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	NEW MEXICO OIL CONSERVATION DIVISION USE ONLY - Engineering Bureau - 1220 South St. Francis Drive, Santa Fe, NM 87505
	ADMINISTRATIVE APPLICATION CHECKLIST 30-035-26491
	THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE ication Acronyms: [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] 70 7944
[1]	TYPE OF APPLICATION - Check Those Which Apply for [A] [A] Location - Spacing Unit - Simultaneous Dedication [] NSL [] NSL [] NSL
	Check One Only for [B] or [C] [B] Commingling - Storage - Measurement DHC CTB PLC PC OLS OLM
	[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery WFX PMX SWD IPI EOR PPR
	[D] Other: Specify
[2]	NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply [A] Working, Royalty or Overriding Royalty Interest Owners
	[B] Offset Operators, Leaseholders or Surface Owner
	[C] Application is One Which Requires Published Legal Notice
	[D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
	[E] Sor all of the above, Proof of Notification or Publication is Attached, and/or,
	[F] Waivers are Attached
[3]	SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.
[4] appro applic	CERTIFICATION: I hereby certify that the information submitted with this application for administrative oval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this cation 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.

Note		indindual with managerial and/or supervis	ory capacity.
Bruce Sharp	NILL	Partner	
Print or Type Name	Signature	Title	Date
		b.sharp@leaco.net	
		e-mail Address	

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

APPLICATION FOR AUTHORIZATION TO INJECT

I.	PURPOSE: Secondary Recovery Pressure Maintenance SWD X_Disposal Storage Application qualifies for administrative approval? Yes No
II.	OPERATOR:Piper Energy LLC
	ADDRESS:1102 Jicarilla
	CONTACT PARTY:Bruce SharpPHONE: _(575) 390-2843
111.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes XNo 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:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME:
	SIGNATURE:DATE:11/1/2010
	E-MAIL ADDRESS:b.sharp@leaco.net

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

'√III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
 - (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
 - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
 - (3) A description of the tubing to be used including its size, lining material, and setting depth.

(4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

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

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
 - (1) The name of the injection formation and, if applicable, the field or pool name.
 - (2) The injection interval and whether it is perforated or open-hole.
 - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
 - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
 - (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.
- XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,

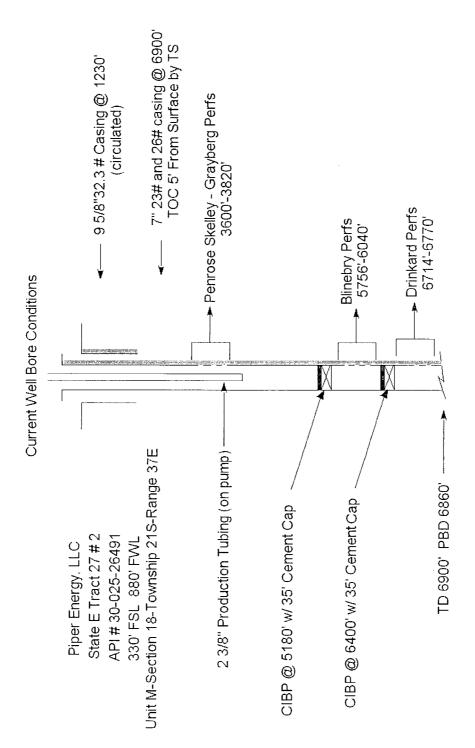
(4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

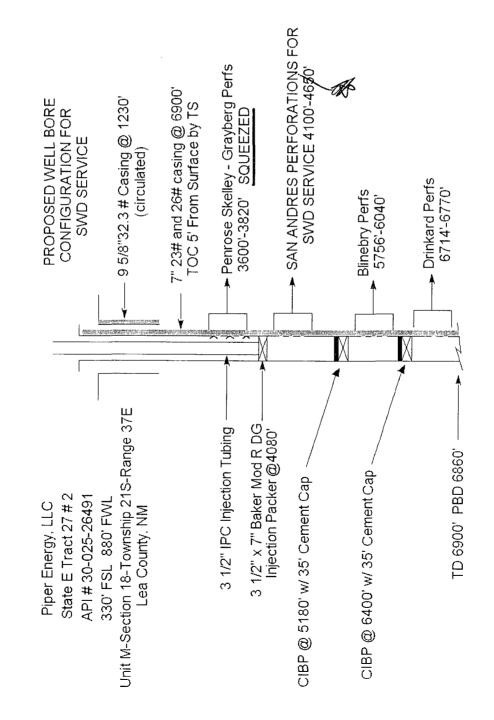
NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

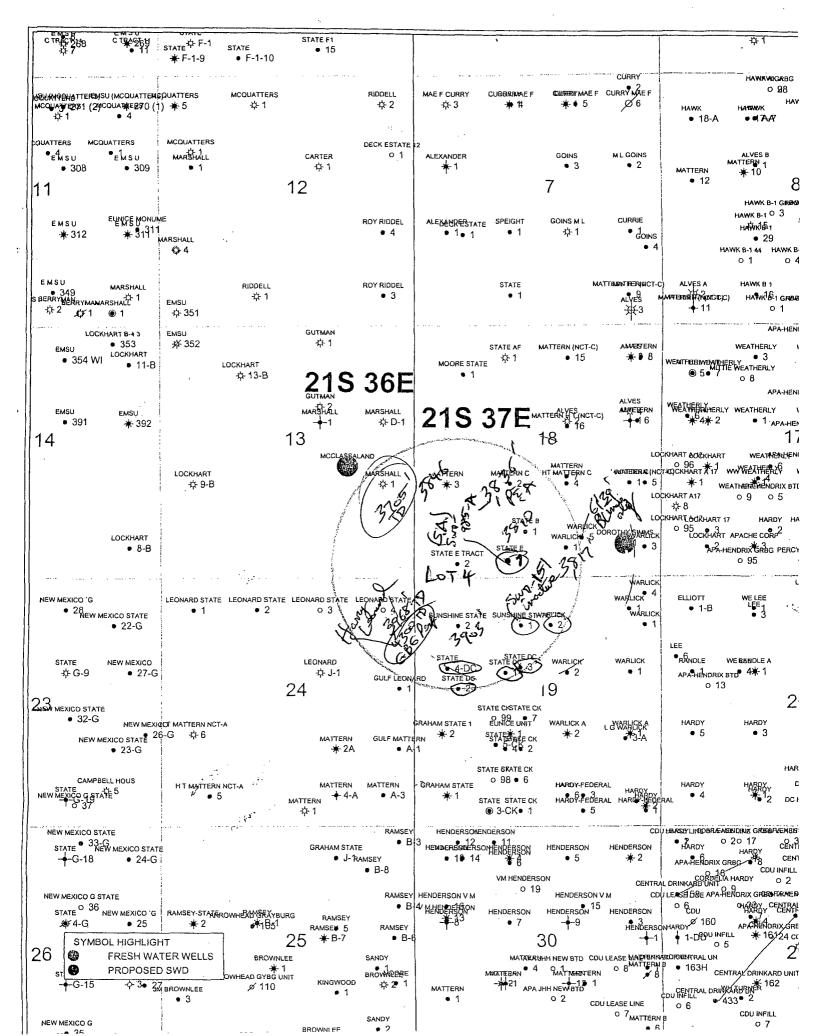
NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

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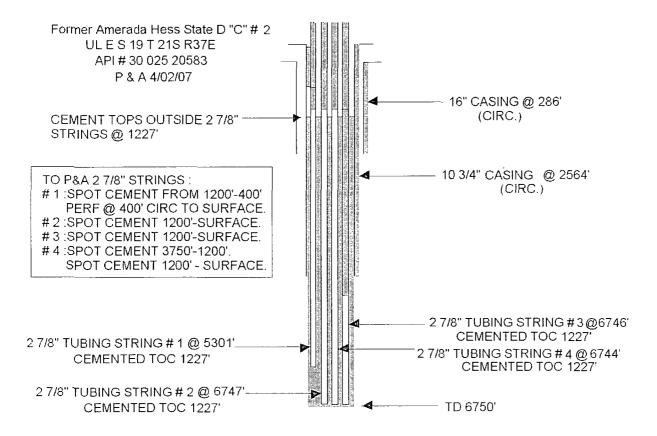




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VI. AREA OF REVIEW/WELL DATA

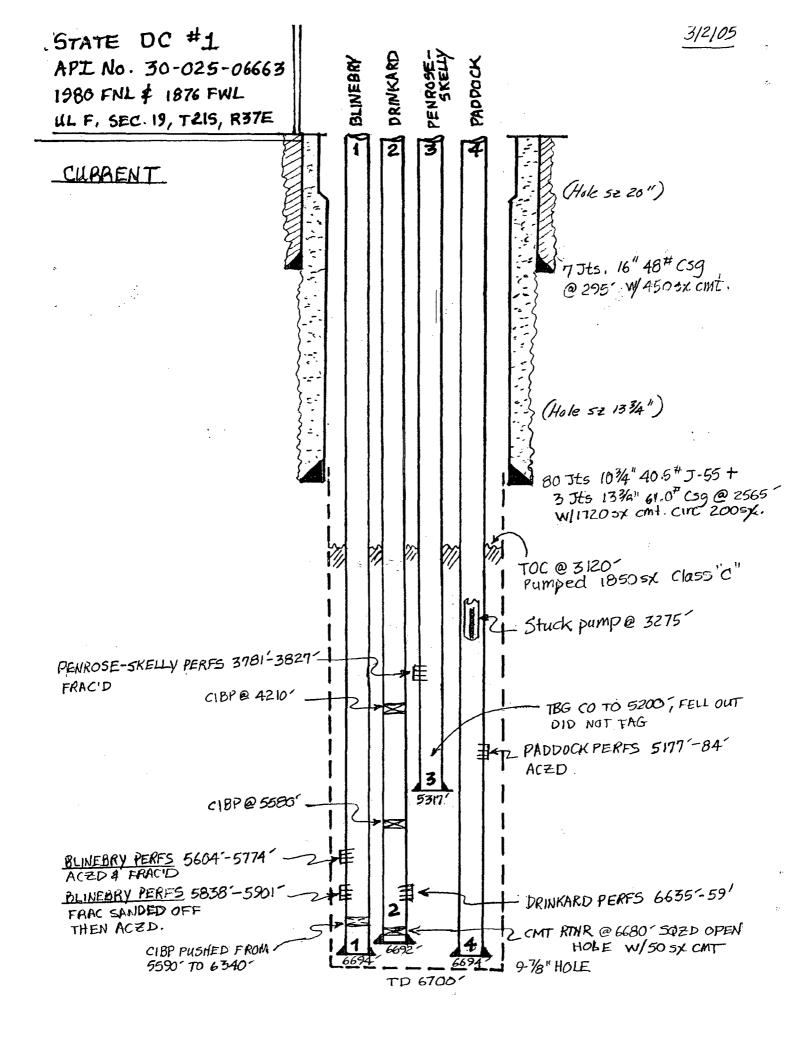
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ubmit 3 Copies To Appropriate District	State of New M				m C-103
District I 625 N. French Dr., Hobbs, NM 88240	Energy, Minerals and Nat	ural Kesources	WELL API NO.		arch 4, 2004
<u>District II</u> 301 W. Grand Ave., Artesia, NM 88210 <u>District III</u>	OIL CONSERVATION 1220 South St. Fra		5. Indicate Type STATE		—
000 Rio Brazos Rd., Aztec, NM 87410 <u>District IV</u> 220 S. St. Francis Dr., Santa Fe, NM	Santa Fe, NM 8		6. State Oil & G		
7505 SUNDRY NOTI	CES AND REPORTS ON WELL		7. Lease Name of	or Unit Agreeme	nt Name
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Chevron Mic Address of Operator	Icontinent L.P.		10. Pool name o	r Wildcat	
P.O. Box 713	9, Midland, Tx 79708			neberry/Drinka	rd/Paddocł
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Submit 3 Copies To Appropriate District	State of N	Mavico	Form C-103
Office	Guie of the	ew Mexico Id Natural Resources	March 4, 2004
District I 1625 N. French Dr., Hobbs, NM 88240	Energy, Minerals an	iu Matural Resources	WELL API NO.
District II	OIL CONSERVA	TION DIVISION	30-025-20583
1301 W. Grand Ave., Artesia, NM 8821 District III)	St. Francis Dr.	5. Indicate Type of Lease STATE Z FEE
1000 Rio Brazos Rd., Aztec, NM 87410 District IV		NM 87505	6. State Oil & Gas Lease No.
1220 S. St. Francis Dr., Santa Fe, NM			o. State on a Sus Lease He.
87505 SUNDRY NO	TICES AND REPORTS ON	WELLS	7. Lease Name or Unit Agreement Name
(DO NOT USE THIS FORM FOR PRO	POSALS TO DRILL OR TO DEEPEI	N OR PLUG BACK TO A	
DIFFERENT RESERVOIR. USE "APP PROPOSALS.)	'LICATION FOR PERMIT" (FORM (C-101) FOR SUCH	State D.C
I. Type of Well:			8. Well Number
Oil Well 🗹 Gas Well	Other		#2
2. Name of Operator	Midcontinent L.P.		9. OGRID Number
3. Address of Operator			10. Pool name or Wildcat
•	7139, Midland, Tx 79708		Penrose/Blineberry/Drinkard/Paddock
4. Well Location			
Unit Letter E	: 2310 feet from the N	orth line and 8	86 feet from the West line
	ieet from the	ine and -	
Section 19	Township 21-S	S Range 37-E	NMPM Lea County
	11. Elevation (Show when	ther DR, RKB, RT, GR, et	c.)
Pit or Below-grade Tank Application	For nit or below-grade tank closure	es, a form C-144 must be attac	hed)
			148 Distance from nearest fresh water well
	Below-grade Tank Locat		wo Rne :
Distance from nearest surface water 2310 feet from the <u>North</u> line an 12. Chec	d 886 feet from the West is Appropriate Box to Indi	ion ULSectTu line (Steel Tank) icate Nature of Notice	e, Report or Other Data
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FORM C-108 MISCELLANEOUS DATA

STATE 'E' TRACT 27 #2

VII. PROPOSED OPERATION:

- 1. AVERAGE INJECTION RATE 10,000 BWPD
- 2. MAXIMUM INJECTION RATE 20,000 BWPD
- 3. CLOSED SYSTEM
- 4. AVERAGE INJECTION PRESSURE VACUUM
- 5. MAXIMUM INJECTION PRESSURE 800 PSI
- 6. SOURCE WATER GRAYBURG ANALYSIS ATTACHED SAN ANDRES ANALYSIS ATTACHED

VIII. PLEASE SEE ATTACHED

IX. STIMULATION PROGRAM

ACIDIZE INJECTION INTERVAL WITH +/- 15,000 GALS OF 15% HCL

X. LOGS AND TESTS TO BE SUBMITTED UPON COMPLETION OF WELL.

XI. FRESH WATER CHEMICAL ANALYSIS

CARDINAL LAB REPORTS FOR THE McCASLAND AND SIMS FW WELLS ATTACHED

VIII. GEOLOGICAL DATA

The San Andres formation has been chosen for water disposal.

The intervals chosen within the San Andres are as follows:

Proposed injection Formation San Andres Top 4040' Base 5205'. Proposed injection interval: 4100'-4650'

The San Andres formation is overall a thick, porous dolomite exhibiting excellent porosity. In the State E Tract 27 No.2 logs, porosities are typically in the 10-20% range. These porosity zones are more than adequate to allow for the disposal of produced water. Sufficient barriers exist in the upper and lower portions of the San Andres formations to prevent vertical migration either upwards or downwards into over/underlying productive formations.

Nearest overlying productive formation: Grayburg, Top- 3600' Base-3973'

Next lowest productive zone: Blinebry, Top-5732' Base-6267'

The deepest known fresh water in the immediate area is the Ogallala formation at a depth of 50'-300' approximately 4000' above the proposed disposal zone. This should present no hazard to the fresh water Aquifers in the area.

The above information is accurate to the best of my knowledge. I have worked in the Permian Basin for the last 20 years.

Bruce Sharp Piper Energy LLC.

South Permian Basin Region 10520 West I-20 Easl Odessa, TX 79765 (915) 498-9191 Lab Team Leader --Sheila Hernandez (915) 495-7240

Water Analysis Report by Baker Petrolite

Company:	APACHE CORPORATION	Sales RDT:	33102
Region:	PERMIAN BASIN	Account Manager:	MIKE EDWARDS (505) 910-9517
Area:	EUNICE, NM	ID #:	22538
Lease/Platform:	GRIZZELL UNIT	Analysis Cost:	\$40.00
Entity (or well #):	10		
Formation:	San Andres		
Sample Point:	WELLHEAD		

Summary	Analysis of Sample 209885 @ 75 °F					
Sampling Date: .11/15/01	Anions	mg/l	meq/l	Cations	mg/l	meq/l
Analysis Date: 11/20/01	Chloride	4111.0	115.96	Sodium	2877.7	125.17
Analyst: JAMES AHRLETT	Blcarbonate					9.38
TDS (mg/l or g/m3): 9891.7 Density (g/cm3, tonne/m3): 1.007 Anion/Cation Ratio: 1.0000000	Carbonate; Sulfate; Phosphate: Borate:		0.42		281-0 -9.0 -8.0 	,14.02 0.21 - 0.12 - 0.14
	Silicate:			Potassium: Aluminum:	185.0	4.73
Carbon Dioxide:	Hydrogen Sulfide:		•	Chromium:		
Oxygen:	pH at time of sampling;		·	Copper:		
Comments:	pH at time of analysis:		7.44	Lead: Manganese:		
	pH used in Calculatio	n:	7.44	Nickel:		

Condi	tions	Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl										
Temp	Gauge Press.		alcite aCO3	21	sum 4*2H20		ydrite 1SO4		estite SO4		rite SO4	CO2 Press
٩F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	1.30	177.00	-2.39	0.00	-2.46	0.00	-2.11	0.00	0.94	4.16	0.95
100	0	1.39	188.80	-2.41	0.00	-2.41	0.00	-2.10	0.00	0.79	3.82	1.3
120	0	1.49	199.91	-2.42	0.00	-2.34	0.00	-2.07	0.00	0.67	3.47	1.71
140	0	1.59	209.97	-2.43	0.00	-2.26	0.00	-2.04	0.00	0.57	3.12	2.2

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered. Note 2: Precipitation of nuch scale is considered separately. Total scale will be less than the sum of the amounts of the five scales. Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.

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South Permian Basin Region 10520 West I-20 Easl Odessa, TX 79765 (915) 498-9191 Lab Team Leader - Shella Hemandez (915) 495-7240

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Water Analysis Report by Baker Petrolite

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Company:	APACHE CORPORATION	Sales RDT:	33102
Region:	PERMIAN BASIN	Account Manager:	MIKE EDWARDS (505) 910-9517
Area:	EUNICE, NM	ID #:	22639
Lease/Platform:	GRIZZELL UNIT	Analysis Cost:	\$40.00
Entity (or well #):	12		
Formation:	Grayburg		
Sample Point:	WELLHEAD		

Summary	Analysis of Sample 209886 @ 75 °F							
Sampling Date: 11/15/01	Anions	mg/l	meq/l	Cations	mg/l	meq/l		
	Chloride	4050.0	114,24	Sodium:	- 2894.3	125.9		
Analyst: JAMES AHRLETT	Bicarbonate:					9.21		
TDS (mg/l or g/m3): 9975.3	Carbonate					13.07		
Density (g/cm3, tonne/m3): 1.008	Sulfate: Phosphate:	÷			6.0	0.21		
Anion/Cation Ratio: 1.0000001	Borate:		."	iron		0.14		
	Silicate:			Potassium:	213.0	5.45		
				Aluminum:				
Carbon Dioxide:	Hydragen Sulfide:			Chromium:				
Oxygen:	pH at time of sampl	ing:		. Copper:				
Comments:	pH at time of analy	sis:	7.47	Lead: Manganese:				
	pH used in Calcu	lation:	7.47	-		•		
				l				

Condi	tions		Values Calculated at the Given Conditions - Amounts of Scale in Ib/1000 bbl									
Temp	Gauge Press.		Calcite Gypsum Anhydrite Celestite CaCO3 CaSO4*2H20 CaSO4 SrSO4						Ba Ba	CO2 Press		
۴F	psi	Index	Amount	Index	Amount	Index	Amount	Index	Amount	Index	Amount	psi
80	0	1.32	171.78	-2.42	0.00	-2.49	0.00	-2.11	0.00	0.82	2:78	0.94
100	0.	1.41	181.85	-2,44	0.00	-2.44	0.00	-2.09	0.00	0.67	2.78	1.28
120	0	1.51	191.57	-2.45	0.00	-2.37	0.00	-2.07	0.00	0.55	2.43	1.7
140	0	1.60	199.89	-2.46	0.00	-2.29	0.00	-2.04	0.00	0.45	2.08	2.2

Note 1: When assessing the severity of the scale problem, both the saturation index (SI) and amount of scale must be considered. Note 2: Precipitation of each scale is considered separately. Total scale will be lass than the sum of the amounts of the five scales.

Note 3: The reported CO2 pressure is actually the calculated CO2 fugacity. It is usually nearly the same as the CO2 partial pressure.



PHONE (325) 673-7001 - 2111 BEECHWOOD . ABILENE, TX 79603

PHONE (505) 393-2326 - 101 E. MARLAND - HOBBS, NM 88240

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ANALYTICAL RESULTS FOR APACHE CORP. P.O. BOX 1849 EUNICE, NN 88231 FAX TO: (505) 394-2425

Receiving Date: 05/13/05 Reporting Date: 05/17/05 Project Number: NOT GIVEN Project Name: McCASLAND Project Location: NOT GIVEN Sampling Date: 05/13/05 Sample Type: WATER Sample Condition: COOL & INTACT Sample Received By: NF Analyzed By: AH

	Na	Ca	Mg	κ	Conductivity	T-Alkalinity
LAB NUMBER SAMPLE ID	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(<i>u</i> S/cm)	(mgCaCO ₃ /L)

ANALYSIS	DATE:		05/16/05	05/16/05	05/18/05	05/16/05	05/18/05	05/16/05
H9798-1	#1	MECASMAND	120	61	20	6.18	541	204
H9796-2	#2	SIMS	81	32	25	4,10	533	192
Quality Con	brol	·	NR	48	47	5.69	1322	NR
True Value (20		NR	50	50	5.00	1413	NR
% Recovery			NR	96.0	94.0	112	93.8	NR
Relative Per	cent Diff	erence	NR	1.8	2.0	9.0	0,7	NR
METHODS:			SM3	500-Ca-D	1500-Mg E	8049	120.1	310.1

୍ରୁ	SO4	CO3	HCO3	pН	TDS
(mg/L)	(mgAL)	(mg/L)	(mg/L)	(.u.a)	(mg/L)

ANALYSIS DATE:	05/16/05	05/16/05	05/16/05	05/16/05	05/18/05	05/17/05
H9796-1 #1	160	72	0	249	6.81	680
H9786-2 #2	72	68	0	234	6.66	594
Quality Control	960	57.00	NR	927	8.88	NR
True Value QC	1000	50.00	NR	1000	7.00	NR
% Recovery	96.0	114	NR	82.7	98.3	NR
Relative Percent Difference	1.0	12.7	NR	3.4	0.7	1.1
MATHODS;	SM4500-CI-B	375.4	310,1	310.1	150,1	160.1

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PLEASE NOTE: Lability and Daniagee. Cardinal's liability and clean's sectuate entered for any chin existing, where to based in contract or text, shall be limited to the amount paid by clean for analyson.² All cleans, including stores for negligence and any other cause wheteowar shall be desped betweed initials made in writing and received by Cardinal Within thing (SO) days after comparison of the applicable service. In 1997 and Cardinal be lable for incidental or consequential damages, including, where we for services instructions, loss of profile incurred by clean, is an applicable affaites or successory analysis of of Maxed to the performances of services hereander by Cardinal, regardless of where auch could upon sity of the above-stand massive or otherwise,

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XII. AFFIRMATIVE STATE

As an applicant for a permit for disposal I 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.

Due sharp

APPLICATION FOR SALT WATER DISPOSAL WELL STATE E TRACT 27 # 2 OFFSET OPERATORS

Chevron Usa Inc. P O Box 1150 Midland Tx 79792 Cert. No. 7008 1830 0003 0644 9153

XTO Energy, Inc. 3000 N. Garfiled Suite 175 Midland, Tx 79705 Cert. No. 7009 1680 0001 6619 6040

Fulfer Oil & Cattle LLC. P O Box 578 Jal, NM 88252 Cert. No. 7008 1830 0003 0644 9139

Westbrook Oil Corp PO Box 2264 Hobbs, NM 88241 Cert. No. 7008 1830 0003 0644 9122

Apache Corp. 6120 S. Yale Two Warren Place St. 1500 Tulsa, OK 74136-4224 7008 1830 0003 0644 9115 Mirage Energy Inc. P O Box 760 Eunice, NM 88231 Cert. No. 7009 1680 0001 6619 6019

Horseshoe Operating Inc. 110 Louisiana Midland, Tx 79701 Cert. No. 7009 1680 0001 6619 6026

Rice Operating Company 122 W. Taylor Hobbs NM 88240 Cert. No. 7009 1680 0001 6619 6033

Zachary Oil Operating Co. PO Box 1969 Eunice, NM 88231 Cert. No. 7008 1830 0003 0644 9108

Affidavit of Publication

State of New Mexico, County of Lea.

I, JUDY HANNA PUBLISHER of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period

of 3 issue(s). Beginning with the issue dated November 09, 2010 and ending with the issue dated November 23, 2010

(PUBLISHER Sworn and subscribed to before me this 22nd day of November, 2010

Notary Public

My commission expires

February 09, 2013

(Seal)



This newspaper is duly qualified to publish legal notices or advertisments within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made. 01102648 00062729 BRIDGETTE CURTIS 122 W. TAYLOR HOBBS, NM 88240 LEGAL

LEGAL

LEGAL NOTICE

NOVEMBER 9, 16, 23, 2010

Notice is hereby given of the application of Piper Energy LLC., 1102 Ucarilla, Hobs. NM, 88240 (575) 390-2843, to the Oil Conservation Division, New Mexico Energy, Minerals and Natural Resources Department, for approval of the

following well to be converted for the purpose of salt water

Location: 330/FSL 880' FWL; Section 18 Township 21

The injection formation is the San Andres located between

the interval 4100 to 4650 below the surface of the ground. Expected maximum injection rate is 20,000 barrels per day

at a maximum injection pressure of 800 psi- Interested par-

ties must file objections or requests for hearing with the Oil Conservation Division, 1220 Saint Francis Drive, Santa Fe,

**4....

183

NM 87805 within fifteen days.

Pool name: Eunice: San Andres, North (gas)

This well is located in Lea County New Mexico

Lease/Unit Name: State E Tract 27 Well No. 2 (API 30-025-26491)

South Range 37 East Unit M

#26206

Sec. 5

disposal.

Jones, William V., EMNRD

From:	Jones, William V., EMNRD
Sent:	Tuesday, December 21, 2010 12:53 PM
To:	'Scott Curtis'; Bruce Sharp
Cc:	Ezeanyim, Richard, EMNRD; Hill, Larry, EMNRD; Kautz, Paul, EMNRD
Subject:	Disposal application from Piper Energy, LLC: Penroc State "E" TR 27 Well No. 2
	30-025-26491 San Andres disposal 4100 to 4650

Hello Scott and Bruce:

After reviewing this, it appears similar to the nearby SWD-985-A operated by Rice. The application appears fine, only a few minor items to finish it up and keep our records straight: n(27)

- *a.* Please send proof of notice with date of notice to the State Land Office as the surface owner. I could not find it in the package.
- b. We are asking applicants for disposal wells to look at the separately owned tracts of land inside the ½ mile Area of Review, and identify those tracts and list the owners of each tract. Please list these tracts by legal description and whomever controls the San Andres minerals.
- 🖉 / Send a wellbore diagram of the 30-025-06663 well. Apparently it is plugged or inactive according to our records.
- A. The fresh water analysis is several years old would you please re-sample and send another analysis in?
- e. The Grayburg and San Andres water analysis included with your application are both less than 10,000 TDS. Would you comment on why these produced water analysis are so low in salinity? Is this normal for this area? If the San Andres is really less than 10,000 TDS, then this application may be moved to a hearing docket.
- f. We only have an old Resistivity log on this well in the imaging system. This well was re-entered by Merch in
- about 1994, he may have run a porosity log. Did you inherit any logs in your company well file? If any porosity
 log is available, please send a copy to Paul Kautz in Hobbs.
 - g. The permit will require the CIBP at 5180 to be pressure tested prior to perfing the San Andres for disposal. We normally require the disposal interval to be bounded on the bottom with an internal plug less than 200 feet below that interval. If this 5180 plug tests OK, it could be used.

Take Care and hope you both have some fun these holidays,

Will Jones New Mexico Oil Conservation Division Images Contacts

From: Scott Curtis [mailto:scurtis@riceswd.com]
Sent: Tuesday, December 21, 2010 8:10 AM
To: Jones, William V., EMNRD
Cc: Bruce Sharp
Subject: SWD permit app Piper Energy

Mr. Jones,

Hope all is well.

I compiled and submitted a SWD permit application for Mr. Bruce Sharp with Piper Energy on the State E Tract 27 # 2, several weeks ago.

When you get a minute could you let me know what the status of this permit is?

Thanks and Merry Christmas!

RECEIVED OCD 2011 JAN 20 P 12: 40

January 15, 2011

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NMOCD 1220 South St. Francis Dr. Santa Fe, NM 87505 Atten: Will Jones

Mr. Jones,

As per your email dated December 21, 2010, please find enclosed the information that you requested.

The San Andres minerals are controlled by the following:

Section 13 T21S	R36E UL's I,J,O,P	(Apache)
Section 18 T21S	R37E UL's M,N	(Apache)
Section 18 T21S	R37E UL's J,K,L,O	(Chevron)
Section 19 T21S	R37E UL's B,C,D,E,	F (Chevron)
Section 24 T21S	R36E UL's A,B,H	(Chevron)

This information was gathered by an Oil and Gas Attorney at the Lea County Court House and Elliot Waldron Title and Abstract.

As you know the TDS of the San Andres can vary from below 10,000 to well above . The samples sent with the application where from wells approximately 6 miles south of the proposed SWD. The current sample is from a well approximately 2 miles East of the proposed SWD.

If you need, further information please do not hesitate to contact us.

Thank Ruse Star



January 18, 2011

MARVIN BURROWS PIPER ENERGY 1102 JICARILLA HOBBS, NM 88240

RE: DASCO WATER WELL

Enclosed are the results of analyses for samples received by the laboratory on 01/07/11 9:50.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydorcarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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

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

Accreditation applies to public drinking water matrices.

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,

Celuy D. Keine

Celey D. Keene Lab Director/Quality Manager

CARDINAL Laboratories

Analytical Results For:

PIPER ENERGY MARVIN BURROWS 1102 JICARILLA HOBBS NM, 88240 Fax To: NONE GIVEN

Received:	01/07/2011	Sampling Date:	01/07/2011
Reported:	01/18/2011	Sampling Type:	Water
Project Name:	DASCO WATER WELL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NE OF EUNICE I-13-21-36		

Sample ID: DASCO RANCH WELL (H100043-01)

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mg	/L	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
244	5.00	01/07/2011	ND	964	96.4	1000	7.79	
mg	/L	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
48.1	1.60	01/13/2011	ND	52.1	104	50.0	4.83	
mg/L		Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.00	0.00	01/07/2011	ND	ND		0.00		
mg	/L	Analyzed By: HM						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
92.0	4.00	01/11/2011	ND	104	104	100	3.77	
uS/	/cm	Analyzed By: HM						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
800	1.00	01/07/2011	ND	1410	100	1410	0.333	
mg	/L	Analyzed By: HM						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
27.2	1.00	01/13/2011	ND	55.9	112	50.0	0.00	
рH	Units	Analyzed By: HM						
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
8.14	0.100	01/07/2011		7.03	100	7.00	0.253	
mg	/L	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	0/	T		Qualifier
-	Result 244 mg Result 48.1 mg Result <0.00 mg Result 92.0 uS, Result 800 mg Result 27.2 pH Result 8.14 mg	244 5.00 mg/L Result Reporting Limit 48.1 1.60 mg/L Reporting Limit <0.00	ResultReporting LimitAnalyzed2445.0001/07/2011mg/LAnalyzedResultReporting LimitAnalyzed48.11.6001/13/2011mg/LAnalyzedResultReporting LimitAnalyzed0.0001/07/2011mg/LAnalyzedAnalyzedResultReporting LimitAnalyzed0.0001/07/2011mg/LAnalyzedAnalyzed92.04.0001/11/2011uS/cmAnalyzedResultReporting LimitAnalyzed8001.0001/07/2011mg/LAnalyzedResultReporting LimitAnalyzed8011.0001/13/2011mg/LAnalyzedResultReporting LimitAnalyzed8140.10001/07/2011mg/LAnalyzed	ResultReporting LimitAnalyzedMethod Blank2445.0001/07/2011NDmg/LAnalyzed By: HMResultReporting LimitAnalyzedMethod Blank48.11.6001/13/2011NDmg/LAnalyzed By: HMResultReporting LimitAnalyzedMethod Blank<0.00	ResultReporting LimitAnalyzedMethod BlankBS2445.0001/07/2011ND964mg/LAnalyzed By: HMMethod BlankBS48.11.6001/13/2011ND52.1mg/LAnalyzed By: HMAnalyzed By: HMBS48.11.6001/07/2011ND52.1mg/LAnalyzed By: HMBS 30.00 01/07/2011NDResultReporting LimitAnalyzed By: HMBS<0.00	Result Reporting Limit Analyzed Method Blank BS % Recovery 244 5.00 01/07/2011 ND 964 96.4 mg/L Analyzed By: HM Method Blank BS % Recovery 48.1 1.60 01/13/2011 ND 52.1 104 mg/L Analyzed By: HM Method Blank BS % Recovery 48.1 1.60 01/13/2011 ND 52.1 104 mg/L Analyzed By: HM Method Blank BS % Recovery <0.00	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 244 5.00 01/07/2011 ND 964 96.4 1000 mg/L Analyzed By: HM 964 96.4 1000 Result Reporting Limit Analyzed By: HM BS % Recovery True Value QC 48.1 1.60 01/13/2011 ND 52.1 104 50.0 mg/L Analyzed By: HM Analyzed By: HM S % Recovery True Value QC <0.00	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 244 5.00 01/07/2011 ND 964 96.4 1000 7.79 mg/L Analyzed By: HM 1000 7.79 Mg/L Analyzed By: HM 7.79 70 48.1 1.60 01/13/2011 ND 52.1 104 50.0 4.83 mg/L Analyzed By: HM 7100 4.83 1000 4.83 mg/L Analyzed By: HM 52.1 104 50.0 4.83 Result Reporting Limit Analyzed By: HM 0.00 7100 7107/2011 ND 0.00 0.00 710 710 3.77 g2.0 4.00 01/11/2011 ND 104 104 100 3.77 uS/cm Analyzed By: HM Method Blank BS % Recovery True Value QC RPD

Cardinal Laboratories

*=Accredited Analyte

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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

PIPER ENERGY MARVIN BURROWS 1102 JICARILLA HOBBS NM, 88240 Fax To: NONE GIVEN

Received:	01/07/2011	Sampling Date:	01/07/2011
Reported:	01/18/2011	Sampling Type:	Water
Project Name:	DASCO WATER WELL	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NE OF EUNICE I-13-21-36		

Sample ID: DASCO RANCH WELL (H100043-01)

Potassium 8049	mg	/L	Analyze	d By: HM		-			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Potassium	3.80	1.00	01/13/2011	ND	7.61	95.1	8.00	9.11	
Sodium Calculated	mg	/L	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sodium	86.0	1.00	01/13/2011	ND					
Sulfate 375.4	mg	mg/L Analyzed By: HM		d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Sulfate	90.4	10.0	01/11/2011	ND	40.4	101	40.0	7.90	
TDS 160.1	160.1 mg/L Analyzed By: HM		d By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
TDS	484	5.00	01/10/2011	ND				2.76	
Total Alkalinity 310.1M	mg/L Analyzed By: HM								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Alkalinity, Total	200	4.00	01/07/2011	ND	790	96.3	820	7.59	

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 5



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

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°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Project Manager: MAR LIN BUN Project Manager: MAR LUN BUN Address: // 22 J_C A 2124 City: H 2 bb5 State MM Phone #: 63/ - 0680 Fax #: Project #: 0 ASC0 W AFCO Project Name: 0 ASC0 W AFCO	1010) 535-5260 FAX (313) 335-2410 1010) 535-5260 FAX (310) 336-2410 22 Jic A RULA 22 Jic A RULA 22 Jic A RULA 22 Stater AM ZID: 88240 2450 Fax# Project Owner: Project DASCO WAFEN WELL	P.O. # P.O. # Company: Attn: Attn: Address: City: State: Zip: Phone #:	ANALYSIS REQUEST
Sampler Name: M. A. R. V. I. B. U. FOR LAB USE ONLY Lab 1.D. Sample 1.D. H 1 000 43-1 D. K.S.C.O. Loweh W.e.L			
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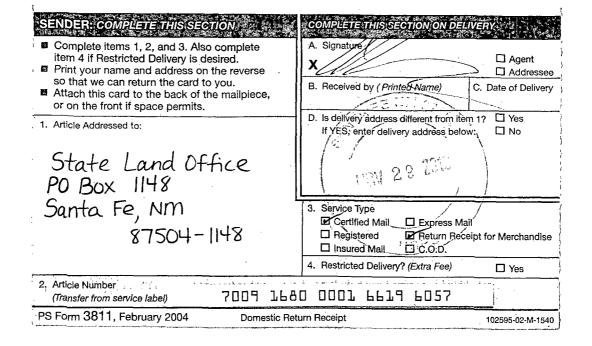
† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

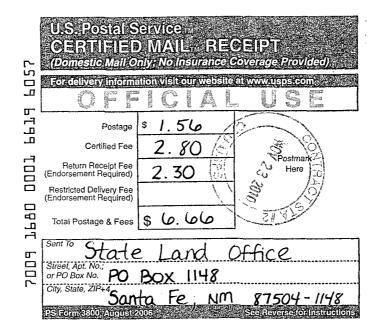
Page 5 of 5

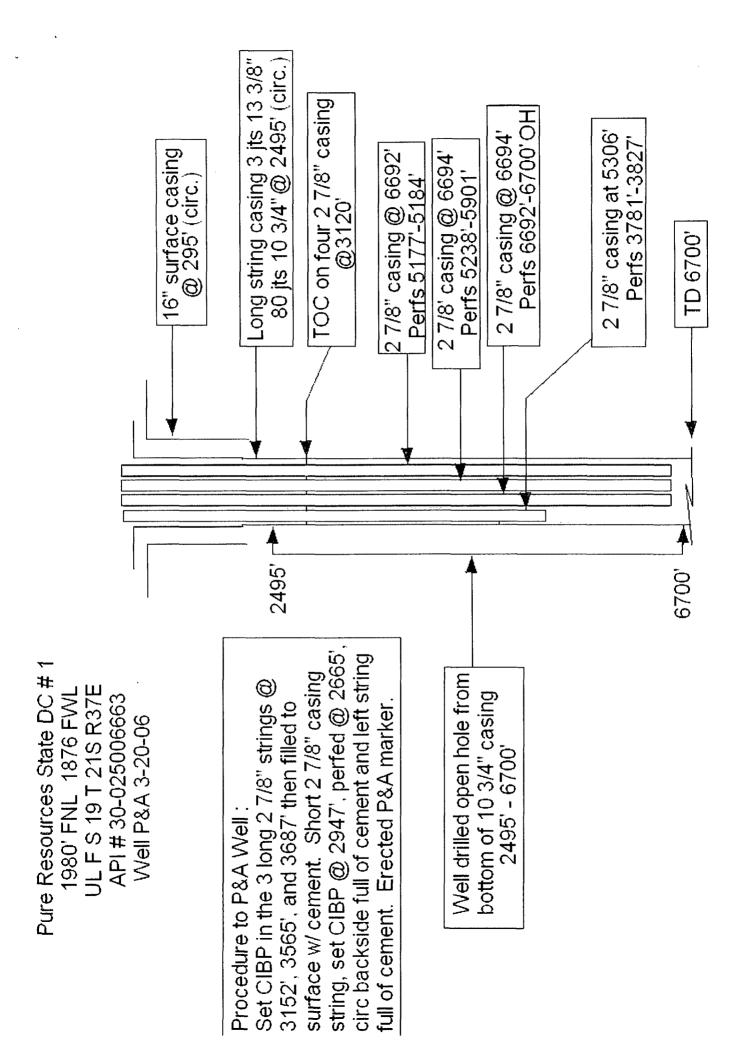
•			Chem Teo ER ANAI			
Attention:	Argo #10 API# 30-025-066	06, San Ar	ndres	Date Analyze		x
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5. Ca 6. Di	ydrogen Sulfide arbon Dioxide issolved Oxygen			Not Present t Determined t Determined		
8. M 9. So 10. Ba	alcium agnesium odium arium	(Ca++) (Mg++) (Na+) (Ba++)	(Calculated)	112 172 4,197 Below 10	/ 20.1 = / 12.2 = / 23.0 =	5.57 14.10 182.48
12. C 13. Bi 14. Si 15. C	ydroxyl arbonate icarbonate ulfate hloride	(OH-) (CO3=) (HCO3-) (SO4=) (Cl-)	2 molect	Ne 0 2,503 160 5,599	/ 17.0 = / 30.0 = / 61.1 = / 48.8 = / 35.5 =	0.00 0.00 40.97 3.28 157.72
17. To 18. M 19. To	otal Dissolved So otal Iron langanese otal Hardness as esistivity @ 75 F.	(Fe) (Mn++) CaCO3		12,743 6.0 ot Determined 985 0.3	00 / 18.2 = 385 Ohm · meters	0.33
	LOGARITHMIC	WATER PA	TTERN	PR	OBABLE MINERAL	COMPOSITION
Mg Fe 10000 225 g 226 7 26		eq / L.		COMPOL Ca(HCO3 CaSO4 CaCl2 Mg(HCO3 MgSO4 MgCl2 NaHCO3 NaSO4 NaSO4 NaCl	3)2 5.57 0.00 0.00	EQ. WT. = mg/L. 81.04 452 68.07 0 55.50 0 73.17 1,032 60.19 0 47.62 0 84.00 1,789 71.03 233 58.46 9,220 per Liter
L 28 27 27	786			Tony Abor	náthy, Analyst	
	750 emp ºF. 50 70 90	110 130	150 170	TONY ADEL	riaury, Andryst	

Tony Abernathy, Analyst

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- E Euroont A Arrowhead PS Penrose Skelly
- P Paddock
- B Blinebry Oil
- BG Blinebry Gas T Tubb D Drinkard

FILLI West Eunice Area STATE New Mexico Lea COULTY

Inactive Well Additional Financial Assurance Report 273479 PIPER ENERGY, LLC Total Well Count: 1 Printed On: Tuesday, December 21 2010

											Bond		
		Lease		OCD Unit		Well	Last	Inactive Additional	Measured	Required	Required	Bond In	In
Property	Well Name	Туре	ULSTR	Letter	API	Туре	Prod/Inj	Bond Due	Depth	Bond Amount	Now	Place	Violation
307944 PENF	OC STATE E TR 27 #002	S	4-18-21S-37E	М	30-025-26491	0	07/2010	08/01/2012	6900	11900		15000	

WHERE Ogrid: 273479

					\mathbf{i}	
Injection Permit Checklis	t (11/15/2010)		11	CE-	$\left(\cdot \right)$	
WFXPMX	SWD 1263	Permit Date		atr JF	MY	
# Wells Well Nathers S	Tote E TRA	= 27 (HZ)			/	
API Num: <u>30-0 25-2649</u>	· 11 -	Sate 10/19/79	New/Old:	O(UIC primacy March	7, 1982)	
Footages 330 FSL 8	SO FUL LU	HALSec 18 TSP	215	Rge 37E County	LEA	
General Location:	EUNI	CE)	·····			
Operator: PIPER E	NERGY !!	LC,	Contact	Bine Starp	2	
OGRID: 273479 RULI	E 5.9 Compliance (Wells	» <u> </u>	(Finan As	ssur) 01-15 5.9 OK	0	then
Well File Reviewed	Status: EBG P.	erfo-open,	Blinday	Copped w/CIN	2 P/ Plugger	'BY
Planned Work to Well: D.J.	ENT PLUG			DIL/MSFL/	- fo	when
Diagrams: Before Conversion		Elogs in Imaging File:		010 109/(P	tagy)
Well Details:	Sizes HolePipe	Setting Depths	Stage Tool	Cement / Sx or Cf /	/ Determination Method	11.
NewExisting Surface	12/4 95/8	1230		300	CIRC	
New_Existing _Interm	-3/11 11			(400-1350)		
New_Existing _ LongSt	814 7	6900 TD		1750 /	CIRC TJ.	
New_Existing _ Liner						
New_Existing OpenHole	the transport			++	a 617	
Depths/Formations:	Depths, Ft.	Formation	Tops?	N, EUNICE	×A-(602) (
Formation(s) Above	4000	SA	\checkmark			1
Injection TOP:	4100	S.A.		820 OpenHole		
Injection BOTTOM:	4650	S.A.	Tubing Size	B Packer Depth	4080	ł
Formation(s) Below	5000	Poddock		-2362	Ì	
				(152		~7
Capitan Reet?(Potash?	Noticed?	P? Noliced?		2005	Cliff House?	(
Fresh Water: Depths:50		Callala Wells?	Bes Ar	halysis? <u> </u>	tatement	~?
Disposal Fluid Analysis?	Sources: GBG	ISA	ALCBO	5 Blineby	New	· ~ '
Disposal Interval: Analysis?	Production Potentia	al/Testing:		Bling	Subanc	C
Notice: Newspaper Date	LO Surface Owner	50	\geq	Mineral Owner(s)	APARH	E/
RULE 26.7(A) Affected Persons	: Charrier / KT	o/Fulfar furs	thin/s	PACHE Ming	Harsh Rice	Boday
AOR: Maps? Well List?	Producing in Interval	? [Y ^O Wellbore Diagr	ams?		/ /	
Active Wells	rs?OWhichWells?	<u> </u>				-
P&A Wells A Repair	s? Owhich Wells?		ALC:	Chan on V		_
Test	1 5180 MPL	NG		06653		
List	owner BY	TRASI	\sim	Request Sent	Reply:	
11/15/2010/10:43 AM		Page 1 of 1			SWD Checklist.xls/L	ist

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