plug @393' and (3) Spot 100' plug @surface.</li> <li>7) Cut off wellhead, install 8) Clean &amp; restore location.</li> </ul>	al deputs for all markers and zone culated. rculated. ool @6748', cement 55' cement. Prese tid Shoot off @ approp outside stub and t tag. 4" x 4' marker	ent perfs: @67;	t. top of co D1'-6936' -	ement @2550' ' 30 shots	
I hereby certify that the foregoing is true and correct Signed <u>Instan Kind A</u>	Title Leader	etime Super	inter sinto		
(This space for Federal or State office use) Approved by Orig. Signed by Shannon 3 (Man.) Conditions of approval, if any:	PETRO	LEUM ENGINE	<b>ER</b> D	air <u>2/8/94</u>	

Title 18 U.S.C. Section 1001, makes 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.

	+	<b>_</b>		4
	* <b>*</b>		~	TSSION
Grn1 3160-5	Un	ITED STATES	3	CONSEDUJET BUREAU NO. 1004-0135
Junë 1990)	DEPARTME	NT OF THE INTERIOR	•	Expires Vorch 31, 1993
	BUREAU OF	LAND MANAGEMENT	NO O	Destation and Serial No.
	SUNDRY NOTICES	AND REPORTS ON WELL	S Nrt	6. Il Indian, Allottee or Tribe Name
Do not use i		rill or to deepen or reentry to		j of the shapent, renoved of through the
		DR PERMIT-" for such propos		
	SUBMI	T IN TRIPLICATE	1	7. If Unit or CA, Agreement Designation
T. T			<u>/</u>	
I. Type of Well	, Gas []	X		
	J Well J Other			8. Well Name and No.
2. Name of Operato	Boyle & Stovall		ΥŹ	Laguna Grande #1
				9. API Well No.
3. Address and Tele		450	٦	30-015-21636
	1240, Graham, TX 76			10. Field and Pool, or Exploratory Area
4. Location of Well	(Footage, Sec., T., R., M., or Survey I	Description)		Wildcat-Bone Springs
1380' FS	SL & 990' FEL, Sec 28	. T235, R29F		11. County or Parish, State
		,,		Eddy Cọ., NM
12. CHE	ECK APPROPRIATE POY	(s) TO INDICATE NATURE	OF NOTICE REPO	
TYP	E OF SUBMISSION	~ ·	TYPE OF ACTION	1
	Notice of Intent			
، ہے	Notice of Intent			Change of Plans
				New Construction
	Subsequent Report	Plugging Back		Non-Routine Fracturing
		Casing Repair		Water Shut-Off
ا ل_ا	Final Abandonment Notice	Altering Casing		. L. Conversion to Injection
		] Other		Dispose Water
				Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form 1
13. Describe Propose	d or Completed Operations (Clearly state a	Il pertinent details, and give pertinent dates, it	cluding estimated date of starti	ng any proposed work. If well is directionally drille
•		ical depths for all markers and zones pertinent		
		ated (Wellbore Diagram attac	hed)	
	3/4".@2900', cement circu			
		1 @ 6780, TOC≈2500' calc. )		
5-1/	'2" liner from 10,343 - 13,	,695'		
Hole	e size: 7-5/8" Open Perfs:	5080-90'		
~	ended 2-7/8" N-80 tbg in	hole.	QEC	EIVED
Open	· · · · · · · · · · · · · · · · · · ·		<u>пл</u>	
	pulling unit, NU BOP.			
1) MIRU	/ pulling unit, NU BOP. culate hole w/ 9#/gal. mud	from 6400'.		
1) MIRU 2) Circ	ulate hole w/ 9#/gal. mud		APR	1 8 1995
1) MIRU 2) Circ 3) Pump	ulate hole w/ 9#/gal. mud 0 10 sx cement on top of Cl	IBP @ 6400'.	APR	1 8 1995
1) MIRU 2) Circ 3) Pump 4) Pull	ulate hole w/ 9#/gal. mud 10 sx cement on top of Cl tbg to 5050' & pump 35 s>	IBP @ 6400'. x plug from 5050' to 4900'.		
1) M[RU 2) Circ 3) Pump 4) Pull 5) Pull	ulate hole w/ 9#/gal. mud 10 sx cement on top of Cl tbg to 5050' & pump 35 sy tbg to 2950' & pump 35 sy	IBP @ 6400'. x plug from 5050' to 4900'. x plug from 2950' to 2800'.		
1) MIRU 2) Circ 3) Pump 4) Pull 5) Pull 6) Pull	ulate hole w/9#/gal. mud 10 sx cement on top of Cl tbg to 5050' & pump 35 sy tbg to 2950' & pump 35 sy tbg to 50' & pump 10 sx p	IBP @ 6400'. x plug from 5050' to 4900'. x plug from 2950' to 2800'.	OIL C	on. Div.
1) MIRU 2) Circo 3) Pump 4) Pull 5) Pull 6) Pull 7) RDMD	sulate hole w/ 9#/gal. mud 10 sx cement on top of Cl tbg to 5050' & pump 35 sy tbg to 2950' & pump 35 sy tbg to 50' & pump 10 sx p	IBP @ 6400'. x plug from 5050' to 4900'. x plug from 2950' to 2800'. plug from 50' to surface.	OIL C	
1) M[RU 2) Circ 3) Pump 4) Pull 5) Pull 6) Pull 7) RDMD 8) Remov	wlate hole w/ 9#/gal. mud 10 sx cement on top of Cl tbg to 5050' & pump 35 sy tbg to 2950' & pump 35 sy tbg to 50' & pump 10 sx p ve all equipment from loca	IBP @ 6400'. x plug from 5050' to 4900'. x plug from 2950' to 2800'. olug from 50' to surface. ation.	OIL C	on. Div.
1) M[RU 2) Circ 3) Pump 4) Pull 5) Pull 6) Pull 7) RDMD 8) Remov	sulate hole w/ 9#/gal. mud 10 sx cement on top of Cl tbg to 5050' & pump 35 sy tbg to 2950' & pump 35 sy tbg to 50' & pump 10 sx p	IBP @ 6400'. x plug from 5050' to 4900'. x plug from 2950' to 2800'. olug from 50' to surface. ation.	OIL C	on. Div.
1) M[RU 2) Circ 3) Pump 4) Pull 5) Pull 6) Pull 7) RDMD 8) Remov	wlate hole w/ 9#/gal. mud 10 sx cement on top of Cl tbg to 5050' & pump 35 sy tbg to 2950' & pump 35 sy tbg to 50' & pump 10 sx p ve all equipment from loca	IBP @ 6400'. x plug from 5050' to 4900'. x plug from 2950' to 2800'. olug from 50' to surface. ation.	OIL C	on. Div.
1) M[RU 2) Circ 3) Pump 4) Pull 5) Pull 6) Pull 7) RDMD 8) Remov	wlate hole w/ 9#/gal. mud 10 sx cement on top of Cl tbg to 5050' & pump 35 sy tbg to 2950' & pump 35 sy tbg to 50' & pump 10 sx p ve all equipment from loca	IBP @ 6400'. x plug from 5050' to 4900'. x plug from 2950' to 2800'. olug from 50' to surface. ation.	OIL C	on. Div.
1) M[RU 2) Circ 3) Pump 4) Pull 5) Pull 6) Pull 7) RDMD 8) Remov	wlate hole w/ 9#/gal. mud 10 sx cement on top of Cl tbg to 5050' & pump 35 sy tbg to 2950' & pump 35 sy tbg to 50' & pump 10 sx p ve all equipment from loca	IBP @ 6400'. x plug from 5050' to 4900'. x plug from 2950' to 2800'. olug from 50' to surface. ation.	OIL C	on. Div.
1) M[RU 2) Circ 3) Pump 4) Pull 5) Pull 6) Pull 7) RDMD 8) Remov 9) Cleau	wlate hole w/ 9#/gal. mud 10 sx cement on top of Cl tbg to 5050' & pump 35 sy tbg to 2950' & pump 35 sy tbg to 50' & pump 10 sx p ve all equipment from loca	IBP @ 6400'. x plug from 5050' to 4900'. x plug from 2950' to 2800'. olug from 50' to surface. ation.	OIL C	on. Div.
1) M[RU 2) Circ 3) Pump 4) Pull 5) Pull 6) Pull 7) RDMD 8) Remov 9) Clear	wlate hole w/ 9#/gal. mud 10 sx cement on top of Cl tbg to 5050' & pump 35 s> tbg to 2950' & pump 35 s> tbg to 50' & pump 10 sx p we all equipment from loca n up location & install dr	IBP @ 6400'. x plug from 5050' to 4900'. x plug from 2950' to 2800'. olug from 50' to surface. ation. ry hole marker.		ON. DIV. 8T. 2
1)         MIRU           2)         Circ.           3)         Pump           4)         Pull           5)         Pull           6)         Pull           7)         RDMD           8)         Remov           9)         Clean           isigned	sulate hole w/ 9#/gal. mud 10 sx cement on top of Cl tbg to 5050' & pump 35 s> tbg to 2950' & pump 35 s> tbg to 50' & pump 10 sx p we all equipment from loca n up location & install dr hat the foregoingly true and correct M. M. M. M.	IBP @ 6400'. x plug from 5050' to 4900'. x plug from 2950' to 2800'. olug from 50' to surface. ation.		on. Div.
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	Sec., T., R., M., or Survey Descriptio	<u> </u>	VED	<b>}</b> ──┤ <sup>™</sup>		al, or Exploratory Area a Salado Bone Spring	<u> </u>
1380' FSL & 990' FEL Sec 28-T23-R29E	· · · ·	DEC 31	2009	11.	County or Pa Eddy Coun	rish, State ty, New Mexico	
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#### INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applied be Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State effect. See instructions on items 22 and 24, and 53, below regarding separate reports for separate completions.

If not fied prior to the time this summary record is submitted, copies of all currently available logs (driflers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State hows and regulations. All attachments should be listed on this form, see item 35.

Hem 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Hem 18: Italicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: It this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and mane(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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Ifem 27: "Sucks Coment": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool. Item 33: Subait a separate completion report on this form for each interval to be separately produced. (See instruction for Hems 22 and 24 above.)

FORMATION		TOP	POTTOM	DESCRIPTION, CONTENTS, ETC.	· ·	т	ur í
			< <b>71</b> 0		, NAME	MEAS. DEUTE	THUN VERT. DEPTI
rushy Canyon		5060	6718	DST #1 5033-5129 GTS at end of Final Shut in period. Rec. 20' oil and 2444' Oil &	Rustler	210	
	•		· · ·	gas cut water. ISIP 2329, FP 982-1057 FSIP 2255/240 min.	Bell Canyon	3000	
olfcamp		9950	11886	DST #2 11209-11432 WC 2000' to 133 min.	Cherry Canvon	3893	
. <b>.</b>				GTS 15 min. F0.300 MMCFG/D Rec. 6 bbls	Brushy Conyon	5060	
			,	gas cut mud. ISIP 5902/60 min. FP 1304-	Bonespring	6718	
•		11000	10050	1037. FSIP 6153/445 min.	Wolfcamp	9950	
trawn .		11886 -	12050	DST #3 11880-11922 WC 5040' to 130 min. CTS 42 min. F1. 256 MMCFG/D with spray of	Strawn	11886	
				water. Rec. 4 bbl gas cut water. ISIP	Atoka	12050	
			i	7486/60 min. FP 2785-1701 FSIP 7450/180	Morrow	12312	
				min.	Base Salt	2272	Le la
orrow		12312	13700	DST #7 13086-13297 WC 6500' to 138 min.	SALADU	2 400	· · · · ·
	•			CTS 68 min. Fl. 250 MMCFG/D. Rec. 94' gas cut mud. ISI? 5921/60 min. FP 3347-1795		1 700	
•	•			FSIP 5826/242 min.		· · .	
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# New Mexico Office of the State Engineer Point of Diversion Summary

		••		NW 2=NE	3=SW 4=SE largest)	E) (NAD83 UTM i	in meters)	
P	OD Number	Q64 Q′	16 Q4	Sec Tv	vs Rng	X	Y	-
C	03587 POD1	1 4	4 3	29 23	S 29E	593338 3	570754 🛔	ă.
Driller License:	1348							
Driller Name:	TAYLOR, CLINI	ON E. (LD)						
Drill Start Date:	04/13/2013	Drill Finish	Date	: 0	4/14/2013	Plug Da	ate:	
Log File Date:	05/07/2013	PCW Rcv [	Date:			Source	:	Shallow
Pump Type:		Pipe Disch	arge	Size:		Estimat	ted Yield:	1 GPM
Casing Size:	4.00	Depth Well	:	9	9 feet	Depth V	Water:	44 feet
Wate	er Bearing Stratifi	cations:	Тор	Botton	Descrip	otion		
			98	99	) Limesto	one/Dolomite/	Chalk	
	Casing Perf	orations:	Тор	Botton	1			
			89	99	9	•		

despest H20 is 100'.

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.

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# 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.)	been r	-	(quar						IE 3=SW	•	3 UTM in m	eters)		(In feet	)
POD Number	, · · *	POD Sub- basin (	County	time 1	Q 16	1. Č.	N930	Tws	Rng	×	ېت م. ک. ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰ ۲۰۰۰				Water Column
<u>C 00571</u>		С	ED	1		3	30			591241	3570957*	1	90	38	52
C 00571 CLW241602	0		ED	3	3	3	30	23S	29E	591241	3570757*		89	38	51
<u>C 01627</u>		С	ED	1	4	4	28	23S	29E	595649	3570959*	<b>B</b>	170		
<u>C 02182</u>		С	ED			4	30	23S	29E	592328	3571048*	Ę.	75	30	45
C 02707		С	ED			2	28	23S	29E	595535	3571868*	8	40	18	22
C 03587 POD1		CUB	ED	1	4	3	29	23S	29E	593338	3570754	ß	99	44	55
											Average D	epth to	Water:	33 f	eet
											Mi	nimum	Depth:	18 f	eet
											Ма	ximum	Depth:	<b>44 f</b>	eet

## Record Count: 6

## PLSS Search:

Section(s): 28-30, 31-33

Township: 23S 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.

			<b>OCD</b> Artesta					
	UNITED STATES DEPARTMENT OF THE	INTERIOR			FORM APPROVED OM B No. 1004-0137 Expires: March 31, 2007			
BUREAU OF LAND MANAGEMENT SUNDRY NOTICES AND REPORTS ON WELLS					5. Lease Serial No. NMNM-67103			
SUNDR Do not use t abandoned v		a, Allottee or Tribe Name						
SUBMIT IN TR	RIPLICATE- Other instr	ructions on revei	rse side.	7. If Unit or	r CA/Agreement, Name and/or No.			
1. Type of Well [기이네 Well] [ 이네 Well] [ [	Gas Well			8. Weil Nai	me and No.			
2. Name of Operator Laguana	<u> </u>		a Grande Federal #1					
3a Address 601 W. 2nd Street, Suite 18,	Decurall N&t 00301	3b. Phone No. (include 575-622-1100	e area code)	30-015	-21636			
4. Location of Well (Footage, Sec.		373-022-1100	<u> </u>		d Pool, or Exploratory Area aguna Salado Bone Spring			
1380' FSL & 990' FEL Sec 28-T23S-R29E					or Parish, State County, New Mexico			
12. CHECK A	APPROPRIATE BOX(ES) TO	INDICATE NATUR	RE OF NOTICE, R	EPORT, OR	ROTHER DATA			
TYPE OF SUBMISSION	L		PE OF ACTION					
Notice of Intent	Acidize	Deepen Fracture Treat	Production (Sta	ant/Resume)	Water Shut-Off			
Subsequent Report	Casing Repair	New Construction	Recomplete		Other			
Final Abandonment Notice	Change Plans	Plug and Abandon Plug Back	Temporarily At	oandon .	·			
If the proposal is to deepen di Attach the Bond under which following completion of the in testing has been completed. I determined that the site is read Laguna Grande, LLC is	rectionally or recomplete horizontall the work will be performed or provi nvolved operations. If the operation final Abandonment Notices shall be dy for final inspection.) submitting this Sundry Notice t	y, give subsurface locatio ide the Bond No. on file y results in a multiple comp filed only after all require to place the above well	ns and measured and tra with BLM/BIA. Requir oletion or recompletion iments, including reclar	ie vertical depth ed subsequent r in a new interva nation, have bee	al, a Form 3160-4 shall be filed once en completed, and the operator has 5. This well has been idle and			
If the proposal is to deepen di Attach the Bond under which following completion of the in testing has been completed. I determined that the site is read Laguna Grande, LLC is shut in for over a year af and the new PBTD is 864 Laguna Grande LLC is j of 6701 to 6986'. This in	rectionally or recomplete horizontall the work will be performed or provi nvolved operations. If the operation final Abandonment Notices shall be dy for final inspection.) submitting this Sundry Notice t fter having been plugged back for the back of the the the the the the trend the	y, give subsurface locatio ide the Bond No. on file v results in a multiple comp filed only after all require to place the above well rom the Wolfcamp. E leral #1 well on pump I and is deemed to be c	ns and measured and tra with BLM/BIA. Requir pletion or recompletion i ments, including reclar back into a produci BLM officials from the to produce the previ- commercial. A new	ie vertical depth ed subsequent r in a new interva- nation, have bee ng well status ne CRO witho ous Bone Spr pumping unit	is of all pertinent markers and zones. reports shall be filed within 30 days al, a Form 3160-4 shall be filed once en completed, and the operator has 5. This well has been idle and essed the plug back operations ing perforations from the depths			
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		Form 3160 (April 20	)-4 04)			NITED STAT MENT OF TH			ی <b>ت</b> - <sup>۳</sup> محدد		>174	ł	FORM	APPROVED	
				COMPLY	BUREAU	OF LAND M	IANAGE	MENT	T AND				OMBN	O 1004-0137 March 31, 2007	_
			_ ~								=		5 Lease Serial 1 NMNM-67		=
		Ia Турес b Турес	of Well [ of Completion	n 🗖	New Well [	Dry C Work Over		🔽 Pluj	g Back	[]]Dıff	Resvt,			ttee or Tribe Name	_
		2 Name	of Operator	Othe Laguna Gra									B Lease Name a	nd Well No	-
		3. Addre	<sup>SS</sup> 601 W.	2nd Street, 1	Suite #18, Ro	oswell, NM 882	01 _			include ar			Laguna Gr AFI Well No 30-015-2163	ande Federal #1	_
	- 2	4 Locate	on of Well (/	Report location	clearly and in	accordance with	Federal rea		s)*				0 Field and Pool	, or Exploratory	 مان ک
		At sur	face 138	80' FSL & 99	'0' FEL		, I,	DE	C 2 3	<b>3</b> 2009				a Salado Bone Spring	1 Such 910 PS
		At top	prod interva	al reported belo	<sup>W</sup> 1380' FS	L & 990' FEL		MOQ	מ מר	BTE	SIA		Survey or Are	1- 28-T23S-R29E	1000
		At tot	al depth 13	80' FSL & 9	90' FEL		<u> </u>						2 County or Par Eddy	ish 13 State NM	-
		14 Date S	pudded 5/2009	15	Date T D Re 09/02/200		16	Date Co		12/07/ Ready		1		F, RKB, RT, GL)*	-
		18. Total I		) 13700	——————————————————————————————————————	Plug Back T D	MD 864				th Bridge	Plug Se		10196 & Squeezed	-
				D 13700			TVD 864	47	)				TVD	10196 & Squeezed	
		21. Type I			cal Logs Run (	Submit copy of e	ach)				well core		No Yes (S	Submit analysis)	-
		None	during plu	g back. See	Original Log	s in well file.					DST run ctional Si	_		submit report) s (Submit copy)	
		Zi Casin	g and Liner	Record (Rei	ort all string	s set in well)		-			cuonal 51	nvcy/		s (Submit copy)	-
		Hole Size	·				) Stage C			Sks & Cement	Slurry (Bl	Vol	Cement Top*	Amount Pulled	-
		17 1/2	13.375 J	54.50	0	343	/ Dep	<u>un</u>	325	Centent	(1)[		Circ	None	-
		12 1/4	10.75 K	45.5, 51	0	2900			1800 +	200 C			Circ	None	-
		9.5	. 7 5/8 N8			10848	6784		1450 s	·			3900 Est Cale		_
		6.5	<u>5" P110</u>	18	10343	13695			3/3 SX	50/5011			10343 CBL	None	-
															-
		24 Tubing Size		at (MD) Pac	ker Depth (MD	) Size		et (MD)	Packer D	enth (MD	<u>.</u>	Size	Depth Set (MI	D) Packer Depth (MD)	-
		2 3/8	7022	N/			Deptilo	er (init)		- put (MD	<u> </u>	,, <u>,,</u>	- Deptil Oct (III		-
		25 Produc	cing Intervals	s		-1		erforation							-
			Formation	- <u></u>	Top	Bottom		rforated In	nterval		Size	No 1 30	Holes	Perf Status	-
		A) Bone B)	e Spring		6681	9949	6701	0980	_			30		17 Froducing	-
		<u>C)</u>			 										-
			Fracture, Tree Jepth Interva	atment, Comen	l Squceze, etc				ount an	d Type of	Matorial				-
		670169	· ·····		Acidize w/ Brady San		ICL, Fra					,000# 2	0/40 Brady San	1+119,000# 10/20	ักไ
			·									TAC	CEPTED	FOR RECOR	-
		28 Produ	ction - Interv	at A	I										- [
		Date First Produced	Test	Hours Test	uction BBL	Gas MCF	Water BBL	Oil Gravit Cort API	ty I	Gas Gravit	P	oduction	Mithod DEC	2 1 2009 tof	-
		12/07/2009	12/08/2009	24	> 15	148	128	40		0.62		Purpping	LIGI M	2 1 2009 Nes Kristof	_ ·
		Choke Size	Elwy	Csg 24 H Press Rate	BBL	MCF i	Water BBL	Gas/Oil Ratio		Well Sta	ณร 	Producing	BUREAU OF	AND MANAGEMENT	
			uction • Inter-	val B	► <u>15</u>	148	128	9866:1					CARLSB	U FIELD OF TOL	
		Date First Produced	Test	Hours Test Tested Produ	iction BBL		Water BBL	Oil Giavit Corr API	iy -	Gas Gravity		oduction		·	-
		Choke Size	Flwg	Csy 24 H Press Rate			Water 3BL	Gas/Oil Ratio		Well Star	l us				-
		*10	<u>s</u> t												

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

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JW2\_\_\_

Will Will	ldcat		STATE NM	Neproduction Prohib
EXXON CORP,			30-015	-21636
1 Laguna Grande L	Jnit		4-4- SEML	12 NM
Sec 28, T23S, R29E				
1380' FSL, 990' FEL of Se	ec _			
1 mi S & 6 mi E/Loving			ELTY	
<u>mo 11-13-75 cm 3-27-76</u>	WOLS OLASSI; MIT	WF	WFD	
C36	PORMATION	DATUM	FORMATION	DATUM
13 3/8" at 343' w/325 sx		1		
10 374" at 2900' w/2000 sx				
7 5/8" at 10,848' w/1350 sx				
7 J/O UL 103040 W/1330 SA				
5" 1nr 10,343-13,695' w/375	SX	· L · · · · · ·		
	sx	1 1		
5" 1nr 10,343-13,695' w/375	™ 13,700'			

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	F.R. 9-1-75
	(Pennsylvanian)
11-18-75	Drlg 2190'
12-2-75	Dr1g 5226'
	DST (Cherry Canyon) 5033-5129', open 2 hrs 10 mins, rec 20' oil + 2400' O&GCW, 1 hr 30 min ISIP 2329#, FP 920-1057#, 4 hr FSIP 2255#, HP 2417-2417#
12 <b>-9-</b> 75	Drlg 7870'
12-16-75	Dr1g 9784'
1-6-76	Drlg 11,415
	Sidewall Cored (Delaware) 6437-6660' (8 Cores)
1-8-76	TD 11,432'; Prep Drill
	DST (Wolfcamp) 11,209-432', open 3 hrs 5 mins, (2000'WB), GTS in 10 mins @ 300 MCFGPD, rec WB + 6 BGCM (Sampler rec 450 cc's Cond + 2.78 CFG), 1 hr ISIP 5902#, FP 1037-1306#, 7 hr 25 min FSIP 6153#, HP 6728-6692#
	4-4-12 NM

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orm 3160-5		GED STATES		CON Budget Bureau No. 1004-0135
lunë 1490)	DEPARTME	NT OF THE INTERIOR	NN OIT	
	BUREAU OF	LAND MANAGEMENT	NU	Concernation and Serial No.
			Drawe	1 NM-67103
		AND REPORTS ON WELLS	-	6. If Indian, Allottee or Tribe Name
Do not use thi		rill or to deepen or reentry to a d		
		R PERMIT—" for such proposals		
	SUBMI	T IN TRIPLICATE		7. If Unit or CA, Agreement Designation
Type of Well				1
				8. Well Name and No.
. Name of Operator	Well L_ Other			Laguna Grande #1
Bettis, B	oyle & Stovall		1/	9. API Well No.
Address and Teleph				30-015-21636
P O Box 12	240, Graham, TX 764	450		10. Field and Pool, or Exploratory Area
Location of Well (F	ootage, Sec., T., R., M., or Survey D	Description)		Wildcat-Bone Springs
1380' FSL	& 990' FEL, Sec 28	. T23S. R29F		11. County or Parish, State
		· · · · · · · · · · · · · · · · · · ·		Eddy Có., NM
				<u> </u>
CHEC	K APPROPRIATE BOX	(s) TO INDICATE NATURE OF	NOTICE, REPOR	IT, OR OTHER DATA
TYPE	OF SUBMISSION		TYPE OF ACTION	
LA Not	tice of Intent			Change of Plans
	sequent Report	Recompletion		Non-Routine Fracturing
L 300	sequent Report			Water Shut-Off
E Fin	al Abandonment Notice	Altering Casing		Conversion to Injection
	,	Other		
				Dispose Water
				(Note: Report results of multiple completion on Well
		Il pertinent details, and give pertinent dates, includi		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form )
give subsurface	locations and measured and true verti-	Il pertinent details, and give pertinent dates, includi cal depths for all markers and zones pertinent to t	his work.)*	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form )
give subsurface Data: 13-3/8	Docations and measured and true versions and measured and true versions and measured and true versions and true	Il pertinent details, and give pertinent dates, includi cal depths for all markers and zones pertinent to t ated (We) Ibore Diagram attached	his work.)*	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form )
give subsurface Data: 13-3/8 10-3/4	1 locations and measured and true verti 3" @ 343', cement circula 4" @ 2900', cement circul	Il pertinent details, and give pertinent dates, includi cal depths for all markers and zones pertinent to t ated (Wellbore Diagram attached lated	his work.)*	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form )
give subsurface Data: 13-3/8 10-3/4 7-5/8"	Decations and measured and true verti 3" @ 343', cement circula 4" @ 2900', cement circul ' @ 10,848 with a DV tool	Il pertinent details, and give pertinent dates, includi cal depths for all markers and zones pertinent to t ated (Wellbore Diagram attached lated 1 @ 6780, TOC=2500' calc.	his work.)*	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form )
give subsurface Data: 13-3/8 10-3/4 7-5/8" 5-1/2"	10cations and measured and true verti 3" @ 343', cement circula 4" @ 2900', cement circul 4 @ 10,848 with a DV tool 4 liner from 10,343 - 13,	Il pertinent details, and give pertinent dates, includi cal depths for all markers and zones pertinent to t ated (Wellbore Diagram attached lated 1 @ 6780, TOC=2500' calc. ,695'	his work.)* )	(Note: Report results of multiple completion on Well Completion of Recompletion Report and Log form ) any proposed work. If well is directionally drilled
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\*See Instruction on Reverse Side

Form 3160-5 (November 1983)	UN' "D STATES Dr		Form approved. Budget Bureau No. 1004 Expires August 31, 1985	
	ARTMEN. OF THE INTE JREAU OF LAND MANAGEME		5. LEASE DESIGNATION AND BEELA	L NO.
SUNDRY	NOTICES AND REPORTS proposals to drill or to deepen or plu PPLICATION FOR PERMIT—" for suct	ON WELLS	0. IF INDIAN, ALLOTTER OB TRIBE	NAME
	PPERATION FOR PERMIT- IN MA	RECEIVED BY	7. UNIT AUREMENT NAME	
OIL CAB WELL WELL XX OT 2. NAME OF OPERATOR	828	NUV 14 1986	Laguna Grande Unit 8. FARM OR LEASE NAME	
The Eastland Oil 3. ADDREAS OF CPERATOR P. O. DREWING 7499		O, C. D. 2 ARTESIA, OFFICE	Laguna Grande Unit	<del>_{Feder</del> a
P.O.Drawer 3488, 4. LOCATION OF WELL (Report loc See also spuce 17 below.) At surface	Midland, Texas 797 atton clearly and in accordance with		10. FIELD AND POOL, OR WILDCAT Wildcat -	
At Surface: 138	30' FSL and 990' FEL of	Section	11. SHC., T., B., M., OR ALK. AND BURYBY OR ANDA Sec 28, T23S, R29E	
14. PERMIT NO.	15. ELEVATIONS (Show whether	DF, RT, GR, etc.)	12. COUNTY OR PARISH 13. STAT	1
·				Mexico
18. Chee	k Appropriate Box To Indicate	Nature of Notice, Report, o	r Other Data	
NOTICE OF	INTENTION TO :	SUBA	EQUENT REPORT OF :	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-OFF	EPAIRING WELL	
FRACTURE THEAT	MULTIPLE COMPLETE	FRACTURE TREATMENT Shooting or acidizing	ALTEBING CABING	-
BHOOT OR ACIDIZE	ABANDON*	(Other) Change Q	La	-
(Other)		(NOTE : Report rest	nits of multiple completion on Well	
assume responsib	ility for plugging or c	operating.	rporation. Eastland wi	
			- -	
			an a	;
			Post ID-3 11-21-26	
18. I hereby certify that the foreg	oing is true and correct			<u>_</u>
SIGNED Marine	Kild TITLE P	roduction Supt.	DATE10-15-86	
(This space for Federal or Sta OLU	te office use) TITLE		DATE JI-1.2 -SC	
CONDITIONS OF APPROVAL				
			x	

## \*See Instructions on Reverse Side

Form 9-331 Dec. 1973	UNITED DEPARTMENT (	NM 88210 STATES OF THE INTERIOR AL SURVEY		Form Approved Budget Bureau No. 42- 5. LEASE NM - 23/77 6. IF INDIAN, ALLOTTEE OR TRIBE NAM	
	Y NOTICES AN	D REPORTS ON fill or to deepen or plug b posels.)		7. UNIT AGREEMENT NAME LAGUNA GRANDE UNI 8. FARM OR LEASE NAME	<u> </u>
1. oil well	gas oth	er .		LAGUNA GRANDE UNIT. 9. WELL NO.	<u>(FE</u> DER.
<u>LXXD</u> 3. ADDRESS	FOPERATOR CORPORA OF OPERATOR COPERATOR	LAND TEX	AS 79702	10. FIELD OR WILDCAT NAME <u>BONESPRING</u> 11. SEC., T., R., M., OR BLK. AND SURVI	EY OR
below.) AT SURF	ACE: /380' FSL PROD. INTERVAL:	AND 990 FEL		AREA <u>SEC 28 T235</u> , <u>R 29 E</u> 12. COUNTY OR PARISH 13. STATE <u>IE D. D.Y</u> <u>NEW M</u> 14. API NO.	<u>EXICO</u>
	OR OTHER DATA	O INDICATE NATURE	OF NOTICE,	15. ELEVATIONS (SHOW DF, KDB, AND 3003 GR 20	WD)
TEST WATER FRACTURE TI SHOOT OR A REPAIR WELL			RECI	U C 1984 Report results of multiple completioe	יין דיין אר גטאקר
PULL OR AL' MULTIPLE CO CHANGE ZON ABANDON* (other)			0	Change of Form 9-330.) Provide Con- C. D. SIA, OFFICE	

2. SET CIBP AT 6670' AND CAP WITH A MINIMUM 35' OF CMT.

TEST WSOOPSI.

÷

3. SET J53X CLASS C AT JODO'(TOP OF DEL AWARE).

- 4. RUN FREE-POINT ON 75%" CSG TO DETERMINE TOP OF CMT.
  - A. IF FREE-POINT IS AT 2850' OR SHALLOWER, RIH WOPEN ENOLD TRG TO 2950' AND SPOT 35 SX CMT PLLG.
  - B. IF FREE-POINT IS AELOW 2850', PLWG 103/4" SHOE AS FOLLOWS: 1. PERF 2SHOTS AT TOC OR 2950' WHICHEVER IS SHALLOWER.

Subsurface Safety Valve: Manu. and Type	<u> 0N/INuCO ON BAC.M</u> Set @ Ft.
18. I hereby certify thet the foregoing is true and	correct
SIGNED D. & Long	TLE SKADMIN DATE 1-11-84
APPROVED BY Std.) PLTER W. CITETER Mis a	pace for Federal or State office use)
APPROVED BY	TITLE DATE
CONDITIONS OF APPROVAL IF ANY FEB 3 198-1	
· <u>-</u> -	

Perm 9-330			<u>N.M.O.</u>	C.D. CO.	PY				(	opy 10	سرد
(Rev. 5-63)	1	ບທາກົວ :	STATES	SUBM	T IN	DUPLIC	AT 🚬	1	Form a	pproved. Bureau No. 42-R355.	
<u>†</u>	DEPARTN	- ·	THE IN	reriof	र		oth tiona on se side)	I		ION AND BERIAL N	
								NM-23		TTEE OR TRIBE NAD	
WELL COM	MPLETION C	DR RECOM	PLETION F	REPORT	AND	LQ(	G *	O, IF INDIAS	, ALLU	THE OR TRIBE NAP	
1. TYPE OF WELL	L: OIL WELL	GAS WELL	DET .	Other -				7. UNIT ACE	CEMENT	T NAME	-
b. TYPE OF COMP	UETION:	PLEG BACK	DIFF.	Other	.,	1r		Lagun S. FARM OB		ande Unit	_
2. NAME OF OPERATO	on t/	7		- 4/9/1				Lagun	a Gra	ande Unit ()	Pedera [
Exxon Corpo 3. ADUBESS OF OPER	ration					4 		9. WELL NO.		· · · · · · · · · · · · · · · · · · ·	
BOX 1600, M	idland, Texa	as <u>79702</u>				) :		10. FIELD AT	ND POOL	, OR WILDCAT	-
4. LOCATION OF WEL At aurface 13	(Report location of 80 <sup>4</sup> FSL and 9	learly and in acc 990 <sup>f</sup> FEL of	Sec			}•					;
i.			ງມ	N 1 2 13	<u>79</u> -			OR AREA		DR BLOCK AND BUDVE	) <b>T</b>
At top prod. inte	rval reported below	1 · · · ·		· · ·	1					•.	
At total depth			U.S. UE	LULIUNLA	24E 24100			Sec	28, _	T-235, R-29	<u>-</u> E
		-	14. PERMITES	18, NJEVETU 1	5172 Y	SSUED		12. COUNTY PARISH	OR	13. STATE	
: 15. DATE SPUDDED	16. DATE T.D. REAC		OWRI (Peady to	1	<u> </u>			Eddy	19.1	New Mexic	<u>2</u> 0
				1.0		03 GR	• •	• • •	1		
20. TOTAL DEPTH, MD &	3-2-76 TVD 21. PLUG, B		b   22. IF MULT	TIPLE COMPL.		23. INTI	ERVALS	ROTARY TOO	LS	CABLE TOOLS	-
13700	1296	55 .	HOW M		ļ		LLED BY	0-13700	}		_
24. PRODUCING INTERV	(Plugged &	NPLETION-TOP. B	OTTOM, NAME (M	D ▲ND TVD)*		351 0			25	SURVET MADE	
11,888-1190		Abaliquied	, set ofbi	at 1500	• #/ 		uice c	m cop.			
26. THE ELECTRIC AL			· · · · · · · · · · · · · · · · · · ·						27. w	AS WELL CORED	
	, '	•		•	• -	·			-		۰.
<u>GR Sonia.</u> 23.	<u>Dual Laterol</u>		G RECORD (Rep	ort all strings	ect in	well)		(			-,
CASING BIZE	WEIGHT, LB./FT.	DEPTH SET	(MD) HOI	E SIZE		CEY	IENTING	RECORD		AMOUNT PULLED	-
	54.5#	343	17 1	/2	325	Circ		. <u> </u>	(		-
_10_3/4	45.5 & 51.0		12_1		<u>1800</u>				[		'
	29.7		91	/2	<u>700</u>	<u>-</u>	·				
<u>* 5</u> 29.	18LIN	13695 NER RECORD :		14		30.		TUBING REC	ORD		
8122	TOP (MD) BC	оттом. (мв) 8	ACKS CEMENT"	SCREEN (M	D)	SIZE		DEPTH SET (M	(D)	PACKER SET (MD)	_
* 5	10343	13645	375			2 7	/8	11520		11520	_
81. PERFORATION RECO	ho (Internal 1/20 c	* {			/						-
	• •	•	202	S2.				TURE, CEMEN		ATERIAL USED	_
cmt. w/100	(Set retair	ner at 1340		13529-	<u> </u>		/	id 5600			
	(25 Holes C	CIBP set an	L 13.000'	13107-				id_6700			-
w/35' cmt.				13107-						gelled 3% I	HCL Aci
11888-11900	<u>(20 holes)</u>			<u>  11888-</u>	1190	<u>0                                    </u>	None			uid CO2 and	<u>3</u> ,500∜
33.* DATE FIRST PRODUCTION	N PRODUCTI	ION METHOD (Flo	wing, gas lift, pu	DECTION	and typ	e of pun	np)	WELL		t (Producing or	-
4-30-79	Flo	••••••••••••••••••••••••••••••••••••••			• .			4AU	it-in) = = = = -	*==**	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OILBBL.		GAS-M	CF.	WATER-BB	L.	GAS-OIL RATIO	-
5-22-79	1	10/64	<u> </u>			1	9				
	CASING PRESSURE	CALCULATED 24-HOUR BATE	OIL-BBL.	GAS-		2. I	WATER-		012 61	RAVITY-API (COBR.)	
240 84. DISPOSITION OF GA	PRR is (Sold, used for fue	el, vented, etc.)			468	<u> </u>		TEST WITNE	SSED BI	 t	-
Sold-El Pas	o Natural Ga	IS	• •			• .		J. C. S	herr	i11	
35. LIST OF ATTACH M			· · · · · · · · · · · · · · · · · · ·					<u> </u>	. •	- <u></u>	
					<u> </u>	•		· .		<u> </u>	_
36. I hereby certify	$\cap$		rmation is compl	lete and corre	ctan (	letermin	ed from	ail available r	ecords		
BIGNED	J. Cheln	<u>~</u>	TITLE	Unit	Hea	d		DATI	<u> </u>	8-79	-
1	*{See Ir	nstructions and	Spaces for A	dditional I	Data d	on Reve	erse Sid	le) .			

 $\checkmark$ 

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## McMillan, Michael, EMNRD

From:	McMillan, Michael, EMNRD
Sent:	Friday, January 22, 2016 9:19 AM
То:	'Rena Seay'
Cc:	Goetze, Phillip, EMNRD; Jones, William V, EMNRD; Lowe, Leonard, EMNRD
Subject:	RE: Laguna Grande SWD Well No.1

Eddie:

If I do not received the required cross-section by 8:00 AM. Thursday January 21, 2016, I will cancel your application, and you will have to resubmit your application.

Thank You

# Michael A. McMillan

Engineering and Geological Services Bureau, Oil Conservation Division 1220 South St. Francis Dr., Santa Fe NM 87505 O: 505.476.3448 F. 505.476.3462 Michael.mcmillan@state.nm.us

From: McMillan, Michael, EMNRD Sent: Monday, January 04, 2016 11:27 AM To: 'Rena Seay' Subject: RE: Laguna Grande SWD Well No.1

Eddie:

I did not see the signed signature for the hydrologic connectivity-resend that to me. Since there are Bone Spring wells in the vicinity, I will require a Bone Spring water sample in the vicinity.

Thank You

Mike

From: Rena Seay [mailto:seay04@leaco.net] Sent: Monday, January 04, 2016 10:28 AM To: McMillan, Michael, EMNRD Subject: Re: Laguna Grande SWD Well No.1

1/4/2016

## RE: Laguna Grande SWD #1

Mr. McMillan:

## McMillan, Michael, EMNRD

From:	Rena Seay <seay04@leaco.net></seay04@leaco.net>
Sent:	Friday, January 22, 2016 11:04 AM
То:	McMillan, Michael, EMNRD
Subject:	Re: Laguna Grande SWD Well No.1

Mr. McMillan:

As per our conversation today, all requested information is in the mail today, January 22, 2016. Thanks for your help.

Eddie Seay

----- Original Message -----From: McMillan, Michael, EMNRD To: Rena Seay Cc: Goetze, Phillip, EMNRD; Jones, William V, EMNRD; Lowe, Leonard, EMNRD Sent: Friday, January 22, 2016 9:18 AM Subject: RE: Laguna Grande SWD Well No.1

Eddie:

If I do not received the required cross-section by 8:00 AM. Thursday January 21, 2016, I will cancel your application, and you will have to resubmit your application.

Thank You

# Michael A. McMillan

Engineering and Geological Service's Bureau, Oil Conservation Division 1220 South St. Francis Dr., Santa Fe NM 87505 O: 505.476.3448 F. 505.476.3462 Michael.mcmillan@state.nm.us

From: McMillan, Michael, EMNRD Sent: Monday, January 04, 2016 11:27 AM To: 'Rena Seay' Subject: RE: Laguna Grande SWD Well No.1

Eddie:

I did not see the signed signature for the hydrologic connectivity-resend that to me. Since there are Bone Spring wells in the vicinity, I will require a Bone Spring water sample in the vicinity.

Thank You

Mike

January 22, 2016

RECENTED COD

205 JEL 15 P 2:33

NMOCD Engineering ATTN: Michael McMillan 1220 South St. Francis Drive Santa Fe, NM 87505

RE: Laguna Grande #1 SWD Cross-Section Bone Springs Water Analysis Signature page of hydrologic connection

Mr. McMillan:

Find enclosed cross-section from two offset wells as you requested.

Also within is a Bone Spring water analysis from Oxy Cypress 33 lease, and a signature page from Part XII of application. I hope this will help in the permit process.

If you need anything further, please let me know.

Thanks for your patience.

din W

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

ſ

November 27, 2015

RECEIVED OCD 2015 DEC - 2 P 2: 4b

NMOCD Engineering ATTN: Michael A. McMillan 1220 South St. Francis Drive Santa Fe, NM 87505

RE: Laguna Grande SWD #1 Application C-108

Mr. McMillan:

In response to your problems with the above application.

In checking the Legal Notice, the newspaper left out that sentence. I have requested paper to re-run advertisement, the original and a copy are within.

In reviewing the well files, I found the notice of intent to P & A and BLM requested that casing be pulled at 2500'; the well was never plugged, a change of operator was filed and well put back on production, find copies of files within.

I hope this answers any questions you may have as you continue to review application.

Thanks,

Pin-

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

# **Rena Seay**

From:"McMillan, Michael, EMNRD" <Michael.McMillan@state.nm.us>To:<seay04@leaco.net>Sent:Friday, November 20, 2015 4:20 PMSubject:Laguna Grande SWD Well No.1Eddie:

I am reviewing your administrative application for the Laguna Grande SWD Well No.1.

There are two problems in your application.

First, the legal notice does not say the formation or the top and bottom of the perforated interval.

Next, look at the well file. I believe the casing is shot off at 2500 feet-the well file is confusing, because it had at seven different operators.

Thank You

# Michael A. McMillan

Engineering and Geological Services Bureau, Oil Conservation Division 1220 South St. Francis Dr., Santa Fe NM 87505 O: 505.476.3448 F. 505.476.3462 Michael.mcmillan@state.nm.us

# LEGAL NOTICE -

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Cherokee Disposal, LLC, 301 Hinson Rd, Lovington, NM 88260, is filing a C-108 to convert an existing well to a Salt Water Disposal. The well being applied for is the Laguna Grande #1, API 30-015-21636, located in Unit I, Section 28, Township 23 South, Range 29 East, Eddy Co., NM. The injection formation is the Bell Canyon from 2950' to 3400' below surface. Expected maximum injection rate is 10,000 bpd., and the expected maximum injection pressure is 600 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.

This is what was Sent News pope Senlance

They let left

Attached is New ad

Affidav	it of Publicat	ion 23635	Pursue	y of Publicatio	
State of New Mexico County of Eddy: Danny Scott	ma Acar		Cated in Unit 7 5 Tiples an The injection of Unit 7 103 Expected in Unit 7 103 proceded in Sedificities of	d regulations of the Oil Conservati herokee Disposal, LLC, 301 Hinso to convert an existing well to a Sal or is the Laguna Grande #1. API 3	on Division of the n Rd, Lovington, NM It Water Disposal. 0-015-21636, Io- East, Eddy Co, NM. 100' below surface.
circulation, published in and state, and that the he	s, a daily newspaper of Genera English at Artesia, said county		476-340 hearing by 0 rail (15) days, 120 south be Legal No. 23635	nerokee Disposal, LLC, 301 Hinso to convert an existing well to a Salor or is the Laguna Grande #1, API 3 8, Township 23 South, Range 29 I is the Bell Canyon from 2950' to 34 is 10,000 bpd., and the expected that the OCD allows. Any questions 7 die W. Seay, (575) 3922236, or directed to the Oil Conservation int Francis Drive, Santa Fe, NM & e Artesia Daily Press, Artesia, N.	maximum injection s about the applica- any objection or re- Division;(505) articilidut 37504, within fitteen as M., Nov. 24 2015
<u>~</u>	lar and entire issue of the said	<b></b>			
Artesia Daily Press, a da	ily newspaper duly qualified				
for that purpose within t	he meaning of Chapter 167 of				
the 1937 Session Laws	of the state of New Mexico for	-			
1 Consecutive	e weeks/day on the same		· · · ·		
day as follows:			X		
First Publication	November 24, 20	15			
Second Publication					
Third Publication					
Fourth Publication					
Fifth Publication					
Sixth Publication					
Subscribed and sworn be		2015			
24th day of OFFICIAL SE Latishe Rom NOTARY PUBL My commission	ne IC-STATE OF NEW MEXICO	2015			
Aatush	& Romine				
Latisha Ro	mine				
Notary Pul	olic, Eddy County, New Me	exico			

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A	ffidavi	t of Publica	tion
		No.	23635
State of No County of Danny S		na Acar	
	1	that she is the <b>P</b>	ublisher
of the Arte	esia Daily Pres	s, a daily newspaper of Gen	eral
circulation	ı, published in	English at Artesia, said cou	nty
and state, a	and that the he	reto attached	
	Lega	al Ad	
was publis	shed in a regul	ar and entire issue of the sai	
Artesia Da	aily Press, a da	ily newspaper duly qualified	1
for that pu	rpose within th	ne meaning of Chapter 167 o	of
the 1937 :	Session Laws o	of the state of New Mexico f	for
1	Consecutive	weeks/day on the same	
day as foll	ows:		
First Publi	cation	November 24, 2	2015
Second Pu	blication		
Third Publ	lication		
Fourth Pul	blication		
Fifth Publi	ication		
Sixth Publ	ication	<b></b>	
Subscribed	d and sworn be	fore me this	
24th	day of	November	2015
	OFFICIAL SE Latisha Romin NOTARY PUBLI My commissio	NE C-STATE OF NEW MEXICO	
A	<u>Octost</u> Latisha Roz Notary Pub	BROMINE mine Jic, Eddy County, New N	Aexico

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# **Copy of Publication:**

LEGAL NOTICE Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, Cherokee Disposal (LLC, 301) Hinson Rd / Lovington, NM 88260, is filling a C-108 to convert an existing well to a Salt Water Disposal The well being applied for is the Laguna Grande #1, API 30-015-21636, lo cated in Unit 1 Section 28 Township 23 South, Range 29 East, Eddy Co. NM. The Injection formation is the Bell Canyon from 2950 to 3400 below surface. Expected maximum rate is 10,000 bpd, and the expected maximum injection pressure is 600 psi or what the OCD allows: Any questions about the applica- tion can be directed to Eddle, W. Seay, (575) 392-2236, or any objection or re- quest for hearing must be directed to the Oil Conservation Disatorum(505) or - 11, 14 476-3440, 1220 south Saint Francis Drive, Santa Fe, NM 87504, WRNP fifteen ee (15) days: Published in the Artesia Daily Press Artesia, NM, Nov 24 2015. Legal No. 23635											
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			~	<b>`</b>	-175810N	
Form 3160-5	Unit	ED STATES			COMMA APPROV	VED C
(June 1990)	DEPARTMENT	T OF THE INTERIOR				
	BUREAU OF L	AND MANAGEMENT	N	N OII C	LeavesDestimation and Se	rial No.
				NT 07 1	NM-67103	
	SUNDRY NOTICES A	AND REPORTS ON WELL	S	14VV7	If Indian, Allottee or Tril	ha Nama
Do not use this f		I or to deepen or reentry to		•	In the set of the	de manie
		PERMIT-" for such propos				
				┉┉┥	If Unit or CA, Agreemen	Declaration
	SUBMIT	IN TRIPLICATE			I One of CA, Agreener	a treathing
I. Type of Well				<del>/</del> {		
					Well Name and No.	
Qil Gus Well Well	Other		f-	a.	Laguna Grande	. #1
2. Nume of Operator Rettis Roy	le & Stovall		)/	-	API Well No.	
				· 9. /	30-015-21636	
<ol> <li>Address and Telephone</li> <li>D O Roy 1240</li> </ol>	∾₀. 0, Graham, TX 7645	50	•		=	<u></u>
				10.	Field and Pool, or Explor	
Location of Well (Foota	ge, Sec., T., R., M., or Survey Des	cription)			Wildcat-Bone	Springs
1380' FSL &	990' FEL, Sec 28,	T23S, R29E			County or Parish, State	
	,,	······································		l l	Eddy Co., NM	
CHECK	APPROPRIATE BOX(S)	TO INDICATE NATURE (	F NOTICE R	EPORT.	OR OTHER DAT	'A
						<u> </u>
TYPE OF	SUBMISSION		TYPE OF AC	TION		
X Nonce o		Abandonment	· · · · · · · · · · · · · · · · · · ·		Change of Plans	
LO NOLCE C				ř	New Construction	
				Ē		_
Let Suesequ	ent Report	Plugging Back		Ĭ	→ Non-Routine Fracturing → Water Shut-Off	•
		Casing Repair		ř		
L_1 Final At	bandonment Notice	Altering Casing		· L	Conversion to Injection	
		Uther			Dispose Water	
	]			<u>_</u>	ore Report results of multiples	completion on Well
				C	ace. Report results of multiple completion or Recompletion Rep	ort and Log form 1
Describe Proposed or Co	mpleted Operations (Clearly state all p	ertinent details, and give pertinent dates, in	luding estimated date of	C	ompletion or Recompletion Rep	ort and Log form )
give subsurface loca	itions and measured and true vertical	ertinent details, and give pertinent dates, in depths for all markers and zones pertinent	to this work.)*	C	ompletion or Recompletion Rep	ort and Log form 1
give subsurface loca Data: 13-3/8" (	ntions and measured and true versical 9 343', cement circulate	ertinent details, and give pertinent dates, in depths for all markers and zones pertinent ed (Wellbore Diagnam attact	to this work.)*	C	ompletion or Recompletion Rep	ort and Log form 1
give subsurface loca Data: 13-3/8" ( 10-3/4" (	ntions and measured and true vertical 343', cement circulate 32900', cement circulat	ertinent details, and give pertinent dates, in depths for all markers and zones pertinent ed (Wellbore Diagnam attack ted	to this work.)*	C	ompletion or Recompletion Rep	ort and Log form 1
give subsurface loca Data: 13-3/8" @ 10-3/4" @ 7-5/8" @	ntions and measured and true vertical 343', cement circulate 2900', cement circulat 10,848 with a DV tool 0	ertinent details, and give pertinent dates, in depths for all markers and zones perinent ed (Wellbore Diagram attack ted 9 6780, TOC=2500' calc.	to this work.)*	C	ompletion or Recompletion Rep	ort and Log form 1
give subsurface loca Data: 13-3/8" @ 10-3/4" @ 7-5/8" @ 5-1/2" li	ations and measured and true vertical 343', cement circulate 2900', cement circulate 10,848 with a DV tool ( iner from 10,343 - 13,69	ertinent details, and give pertinent dates. In depths for all markers and zones perinent ed (Wellbore Diagram attack ted 0 6780, TOC=2500' calc. 05'	to this work.)*	C	ompletion or Recompletion Rep	ort and Log form )
give subsurface loca Data: 13-3/8" @ 10-3/4" @ 7~5/8" @ 5-1/2" li Hole size	ations and measured and true vertical 9 343', cement circulate 9 2900', cement circulate 10,848 with a DV tool 0 iner from 10,343 - 13,69 2: 7-5/8" Open Perfs: 50	errinent details, and give pertinent dates, in depths for all markers and zones pertinent ed (Wellbore Diagram attack ted 9 6780, TDC=2500' calc. 95' 080~90'	to this work.)*	Cistanting any p	ompiktion er Arcompiction Rep roposed work. If well is dir	ort and Log form 1
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\*See Instruction on Reverse Side

Do not use this for	نی، ۲ED ST DEPARTMENT OF 1 BUREAU OF LAND I SUNDRY NOTICES AND F m for proposals to drill or to se "APPLICATION FOR PERM	THE INTERIOR MANAGEMENT REPORTS ON WELL decpen or reentry to	ON DIV FORM APPROVED 10-2834dget Bureau No. 1004-0135 Expires: March 31, 1993 3. Lease Designation and Serial No. NM-67103 6. If Indian, Allottee or Tribe Name				
				7. If Unit or CA. Agreement Designation			
I. Type of Well	SUBMIT IN TR	IPLICATE DE					
Oil Gas Well Well	Other		<del>n 1 1 1995</del>	8. Well Name and No. Laguna Grande #1			
Bettis, Boyle	& Stovall	J(		9. API Well No.			
3. Address and Telephone No P 0 Box 1240,		(817) 44-0	CON.DIV.	30-015-21636 10. Field and Pool, or Exploratory Area			
-	90' FEL of Sec. 28-T23	IS-R29E		LL County of Parish, State Eddy Co., NM			
D. CHECK A	PPROPRIATE BOX(s) TO I	NDICATE NATURE	OF NOTICE, REPOR	T, OR OTHER DATA			
	UBMISSION		TYPE OF ACTION	· · · · · · · · · · · · · · · · · · ·			
Notice of Subsequen		Abandonnient Recompletion Plugging Back Casing Repair Altering Casing Other	NGE OF OPER	Change of Plans  Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Conversion to Injection  Note: Report results of multiple completion an Well Completion and Log form.)			
Change of Open Effective Sept	ons and measured and the vertical deputs f rator Notification t. 1, 1995, Paloma Res all plugging responsi	ources, Inc. wi		ations of the above			
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Signed	rezolati is true and correct	Title_Regulatory	Analyst				
(This space for Federal or	State office use)						
Approved by Conditions of approval, if	any:	Title	······································	Date			
Title 15 U.S.C. Section 1001, or representations as to any ma		and willfully to make to any de	partment or agency of the United S	States any false, fictilious or fraudulent statements			

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Eddie Seay Consulting 601 W. Illinois	Project: CY Project Number: LA	YPRESS 33 #2 AGUNA GRANDE	Reported: 21-Jan-16 16:25
Hobbs NM, 88242	Project Manager: Ed	ldie Seay	
-	Fax To: (50	i05) 392-6949	

## Total Recoverable Metals by ICP (E200.7) - Quality Control

### **Green Analytical Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B601100 - EPA 200.2 Total Rec.										
Blank (B601100-BLK1)				Prepared &	Analyzed:	20-Jan-16		•		
Celcium	ND	0.020	mg/L							
Magnesium	ND	0.100	mg/L							
Potassium	ND	1.00	mg/L							
Sodium	ND	1.00	mg/L							
LCS (B601100-BS1)				Prepared &	t Analyzed:	20-Jan-16				
Potassium	8.09	1.00	mg/L	8.00		101	85-115			
Calcium	4,01	0.020	mg/L	4.00		100	85-115			
Sodium	7.05	1.00	mg/L	6.48		109	85-115			
Magnesium	19.5	0.100	mg/L	20.0		97.6	85-115			
LCS Dup (B601100-BSD1)				Prepared &	Analyzed:	20-Jan-16				
Potassium	8,09	1.00	mg/L	8.00		101	85-115	0 0419	20	
Sodium	6.93	1.00	mg/L	6.48		107	85-115	1.64	20	
Magnesium	19.4	0.100	mg/L	20.0		96.9	85-115	0.759	20	
Calcium	3.96	0.020	mg/L	4.00		99.1	85-115	1.25	20	

Cardinal Laboratories

#### \*=Accredited Analyte

3\_EASE NOTE: Jobstay and Demoges. Cardina's lobbity and chan's exclusive temploy for any date asting, whether based in contract or tort, shall be lambed to the amount beit by chart for analyses. All dates, including those for negligance or any other cause wholesower shall be deemed where meads in writing and received by cardinal within thirty (30) days after completion of the applicible service. In to event shall be lable for incidental or consequential damoge including, without limitation, business interruptions, base of use, or loops of the subsidiants, alliables or accessors areing out of or related to the particulations by Cardinal by date; is subsidiants, alliables or accessors areing out of or related to the particulations by Cardinal, togendees of whether au dates based upon and of the works alkadinessors or dimense. Reall, pathor only to the samples laminifications. This export what har the particulation exports that laborations.

Celez D. Kenna-

Celey D. Keene, Lab Director/Quality Manager

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#### **Notes and Definitions**

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500CI-B does not require samples be received at or below $6^{\rm o}\text{C}$
	Samples reported on an as received basis (wet) unless otherwise noted on report

**Cardinal Laboratories** 

### \*=Accredited Analyte

RESE NOTE: JobBy and Demogra. Cardina's lability and client's sockative remody for any date stating, whether based in contract or lort, shall be finited to the amount baid by client for analyses. All dottes, including those for negligurous ar any other cause whethouse shall be deemed wheth unlines made in writing and neceled by Cardinal writin thitly (30) days after completion of the applicible service. In no event shall be lability and client's sockative removed by Cardinal by fairs, first or analyses, all dottes, including those for negligurous ar including, without lemetation, basiness intermations, bas of use, or loss of use, and loss in the state of the services menuator by Cardinal, the substated sector is substated to the performance of the services menuator by Cardinal, regardless of whether su dates is based upon any of the above stated reasons or offerwise. Results relate the services is constructed except in full with writeen approved of Cardinal Laboratories.

Cellag D. Kenne

Celey D. Keene, Lab Director/Quality Manager

Page 8 of 9



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 9 of 9

	101 East Marland, Hobbs, N (575) 393-2326 FAX (575) 39																			
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 399-2326

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# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RCHARDSON Gwernor Joanna Prukop Cabint Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

## ADMINISTRATIVE ORDER SWD-1070

## APPLICATION OF DEVON ENERGY PRODUCTION COMPANY, LP FOR PRODUCED WATER DISPOSAL, EDDY COUNTY, NEW MEXICO

## ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Rule 701(B), DEVON ENERGY PRODUCTION COMPANY, LP made application to the New Mexico Oil Conservation Division for permission to utilize for produced water disposal its Spud 16 State Well No. 4 (API No. 30-015-33923) located 960 feet from the South line and 1800 feet from the East line of Section 16, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico.

## THE DIVISION DIRECTOR FINDS THAT:

(1) The application has been duly filed under the provisions of Rule 701(B) of the Division Rules and Regulations;

(2) Satisfactory information has been provided that all offset operators and surface owners have been duly notified;

(3) The applicant has presented satisfactory evidence that all requirements prescribed in Rule 701 will be met; and

(4) No objections have been received within the waiting period prescribed by said rule.

## IT IS THEREFORE ORDERED THAT:

The applicant is hereby authorized to utilize its Spud 16 State Well No. 4 (API No. 30-015-33923) located 960 feet from the South line and 1800 feet from the East line of Section 16, Township 23 South, Range 29 East, NMPM, Eddy County, New Mexico, in such manner as to permit the injection of produced water for disposal purposes into the Bell Canyon member of the Delaware Mountain Group through perforations from 3760 feet to 4890 feet and through plastic-lined tubing set with a packer located within 100 feet of the top of the injection interval.

## IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

# As preparation for injection, the operator shall plug back the well with cement and tast iron bridge plug to within 200 feet of the bottom permitted injection interval.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge or an approved leak detection device in order to determine leakage in the casing, tubing, or packer.

After installing injection tubing, the casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The wellhead injection pressure on the well shall be limited to no more than 752 psi. In addition, the injection well or system shall be equipped with a pressure limiting device in workable condition which shall, at all times, limit surface injection pressure to the maximum allowable pressure for this well.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator of said well that such higher pressure will not result in migration of the injected fluid from the injection formation. Such proper showing shall consist of a valid step-rate test run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of disposal equipment and of any mechanical integrity test so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing, or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

<u>PROVIDED FURTHER THAT</u>, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.

The operator shall provide written notice of the date of commencement of injection to the Artesia district office of the Division.

The operator shall submit monthly reports of the disposal operations on Division Form C-115, in accordance with Rule Nos. 706 and 1120 of the Division Rules and Regulations. The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator, may grant an extension thereof for good cause shown.

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Approved at Santa Fe, New Mexico, on February 6, 2007.

MARK E. FESMIRE, P.E. Director

MEF/wvjj

ce: Oil Conservation Division – Artesia State Land Office – Oil, Gas, and Minerals Division



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242		Project: CYPRESS 33 #2 Project Number: LAGUNA GRANDE Project Manager: Eddie Seay Fax To: (505) 392-6949						
Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received				
CYPRESS 33 #2	H600050-01	Wastewater	08-Jan-16 15:45	11-Jan-16 11:30				

**Cardinal Laboratories** 

\*=Accredited Analyte

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Celley D. Kuna

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 9



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242		Project: CYPRESS 33 #2 Project Number: LAGUNA GRANDE 2 Project Manager: Eddie Seay Fax To: (505) 392-6949										
				PRESS 33								
			H000050	0-01 (Waste	waterj							
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes		
			Cardin	ial Laborat	ories							
Inorganic Compounds				,								
Alkalinity, Bicarbonate	142		5.00	mg/L	1	5120206	AP	13-Jan-16	310.1	L		
Alkalinity, Carbonate	<0.00		0.00	mg/L	1	5120206	AP	13-Jan-16	310.1			
Chloride*	104000		4.00	mg/L	1	6010807	AP	12-Jan-16	4500-CI-B			
Conductivity*	301000		1.00	uS/cm	1	6011307	AP	14-Jan-16	120.1			
pH*	6.56		0.100	pH Units	1	6011306	AP	14-Jan-16	9045			
Sulfate*	576		83.3	mg/L	8.33	6011202	AP	12-Jan-16	375.4			
TDS•	168000		5.00	mg/L	1	6011104	AP	12-Jan-16	160.1			
Alkalinity, Total*	116		4.00	mg/L	1	5120206	AP	13-Jan-16	310.1			

#### **Green Analytical Laboratories**

Total Recoverable Metal	<u>s by ICP (E200.7)</u>								
Calcium*	8530	5.00	mg/L	250	B601100	JLM	21-Jan-16	EPA200.7	
Magnesium*	1230	25.0	mg/L	250	B601100	ЛМ	21-Jan-16	EPA200.7	
Potassium*	833	250	mg/L	250	B601100	JLM	21-Jan-16	EPA200.7	
Sodium*	50300	250	mg/L	250	B601100	ЛМ	21-Jan-16	EPA200.7	

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: CYPRESS 33 #2 Project Number: LAGUNA GRANDE Project Manager: Eddie Seay Fax To: (505) 392-6949	Reported: 21-Jan-16 16:25
---	--	------------------------------

#### **Inorganic Compounds - Quality Control**

#### **Cardinal Laboratories**

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5120206 - General Prep - Wet Chem										
Blank (5120206-BLK1)				Prepared &	Analyzed:	02-Dec-15				
Alkalinity, Carbonate	ND	0.00	mg/L		,					
Alkalinity, Bicarbonate	ND	5.00	mg/L							
Alkalinity, Total	ND	4.00	mg/L							
LCS (5120206-BS1)				Prepared &	Analyzed:	02-Dec-15				
Alkalinity, Carbonate	ND	0.00	mg/L				80-120			
Alkalinity, Bicarbonate	126	5.00	mg/L				80-120			
Alkalinity, Total	104	4.00	mg/L	100		104	80-120			
LCS Dup (5120206-BSD1)				Prepared &	: Analyzed:	02-Dec-15				
Alkalinity, Carbonate	ND	0.00	mg/L				80-120		20	
Alkalinity, Bicarbonate	126	5.00	mg/L				80-120	0.00	20	
Alkalinity, Total	104	4.00	mg/L	100		104	80-120	0.00	20	
Batch 6010807 - General Prep - Wet Chem										
Blank (6010807-BLK1)				Prepared &	Analyzed:	0 <b>8-Jan-1</b> 6				
Chloride	ND	4.00	mg/L							
LCS (6010807-BS1)				Prepared &	Analyzed:	08-Jan-16				
Chloride	104	4.00	mg/L	100		104	80-120			
LCS Dup (6010807-BSD1)				Prepared &	Analyzed:	08-Jan-16				
Chloride	96.0	4.00	mg/L	100		96.0	80-120	8.00	20	
Batch 6011104 - Filtration					<b>.</b>					
Blank (6011104-BLK1)				Prepared: 1	1-Jan-16 A	nalyzed: 12	-Jan-16			
TDS	ND	5.00	mg/L					·		

#### Cardinal Laboratories

#### \*=Accredited Analyte

REF. NOTE: Jobbity and Demogras. Candhar's labelity and chen's exclusive remedy for any dama orbital, whether based in contract or tort, shall be limited to the amount part by client for analyses. All claims, including those for negligance or any other cause whatspower shall be deemed where made unless made in writing and received by Cardhari within thirty (30) days after completion of the applicible service. In to event shall Cardhari be lable for incidental or consequential distance including, without limitation, basis of use, or loss of profile incorrect by client, is substituting and clients and of or existence or incidence of whether su dama based upper stated reasons or otherwise. Result relates the to the samples limitation of the incidence of client lubratories.

Celey Ditterne

Celey D. Keene, Lab Director/Quality Manager

Page 4 of 9



Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242	Project: CYPRESS 33 #2 Project Number: LAGUNA GRANDE Project Manager: Eddie Seay Fax To: (505) 392-6949						Reported: 21-Jan-16 16:25			
	Ino	rganic Comp			Control					
Cardinal Laboratories										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6011104 - Filtration										
LCS (6011104-BS1)				Prepared: 1	11-Jan-16 A	nalyzed: 12	2-Jan-16			
rds	578	5.00	mg/L	527		110	80-120			
Duplicate (6011104-DUP1)	Sou	rce: H600037-0	01	Prepared: 11-Jan-16 Analyzed: 12-Jan-16						
TDS	616	5.00	mg/L		588			4.65	20	
Batch 6011202 - General Prep - Wet Chem		· · · · · · · · · · · · · · · · · · ·								
Blank (6011202-BLK1)				Prepared &	Analyzed:					
Sulfate	ND	10.0	mg/L							
LCS (6011202-BS1)				Prepared &	Analyzed:	12-Jan-16				
Sulfate	16.9	10.0	mg/L	20.0		84.5	80-120			
LCS Dup (6011202-BSD1)				Prepared &	Analyzed:	12-Jan-16				
Sulfate	17.7	10.0	mg/L	20.0		88.7	80-120	4.85	20	
Batch 6011306 - General Prep - Wet Chem										
LCS (6011306-BS1)	-			Prepared: 1	3-Jan-16 A					
5H	7.05		pH Units	7.00		101	90-110			
Duplicate (6011306-DUP1)	Sou	rce: H600032-0	)1	Prepared: 13-Jan-16 Analyzed: 14-Jan						
DH	8.25		pH Units	8.18			0.852	20		
Batch 6011307 - NO PREP										
LCS (6011307-BS1)				Prepared: 1	13-Jan-16 A					
Conductivity	490		uS/cm	500		98.0	80-120			

#### Cardinal Laboratories

#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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Eddie Seay Consulting 601 W. Illinois Hobbs NM, 88242		Project Ni Project Ma	umber: inager:	CYPRESS 33 LAGUNA GR Eddie Seay (505) 392-6	ANDE				Reported: Jan-16 16	25
	Inor	ganic Com Cardir	•	- Quality ( poratories	Control					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 6011307 - NO PREP	······································									<u>.</u>
Duplicate (6011307-DUP1)	Sou	rce: H600032-	-01	Prepared: I	3-Jan-16 A	nalyzed: 14	-Jan-16		_	
Conductivity	1010	1.00	uS/cm		1020			1.18	20	

Cardinal Laboratories

#### \*=Accredited Analyte

Celley B.Kunn

Celey D. Keene, Lab Director/Quality Manager

Page 6 of 9



January 21, 2016

Eddie Seay Eddie Seay Consulting 601 W. Illinois Hobbs, NM 88242

RE: CYPRESS 33 #2

Enclosed are the results of analyses for samples received by the laboratory on 01/11/16 11:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <u>www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</u>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Total Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Tribalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B	Total Coliform and E. coll (Colilert MMO-MUG)
Method EPA 524.2	Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2	Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

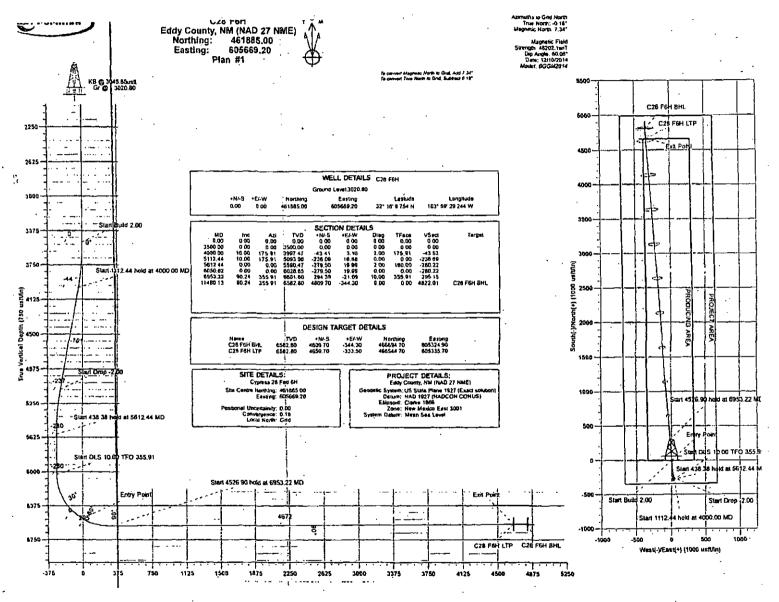
Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager

Page 1 of 9

OXY HOFFIN 30-015-41138



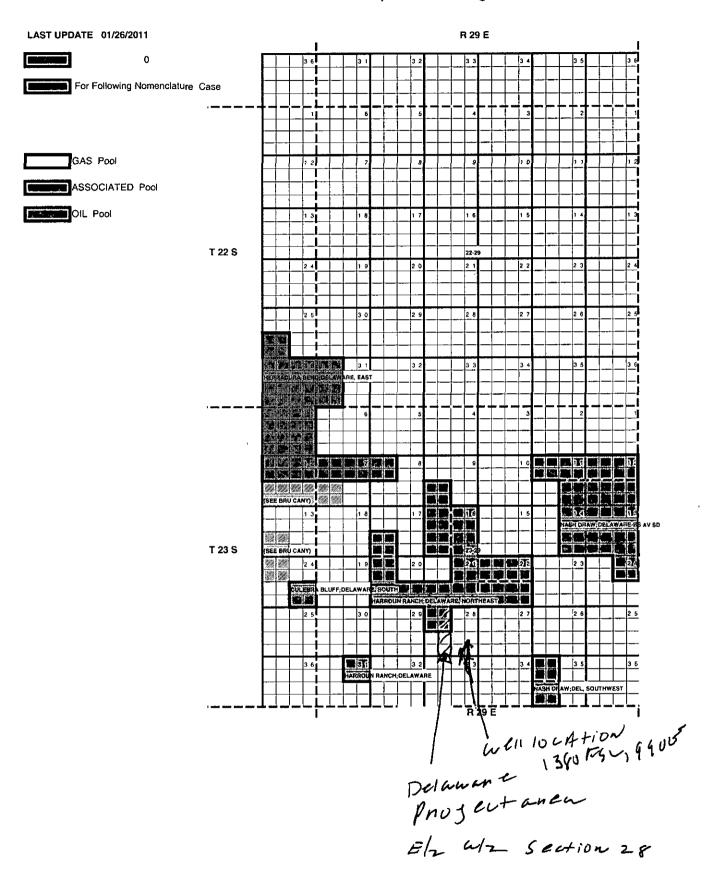
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District 1 1625 N. French D	) Jr., Hobbs	. NM 8	8240		-	State of Nev							Form C-104 Revised August 1, 2011
District II	-			1	energy,	Minerals &	Natural Reso	ource	S				Kevised August 1, 2011
811 S. First St., A District III	Artesia, NM	4 8821	0		0	il Conservati	on Division			Submi	it one c	opy to app	propriate District Office
1000 Rio Brazos	Rd., Aziec, NM 87410 1220 South 5											<b>-</b> 1	AMENDED REPORT
District IV 1220 S. St. Franci	is Dr., Sar	ita Fe.	NM 875	05		Santa Fe, N	M 87505						AMENDED REPORT
		I.			T FOR	ALLOWAE	<b>BLE AND A</b>	UTH	ORIZ	ATIO	OT V	TRANSI	PORT
Operator ha	ame and	Addr	ess						<sup>2</sup> OGF	RID Nur	nber		
OXY USA IN P.O. BOX 50			עד ח	70710					3 Dear	-	Ciling (	16696	ctive Date NW
<sup>4</sup> API Numbe				Name		<b></b>			<u>  Reas</u>			ool Code	Live Date 144
30-015-41	-				NCH DE	LAWARE, NE					968		
<sup>7</sup> Property Co	ode: 3780	)3	<sup>8</sup> Prop	erty Nan	ie: CYPR	ESS 28 FEDE	RAL		-		° W	/ell Numb	er: 6H
IL <sup>10</sup> Surf	face Loc	ation				- <u></u>			<u></u>	·	I	<del></del>	
Ul or lot no.				Range	Lot Idn	Feet from the	North/South	Line	Feet fr	om the	East/	West line	County
N	28	2	3S	29Ē		330	SOUTH			00		VEST	EDDY
	tom Hol					727' FSL 1					143' 1		93' FWL
UL or lot no, C	Section 28		nship 23S	Range 29E	Lot Idn	Feet from the	North/South		3	om the		West line /EST	County EDDY
<sup>12</sup> Lse Code	<sup>13</sup> Produ			<sup>14</sup> Gas Co	mnection		mit Number		C-129 E				29 Expiration Date
F	Ce	ode : P		Da 5/1	te: /15								
III. Oil an	d Cas T	rans	norter		1.5	L						·	
<sup>18</sup> Transport		1 4113	porter	<u> </u>		<sup>19</sup> Transpo	rter Name						<sup>20</sup> O/G/W
OGRID						•	ddress						
239284			C	OCCIDEN	ITAL EN	ERGY TRAN	SPORTATIO	N (BR	IDGER	LLC)			0
36785						DCP MIDS	FREAM. LP			G			
	835-51						STREAM, LP G NM OIL CONSERVATION						
1016-34 ASAD 9740-915	<u>245231</u>				# 18			ART	SIA DIS	TRICT		Rutter Kutter	APPEN AND DESCRIPTION
THE REAL PROPERTY AND A							MAY 1 1 2015						
<u>e s u n selencer</u> ,	<u></u>												
			<u> </u>					RE	CEIV	<u>ED</u>			
IV. Well C					· · · · · · · · · · · · · · · · · · ·		71		7 75.				26
<sup>21</sup> Spud Dat 1/9/15	te	**	Ready   4/8/15	Date		<sup>23</sup> TD 5'M 6574'V	<sup>24</sup> PBTE 11235'M 65			Perfora 998-111			<sup>26</sup> DHC, MC
27 Ho	le Size		4/0/13	28 Casing	3 & Tubi	ng Size		pth S		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	<u>41</u>	<sup>30</sup> Sac	ks Cement
	3/4"				i1-3/4"			68'					630
										$\rightarrow$			······································
	.5/8"				8-5/8"			008' 	· .			. <u> </u>	1380
7-1	7/8" 				5-1/2"			425'		<u> </u>			1820
			1		2-7/8"		5	884'					0
V. Well T													
<sup>31</sup> Date New 5/1/15	Oil	<sup>22</sup> Gas		ry Date		Test Date		Leng	h	35 TI	bg. Pres	ssure	<sup>36</sup> Csg. Pressure 45
<sup>37</sup> Choke Siz	ze		<u>5/1/15</u> <sup>38</sup> Oil		3	<u>5/6/15</u> <sup>9</sup> Water	<sup>40</sup> (	IRS. Gasj		+	5		45 <sup>41</sup> Test Method
			138			2421		46					<u> </u>
<sup>42</sup> I hereby certi							<b></b>		OIL C	ONSER	VATIO	N DIVISIC	N
been complied complete to the	with and	that t	he info	mation gi	ven abov	e is true and				2	$\langle \rangle$	1	
Signature:	c dest of t		owiedg	e and ben	ei.		Approved by:		A	[]]	$\sim$	$\mathcal{M}$	1
	-d		Ų,			<u>.</u>	······································	1	$\langle /  $	$\mathcal{L}$	$\mathcal{L}$	<u>k</u>	
Printed name:	T	1-4					Title:	$\overline{\Box}$	KT?	H.	$\mathcal{A}$	2. 101	$\cap$ $\neg$
JANA MENDI Title:	IOLA						Approval Date	$\underline{\checkmark}$		11	<u>ц</u> к	4 Jan	
REGULATOR	Y COOR	DIN4	ATOR				Approval Date		5-1	8-76	15		ſ
E-mail Address				•		·		•				<del></del>	
janalyn_mendi	ola@oxy	.com	<del></del>					Pend	ding BL	М арр	rovals	will	
Date:	16/15			one:	6				equen				
<u> </u>	/6/15		[432	2-685-593	0		<u> </u>		scanne	-			
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Pool diagram



				10/10/	2016
C-108 Review C	hecklist: Red	ceived 100 Add. Reque	st:7	Repiy Date: 1/2-	Suspended:
ORDER TYPE: WFX /	$\sim$			•	i
Well No. / Well Name(s):_	Lines	10 Gura			
		_			······································
API: 30-0 15 - 21636 1380F56	Spud Date	11-13-1975	New or Old:	(UIC Class II .	Primacy 03/07/1982)
Footages 7902	Lot	_ or Unit _ 🔀 Sec _ 2.8	<b>Z</b> Tsp <b>2</b>	35_Rge 29-	-County Eddy
General Location: 7miles	East/Lou	יאר Pool: <b>ב</b>	an!	Delaure	Pool, Na: 5610
General Location: 7 miles /	Chi	chokee		3-586	Eddy Seass
BLM 100K Map:O					
COMPLIANCE RULE 5.9: Total Wells:		$\Psi$ Fincl Assur:	Compl.	Order? MA IS 5	.9 OK? Y Date: /-26->
WELL FILE REVIEWED () Current Sta	itus: <u> </u>	-		· ·	
				# <b>(D</b>	Logs in Jundsing
WELL DIAGRAMS: NEW: Proposed 🔿	or RE-ENTER: I	Betore Conv. 🧭 After Co	onv. 🎸 L	ogs in Imaging:	MAXHUT Per
Planned Rehab Work to Well:					
	Sizes (in)	Setting		Cement	Cement Top and Determination
	Borehole / Pipe	Depths (ft)		(Sx or Cf	Method A
4	2/1378	343	Stage Tool	325	Surface / Cinc
Planned_or Existing _ Interm/Prod	(5/-00			1400	SuptenalVisaal Sufferal Visaal
Planned_or ExistingInterm/Prod	9 2/7 3/9			700	341 PELO UISGA
Planned_or Existing Prod/Liner					
Planned_or Existing _ Liner			Inj Length		
Planned_or Existing _ OH / PERF 2		Pent	<b>9</b> 99	D <u>Completic</u>	n/Operation Details:
Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops	Drilled TD 13.7	DO PBTD 3435
Adjacent Unit: Litho. Struc. Por.	CHARLEY'S	Bellan	3000		_ NEW PBTD /
Confining Unit: Litho. Struc. Por.		Charrycow	38 13	NEW Open Hole	or NEW Perfs
Proposed Inj Interval TOP:		<i></i>			in. Inter Coated?
Proposed Inj Interval BOTTOM:	<u> </u>				epth 250 ft
Confining Unit: Litho. Struc. Por.					2450 (100-jt.jimit)
					ace Presspsi^
AOR: Hydrologic and					<b>33060</b> 20.2 psi per ft)
POTASH: R-111-P_NANoticed?					
FRESH WATER: Aquifer					
NMOSE Basin: CANLS GAL	APITAN REEF: t	hru adj 📢 I	No. Wells w	vithin 1-Mile Radius?	FW Analysis
Disposal Fluid: Formation Source(s) _		Analysis'		-	or Only () or Commercial ()
Disposal Int: Inject Rate (Avg/Max BW	PD): 10K	Protectable Water	s? n/fs	ource: S	System Closed Or Open
HC Potential: Producing Interval?	Formerly Pro	ducing?Method: {	_ogs/DST/P	&A/Other	2-Mile Radius Pool Map 🔿
AOR Wells: 1/2-M Radius Map?	Well List?_	Total No. Wells Pe	enetrating Ir	nterval: <u>B</u> 2_ H	Horizontals? 8
Penetrating Wells: No. Active Wells	'. <b>.</b>	/			Diagrams?_
Penetrating Wells: No. P&A Wells	-		·		Diagrams?
NOTICE: Newspaper Date // -2-4		<u></u>			
RULE 26.7(A): Identified Tracts?					
Order Conditions: Issues:	hare	P . 4- 0 .		V-C01-	tions NUFauts/sig
	,, <u> </u>	1 3 12 V 3 4	mpia	$\gamma \wedge 3 = 2 \gamma$	/2
Add Order Cond:					/