JATEIN	110-05 SUSPE	ISE ENGINERATION	3.10.05	THE SUD	PSIMU506942	87.40
	·	Catopico ABOV	E THIS LINE FOR DIVISION USE ONL	wix		
		NEW MEXICO OIL CO - Engineer 1220 South St. Francis D	ing Bureau -			· · · · · · · · · · · · · · · · · · ·
		ADMINISTRATIVE	APPLICAT	ION CHECK	LIST	
 TI-	IS CHECKLIST IS M	IANDATORY FOR ALL ADMINISTRATI WHICH REQUIRE PROCI			ON RULES AND REGULATIO	NS
Applic	[DHC-Dow [PC-Pc	ndard Location] [NSP-Non-S nhole Commingling] [CTB	-Lease Comminglin ff-Leasé Storage]] [PMX-Pressure sal] [IPI-Injection	g] [PLC-Pool/Lea [OLM-Off-Lease M Maintenance Expa	ase Commingling] Measurement] ansion] -1	
[1]	TYPE OF AI [A]	PPLICATION - Check Those Location - Spacing Unit - S NSL NSP		A] tion	PI Inction Response] (allow feeting) LM For ward (Verieff) PR	(10 / 10) SE W. 32
• • • •	Check [B]	Cone Only for [B] or [C] Commingling - Storage - M DHC CTB			LM For Newspul	
	[C]	Injection - Disposal - Press		iced Oil Recovery	PR	
: 	[D]	Other: Specify			-	
[2]	NOTIFICAT [A]	ION REQUIRED TO: - Che			Apply	e de que estera y Local
	[B]	Offset Operators, Leas	eholders or Surface	Owner		
	[C]	Application is One Wh	ich Requires Publis	hed Legal Notice		
en an	[D]	Notification and/or Cor U.S. Bureau of Land Management -	ncurrent Approval b Commissioner of Public Land	y BLM or SLO s, State Land Office		
parte de la fet	[E]	For all of the above, Pr	oof of Notification of	or Publication is Att	ached, and/or,	
	[F]	Waivers are Attached		a 1. 1. 新聞	•	
(3)	SUBMIT ACC OF APPLICA	CURATE AND COMPLET TION INDICATED ABOV	E INFORMATION E.	I REQUIRED TO	PROCESS THE TYI	E r fastari 1997 - Carl
approva	il is accurate ar	TION: I hereby certify that the d complete to the best of my quired information and notification and notification.	knowledge. I also u	inderstand that no a	cation for administrativ action will be taken on	e (19.000) this
	Note:	Statement must be completed by a	an Individual with mana	gerial and/or supervise	ory capacity.	
Print or '	Type Name	Signature		Title	Date	
	·		·	e-mail Address		

STATE OF NEW MEXICO	1
ENERGY, MINERALS and NAT	URAL
RESOURCES DEPARTMENT	

Oil Conservation Division 1220 South St. Francis Dr. SANTA FE, NEW MEXICO 87505

RECEIV	J	ET'E M	••
	7		Form C-108

Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT CONSERVATION

I.	PURPOSE : X Secondary Recovery Pressure Maintenance Dividing Storage Application qualifies for administrative approval? X Yes No
¥¥.	OPERATOR: Latigo Petroleum
	ADDRESS :_ 415 W. Wall, Suite 1900 Midland TX 79701
	CONTACT PARTY : Joe N. Clement PHONE : (432)684-4293
III.	WELL DATA: Complete the data required on the reverse side of this form for each well processed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? <u>X</u> Yes <u>No</u> If yes, give the Division order number authorizing the project <u>Order No. R-9337</u>
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

- VII. Attach data on the proposed operation, including:
 - 1. Proposed average and maximum daily rate and volume of fluids to be injected;
 - 2. Whether the system is open or closed;
 - 3. Proposed average and maximum injection pressure;
 - 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
 - 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a Chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- *VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological 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 source 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: Joe N. Clement	TITLE: Sr. Operations Engineer
SIGNATURE: M Clement	DATE: <u>03/04/2005</u>
E-MAIL ADDRESS: inclement@latigopetro.com	

* If the information required under Sections VI, VHI, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstance 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 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, NM 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.

- -				Central Cordin Queen Unit #101, #102, #202 & #207 Injection Application Data	בכנוסוו או	plication	ונעמנו	
		Surface Casing	Inter. Casing	Prod. Casing	TD	Completions Type	Type	Comments
		17 1/2" hole size	12 1/4" hole size					TOC for 5 1/2" csg determined
		13 3/8" 48# csg @ 430'	9 5/8" 36# csg @ 5100'	7 7/8" hole size				by Temp. Survey.
		w/ 420 sx cmt circ to	w/ 3300 sx cmt circ to	5 1/2" 17 & 20# csg @ 13,825'	TD 13,825'	7	OIL to	CIBP set @ 4900' w/ 3 sx cmt
2010 10/31/04 280 FINL & 1800 FEL	30 FEL	surface	surface	w/ 3100 sx cmt TOC 3600'	PBTD 4850'	4228'-4238'	R	on top.
30-025-29243		12 1/4" hole size						
Central Corbin Sec. 9-T18S-R33E		8 5/8" 24# csg @ 380'		7_7/8" hole size		A STATE OF STATE		
Queen Unit #102 Unit H		w/ 300 sx cmt circ to		5 1/2" 14 & 15.5# csg @ 4366'	_TD-4375'		OIL 10	TOC @ Surface
Spud 6/15/85 1980' FNL & 430' FEL	30' FEL	surface		w/ 1550 sx cmt circ to surface	PBTD 4339'	4270'-4282'	N	Determined by circulation
20 025-29363		12 1/4" hole size						
Central Corbin Sec. 4-T18S-R33E		8 5/8" 24# csg @ 394'		7 7/8" hole size		ſ		
Queen Unit #202 Unit N		w/ 350 sx cmt circ to		5 1/2" 14# csg @ 4300'	TD 4300'		OIL to	TOC @ Surface
Spud 9/19/85 660' FSL & 1980' FWL	0' FWL	surface		w/ 1250 sx cmt circ to surface	PBTD 4256'	4207'-4226'	R	Determined by circulation
20-025.29776		12 1/4" hole size						
Central Corbin Sec. 4-T18S-R33E		8 5/8" 24# csg @ 396'		7 7/8" hole size)		
Queen Unit #207 Unit P		w/ 300 sx cmt circ to		5 1/2" 14# csg @ 4523'	TD 4530'		OIL to	TOC @ Surface
Spud 11/6/86 660' FSL & 990' FEL	0' FEL	surface		w/ 1400 sx cmt circ to surface	PBTD 4478'	4203'-4227'	R	Determined by circulation

J



Central Corbin Queen Unit #101 990' FNL & 1980' FEL Unit B, Sec. 9-T18S-R33E Lea County, New Mexico

Application for Authorization to Inject

- VI. Attached is a tabulation of all wells of public record that fall within the ½ mile radius of the proposed injection well, the Central Corbin Queen Unit #101. This investigation has further shown that all these wells have a good cement seal around their casing shoe and will therefore prevent the upward migration of the disposed water into any potable water zone. This project is part of a re-patterning of the existing Central Corbin Queen Unit waterflood, authorized under Order No. R-9337.
- VII. The proposed average daily injection rate for the subject well is 250 BWPD; the maximum daily injection rate would be 500 BWPD. This is an open system with an average pressure of 1600 and a maximum pressure of 2200 psi. Only produced water will be injected in the proposed well, so incompatibility will not be a problem.
- VIII. The injection zone is a Permian-age sand known as the Queen. The main zone is the upper part of the Queen, known locally as the Shattuck member. The top of the Queen in this well is at 4,194', and is approximately 50' thick. The zone is perforated from 4,228' 4,238'. The source of fresh water in this area comes from the Ogallala formation, the base of which is at approximately 350'. There are no known sources of drinking water underlying the injection interval.
- IX. After perforation, the well will be stimulated with 2000 gallons of 15% NEFE HCI and ball sealers.
- X. Log and test data is on file with the Division.
- XI. Attached is an analysis of the water from a water well located in Sec. 10; T-18-S; R-33-E; NW, SE; 1650 FSL & 330 FEL. This is the only well which could be located.
- XII. Latigo Petroleum has examined the available geologic and engineering data and can find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. The required "Proof of Notice" is attached.

OPERATOR: Latigo Petroleum, Inc.				
WELL NAME & NUMBER: Central Corbin Queen Unit #101				
WELL LOCATION: <u>990' FNL & 1980' FEL</u> FOOTAGE I OCATION	B I INIT I FTTER	9 SECTION	18S TOWNSHIP	33E RANGF
WELLBOKE SCHEMAILC		WELL CONSTRU Surface Casing	WELL CONSTRUCTION DATA Surface Casing	
	Hole Size: 17 1/2"		Casing Size: <u>13 3/8" 48#</u>	48#
	Cemented wtih: 420	SX.	or	fi
	Top of Cement: <u>surface</u>		. Method Determined: Circulation	: Circulation
		Intermediate Casing	te Casing	
	Hole Size: 12 1/4"		Casing Size: 9 5/8" 36#	
	Cemented with: 3300	SX.	or	ft ³
	Top of Cement: <u>surface</u>		Method Detemined: circulation	circulation
		Production Casing	n Casing	
Υ.	Hole Size: 77/8"		Casing Size: <u>5 1/2" 17 & 20#</u>	17 & 20#
	Cemented with: 3100	SX.	or	f1 3
	Top of Cement: 3600'		Method Determined: Temp. Survey	Temp. Survey
	Total Depth: <u>13.825</u>			
		Injection Interval	Interval	
	4228'	feet	to 4238'	

(Peforated or Open Hole; indicated which)

INJECTION WELL DATA SHEET

Side 1

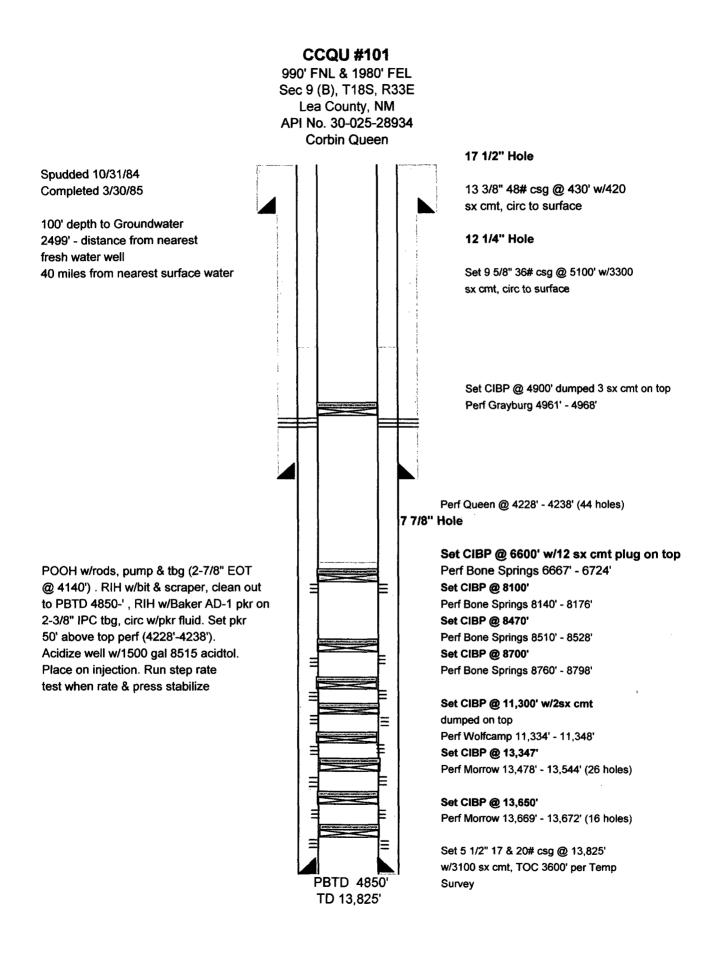
INJECTION WELL DATA SHEET

		5.	4.	$\dot{\omega}$	2.				Oth	Pac	Туғ	Tul
Grayburg/San Andres	Seven Rivers	Give the name and depths injected zone in this area:	Has the well ever be intervals and give pl	Name of Field or Po	Name of the Injected Formation: <u>Queen</u>	If no, for what purpo	Is This a new well drilled for injection?		ner Type of Tubing/C	Packer Setting Depth: 4178	Type of Packer <u>: Baker AD-1</u>	Tubing Size: 2 3/8"
4900	3450	lepths of any oil or gas z area:	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. <u>See well</u>	Name of Field or Pool (if applicable): <u>Corbin</u>	d Formation: <u>Queen</u>	If no, for what purpose was the well originally drilled? <u>producer</u>	rilled for injection?	Addit	Other Type of Tubing/Casing Seal (if applicable): <u>N/A</u>	178'		
Wolfcamp	Abo	ones underlying o	er zone(s)? List a of cement or plug			ly drilled? <u>produc</u>		Additional Data	: <u>N/A</u>	1		Lining Material: IPC
11,250	9050	Give the name and depths of any oil or gas zones underlying or overlying the proposed injected zone in this area:	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. <u>See wellbore diag.</u>			ler	-Yes <u>X</u> No					IPC

2nd Bone Spring

8600

Side 2



Affidavit of Publication

STATE OF NEW MEXICO

) ss.

)

COUNTY OF LEA

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertisting Director of **THE LOVINGTON DAILY LEADER**, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

Legal Notice

was published in a regular and entire issue of THE LOV-

INGTON DAILY LEADER and not in any supplement there-

of, for <u>one (1) day</u>, beginning with the issue of

February 27 , 2005 and ending with the issue

of<u>February</u>, 2005.

And that the cost of publishing said notice is the sum of \$17.83 which sum has been (Paid) as Court Costs.

Subscribed and sworn to before me this 4th day of March 2005.

Debbie Schilling

Notary Public, Lea County, New Mexico My Commission Expires June 22, 2006 LEGAL NOTICE Conversion To Water Injection

Well Latigo Petroleum, 550 W. Texas, Fasken Tower II, Suite 700, Midland, Texas 79701, 915-684-4293, contact Joe N. Clement, has made application for a water injection well with the New Mexido Oil Conservation Commission. The well, known as the Central Corbin Queen Unit #101, is located 990' FNL and 1980' FEL., Sec. 4-T18S-R33E, Lea County, New Mexico. Disposal will be into the Queen' zone through perforations from 4,228' - 4,238'. Maximum rate and pressure is anticipated to be 500 BWPD and 2000 PSI. Interested parties must file objections or requests for hearing with the New Mexico Conservation Oil Commission, P.O. Box 2088, Santa Fe, New Mexico 87504 within fifteen (15) days of this notice. Published the in Lovington Daily Leader February 27, 2005.



Central Corbin Queen Unit #102 1980' FNL & 430' FEL Unit H, Sec. 9-T18S-R33E Lea County, New Mexico

Application for Authorization to Inject

- VI. Attached is a tabulation of all wells of public record that fall within the ½ mile radius of the proposed injection well, the Central Corbin Queen Unit #102. This investigation has further shown that all these wells have a good cement seal around their casing shoe and will therefore prevent the upward migration of the disposed water into any potable water zone. This project is part of a re-patterning of the existing Central Corbin Queen Unit waterflood, authorized under Order No. R-9337.
- VII. The proposed average daily injection rate for the subject well is 250 BWPD; the maximum daily injection rate would be 500 BWPD. This is an open system with an average pressure of 1600 and a maximum pressure of 2200 psi. Only produced water will be injected in the proposed well, so incompatibility will not be a problem.
- VIII. The injection zone is a Permian-age sand known as the Queen. The main zone is the upper part of the Queen, known locally as the Shattuck member. The top of the Queen in this well is at 4,250', and is approximately 50' thick. The zone is perforated from 4,270' 4,282'. The source of fresh water in this area comes from the Ogallala formation, the base of which is at approximately 350'. There are no known sources of drinking water underlying the injection interval.
- IX. After perforation, the well will be stimulated with 2000 gallons of 15% NEFE HCl and ball sealers.
- X. Log and test data is on file with the Division.
- XI. Attached is an analysis of the water from a water well located in Sec. 10; T-18-S; R-33-E; NW, SE; 1650 FSL & 330 FEL. This is the only well which could be located.
- XII. Latigo Petroleum has examined the available geologic and engineering data and can find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. The required "Proof of Notice" is attached.

OPERATOR: Latigo Petroleum, Inc.			
WELL LOCATION: <u>1980' FNL & 430' FEL</u> FOOTAGE LOCATION	H UNIT LETTER	9 18S SECTION TOWNSHIP	33E ISHIP RANGE
WELLBORE SCHEMATIC		WELL CONSTRUCTION DATA Surface Casing	TION DATA
	Hole Size: <u>12 1/4"</u>	Casing	Casing Size: <u>8 5/8" 24#</u>
	Cemented wtih: 300	SX. 07	
	Top of Cement: <u>surface</u>		Method Determined: <u>Circulation</u>
	Hole Size:	Casing Size:	Size:
	Cemented with:	SX. 07	
	Top of Cement:	Method	Method Detemined:
		Production Casing	
	Hole Size: <u>7 7/8"</u>	Casing (Casing Size: 5 1/2" 14 & 15.5#
	Cemented with: 1550) SX. <i>or</i>	ft 3
	Top of Cement: <u>surface</u>		Method Determined: <u>Circulation</u>
	Total Depth: 4375'		
		Injection Interval	
	4270'	feet to <u>4282</u> '	
	(P	(Peforated or Open Hole; indicated which)	ted which)

Side 1

INJECTION WELL DATA SHEET

INJECTION WELL DATA SHEET

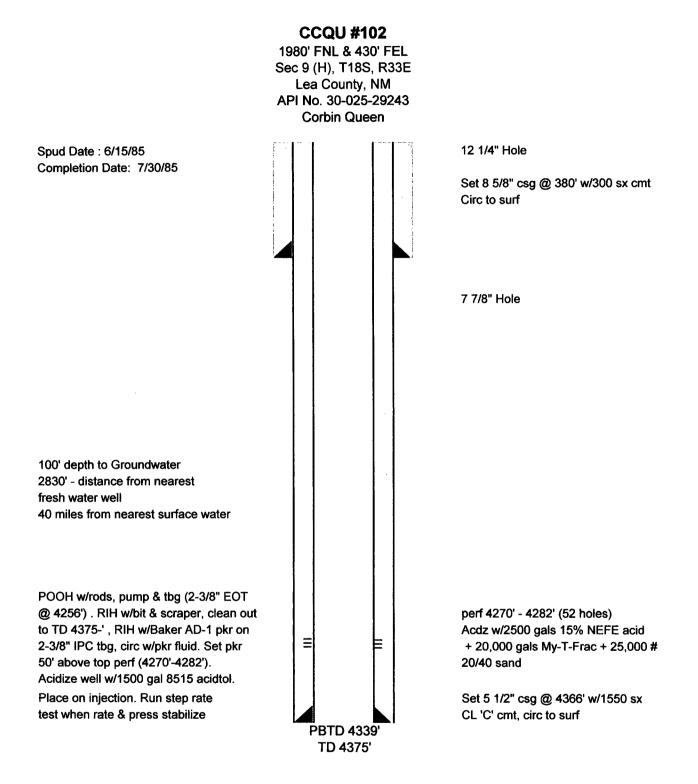
Tu	Tubing Size: 2 3/8"	Lini	Lining Material: <u>IPC</u>	PC
Tyj	Type of Packer: <u>Baker AD-1</u>			
Pa	Packer Setting Depth: 4220'	0'		
Q	ner Type of Tubing/Cas	Other Type of Tubing/Casing Seal (if applicable): <u>N/A</u>	A	
		Additional Data	Data	
1.	Is This a new well drilled for injection?	led for injection?	Yes	s X No
	If no, for what purpos	If no, for what purpose was the well originally drilled? <u>producer</u>	illed? <u>produce</u>	
2.	Name of the Injected Formation: <u>Queen</u>	formation: <u>Queen</u>		
.ω	Name of Field or Pool	Name of Field or Pool (if applicable): <u>Corbin</u>		
.4	Has the well ever beer intervals and give plug	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. <u>see wellbore diag</u>	ne(s)? List all ment or plug(i	s) used. <u>see wellbore diag</u>
s.	Give the name and depths injected zone in this area:	Give the name and depths of any oil or gas zones underlying or overlying the proposed injected zone in this area:	underlying or	overlying the proposed
	Seven Rivers	3450	Abo	9050
	Grayburg/San Andres	4900	Wolfcamp	11,250

2nd Bone Spring

8600

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Side 2



Affidavit of Publication

STATE OF NEW MEXICO

) ss.

)

)

COUNTY OF LEA

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertisting Director of **THE LOVINGTON DAILY LEADER**, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

Legal Notice

was published in a regular and entire issue of THE LOV-

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of, for one (1) day ____, beginning with the issue of

February 27, 2005 and ending with the issue

of<u>February</u>, 2005.

And that the cost of publishing said notice is the sum of <u>\$17.83</u> which sum has been (Paid) as Court Costs.

Subscribed and sworn to before me this 4th day of March 2005.

Debbie Schilling

Notary Public, Lea County, New Mexico My Commission Expires June 22, 2006

LEGAL NOTICE Conversion To Water Injection Well-Latigo Petroleum, 550-W. Texas, Fasken Tower II, Suite 700, Midland, Texas 79701. 915-684-4293. contact Joe N. Clement, has made application for a water injection well with the New Mexico Oil Conservation Commission. The well, known as the Central Corbin Queen Unit #102. is located 1980' FNL and 430' FEL., Sec. 4-T18S-R33E, Lea County, New Mexico. Disposal will be into the Queen zone through perforations from 4,270' - 4,282' Maximum rate and pressure is anticipated to be \$00 BWPD and 2000 PSI. Interested parties must file objections or requests for hearing with the New Mexico Conservation Oil Commission, P.O. Box 2088, Santa Fe, New Mexico 87504 within fifteen (15) days of this notice.

Published in the Lovington Daily Leader February 27, 2005.



Central Corbin Queen Unit #202 660' FSL & 1980' FWL Unit N, Sec. 4-T18S-R33E Lea County, New Mexico

Application for Authorization to Inject

- VI. Attached is a tabulation of all wells of public record that fall within the ½ mile radius of the proposed injection well, the Central Corbin Queen Unit #202. This investigation has further shown that all these wells have a good cement seal around their casing shoe and will therefore prevent the upward migration of the disposed water into any potable water zone. This project is part of a re-patterning of the existing Central Corbin Queen Unit waterflood, authorized under Order No. R-9337.
- VII. The proposed average daily injection rate for the subject well is 250 BWPD; the maximum daily injection rate would be 500 BWPD. This is an open system with an average pressure of 1600 and a maximum pressure of 2200 psi. Only produced water will be injected in the proposed well, so incompatibility will not be a problem.
- VIII. The injection zone is a Permian-age sand known as the Queen. The main zone is the upper part of the Queen, known locally as the Shattuck member. The top of the Queen in this well is at approximately 4,180', and is 45' thick. The zone is perforated from 4,207' 4,226'. The source of fresh water in this area comes from the Ogallala formation, the base of which is at approximately 350'. There are no known sources of drinking water underlying the injection interval.
- IX. After perforation, the well will be stimulated with 2000 gallons of 15% NEFE HCI and ball sealers.
- X. Log and test data is on file with the Division.
- XI. Attached is an analysis of the water from a water well located in Sec. 10; T-18-S; R-33-E; NW, SE; 1650 FSL & 330 FEL. This is the only well which could be located.
- XII. Latigo Petroleum has examined the available geologic and engineering data and can find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. The required "Proof of Notice" is attached.

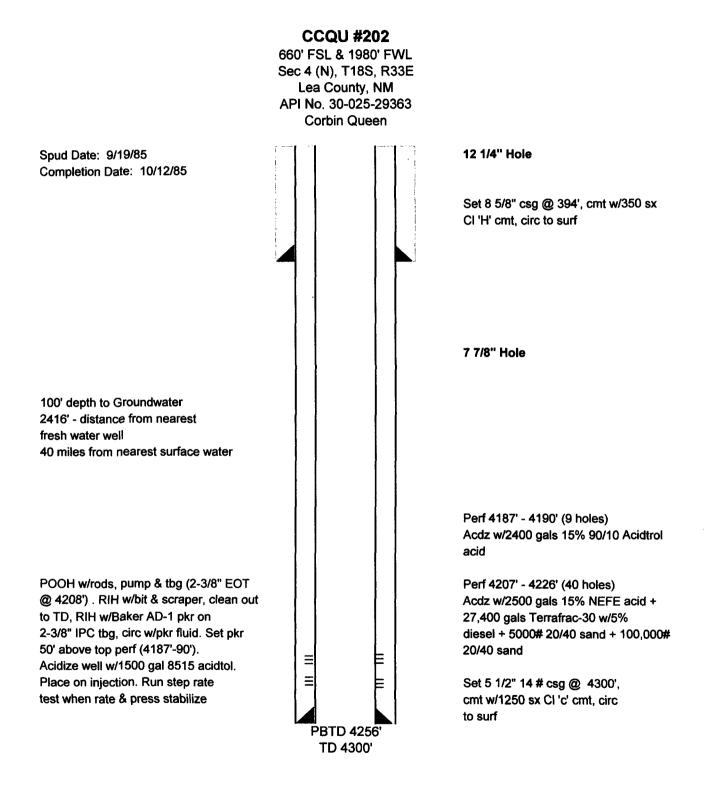
OPERATOR: Latigo Petroleum				
WELL NAME & NUMBER: Central Corbin Queen Unit #202				
WELL LOCATION: 660' FSL & 1980' FWL	N	6	18S	33E
FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
WELLBORE SCHEMATIC		<u>WELL CO</u> Surface	WELL CONSTRUCTION DATA Surface Casing	र ।
	Hole Size: 12 1/4"		- Casing Size: <u>8 5/8" 24#</u>	" 24#
	Cemented wtih: 350	SX.	 0r 	ft ³
	Top of Cement: <u>surface</u>		 Method Determined: Circulation 	ed: Circulation
		Intermedia	Intermediate Casing	
	Hole Size:		Casing Size:	
	Cemented with:	SX.	or	
	Top of Cement:		 Method Detemined: 	H:
		Productic	Production Casing	
	Hole Size: 77/8"		- Casing Size: <u>5 1/2" 14#</u>	14#
	Cemented with: 1250	SX.	. or	ft 3
	Top of Cement: <u>surface</u>		- Method Determined: Circulation	d: Circulation
	Total Depth: 4300'			
		Injection	Injection Interval	
	4207'	feet	-feet to 4226'	
	(Pefc	orated or Open H	(Peforated or Open Hole; indicated which)	

INJECTION WELL DATA SHEET

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Side 1

intervals and give plugging detail, i.e. sacks of cement or plug(s) used. see wellbore diag. Give the name and depths of any oil or gas zones underlying or overlying the proposed Has the well ever been perforated in any other zone(s)? List all such perforated Ŷ 9050 × 11,250 _Yes _ **INJECTION WELL DATA SHEET** Lining Material: IPC If no, for what purpose was the well originally drilled? producer Wolfcamp Additional Data Abo Other Type of Tubing/Casing Seal (if applicable): <u>N/A</u> Name of Field or Pool (if applicable): Corbin Name of the Injected Formation: <u>Queen</u> 1. Is This a new well drilled for injection? 3450 8600 4900 injected zone in this area: Packer Setting Depth: 4137 Type of Packer: Baker AD-1 Grayburg/San Andres Tubing Size: 2 3/8" 2nd Bone Spring Seven Rivers ы. сi 4. S.



Affidavit of Publication

STATE OF NEW MEXICO

) ss.

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COUNTY OF LEA

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertisting Director of **THE LOVINGTON DAILY LEADER**, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

Legal Notice

was published in a regular and entire issue of THE LOV-

INGTON DAILY LEADER and not in any supplement there-

of, for <u>one (1) day</u>, beginning with the issue of

February 27 _____, 2005 and ending with the issue

of <u>February</u>, 2005.

And that the cost of publishing said notice is the sum of 17.83 which sum has been (Paid) as Court Costs.

Subscribed and sworn to before me this 4th day of March 2005.

Debbie Schilling

Notary Public, Lea County, New Mexico My Commission Expires June 22, 2006

LEGAL NOTICE **Conversion To** Water Injection Well Latigo Petroleum, 550 W. Texas, Fasken Tower II, Suite 700, Midland, Texas 79701. 915-684-4293, contact Joe N. Clement. has made application for a water injection well with the New Mexico Oil Conservation Commission. The well, known as the Central Corbin Queen Unit #202. is located 660' FSL and 1980' FWL., Sec. 4-T18S-R33E, Lea County, New Mexico. Disposal will be into the Queen zone through perforations from 4,207' - 4,226'. Maximum rate and pressure is anticipated to be 500 BWPD and 2000 PSI. Interested. parties must file objections or requests for hearing with the New Mexico Oĭ Conservation Commission, P.O. Box 2088, Santa Fel New Mexico 87504 within fifteen (15) days of this notice.

Published in the Lovington Daily Leader February 27, 2005



Central Corbin Queen Unit #207 660' FSL & 990' FEL Unit P, Sec. 4-T18S-R33E Lea County, New Mexico

Application for Authorization to Inject

- VI. Attached is a tabulation of all wells of public record that fall within the ½ mile radius of the proposed injection well, the Central Corbin Queen Unit #207. This investigation has further shown that all these wells have a good cement seal around their casing shoe and will therefore prevent the upward migration of the disposed water into any potable water zone. This project is part of a re-patterning of the existing Central Corbin Queen Unit waterflood, authorized under Order No. R-9337.
- VII. The proposed average daily injection rate for the subject well is 250 BWPD; the maximum daily injection rate would be 500 BWPD. This is an open system with an average pressure of 1600 and a maximum pressure of 2200 psi. Only produced water will be injected in the proposed well, so incompatibility will not be a problem.
- VIII. The injection zone is a Permian-age sand known as the Queen. The main zone is the upper part of the Queen, known locally as the Shattuck member. The top of the Queen in this well is at approximately 4,190', and is 48' thick. The zone is perforated from 4,203' 4,227'. The source of fresh water in this area comes from the Ogallala formation, the base of which is at approximately 350'. There are no known sources of drinking water underlying the injection interval.
- IX. After perforation, the well will be stimulated with 2000 gallons of 15% NEFE HCI and ball sealers.
- X. Log and test data is on file with the Division.
- XI. Attached is an analysis of the water from a water well located in Sec. 10; T-18-S; R-33-E; NW, SE; 1650 FSL & 330 FEL. This is the only well which could be located.
- XII. Latigo Petroleum has examined the available geologic and engineering data and can find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
- XIII. The required "Proof of Notice" is attached.

Side 1 INJ	INJECTION WELL DATA SHEET			
OPERATOR: Latigo Petroleum				
WELL NAME & NUMBER: Central Corbin Queen Unit #207				
WELL LOCATION: <u>660' FSL & 990' FEL</u> FOOTAGE LOCATION	P UNIT LETTER	4 SECTION	18S TOWNSHIP	33E RANGE
WELLBORE SCHEMATIC		WELL CONSTRU Surface Casing	WELL CONSTRUCTION DATA Surface Casing	<u>حر</u> ،
	Hole Size: <u>12 1/4"</u>		Casing Size: <u>8 5/8" 24</u> #	' 24#
	Cemented wtih: <u>300</u>	SX.	or	ft ³
	Top of Cement: <u>surface</u>	ice	Method Determined: Circulation	d: Circulation
		Intermediate Casing	te Casing	
	Hole Size:		Casing Size:	
	Cemented with:	SX.	or	ft ³
	Top of Cement:		Method Detemined:	
		Production Casing	n Casing	•
	Hole Size: <u>7 7/8"</u>		Casing Size: <u>5 1/2" 14#</u>	14#
	Cemented with: 1400	SX.	0r	
	Top of Cement: <u>surface</u>	ce	Method Determined: Circulation	I: Circulation
	Total Depth: 4530'			
		Injection Interval	Interval	
	4203	feet	to 4227	
	(P	eforated or Open Ho	(Peforated or Open Hole; indicated which)	

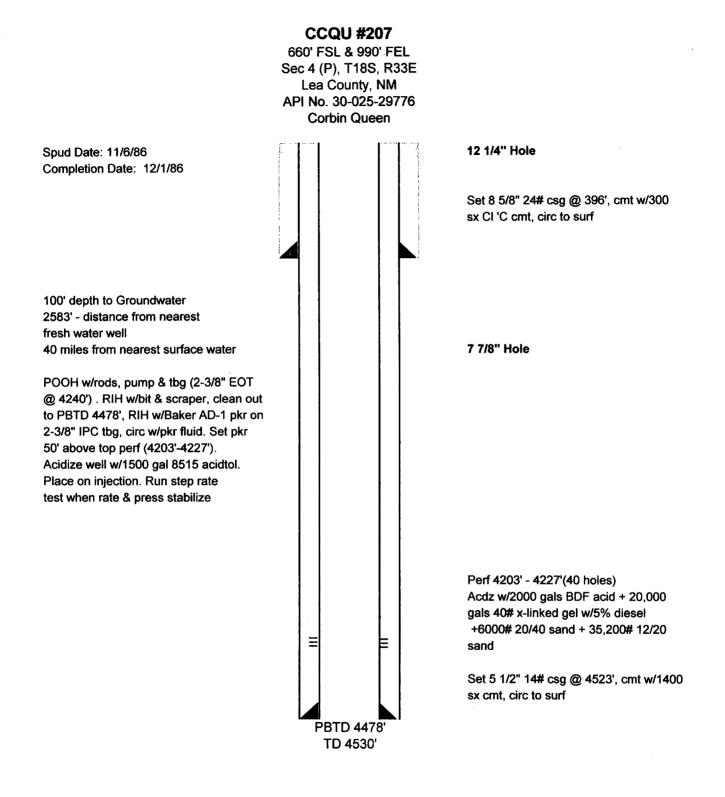
INJECTION WELL DATA SHEET

Tu	Tubing Size: 2 3/8"	Lin	Lining Material: IPC	PC
Tyj	Type of Packer <u>:Baker AD-1</u>			
Pa	Packer Setting Depth: 4153	3		
Of	her Type of Tubing/Cas	Other Type of Tubing/Casing Seal (if applicable): <u>N/A</u>	'A	
		Additional Data	l Data	
1.	1. Is This a new well drilled for injection?	lled for injection?	Ye	Yes X No
	If no, for what purpos	If no, for what purpose was the well originally drilled? <u>producer</u>	illed? <u>produce</u>	
2.	Name of the Injected Formation: <u>Queen</u>	formation: <u>Queen</u>		
ω	Name of Field or Pool	Name of Field or Pool (if applicable): <u>Corbin</u>		
4.	Has the well ever been intervals and give plu	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. <u>see wellbore diag</u>	ne(s)? List all ment or plug(s	such perforated s) used. <u>see wellbore diag</u> .
ŝ	Give the name and depths injected zone in this area:	Give the name and depths of any oil or gas zones underlying or overlying the proposed injected zone in this area:	underlying or	overlying the proposed
	Seven Rivers	3450	Abo	9050
	Grayburg/San Andres	4900	Wolfcamp	11,250

2nd Bone Spring

8600

Side 2



Affidavit of Publication

STATE OF NEW MEXICO

) ss.

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COUNTY OF LEA

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Joyce Clemens being first duly sworn on oath deposes and says that she is Advertisting Director of **THE LOVINGTON DAILY LEADER**, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

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INGTON DAILY LEADER and not in any supplement there-

of, for <u>one (1) day</u>, beginning with the issue of

February 27 , 2005 and ending with the issue

of<u>February</u>, 2005.

And that the cost of publishing said notice is the sum of <u>17.83</u> which sum has been (Paid) as Court Costs.

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Subscribed and sworn to before me this 4th day of March 2005.

Debbie Schilling

Notary Public, Lea County, New Mexico My Commission Expires June 22, 2006

LEGAL NOTICE Conversion To Water Injection Well Latigo Petroleum, 550 W. Texas, Fasken Tower II, Suite 700, Midland, Texas 79701, 2 915-684-4293, contact Joe N. Clement, has made application for a water injection well with the New Mexico Oil Conservation Commission. The well, known as the Central Corbin Queen Unit #207, is located 660' FSL and 990' FEL., Sec. 4-T18S-R33E, Lea County, New Mexico. Disposal will be into the Queen zone through perforations from 4,203' - 4,227'. Maximum rate and pressure is anticipated to be 500 BWPD and 2000 PSI. Interested parties must file objections or requests for hearing with the New Mexico OĬ Conservation Commission, P.O. Box 2088, Santa Fe, New Mexico 87504 within fifteen (15) days of this

Published in the Lovington Daily Leader February 27, 2005.

notice.

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3.3 T16S-R33E 8.6/8" @ 1528' 5.1/2" @ 5052' TD 5050' TD 5050' INJ ////////////////////////////////////								Sec. 4-T18S-R33E	Central Corbin
3.3118S-R33E 8.50° @ 1526' 5.1/2° @ 5052' TD 5050' Mail Mail Mail Mail Mail Mail Mail Mail		Z	4163'-4440'	PBTD 4928'	w/ 1500 sx cmt		w/ 350 sx cmt	2310' FNL & 2310' FEL	Spud 6/13/86
3.3718S-R33E 8.5/8" @ 1528' 5.12" @ 5052' TD 5050' 4219-4266' INJ 95L 8.330' FWL w/ 710 sx cmt 9512'' @ 5052' TD 5200' 1D 5200' 1D 5200' 1D 5200' 1D 5200' ID 5200' ID 5200' ID 5200' 1D 520' 100 520' 100 520' </td <td>7</td> <td></td> <td></td> <td>TD 5000'</td> <td>5 1/2" @ 4983'</td> <td></td> <td>8 5/8" @ 352'</td> <td>Unit G</td> <td>Queen Unit #214</td>	7			TD 5000'	5 1/2" @ 4983'		8 5/8" @ 352'	Unit G	Queen Unit #214
3.3-T13S-R33E 8.5/8" @ 1528' 122" TD 5050' W/ 10 5052' INJ 1.12" Unit M 8.300 FWL W/ 710 sx cmt 5.1/2" 9.502' TD 5200' W/ 800 sx cmt TD 5200' 12.1" @ 510"	•							Sec. 4-T18S-R33E	Central Corbin
3.3-T13S-R33E 8.5/8° @ 1528' 5.1/2° @ 5052' TD 5050' IUNI M 8.5/8° @ 1528' INJ IVIII V 9800 sx cmt PBTD 4278' 4219'.4266' INJ IVII IVIII V 10 sx cmt 9810 4278' 4219'.4266' INJ IVIII V IVIII V 10 sx cmt 9810 4278' 4219'.4266' INJ IVIII V IVIII V 10 sx cmt 9810 4278' 4219'.4266' INJ IVIII V IVIII V 10 sx cmt 9810 4278' 4219'.4266' INJ IVII V IVIII V IVIII V 10 sx cmt 9810 4278' 4219'.4266' INJ IVIII V IVIII V </td <td></td> <td>OIL</td> <td>4184'-4215'</td> <td>PBTD 4253'</td> <td>w/ 1650 sx cmt</td> <td></td> <td>w/ 300 sx cmt</td> <td>FSL & 2067' FEL</td> <td>Spud 12/5/85</td>		OIL	4184'-4215'	PBTD 4253'	w/ 1650 sx cmt		w/ 300 sx cmt	FSL & 2067' FEL	Spud 12/5/85
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' 4219'4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5020' TD 5200' TD 5200' INJ 1 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' TD 5200' INJ 1 8 5/8" @ 1554' 5 1/2" @ 4300' TD 530' 4224'-5128' OIL 1 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4202'-4233' INJ 1 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4202'-4233' INJ 1 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4202'-4233' INJ 1 8 5/8" @ 378' 5 1/2" @ 4325' TD 4325' 3029'-4120' squeezed INJ 1 8 5/8" @ 378' 5 1/2" @ 4325' TD 4325' 3029'-4120' squeezed INJ 1 8 5/8" @ 383' 5 1/2" @ 4280' TD 4325' 3029'-4120' squeezed INJ 1 8 5/8" @ 383' 5 1/2" @ 4280' TD 4325' 3029'-4120' squeezed INJ 1 9 5/8" @ 383' 5 1/2" @ 4280' TD 4235' 4118'-4232' INJ 1 9 5/8" @ 383'	7			TD 4300'	5 1/2" @ 4300'				Queen Unit #206
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' 4219-4266' INJ 8 5/8" @ 1554' w/ 800 sx cmt PBTD 4278' 4219-4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' TD 5200' 4219-4266' INJ 8 5/8" @ 1554' w/ 350 sx cmt PBTD 4278' 4219-4266' INJ ////////////////////////////////////	N							2. 4-T18S-R3	Central Corbin
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' 4219'-4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' TD 5200' H219'-4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' TD 5200' H219'-4266' INJ ////////////////////////////////////		Z	4188'-4206'	PBTD 4235'	w/ 1150 sx cmt		w/ 300 sx cmt	1980' FSL & 1980' FWL	Spud 10/18/85
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' 4219'.4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' TD 5200' 4221'.4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' TD 5200' 4224'.5128' OIL ////////////////////////////////////	7		4174'-4180'	TD 4280'	5 1/2" @ 4280'		8 5/8" @ 383'	Unit K	Queen Unit #205
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' 4219'-4266' INJ w/ 710 sx cmt 5 1/2" @ 5200' TD 5200' TD 5200' NJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' TD 5200' V/ 200' NJ 8 5/8" @ 388' 5 1/2" @ 4300' TD 5200' V/ 350' 4224'-5128' OL 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4221'-4241' NJ 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4221'-4241' NJ 8 5/8" @ 378' w/ 350 sx cmt PBTD 4256' 4202'-4233' INJ 8 5/8" @ 378' w/ 250 sx cmt S 1/2" @ 4325' TD 4325' 4207'-4226' INJ 8 5/8" @ 378' w/ 1300 sx cmt PBTD 4256' 4207'-4226' INJ w/ 250 sx cmt \$ 1/2" @ 4325' ID 4325' 3029'-4120' squeezed INJ w/ 250 sx cmt w/ 1300 sx cmt PBTD 4279' <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Sec. 4-T18S-R33E</td><td>Central Corbin</td></t<>								Sec. 4-T18S-R33E	Central Corbin
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' 4219'-4266' INJ w//710 sx cmt 5 1/2" @ 5200' TD 5200' 4219'-4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' 4224'-5128' OIL w//710 sx cmt 5 1/2" @ 4300' TD 4300' 4221'-4241' INJ w//350 sx cmt 5 1/2" @ 4300' TD 4300' 4202'-4233' INJ 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4202'-4233' INJ (8 5/8" @ 378' 5 1/2" @ 4320' TD 4300' 4207'-4226' INJ (8 5/8" @ 378' 5 1/2" @ 4325' TD 4325' 3029'-4120' squeezed ((N	4118'-4232'	PBTD 4279'	w/ 1300 sx cmt		w/ 250 sx cmt	660' FSL & 660' FWL	Spud 10/11/85
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' 4219'-4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' 1219'-4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' 4219'-4266' INJ 8 5/8" @ 388' 5 1/2" @ 4300' TD 4300' 4224'-5128' OIL 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4221'-4241' INJ 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4207'-4226' INJ %/ 350 sx cmt 5 1/2" @ 4300' TD 4300' 4207'-4226' INJ %/ 350 sx cmt 5 1/2" @ 4300' TD 4300' 4207'-4226' INJ	7		3029'-4120' squeezed	TD 4325'	5 1/2" @ 4325'		8 5/8" @ 378'	Unit M	Queen Unit #203
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' 4219'-4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' TD 5200' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' 4219'-4266' INJ 8 5/8" @ 388' 5 1/2" @ 5200' TD 5200' 4224'-5128' OIL 8 5/8" @ 388' 5 1/2" @ 4300' TD 4300' 4221'-4241' INJ 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4202'-4233' INJ 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4207'-4226' INJ %/ 350 sx cmt 5 1/2" @ 4300' TD 4300' 4207'-4226' INJ %/ 350 sx cmt 5 1/2" @ 4300' TD 4300' 4207'-4226' INJ	١		4243'-4247'					Sec. 4-T18S-R33E	Central Corbin
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' 4219'-4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' 4219'-4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' 4219'-4266' INJ 8 5/8" @ 388' 5 1/2" @ 4300' TD 5200' 4224'-5128' OLL 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4221'-4241' INJ 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4202'-4233' INJ 8 5/8" @ 394' 5 1/2" @ 4300' TD 4300' 4202'-4233' INJ		Z	4207'-4226'	PBTD 4256'	w/ 1250 sx cmt		w/ 350 sx cmt	660' FSL & 1980' FWL	Spud 9/19/85
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' W/ 710 sx cmt S 1/2" @ 5052' TD 5050' W/ 710 sx cmt S 1/2" @ 5200' PBTD 4278' 4219'-4266' INJ 8 5/8" @ 1554' S 1/2" @ 5200' TD 5200' TD 5200' INJ W/ 710 sx cmt S 1/2" @ 5200' TD 5200' 4219'-4266' INJ %/ 710 sx cmt S 1/2" @ 5200' TD 5200' 4224'-5128' OIL (%/ 350 sx cmt S 1/2" @ 4300' TD 4300' 4224'-5128' OIL (%/ 350 sx cmt S 1/2" @ 4300' TD 4300' 4221'-4241' ((%/ 350 sx cmt S 1/2" @ 4300' TD 4300' 4202'-4233' INJ (7	OIL convert to		TD 4300'	5 1/2" @ 4300'		8 5/8" @ 394'	Unit N	Queen Unit #202
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' 4219'-4266' INJ 8 5/8" @ 1528' 5 1/2" @ 5200' PBTD 4278' 4219'-4266' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' V/ 350 sx cmt PBTD 4350' 4224'-5128' OLL 8 5/8" @ 388' 5 1/2" @ 4300' 5 1/2" @ 4300' TD 4300' 4221'-4241' V/ 250 sx cmt V/ 1250 sx cmt PBTD 4256' 4202'-4233' INJ	×							Sec. 4-T18S-R33E	Central Corbin
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' w/ 710 sx cmt 5 1/2" @ 5052' TD 5050' 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' w/ 710 sx cmt 5 1/2" @ 5200' TD 5200' w/ 710 sx cmt 5 1/2" @ 5200' TD 5200' 8 5/8" @ 388' 5 1/2" @ 4300' TD 4300' 4221'-4241' 5 1/2" @ 4300'		Z	4202'-4233'	PBTD 4256'	w/ 1250 sx cmt		w/ 350 sx cmt	660' FSL & 1980' FEL	Spud 9/27/85
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' w/ 710 sx cmt 5 1/2" @ 5052' TD 5050' 8 5/8" @ 1554' w/ 800 sx cmt PBTD 4278' 4219'-4266'' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' TD 5200' INJ w/ 710 sx cmt 5 1/2" @ 5200' TD 5200' 4219'-4266'' INJ	7		4221'-4241'	TD 4300'	5 1/2" @ 4300'		8 5/8" @ 388'	Unit O	Queen Unit #201
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' w/ 710 sx cmt 5 1/2" @ 5052' TD 5050' 8 5/8" @ 1554' w/ 800 sx cmt PBTD 4278' 4219'-4266'' INJ 8 5/8" @ 1554' 5 1/2" @ 5200' TD 5200' TD 5200' INJ w/ 710 sx cmt 5 1/2" @ 5200' TD 5200' 4224'-5128' OIL	- \							Sec. 4-T18S-R33E	Central Corbin
8 5/8" @ 1528' w/ 710 sx cmt 5 1/2" @ 5052' TD 5050' w/ 800 sx cmt PBTD 4278' 4219'-4266' INJ 5 1/2" @ 5200' TD 5200'		OL	4224'-5128'	PBTD 4350'	w/ 350 sx cmt		w/ 710 sx cmt	1650' FSL & 330' FWL	Spud 7/7/85
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' w/ 710 sx cmt w/ 800 sx cmt PBTD 4278' 4219'-4266' INJ	7			TD 5200'	5 1/2" @ 5200'		8 5/8" @ 1554'	Unit L	Queen Unit #602
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050' w/ 710 sx cmt w/ 800 sx cmt PBTD 4278' 4219'-4266' INJ	\							Sec. 3-T18S-R33E	Central Corbin
8 5/8" @ 1528' 5 1/2" @ 5052' TD 5050'		IN	4219'-4266'	PBTD 4278'	w/ 800 sx cmt		w/ 710 sx cmt	330' FSL & 330' FWL	Spud 6/12/86
	7			TD 5050'	5 1/2" @ 5052'		8 5/8" @ 1528'	Unit M	Queen Unit #601
								Sec. 3-T18S-R33E	Central Corbin
Surface Casing Inter. Casing Prod. Casing TD Completions Type	P&A	Туре	Completions	ē	Prod. Casing	Inter. Casing	Surface Casing	Location	Well

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	Ouse	I WEIIS TO THE	Central Corp	Unset weils to the Central Corbin Queen Unit	# IUI,	#102, #202 Q	#201	
Well	Location	Surface Casing	Inter. Casing	Prod. Casing	5	Completions	Туре	P&A
Federal AE	Sec. 4-T18S-R33E						\langle	
#014	Unit M	13 3/8" @ 415'	8 5/8" @ 3006'	5 1/2" @ 12,000'			,	P&A'd
Spud 6/1/96	660' FSL & 510' FWL	w/ 450 sx cmt	w/ 1000 sx cmt	w/ 1450 sx cmt	TD 12,000'	11,281'-11,324'	0F	API 30-025-33366
Federal AE	Sec. 4-T18S-R33E							~
#015	Unit P							~
Spud N/A	760' FSL & 550' FEL							API 30-025-33520 Never drilled
PRE-ONGARD	Sec. 9-T18S-R33E							Corbin #006 API 30-025-01592
WELL #006	Unit P	-						z
Spud N/A	660' FSL & 660' FEL							AVAILABLE
Federal AH	Sec. 9-T18S-R33E							
# 004	Unit J	12 3/4" @ 275'	8 5/8" @ 1539'	5 1/2" @ 4324'	TD 4324	3535'-3560'	<	
Spud 5/15/45	1980' FSL & 1980' FEL	w/150 sx cmt	w/ 625 sx cmt	w/ 215 sx cmt	PBTD 3520'	3468'-3488'	0	
Federal AH	Sec. 9-T18S-R33E							
# 005	Unit I	7" @ 1530'		5 1/2" @ 3417'	TD 4305'	4262'-4294'	5	
Spud 9/18/51	2310' FSL & 330' FEL	w/ 50 sx cmt		w/ 50 sx cmt	PBTD 3464'	3417'-3464'	₽	_
PRE-ONGARD	Sec. 9-T18S-R33E						1	
WELL #002	Unit I	10 3/4 @ 264'		5 1/2" @ 4228'		Open hole 4228'-		P&A'd Corbin #002
Spud 8/6/40	1980' FSL & 660' FEL	w/ 150 sx cmt circ.		w/ 528 sx cmt.	TD 4350'	4350'		API 30-025-01595
Central Corbin	Sec. 9-T18S-R33E						£	
Queen Unit #101	Unit B	13 3/8" @ 430'	9 5/8" @ 5100'	5 1/2" @ 13,825'	TD 13,825'		OIL convert to	
Spud 10/31/84	990' FNL & 1980 FEL	w/ 420 sx cmt	w/ 3300 sx cmt	w/ 3100 sx cmt	PBTD 4850'	4228'-4238'	ĨŻ	
Central Corbin	Sec. 9-T18S-R33E						5	
Queen Unit #102	Unit H	8 5/8" @ 380'		5 1/2" @ 4366'	TD 4375'		OIL convert to	
Spud 6/15/85	1980' FNL & 430' FEL	w/ 300 sx cmt		w/ 1550 sx cmt	PBTD 4339'	4270'-4282'	INJ	
Central Corbin	Sec. 9-T18S-R33E							
Queen Unit #401	Unit C	8 5/8" @ 369'		5 1/2" @ 4310'	TD 4310'		7	
Spud 7/1/85	660' FNL & 1980' FWL	w/ 350 sx cmt		w/ 1150 sx cmt	PBTD 4256'	4206'-4232'	INJ	
PRE-ONGARD	Sec. 9-T18S-R33E						1	
WELL #003	Unit A							Federal AE #7
Spud N/A	660' FNL & 660' FEL							API 30-025-29301 Never drilled
Central Corbin	Sec. 9-T18S-R33E							
Queen Unit #402	Unit D	8 5/8" @ 363'		5 1/2" @ 4320'	TD 4320'		2	
Spud 10/4/85	660' FNL & 660' FWL	w/ 350 sx cmt		w/ 1250 sx cmt	PBTD 4276'	4220'-4255'	0 F	
Central Corbin	Sec. 9-T18S-R33E						2	
Queen Unit #403	Unit F	-8 5/8" @ 362'		5 1/2" @ 4319'	TD 4320'			
Could 10/03/85	1980' ENI & 1980' EWI	w/ 300 sx cmt		w/ 1450 sx cmt	PBTD 4276	4245'-4253'		

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Well	Location	Surface Casing	Inter. Casing	Prod. Casing	TD	Completions	Type	P&A	
Central Corbin	Sec. 9-T18S-R33E								
Queen Unit #103		8 5/8" @ 360'		5 1/2" @ 4350'	TD 4350'				
Spud 8/19/86	1980' FI	w/ 400 sx cmt		w/ 1400 sx cmt	PBTD 4314'	4236'-4262'	INI		
Central Corbin	Sec. 9-T18S-R33E						1		
Queen Unit #404		8 5/8" @ 351'		5 1/2" @ 4350'	TD 4350'	4258'-4271'	•		
Spud 9/10/86	1980' Fs	w/ 300 sx cmt		w/ 1400 sx cmt	PBTD 4287'	4250'-4252'	N		
Central Corbin	Sec. 9-T18S-R33E						5		
Queen Unit #104		8 5/8" @ 375'		5 1/2" @ 4325'	TD 4325'	4213'-4242'			
Spud 9/19/86	660' FI	w/ 300 sx cmt		w/ 1400 sx cmt	PBTD 4312'	4244'-4254'	Ĩ		
Central Corbin	Sec. 9-T18S-R33E						٢		
Queen Unit #105		8 5/8" @ 380'		5 1/2" @ 4400'	TD 4401'				
Spud 5/16/87	2310' FSL & 2310' FEL	w/ 250 sx cmt		w/ 850 sx cmt	PBTD 4400'	4274'-4294'		TA'D CIBF	CIBP @ 4199'
Kachina 9 Federal	II Sec. 9-T18S-R33E								
#001	Unit C	13 3/8" @ 468'	8 5/8" @ 4347'	5 1/2" @ 11,625'			7	API 30-025-31787	31787
Spud	740' FNL & 1730' FWL	w/ 500 sx cmt. Circ.	w/1700 sx cmt	w/ 700 sx cmt.	TD 11,625'			PA'D	
Fe	Sec. 9-T18S-R33E								
#005	Unit A	13 3/8" @ 409'	8 5/8" @ 3015'	5 1/2" @ 12,000'	TD 12,000'				
, ⁰⁰ , ら Spud 7/29/96	660' FNL & 510' FEL	w/ 425 sx cmt	w/ 1050 sx cmt	w/ 1550 sx cmt	PBTD 11,837	11,261'-11,293'	₽		
_	Sec. 9-T18S-R33E		i				٢		
0			8 5/8" @ 411'	5 1/2" @ 4375'	TD 4395'				
Spud 10/18/04	150' FNL & 2480' FWL	14" Conductor @ 40'	w/ 300 sx cmt	w/ 1255 sx cmt	PBTD 4343'	4212'-4232'	₽		
Central Corbin	Sec. 9-T18S-R33E						5		
Queen Unit #107	Unit H		8 5/8" @ 411'	5 1/2" @ 4332'	TD 4332'		ſ		
Spud 9/22/04	1400' FSL & 1307' FEL	14" Conductor @ 40'	w/ 234 sx cmt	w/ 1815 sx cmt	PBTD 4266'	4212'-4259'	₽		
Central Corbin	Sec. 9-T18S-R33E						5		
Queen Unit #106	Unit A		8 5/8" @ 430'	5 1/2" @ 4310'	TD 4310'				
Spud 10/5/04	200' FNL & 1300' FEL	14" Conductor @ 40'	w/ 324 sx cmt	w/ 1650 sx cmt	PBTD 4266'	4206'-4220'	₽		
CORBIN WELL	Sec. 10-T18S-R33E			,			5		
#003	Unit F	10 3/4" @ 295'		5 1/2" @ 4203'		3405'-3456'	(Corbin #003 API 3	API 30-025-01597
Spud 4/31/41	1980' FNL & 1980' FWL	w/ 150 sx cmt		w/ 528 sx cmt	TD 4327'	4203'-4327'		PA'D	
CORBIN WELL	Sec. 10-T18S-R33E						۲		,
4007 #001	Unit L	13" @ 300'	9 5/8" @ 1818'	7" @ 4021'				Corbin #001 API 3	API 30-025-01598
Child10/08/27	1980' FSI & 660' FWI	w/ 275 sx cmt	w/ 350 sx cmt	w/ 100 sx cmt	TD 5112'	4258'-4315'		PA'D	

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Well	Offs	et wells to the Surface Casing	Central Corb	oin Queen Un Prod. Casing	it #101, #	Offset wells to the Central Corbin Queen Unit #101, #102, #202 & #207 Surface Casing Inter. Casing Prod. Casing TD Completions Ty	#207 ^{Туре}	P&A
Cockburn G Federal	Sec. 10-T18S-R33E							
#001	Unit L	13 3/8" @ 445'	8 5/8" @ 3189	5 1/2" @ 9599'	TD 9599'	9002'-9599'		
Spud 11/12/89	1650' FSL & 940' FWL	w/ 500 sx cmt	w/ 1100 sx cmt	w/ 1850 sx cmt	PBTD 9599'	5214'-5239' Sqz	٩	
Cockburn G							\	
Federal	Sec. 10-T18S-R33E						(
#003	Unit K							
Spud	1980' FSL & 1780' FWL							

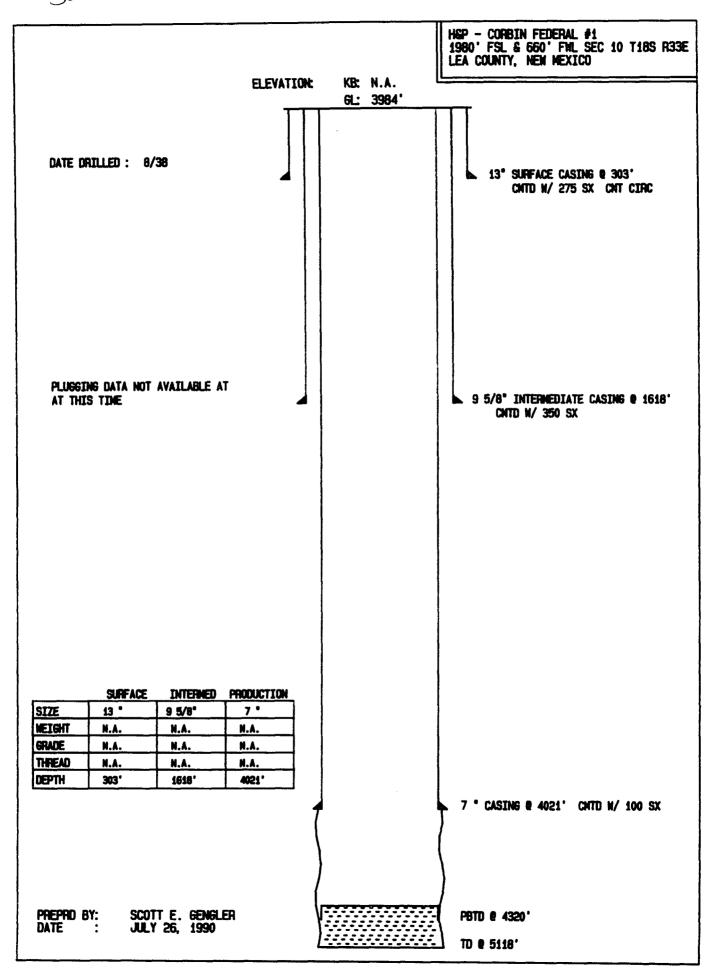
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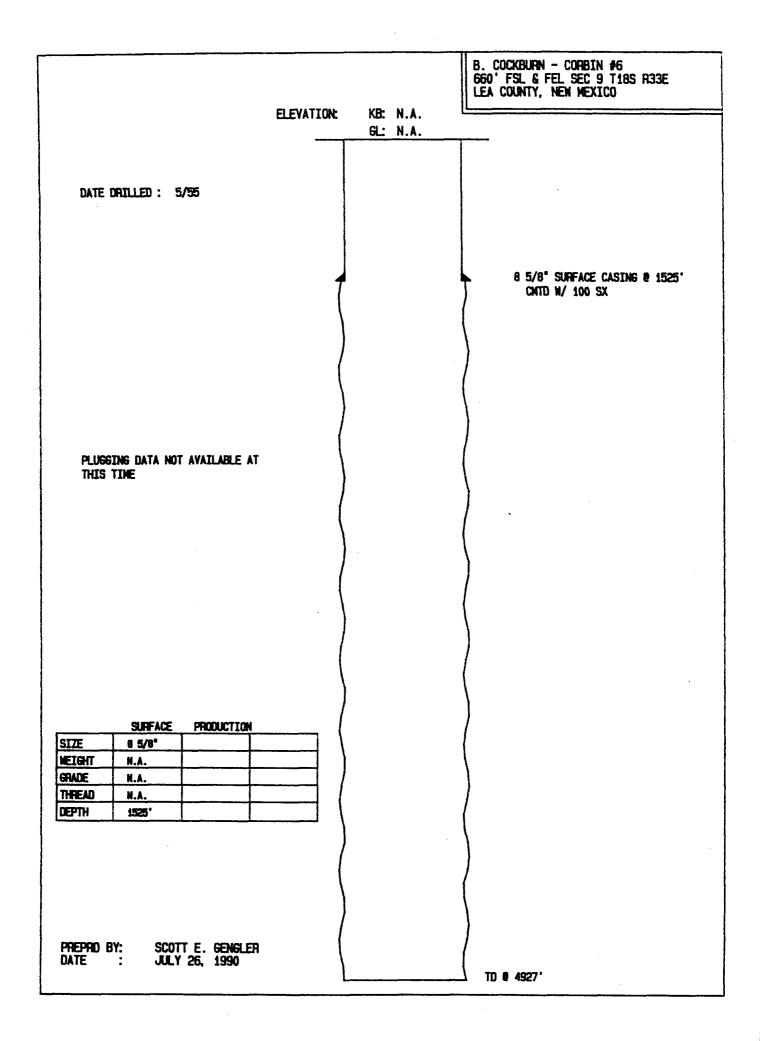
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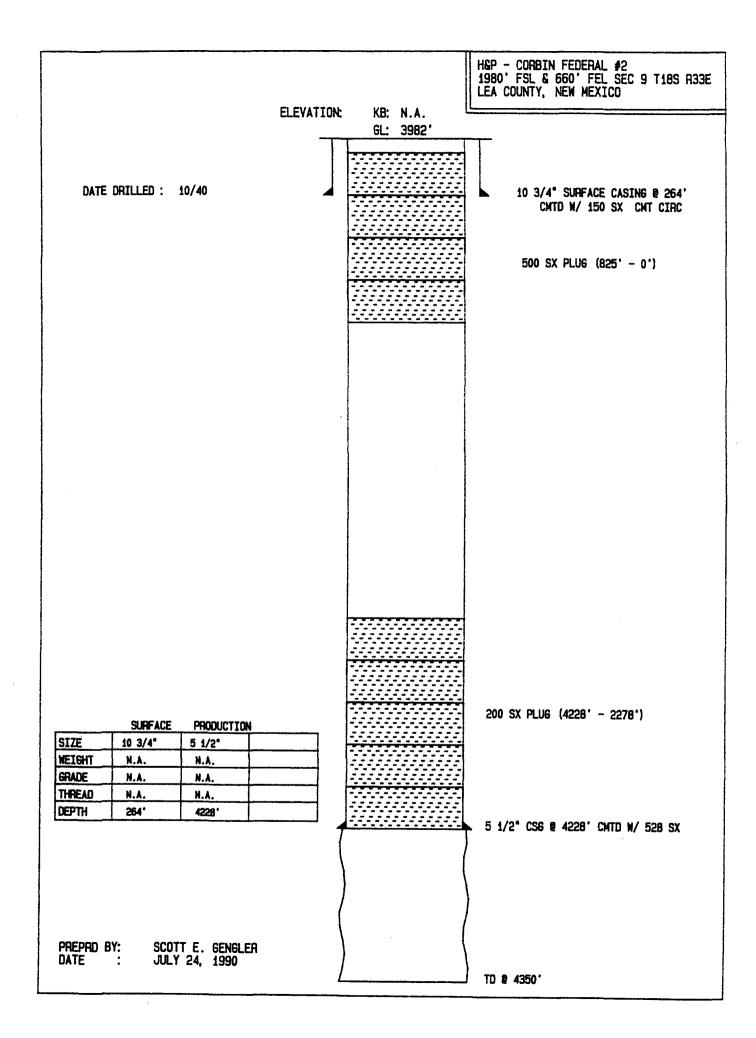
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Federal AE #14

660' FSL & 510' FWL Sec 4, T18S, R33E Unit M Lea County, NM API No. 30-025-33366

17 1/2" Hole

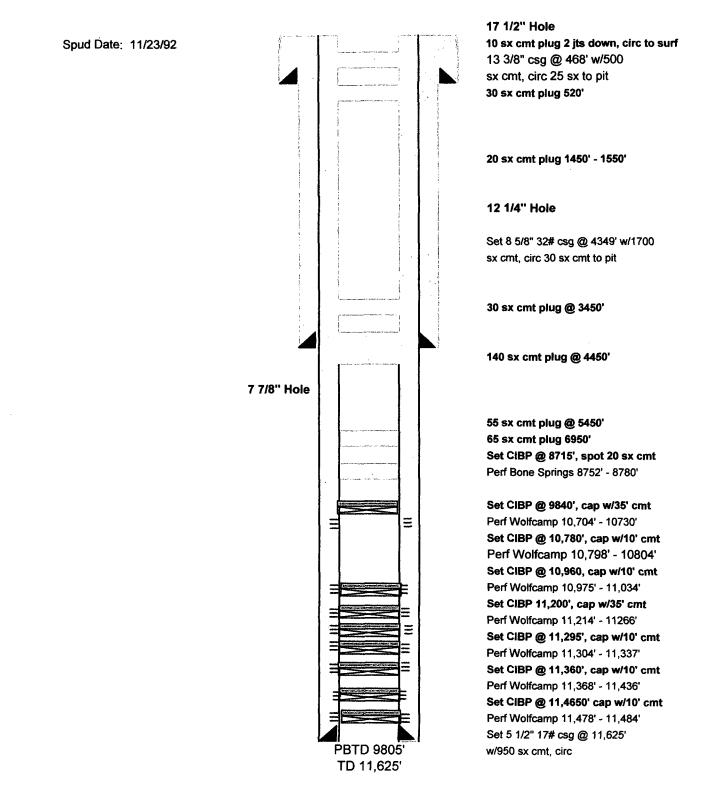
10 sx cmt plug 0' - 90' Spud Date: 6/2/96 13 3/8" 48# csg @ 415' w/450 sx cmt, circ 50 sx to pit 20 sx cmt plug 365' - 465' 20 sx cmt plug 1450' - 1550' 12 1/4" Hole Set 8 5/8" 24 & 32# csg @ 3006' w/1000 sx cmt, circ 60 sx cmt to pit 25 sx cmt plug 2956' - 3150' 20 sx cmt plug 4170' - 4270' 7 7/8" Hole 20 sx cmt plug 4650' - 4750' 20 sx cmt plug 5221' - 5321' 20 sx cmt plut 5721' - 5821' 35 sx cmt plug 6660' - 6906' Ξ Perf Bone Springs 6710' - 6906' 20 sx cmt plug 9780' - 9880' Set CIBP @ 10,697', dump 5 sx cmt on top Perf Wolfcamp 10737' - 10914' Set CIBP @ 11,250' dump 5 sx cmt on top Perf Wolfcamp 11281' - 11324' Set 5 1/2" 17 & 20# csg @ 12,000' w/1450 sx cmt, circ 75 sx cmt to pit TD 12,000'

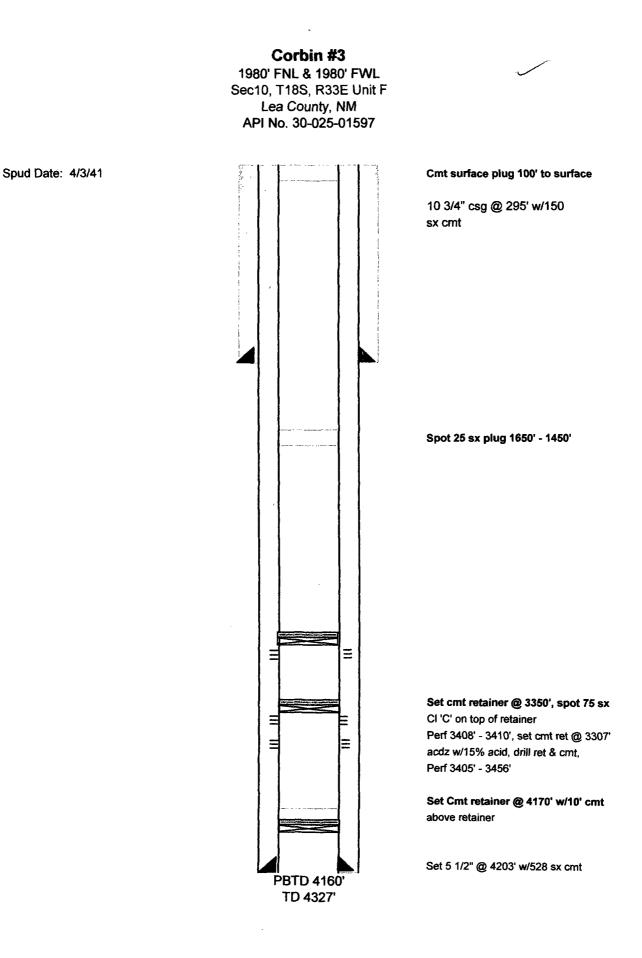


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Kachina 9 Federal #1

740' FNL & 1730' FWL Sec9, T18S, R33E Unit C Lea County, NM API No. 30-025-31787





OMEGA TREATING CHEMICALS, INC. 2605 GARDEN CITY HYW. MIDLAND, TEXAS 79701

WATER ANALYSIS REPORT

COMPANY NAME: LATIGO	COMPANY	NAME :	LATIGO
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LEASE NAME: CQU INJECTION STATION

WELL#\SAMPLE POINT:

1.	WELLHEAD pH	7.36	
2.	H2S (QUALITATIVE)	0.00	PPM
3.	CALCIUM (Ca)	2520.00	Mg/L
4.	MAGNESIUM (Mg)	3013.20	Mg/L
5.	IRON (Fe)	5.43	PPM
6.	SODIUM	59723.23	Mg/L
7.	CHLORIDE (C1)	103660.00	Mg/L
8.	BICARBONATE (HCO3)	244.00	Mg/L
9.	SULFATE (SO4)	2191.0	Mg/L
10.	TOTAL HARDNESS	18700.00	Mg/L
11.	TOTAL DISSOLVED SOLIDS	171356.86	Mg/L
12.	RESISTIVITY	0.04	
13.	CARBONATE SCALING TENDENCY	0.91	
14.	SULFATE SCALING TENDENCY	-33.80	
	BOPD BWPD		
	REMARKS:	·	
	COPIES TO:	·	

OMEGA TREATING CHEMICALS, INC. 2605 GARDEN CITY HYW. MIDLAND, TEXAS 79701

WATER ANALYSIS REPORT

COMPANY NAME: LA	TIGO
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LEASE NAME: 3C WATER STATION

WELL#\SAMPLE POINT:

1.	WELLHEAD pH	7.71	
2.	H2S (QUALITATIVE)	0.00	PPM
3.	CALCIUM (Ca)	640.00	Mg/L
4.	MAGNESIUM (Mg)	340.20	Mg/L
5.	IRON (Fe)	0.54	PPM
6.	SODIUM	615.49	Mg/L
7.	CHLORIDE (Cl)	1420.00	Mg/L
8.	BICARBONATE (HCO3)	61.00	Mg/L
9.	SULFATE (SO4)	5.6	Mg/L
10.	TOTAL HARDNESS	3000.00	Mg/L
11.	TOTAL DISSOLVED SOLIDS	3082.83	Mg/L
12.	RESISTIVITY	1.41	
13.	CARBONATE SCALING TENDENCY	0.62	
14.	SULFATE SCALING TENDENCY	23.43	
	BOPD BWPD	_	
	REMARKS:		
	COPIES TO:		



Fasken Center Tower II • 550 W. Texas, Suite 700 • Midland, Texas 79701 • 432-684-4293 • 432-684-0829 FAX

March 4, 2005

Tipton Oil & Gas Acquisitions, Inc. P. O. Box 1234 Lovington, NM 88260

Re: Intent to convert production well to injection CCQU # 101, #102, #202 & #207

To Whom It May Concern:

The New Mexico Oil Conservation Division requires that all surface owners and leasehold operators, within a one-half mile radius, of the proposed injection well location be sent copies of the Application for Authority to Inject. Attached you will find copies of applications, Form C-108, that are being filed with the New Mexico Oil Conservation Division. Latigo Petroleum proposes to convert the four wells shown above, originally drilled for production purposes, to injection wells.

Very truly yours,

Donne Huddeston

Donna Huddleston Production Analyst

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Fasken Center Tower II • 550 W. Texas, Suite 700 • Midland, Texas 79701 • 432-684-4293 • 432-684-0829 FAX

March 4, 2005

Caviness Cattle Company HC-71, Box 177 Maljmar, NM 88260

Re: Intent to convert production well to injection CCQU # 101, #102, #202 & #207

To Whom It May Concern:

The New Mexico Oil Conservation Division requires that all surface owners and leasehold operators, within a one-half mile radius, of the proposed injection well location be sent copies of the Application for Authority to Inject. Attached you will find copies of applications, Form C-108, that are being filed with the New Mexico Oil Conservation Division. Latigo Petroleum proposes to convert the four wells shown above, originally drilled for production purposes, to injection wells.

Very truly yours,

Donna Huddleston Production Analyst

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	Print your name and address on the reverse so that we can return the card to you.		
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	or on the front if space permits.	D. Is delivery address different from ite	em 1? 🛛 Yes
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Fasken Center Tower II • 550 W. Texas, Suite 700 • Midland, Texas 79701 • 432-684-4293 • 432-684-0829 FAX

March 4, 2005

Devon Louisiana Corporation 20 North Broadway, Ste 1500 Oklahoma City, OK 73102

Re: Intent to convert production well to injection CCQU # 101, #102, #202 & #207

To Whom It May Concern:

The New Mexico Oil Conservation Division requires that all surface owners and leasehold operators, within a one-half mile radius, of the proposed injection well location be sent copies of the Application for Authority to Inject. Attached you will find copies of applications, Form C-108, that are being filed with the New Mexico Oil Conservation Division. Latigo Petroleum proposes to convert the four wells shown above, originally drilled for production purposes, to injection wells.

Very truly yours,

Huddlesta

Donna Huddleston Production Analyst

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
 Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. Article Addressed to: 	A. Signature
	B. Received by (Printed Name) C. Date of Delivery D. Is delivery address different from item 1? Yes if YES, enter delivery address below: No
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see Reverse for Instructions Oklahoma City, OK 13105 Street, Apr. No. 20 North Broadway, 00či st2 Devon Louisiana Corporation Devon Louisiana Corporation 2002 \$ 2007 Sotage & Fees 3720 3120 Restricted Delivery Fee (Endorsement Required) Return Reciept Fee (Endorsement Required) 2000 0005 юн nunso eef beitteO Postage 1486 1486 \$ S #* ** _ -Ο Q lelivery information visit our @woo.sqsu.www 8238 9239 ERTIFIED MAIL^{TIM} RECEIPT ia) Э U.S. Postal Service.