STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

PKRV0202433936

OIL CONSERVATION DIVISION 2040 SOUTH PACHECO SANTA FE, NEW MEXICO 87505 5WD 2/6/02 FORM C-108 Revised 4-1-98

JAN 2 2 APPLICATION FOR AUTHORIZATION TO INJECT

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I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR: HRC, Inc.
	ADDRESS: P.C. Box 5102 Hobbs, MM 88241
	CONTACT PARTY: Gary M. Schubert PHONE: (505)397-2725
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? Yes X No If yes, give the Division order number authorizing the project:
V.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 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: 3ddie . Seay TITLE: Agent
	SIGNATURE: DATE: 1/14/2002
*	If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

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

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 of 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, 2040 South Pacheco, Santa Fe, New Mexico 87505, within 15 days.

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

OPERATOR: Had Inc.		
WELL NAME & NUMBER: Goodwin State 31 (38)	(30 025-34593)	
WELL LOCATION:350/N 350/N	Q	6 19.5. 37 €.
OTAGE LOCATION	UNIT LETTER SE	SECTION TOWNSHIP RANGE
WELL BORE SCHEMATIC	WEI	WELL CONSTRUCTION DATA Surface Casing
conson HRC Inc. Coodwin Slate meetin warrow, if D. S. + 6 T. 195 P. 376	Hole Size: 12 1/4"	Casing Size: 8 5/8" to 16181
777777 H77777	Cemented with: 790	sx. orft³
	Top of Cement: Surface	Method Determined: circulated
		Intermediate Casing
	Hole Size:	Casing Size:
•	Cemented with:	SX. or ft3
Hole size 124 " coment circulated	Top of Cement:	Method Determined:
		Production Casing
	Hole Size: 7 7/8"	Casing Size: 5 1/2"
	Cemented with: 400	sx. orft³
	Top of Cement: 2800	Method Determined: calculated
	Total Depth: 75101	
st 7336 " with 400		Injection Interval
iotal Depth 1510 Hole size 78 Calaff to 2800	48901	feet to 4920'
open that 7234 t 7510	(Perforat	(Perforated of Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 3 1/3" Lining Material: Plastic coated	Type of Packer: Daker Fodel D Packer Setting Depth: 4850'	Other Type of Tubing/Casing Seal (if applicable): Wone	Additional Data	Is this a new well drilled for injection? YesYesNo If no, for what purpose was the well originally drilled? Oil & Sas Froduction	Name of the Injection Formation: San indres	Name of Field or Pool (if applicable): Goodwin	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. Yes Tested Abo 7236'-7510' Set CIMP @ 7100'; Uninkand Ferfs 6676'-6892'	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Next higher zone - Nueen at 3650!	Wext lower zone - Slinebry at 6210'
Tubing	Type of Packer	Other T		_;	2.	3.	4.	·S	•

Attachment to Application C-108

Goodwin State #1 Uni: D, Section 6, Tws. 19 S., Rng. 37 E. Lea Co., NM

III. Well Data

- A.1) See injection well data sheet.
 - 2) See injection well data sheet.
 - 3) 3 1/2" plastic coated tubing.
 - 4) Baker Model "D" Packer.
- B.1) Injection formation San Andres.
 - 2) Injection Interval 4890' to 4920'.
 - 3) Original purpose of the well was production.
 - 4) Tested Abo & Drinkard.
 - 5) Next higher zone Queen at 3650'. Next lower zone - Blinebry at 6210'.
- IV. No
- V. Attached
- VI. Attached list of wells and data
- VII. Proposed operations
 - 1) 1000 lbs. per day of produced water.
 - 2) Open system.
 - 3) Average pressure is 500#, maximum pressure of 750#.
 - 4) Attached.
 - 5) Normal San Andres formation fluids.
- VIII. The injection zone is the San Andres formation which is a calcarious limestone rock, the formation is approximately 100 ft. thick with the tip of the San Andres at 4500' and the base at approximately 5500' below surface.

The drinking water for this area is the Ogallala Aquifer which occurs at a depth of from 60 ft. to 200 ft. below the surface of the ground.

- IX. The only stimulation that should be required is acid as needed.
- X. Previously submitted.

XI. Water analysis attached.

XII. I, Eddie W. Seay, 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 pertaining to this well.

Signature

1/14/2002

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Offset Well Information

Chevron, Indiana "1" Well #2

Hole	Casing	Depth	Cement	
12 1/4"	8 5/8"	1593'	790 sx	circulated
7 7/8"	5 1/2"	7205'	1285 sx	TOC 1330'

Chevron, Monument 36 State Well #3

Hole	Casing	Depth	<u>Cement</u>	
12 1/4"	11 3/4"	431'	400 sx	circulated
11"	8 5/8"	2810'	900 sx	circulated
7 7/8"	5 1/2"	7249'	800 sx	TOC 2600'

Chevron, Monument 36 State Well #2

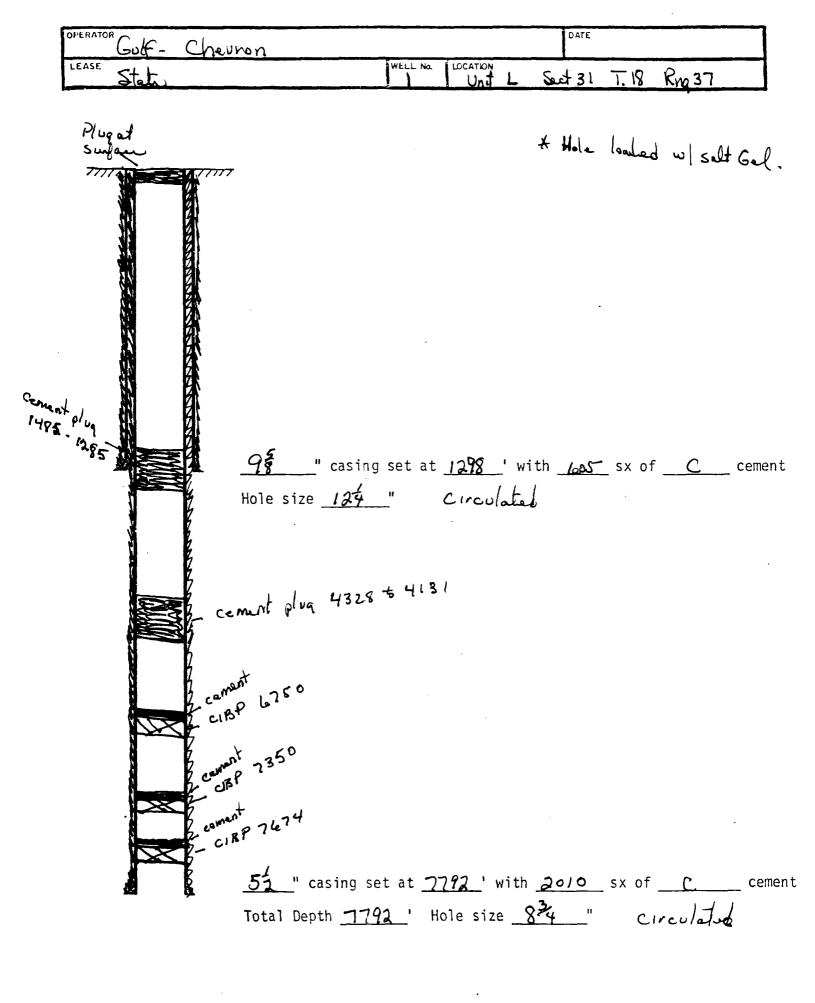
Hole	Casing	Depth	Cement	
11"	8 5/8"	1515'	465 sx	circulated
7 7/8"	5 1/2"	7251'	1470 sx	TOC 820'

Chevron, Monument 36 State Well #1

<u>Hole</u>	Casing	Depth	Cement	
14 3/4"	11 3/4"	425'	300 sx	circulated
11"	8 5/8"	2852'	900 sx	circulated
7 7/8"	5 1/2"	7283'	710 sx	TOC 2250'

Sahara Operating Co., Indiana "1" Well #1

Hole	Casing	Depth	Cement	
12 1/4"	8 5/8"	1550'	800 sx	circulated
7 7/8"	5 1/2"1	7480'	1530 sx	circulated



OPERATOR HRC Inc		Drilled 1999
LEASE Goodwin Statu	WELL NO. LOCATION Unil D	S.+ 6 T. 195 R. 37E

85 " casing set at 1618 ' with 790 sx of C cement
Hole size 124 " cement circulated

Total Depth 7510 'Hole size 78 " Calculated top 2800 '

open hole 7231 t 7510.



LIST OF OFFSET OPERATORS AND SURFACE OWNERS

Goodwin State
Well No. 1
Unit D, Section 6, Tws. 29 S., Rng. 37 E.
Lea Co., NM

Surface Owners

N. M. State Land Office P.O. Box 1148 Santa Fe, NM 87505

Offset Operators

Sahara Operating Co. P.O. Box 4130 Midland, TX 79704

Conoco Inc. 10 Desta Dr., Ste. 100 W. Midland, TX 79705

Chevron USA Inc. P.O. Box 1150 Midland, TX 79702

Xeric Oil & Gas Corp. 1801 W. Texas Ave. Midland, TX 79701 HRC, Inc. P.O. Box 5102 Hobbs, NM 88241 (505)397-2725

RE: Goodwin State #1

Unit D, Sect. 6, Tws. 19 S., Rng. 37 E.

Dear Sirs:

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

Any question about the permit can be directed to Eddie W. Seay, (505)392-2236. Any objections or request for hearing must be filed with the Oil Conservation Division within fifteen (15) days from the date received. The OCD address is P.O. Box 6429, 1220 S. Saint Francis Drive, Santa Fe, NM 87504, (505)476-3440.

Thank you,

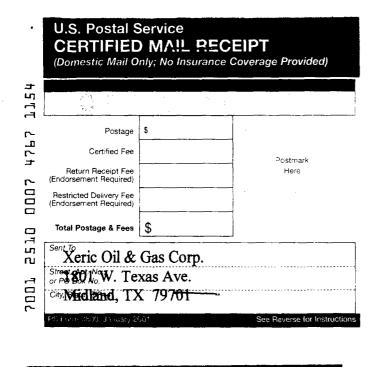
Eddie W. Seay, Agent

Eddi When

601 W. Illinois

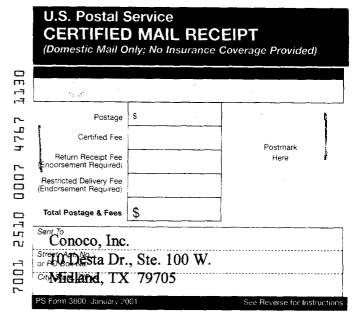
Hobbs, NM 88242

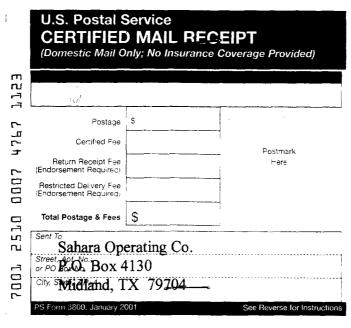
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7001	City, Windland, T	X 79702	
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Affidavit of Publication

STATE OF NEW MEXICO)
COUNTY OF LEA) ss.)
Joyce Clemens being first duly sworn o	n oath

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

was published in a regular and entire issue of THE LOVINGTON DAILY LEADER and not in any supplement thereof, for one (1) day _____, beginning with the issue of

January 9 _____, 2002 and ending with the issue
of ______ January 9 ______, 2002.

And that the cost of publishing said notice is the sum of

Subscribed and sworn to before me this 16th day of January 2002

_____ which sum has been (Paic) as

Debbie Schilling

\$_17.74 Court Costs.

Notary Public, Lea County, New Mexico My Commission Expires June 22, 2002

LEGAL NOTICE Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, HRC, Inc. of Box 5102. Hobbs, NM 88241, is filing application for a commercial salt water disposal. The well being applied for is the Goodwin State #1 located in Unit D, Sect. 6, Tws. 19 S., Rng. 37 E., Lea Co., NM. The injection formation is the San Andres located from 4897' to 4919' below the surface. Expected maxi-

mum injection rate is 1000 bls. per day and the

expected maximum injec-

tion pressure is approximately 500 lbs. Any questions about the application can be directed to Eddie W. Seay, (505) 392-2236, or any objections or request for hearing must be directed to the Oil Conservation Division, (505) 476-3440, 6429, 1220 South Saint Francis Drive, Santa Fe, NM 87504, within fifteen (15) days. Published in the Lovington Daily Leader January 9, 2002.

LEGAL NOTICE

Pursuant to the rules and regulations of the Oil Conservation Division of the State of New Mexico, HRC, Inc. of Box 5102, Hobbs, NM 88241, is filing application for a commercial salt water disposal. The well being applied for is the Goodwin State #1 located in Unit D, Sect. 6, Tws. 19 S., Rng. 37 E., Lea Co., NM. The injection formation is the San Andres located from 4897' to 4919' below the surface. Expected maximum injection rate is 1000 bls. per day and the expected maximum injection pressure is approximately 500 lbs. Any questions about the application can be directed to Eddie W. Seay, (505)392-2236, or any objections or request for hearing must be directed to the Oil Conservation Division, (505)476-3440, Box 6429, 1220 South Saint Francis Drive, Santa Fe, NM 87504, within fifteen (15) days.

WELL RECORD

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the nearest district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1A and Section 5 need be completed.

Dia Pounds Threads Depth Feet Type Shoe Perforations in. ft. in Top Bottom To	Section 1	I		(A) Our	neir of wall	North	ern Katura	il Gas Co.	
Well was drilled under Permit No. 1-2300 and is located in the NW No. No. No. No. 1 No. 2				Street an	d Number	P. O.	Box 3316	···	
NW									
(B) Drilling Contractor Abbott Frothers License No. #E-46 Street and Number									
Street and Number F. G. Box 657 City Hobbs State New NextCo Drilling was commenced February 1 19 (Plat of 640 acres) levation at top of casing in feet above sea level Total depth of well 177 tate whether well is shallow or artesian Shallow Depth to water upon completion 46 Prom To Tolona State New Previous Previous Previous Previous 1 1 65 76 5 Gand 3 100 150 50 Sand 4 150 157 8 Gravel 5 162 173 11 Travel 1 150 157 8 Gravel 5 162 173 11 Travel 1 150 157 8 Gravel 5 162 173 11 Travel 1 150 157 8 Gravel 5 162 173 11 Travel 1 150 157 8 Gravel 6 150 157 8 Gravel 7 150 150 150 150 150 150 150 150 150 150									
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ection 4 RECORD OF MUDDING AND CEMENTING Depth in Feet From To Hole in in. Clay Cement Clay Cement Clay Cement With 6U sacks of cement then the Q 3/4" we set inside of 20" nipple ection 5 PLUGGING RECORD For Use OF STATE ENGINEER ONLY Date Received 11 1 22 1 2951 PRECORD OF MUDDING AND CEMENTING Methods Used Tons of Roughage used with 6U sacks of cement then the Q 3/4" we set inside of 20" nipple City State Ons of Clay used Tons of Roughage used Date Plugged 19 Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used No. Depth of Plug No. of Sacks Used	Dia	Pounds	Threa	ads D	epth			Per	rforations
ection 4 RECORD OF MUDDING AND CEMENTING Depth in Feet Diameter From To Hole in in. Clay Cement Set in side of 20" nipple Set in side 20" nipple Set in side of 20" nipple Set in side of 20" nipple S		:		·	Bottom	reet	Type Shoe	From	To
Depth in Feet Diameter Tons No. Sacks of Cement To Hole in in. Clay Set in side of 20" nipple To hole of 20" nipple To hole of 20" nipple To hole of Plugging Contractor Treet and Number City State Tons of Clay used Tons of Roughage used Type of roughage T	0/34	32	Weld	i. 0	177	177	Open	123	173
Depth in Feet Diameter Tons No. Sacks of Cement To Hole in in. Clay Set in side of 20" nipple To hole of 20" nipple To hole of 20" nipple To hole of Plugging Contractor Treet and Number City State Tons of Clay used Tons of Roughage used Type of roughage T]					! !		
Depth in Feet Diameter Tons No. Sacks of Cement To Hole in in. Clay Set in side of 20" nipple To hole of 20" nipple To hole of 20" nipple To hole of Plugging Contractor Treet and Number City State Tons of Clay used Tons of Roughage used Type of roughage T					· 		<u> </u>		
Depth in Feet Diameter Tons No. Sacks of Cement To Hole in in. Clay Set in side of 20" nipple To hole of 20" nipple To hole of 20" nipple To hole of Plugging Contractor Treet and Number City State Tons of Clay used Tons of Roughage used Type of roughage T	· - 	<u> </u>						<u> </u>	<u> </u>
Depth in Feet Diameter Tons No. Sacks of Cement To Hole in in. Clay Set in side of 20" nipple To hole of 20" nipple To hole of 20" nipple To hole of Plugging Contractor Treet and Number City State Tons of Clay used Tons of Roughage used Type of roughage T	Section	4		RECO	RD OF MUD	DING AN	D CEMENTING		
From To Hole in in. Clay Cement Methods Used 65 feet of surface nipple, 20 inches cemented with 60 sacks of cement then the Q 3/4" we set inside of 20" nipple ect.on 5 PLUGGING RECORD fame of Plugging Contractor treet and Number City State ons of Clay used Date Plugged Date Plugged 19 Cement Plugs were placed as follows: FOR USE OF STATE ENGINEER ONLY Date Received 11 11 20 8 - 83 1984			Diam						
ect.on 5 PLUGGING RECORD fame of Plugging Contractor. treet and Number City State ons of Clay used Tons of Roughage used Date Plugged 19 Cement Plugs were placed as follows: Basin Supervisor FOR USE OF STATE ENGINEER ONLY Date Received 19 11:11 WW 8-83 195				ſ	•	- 1		Methods Used	
ect.on 5 PLUGGING RECORD fame of Plugging Contractor. treet and Number City State ons of Clay used Tons of Roughage used Date Plugged 19 Cement Plugs were placed as follows: Basin Supervisor FOR USE OF STATE ENGINEER ONLY Date Received 19 11:11 WW 8-83 195	65 fe	et of su	irface n	ipple, 20 i	nches ceme	ented wi	th 60 sacks	of cement th	en the Q 3/4" wa
Tame of Plugging Contractor treet and Number City State Cons of Clay used Tons of Roughage used Date Plugged Plugging method used Date Plugged Tons of Roughage used Date Plugged No. Depth of Plug No. of Sacks Used Por USE OF STATE ENGINEER ONLY The state of the plug were placed as follows: Date Received No. Depth of Plug No. of Sacks Used		-1							
Tame of Plugging Contractor treet and Number City State Cons of Clay used Tons of Roughage used Date Plugged Plugging method used Date Plugged Tons of Roughage used Date Plugged No. Depth of Plug No. of Sacks Used Por USE OF STATE ENGINEER ONLY The state of the plug were placed as follows: Date Received No. Depth of Plug No. of Sacks Used									
Tame of Plugging Contractor treet and Number City State Cons of Clay used Tons of Roughage used Date Plugged Plugging method used Date Plugged Tons of Roughage used Date Plugged No. Depth of Plug No. of Sacks Used Por USE OF STATE ENGINEER ONLY The state of the plug were placed as follows: Date Received No. Depth of Plug No. of Sacks Used									
Tame of Plugging Contractor treet and Number City State Cons of Clay used Tons of Roughage used Date Plugged Plugging method used Date Plugged Tons of Roughage used Date Plugged No. Depth of Plug No. of Sacks Used Por USE OF STATE ENGINEER ONLY The state of the plug were placed as follows: Date Received No. Depth of Plug No. of Sacks Used					חעוכה	THE DEC	0.00		
treet and Number City State Ons of Clay used Tons of Roughage used Type of roughage Clugging method used Date Plugged 19 Cement Plugs were placed as follows: Cement Plugs were placed as follows: No. Depth of Plug No. of Sacks Used									
Type of roughage Plugging method used Date Plugged Plugging approved by: Cement Plugs were placed as follows: Depth of Plug No. of Sacks Used			-						
Date Plugged 19 Cement Plugs were placed as follows: Description No. Depth of Plug No. of Sacks Used									
Date Received 1 1 1 1 2 2 1 4 2 3 1		•							
Basin Supervisor No. Depth of Plug No. of Sacks Used FOR USE OF STATE ENGINEER ONLY									
Basin Supervisor FOR USE OF STATE ENGINEER ONLY	Plugging	g approve	d by:			_			as ionows:
FOR USE OF STATE ENGINEER ONLY IT ISSUED TO THE PROPERTY OF T				Basin Si	pervisor	No		No	. of Sacks Used
Date Received) 130 V32 WWW 2018 11:11 WV 8-824 1984			_0_0			7			
11:11W 8-834 LEB-8 VWII:11	ĺ	FOR US	SE OF STA I TT	тқ емділе кк	ONLY				
11:11W 8-834 LEB-8 VWII:11	Date	Received	FELL OUT FILLE	artis SNU PRIBANS TYMMAG	·		 		
V 2200 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	2410				,				
File No. 2 = 3360 Use Ind. Location No. 11.37.(2.21)		1	1:11 40	8-837 T8	i ,	-			
File No. 2 - 3.366 Use 1804. Location No. 11.37/6.211		5	.a		· ·	,			
	File N	<u>: ک</u> ریه	33 <u>60</u>		Use	nol.	Locati	on No. 11.3	46-211

1 2200 x 2201- Combo. - S

11 . 1 #*

Well # 3

WELL RECORD

		Parenti	n Reef-	Pipeline	Comment				
Street or P.	02223.	Dodge 3	treet	,	City and S	tate Umahi NE	a, Neb	raska \mathcal{N}	W
1. Well loca		lescription	The shallow	or artesian)	is located i	n Lea Cor	-8 ½,	N 1	/2 m
NH -		Section	5	Township	198	Range	37 5	; Elevation	on of top
ooring o	hove see le			eet; diameter	19* 16' hala 16'	' to 66 {	3 4 4-4-1	dones 1	78
				feet; dri			•	July 2	
and com				, 19 54; nar				² A-7	
		; Ac	idress,	fidland, To	ocas	; Driller	's Licen	se No 🦤	Parmit
2. Principa	l Water-be	aring Stra	ta:					· viejo,	/ MMI7 .
	Depth in From	To To		Thickness	n	escription of W	ater-bearin	g Formation	
No. 1	123	1731		501	(gallala (sandst	one	
No. 2				en.			,		
No. 3					-				
No. 4				,					
No. 5							····		
Diameter in inches	Pounds per ft. 53#	Threads per inch PE	С	asing or Liner Bottom 6618#	Casing 6618#	Type of Sh Band		From	То
10"	32#	8	0	123'	1231				
10"	23#	PE	123	173'	501			1231	1731
10"	32#	PE	173	1781	51				
***************************************	***************************************		**** *********						
	construction	n replaces	old well t	o be abandone	d, give loca	ition:	1/4,		
4. If above									
		· · ·							
	n(, Townsh	ip	, Range.	;	name and	address	of pluggin	g contract
	n	·	-	Range.			address	of pluggin	g contract
of Section							···		
of Section									
of Section	plugging			, 19	: describe	how well wa	as plugge	ed:	
of Section	plugging				: describe	how well wa	as plugge	ed:	
of Section	plugging			, 19	: describe	how well wa	as plugge	ed:	
of Section	plugging			, 19	: describe	how well wa	as plugge	ed:	
of Section	plugging			, 19	: describe	how well wa	as plugge	ed:	
of Section	plugging			, 19	: describe	how well wa	as plugge	ed:	

1-2200 x 2201- Camb. - S . A S

STATE ENGINEER OFFICE

WELL RECORD

ection	1		(A) Owne	er of well.	1773	2000 277	<u> </u>	11 200 2 TV
					Number.				
									te
	1,								and is located in the
	80 3	İ							103 Rge. 77% J
	1.		- (B) Drilli	ng Contra	actor			License No. T-46
	-								te
			I	rilling w	vas coram	enced	. 1	<u>, 1075</u>	19
	<u> </u>		p	rilling w	as comple	eted		1975	19
	Plat of 640 ac								
									1,3
ate w	hether well	is shall	ow or	artesian		.Q <u>:/</u> i	Depth to wa	ter upon co	mpletion 130
ection	2			PRIN	CIPAL WA	ATER-BEAR	ING STRATA		
No.	Depth in	Feet	l .	ness in		De	scription of Water	r-Bearing For	mation
140.	From	To		'eet				. Downing to	
1	7	111	4	-3	7 77	, withou	-		
2				·			·		
3					- 				
4							·		
5									
	<u> </u>		<u>. </u>		<u> </u>				
ection	3				RECOR	D OF CA	SING		
Dia	Pounds	Threa	-	Dep		Feet	Type Shoe		Perforations
in.	ft.	in		Top	Bottom	1 200	ļ	From	То
/:	43	7/3.	Ldad	1	152	192		<u> 100</u>	162
		- 					-	i	
	 								
					<u> </u>	<u> </u>	<u>i</u>		
ection	4			RECOR	D OF MU	DDING AN	ND CEMENTING		
Dept	h in Feet	Diame	eter	Tons	1	cks of		Methods U	cod
From	То	Hole in	ı in.	Clay	Cen	nent			
		<u> </u>					. 		· · · · · · · · · · · · · · · · · · ·
	_								
	<u>i</u>	1	Į						
ection	5				PLUGO	SING REC	ORD		
	-	Contrac	tor					Licens	e No
									e 110
									age
	-							_	19
	g approved								eed as follows:
30~**	G IF:	•					Denth of F		
-			-1.7	Basin Sur	pervisor	No.	0.	To	No. of Sacks Used
	FOR HER	OF CTA	יורי ביותי	GINEER O	NT.V	7			
	FOR USE	OF STA	ie end(ATTERN O	1111				
Date	Received		نده	<u> </u>		_			
		<i>L_</i> 3	∂		2 1° 3+				
								<u>_</u>	
	L-212	oc +							
'ile N	06 22	01-0	OMB	-3 -3	Use /	100,	Locatio	on No. 49	376 21211

STATE ENGINEER OFFICE

WELL RECORD

Section 1	1		_ (A	1 Owr	er of well	Vir	gil Linon					
							Nobi					
	1	<u>'</u>		-			nit No. I-1616					
			1				of Section					
	+		!				Id. 3. Birk					
		1	Stre	reet and	d Number			Box 306				
	 		•				P					
		-					*************************					
(1	Plat of 640	ncres)	Dri	illing v	was comple	ted		Ja	muxiq 25	1956		
		•	in foet al	hove si	an levrel		Total der	~+h of urall	158			
							Depth to wat	-				
		JH 18 01	0w 01					ter upon com	Dienon	· D		
Section 2			, , , , , , , , , , , , , , , , , , , 		1CIPAL WA	TER-BEARI	ING STRATA					
No.	Depth i	in Feet To	Thickne Fee		in Description of Water-Bearing Formation							
1	78	98	20	.0	San	ed & Gree	rel					
2	98	125	2	8	S.26	A to Green	vel					
3	·											
4												
5					1							
Section :	3				RECOF	RD OF CAS	SING					
Dia Dia	Pounds	s Threa	- 40		epth	i	I	Pr	erforations			
in.	Pounds ft.	is Inrea	ļ ——	Top	Bottom	Feet	Type Shoe	From		To		
14	35	Welde	ed _	0	123	125_	none	63	32			
	 									3		
Section	4			RECO	RD OF MUI	DDING AN	ND CEMENTING					
	th in Feet	Diame	i	Tons		1		Methods Used	.4			
From	То	Hole in	n in.	Clay	Cern	ient		Withings Co.				
	T	$\overline{}$										
	_											
	_											
						t						
Section 5	5				PLUGE	GING REC	ORD					
Name o	of Pluggir	ng Contra	ctor				~~~~~	License	No			
		-										
							Ту					
	•				_		Date Plu		_			
	g approve							igs were placed				
*						N	Depth of P	Plug	1 2 - 1 - 1	 -		
			В	Jasin_Su	upervisor	No	0.	To No	o. of Sacks U	/sed		
	FOR U	SE OF STA	TE ENGI	INEER	ONLY		-					
l				.								
Date	Received	1		6	36							
1		*	₹	5103								
ł		100	A Marking Laturest		MERVISOR NEEDE	<u> </u>						
	>	/ /_	1//	7	77	'//	Locatio	N- 10		1.44		
File No	0		26-0		Use	irug	Location	on No. 19.	2/1 Dans	70		

WELL RECORD

Section	·		(A) O	wner of we	ar som	olly willin	-0., .nc.	
			Street	and Numbe	er :	. Now 433		
			City	rteals	<u> </u>		State **9W	. exico
			Well v	vas drilled	under Pe	ermit No. 2-4	324 and i	s located in th
		}		1/4	1/4 55	⅓ of Section 1	Twp. 20	Rge 305
-	1		(B) D	rilling Cont	tractor	boott res.	License	No. 1 46
				and Numbe				
	- <u>-</u> -			: cbbc			State 100	- exi co
			Drillin	g was com	menced	•	dialy ex	19 27
L	<u> </u>		Drillin	g was comj	pleted		only 13	19.55
	Plat of 640	-		, ,		m . 1 1	11	a
Elevatio	on at top	or casing i	n feet above	sea level	loa	Total de	pth of well 11.ter upon completion	Z.()
state w	neiner we	en is snam	ow or artes	lan		Depth to wa	ter upon completio	n
Section	2		F	RINCIPAL V	WATER-BE	ARING STRATA		
No.	Depth From	in Feet	Thickness Feet	in 		Description of Water	r-Bearing Formation	
i	40	110	70	ster	sand			
2								
3		 						
4					·			
5	 							
	<u> </u>	<u> </u>	<u> </u>					
Section	3			RECO	ORD OF	CASING		
Dia	Pounds			Depth	Feet	Type Shoe	Perfora	tions
in.	ft.	in			1		From	То
	141	ince al	<u> ; ls 061</u>	<i>y</i> •		 -		
	_							
			<u> </u>				1	
Section	4		REC	ORD OF M	IUDDING	AND CEMENTING		
Dep	th in Feet	Diam	eter To	ns No.	Sacks of	T	NE-4T- 1 YI-1	
From	То	Hole i	n in. Cl	ay C	Cement		Methods Used	
						<u> </u>	····	
	<u>i</u>	<u> </u>						
Section	5			Pf Ur	GGING R	RECORD		
			-4				Tinana Na	
		_					License NoState	
							pe of roughage	
	_						ugged	
•	-						igs were placed as i	
riuggii	ng approve	eu by.			1			
-			Basin	Supervisor		No. Depth of I	To No. of	Sacks Used
<u> </u>		GR 67 27	min vari	in Our v	—			
	FOR U	SE OF STA	TE ENGINE	⊥		<u>-</u>		
Date	Received	301440	A tordheil Massillin a	, - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
			ज्यन्त्र गण ्य	LTQ1	ļ			
		8: 12	HU EI AO	1828 1		<u> </u>		
1					J		10 1	
File N	10 d-4	324		Use 4	7. W.P	Locati	on No. 19.36.	410

S A STATE ENGINEER OFFICE

WELL RECORD

Pan Ameri. . State B # 1

Section 1			(A) Our	ner of well	Gack	de Drillin	g Co.	
						1076	5	
		!						New Mexico
								and is located in the
								S Rge. 36 E
-								cense No. WD-111
			Street ar	nd Number				
			City			Hobbs	State	New Mexice
1		}	Drilling	was comm	enced	,	Feb.	6 1958
			Drilling	was comple	eted	·	Feb.	7 1958
	lat of 640	•		7 1		en . 1 1-		106
Elevation	at top o	of casing i	n feet above s	ea level Sha:	11ow	Total dep	th of weil	106 pletion 47
State win	etner we	ili is snam					er upon com	pletion
Section 2			PR	INCIPAL WA	ATER-BEAR	ING STRATA		
No.	Depth i		Thickness in Feet	ı	Des	scription of Water-	-Bearing Forma	ation
	From	To		-				
1	53	71	18	Wat	ter San	<u>d</u>		
2	76	106	30		#			
3								
4								
5								
Section 3)			RECOR	RD OF CAS	SING		
	1	mi-	· 1 r	Depth	(D OI OA	1 I		erforations
Dia in.	Pounds ft.	Thre in		Bottom	Feet	Type Shoe	From	To
6	vario	us we]	Ld 0	89	89	none	54	89
	-			,				
Castion 4			DECC.	 NDD OE MIII	DDING AN	ID CEMENTING	- <u>-</u>	
Section 4		Diam				D CEMENTING		
From	in Feet	Diam Hole i			nent		Methods Use	đ
	+	-						
	-							
	-	-				· · · · · · · · · · · · · · · · · · ·		
	-	-						
Section 5					GING REC			
		-						No
					=			
								ge
	-			,				19
Plugging	approve	d by:			_		gs were placed	d as follows:
			N] ∂ Basin S		No	Depth of Pl	lug To Ne	o. of Sacks Used
		- 1	R R Date	1	- 7 ├-	FIOR	.6	
	FOR US	SE OF STA	TE ENGINEER	1		-		
Data .	n-seimed	-	FEB 13 19	58	-			
Date 1	Received	İ	OFF C	1 :				
		GIIC	DSTEENAM DEPMODE M NEBMODE		<u> </u>	1		
1		\$ er e samue a		TO BE COMMERCED.)	·····		
File No	,1-37	792		Use .	Συ. D.	Locatio	n No. 19.3	6.1. 240

New Mexico Office of the State Engineer Well Reports and Downloads

·	Well Reports and Do	··· Illoado
Township: 19S	Range: 36E Sections: 1	
NAD27 X:	Y: Zone:	Search Radius:
County:	Basin	Number: Suffix:
Owner Name: (First)	(Last)	C Non-Domestic Domestic All

WATER COLUMN REPORT 01/10/2002

	(quarters	are	1=M	7 2:	=NE	3=SW 4=SE)						
	(quarters	are	big	ges	t to	smallest)			Depth	Depth	Water	(in feet)
Well Number	Tws	Rng	Sec	q	PР	Zone	X	Y	Well	Water	Column	
L 03792 APPRO	198	36E	1.1	2	4				1.77	4 "	5.9	
L 03792	_ 195	36E	11	2	4				1. 7	÷ ~	5.4	
L 04324	193	36E	0.1	4	-				- 1	4.5	- :	
L 04324 APPRO	198	36E	· :	4	-					4.5		

Record Chartina





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

PHONE (505) 326-4669 • 118 S. COMMERCIAL AVE. • FARMINGTON, NM 87401

PHONE (806) 796-2800 • 5262 34th ST. • LUBBOCK, TX 79407

ANALYTICAL RESULTS FOR EDDIE SEAY CONSULTANTS ATTN: 601 W. ILLINOIS

Receiving Date: 08/20/96 Reporting Date: 08/27/96 Project Number: NOT GIVEN

Project Name: COOPER RANCH (for FGL)
Project Location: MONUMENT, NM

HOBBS, NM 88240

FAX TO:

Sampling Date: 08/20/96

Sample Type: GROUNDWATER Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: GP/WL/BC

LAB NUMBER	SAMPLE ID	Na	Ca	Mg	K	CI	SO4	CO3	HCO3
		ppm							
ANALYSIS DA	TE:	8/23/96	8/23/96	8/23/96	8/26/96	8/21/96	8/27/96	8/22/96	8/22/96
H2619-1	HSE. WELL-SUB	46.8	72.6	11.0	2.52	26	46	12:	259
H2619-2	W. WELL-SUB	28.5	61.9	7.9	2.32	30	34	0	192
H2619-3	W. CULP-WM	146.0	200.2	24.4	4.85	166	232	12	265
H2619-4	S. CULP-WM	56.4	133.8	20.2	3.57	160	69	26	212
H2619-5	CULP-WM	86.8	153.8	20.4	3.79	264	96	0	192
H2619-6	TIDWELL-WM	49.0	76.7	13.2	3.18	40	69	0	232
H2619-10	RINGY WLSUB	262.0	164.2	78.6	11.4	710	129	24	176
H2619-12	FL. WL.(CATH)	862.0	100.8	47.6	9.9	838	1070	58	259
Quality Contro	1	1.99	0.96	0.99	1.02	503	53	NR	NR
True Value QC		2.00	1.00	1.00	1.00	500	50	NR	NR
% Accuracy		99.5	96	99 ′	102	101	96	NR	NR
Relative Perce	nt Difference	0.8	0.3	0	2	0.4	1.1	0	0
METHODS: ER	PA 600/4-79-02					352.3	375.4		
	Std. Methods	3111B	3111B	3111B	3111B			2320B	2320B

Wei Li, Chemist

Date

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless mace in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In np eyent shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates a 222 cardinal strength out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise

POOL	LOCATION	CHLORIDES
Dean Permo Pennsylvanian	√ ₅₋₁₆₋₃₇	44,730
Dean D evonian	35-15-36	19,525
Denton Wolfcamp	\2-15-37	37,275
Dentor Devonian	26-14-37	37,062
South Denton Wolfcamp	26-15-37	54,315
Jouth Denton Devonian	36-15-37	34,080
Medicine Rock Devonian	15-15-38	39,760
Little Lucky Lake Devonian	> 29-15-30	23,288
Wantz Abo	26-21-37	132,770
Crosby Devonian	18-25-37	58,220
Scarborough Yates Seven Rivers	7-26-37	3,443 (Reof)
Teague Simpson	34-23-37	114,665
Teague Ellenburger	₹ 34-23-37	120,345
Rhodes Yates Seven Rivers	27-26-37	144,485
House San Andres	111-20-38	93,365
House Drinkard	12-20-38	49,700
South Leonard Queen	24-26-37	115,375
Elliott Abo	▶8-21-38	55,380
Scharb Bone Springs	5-19-35	30,601
EK Queen	13-18-34	41,890
East EK Queen	∆ ₂₂₋₁₈₋₃₄	179,630
Maljamar Grayburg San Andres	\ 22-17-32	46,079
Maljamar Paddock	27-17-32	115,375
Maljamar Devonian	22-17-32	25,418
Salt Lake Yates	7-20-33	6,781 (Reef)
Teas Yates Seven Rivers	11-20-33	22,152 (Reef?)



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Betty Rivera
Cabinet Secretary

Supervisor, District 1

2/14/02

Lori Wrotenbery Director Oil Conservation Division

Oil Conservation Division 1220 S. Francis Drive Santa Fe, NM 87505	
RE: Proposed: MC DHC NSL NSP SWD WFX PMX	
Gentlemen:	
I have examined the application for the:	
HRC Inc Goodvin State #1-D 6-195-37e Operator Lease & Well No. Unit S-T-R API=# 30.025-34	593
and my recommendations are as follows:	
Yours very truly,	
Chris Williams (Agr.)	