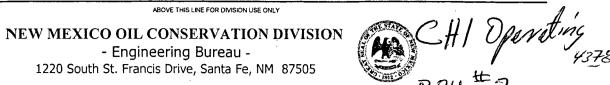
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		ABOVE	THIS LINE FOR DIVISION USE ONLY			



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- C108 for All -

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

## **APPLICATION FOR AUTHORIZATION TO INJECT**

I.	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR:CHI OPERATING, INC
	ADDRESS:P.O. BOX 1799, MIDLAND, TEXAS 79702
	CONTACT PARTY:GARY WOMACKPHONE:432-685-5001
III.	WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
IV.	Additional sheets may be attached if necessary.  Is this an expansion of an existing project?  Yes X No WFX-875  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.  Attach data on the proposed operation, including:  1. Proposed average and maximum daily rate and volume of fluids to be injected;
VII.	Attach data on the proposed operation, including:  BDU 195-30E
	<ol> <li>Proposed average and maximum daily rate and volume of fluids to be injected;</li> <li>Whether the system is open or closed;</li> <li>Proposed average and maximum injection pressure;</li> <li>Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,</li> <li>If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well; attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).</li> </ol>
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.  NAME: Pan Corbett Par Corbett  TITLE: REGULATORY CLERK  SIGNATURE: Pan Cochieneray inc. com  DATE: 1712
*	E-MAIL ADDRESS:robina@chienergyinc.com_  If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.  Please show the date and circumstances of the earlier submittal:

### III. WELL DATA

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

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

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

### XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

## C108 Application CHI Operating, Inc. Benson Delaware Unit #2 API # 3001531778 990' FSL & 660' FWL (Unit M) Section 1, T-19S-30E, Eddy County, New Mexico

- I. The purpose of the application is to request approval to convert the Munchkin Fed. #2 to a produced water injection well in the Delaware formation.
- II. CHI Operating, Inc.c/o P.O. Box 1799Midland, Texas 79702Contact: Gary Womack, Engineer
- III. Injection well data sheet is attached. In addition, wellbore schematic diagrams are attached showing the current and proposed wellbore configurations.
- IV. This is not an expansion of an existing project.
- V. A map showing all wells/leases within a 2-mile radius of the Benson Delaware Unit #2 is attached. Also attached is a map showing all wells within a ½ mile radius of the Benson Delaware Unit #2.
- VI. Area of review well data is attached. As shown in the table, there is only five existing wells within the AOR, that penetrated the proposed injection zone and all are operated by CHI Operating, Inc. These wells are adequately cased and cemented so as to preclude the migration of injected fluid from the proposed injection interval.

- VII. 1. The average injection rate is anticipated to be approx. 4000 BWPD.
  - 2. This will be a closed system.
  - 3. The proposed average and maximum injection pressure will be 1400#.
  - 4. Produced water from the Delaware formation originating from wells that CHI Operating, Inc. operates in this area will be injected into the subject well.
  - 5. N/A

## VIII. Geological Data

- 1. Lithologic Detail; Sandstone
- 2. Geological Name; Benson Delaware
- 3. Thickness; 900'
- 4. Depth; 4600-5158'
- IX. The proposed stimulation program will be 5000gal Acid, 30,000# Sand.
- X. Logs were filed at the time of drilling.
- XI. There are no fresh water wells within 1 mile of the injection well.
- XII. We have examined the available geologic and engineering data and find no evidence of open faults or any other hydraulic connection between the disposal zone and any underground source of drinking water.

XIII. Proof of notice is attached.

Date:	12	122/11
Date.	1,-	

Chi Operating, Inc.

Gary Womlack, Engineer

CHI OPERATING, INC.

WELL NAME & NUMBER:

WELL LOCATION:

WELLBORE SCHEMATIC

OPERATOR:

BER: Benson Delaware Unit #2		
990' FSL & 660' FWL (BHL) FOOTAGE LOCATION	M UNIT LETTER SECTION	19S 30E ION TOWNSHIP RANGE
SORE SCHEMATIC	, .	WELL CONSTRUCTION DATA Surface Casing
	Hole Size:12 1/4"	Casing Size: 9 5/8"
	Cemented with: 425	sx. or ft <sup>3</sup>
	Top of Cement: SURFACE	Method Determined: CIRCULATED
	<u>III</u>	Intermediate Casing
	Hole Size:	Casing Size:
	Cemented with:sx.	or ft <sup>3</sup>
·	Top of Cement:	Method Determined:
	·	Production Casing
	Hole Size: 7 7/8"	Casing Size: 5 ½"
	Cemented with:1825_ sx.	or ft3
	Top of Cement:	Method Determined:Calcutated
	Total Depth:Liner top	
		Injection Interval
	4600	feet to 5158

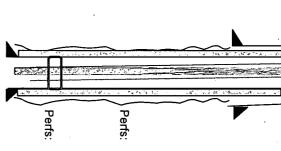
(Perforated or Open Hole; indicate which)

# INJECTION WELL DATA SHEET

I ubing Size:	2 //8 Lining Material: CEMEN I
Type of Packer:	
Packer Setting Depth:	1:
Other Type of Tubir	Other Type of Tubing/Casing Seal (if applicable):
•	Additional Data
l. Is this a new we	Is this a new well drilled for injection?
If no, for what I	If no, for what purpose was the well originally drilled? Oil well
2. Name of the Inj	Name of the Injection Formation: DELAWARE
3. Name of Field	Name of Field or Pool (if applicable):
<ol> <li>Has the well ev intervals and gi</li> </ol>	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.
Queen 37	Queen 3790-3794" Squeeze under retainer
Give the name and depths injection zone in this area:	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:
-	QUEEN 2914' (OVERLYING)
	BONE SPRING LS 6090' (UNDERLYING)
· · · · · · · · · · · · · · · · · · ·	

## (current wellbore) Benson Delaware Unit #2

990 FWL & 660 FSL Section 1, T19S R30E



2-7/8 6.5# lined injection tubing

.cmt at surface (circ) 9-5/8" 36# J55 @483'

Queen 3790-3794"

(squeeze under retainer)

Delaware 5,090-5,110', 5,145-5,158',

5-1/2" 17# N80 @ 5,342'

DV tool @ 4100'

## **Proposed Injection Conversion Procedure:**

POOH w/pump,rods, and tubing Set cement retainer @ 3770'. Obtain pump in rate and squeeze with 50 sx

Sting out or retainer and reverse circ. Shut down. Pu rock bit on tubing and drill out retainer. POOH

PU packer on production tubing. RIH below squeeze perfs at approximatley 4000'

PU injection packer on plastic lined injection tubing. Set packer at approximatley 4990'. Pressure annulus to 500 psi. (chart)

Start produced water injection.



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CARLSBAD TO NORTH LOVING - Carlsbad North Loving

## Notice of Application for Fluid Injection Well Permit

Chi Operating, Inc., c/o Gary Womack 432-685-5001, P.O. Box 1799, Midland, TX 79702 is applying to the NMOCD for a permit for a Water Injection Well into a formation which is production of oil and gas. The applicant proposes to drill 2 Water Injection wells into the Delaware. The proposed injection wells are located in Section 1 & 12, T19S, R30E in, Eddy Co., NM. Fluid will be injected into strata in the subsurface depth interval from 4494-4615' in section 12 and 4600-5158' in section 1.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

## Chi Operating, Inc. is the leaseholder of AOR

## Notices were sent to:

Intrepid Potash Inc. 707 17<sup>th</sup> Street Ste. 4200 Denver, Co. 88202 Attn: Katie Keller Cert # 7003 1680 0006 6222 3840

BLM 620 E. Greene Carlsbad, NM 88220 Attn: Wesley Ingram Cert # 7003 1680 0006 6222 3857

	5 1/2 J55 15.5# @ 5230, cmt 1stg 300sxc, 2stg 400sxC, Circ 18sx to surf	
	8 5/8 j55/32# @2045.20', cmt 800sxC, circ 98sx to surf	
	14 13 5/8 J55/54.5# @494.49', cmt 500sxC, circ 225sx to surf	300153733300 Benson Delaware Unit
	5 1/2 P110/17# @ 8907', @ 3698' cmt 975sx, circ60sx	
	8 5/8 j55/32# @3151', cmt 1628sx, circ 273sx to surf	
	13 13 5/8 J55/18# @495", cmt 585sxC, (1"300sx)	300153642500 Benson Delaware Unit
	5 1/2 J55/15.5# @ 5415', cmt 300sxC 325sxC/50C circ 30sx to pit	
	8 5/8 J55/24# @ 2050', cmt 425sxC T200sxC, circ 165 to pit	
	12 13 3/8 J55/48# @ 511', cmt 300 sxH, 200sxC T-100sx, circ 10sx to pit	300153579100 Benson Delaware Unit
	5 1/2 J55 15.5# @ 5351', cmt 1stg 300sxc, 2stg 1100sxC, Circ 187sx to surf	
	8 5/8 j55/24# @1910', cmt 505sxC, circ 65sx to surf	
	10 13 5/8 J55/48# @511'; cmt 500sxC, circ 60sx to surf	300153508500 Benson Delaware Unit
	5 1/2 J55 15.5# @ 5258', cmt 1675sxC, circ to surf	
	5 1/2 j55/17# @4078'	
	8 9 5/8 J55/36# @519', cmt 200sxH, 300sxC	300153481600 Benson Delaware Unit
-	5 1/2 J55/17# @ 5233', ctmd 1stg 400 sxC, circ 90sx; 2stg 1050sxC, T50sx , did not circ	
	9 9 5/8 J55/36# @ 497' , cmtd w/275 sxC, T-100sxC, circ 1710sx to surf	300153429300 Benson Delaware Unit
	5 1/2 15.5# @ 5366' cmt 1stg 450sx,circ 80sx, 2stg 500sx, T50sx, circ 10sx	
,	7 9 5/8 36# cmt with 200 sx, T100sx, T400sx, circ 60sx	300153393300 Benson Delaware Unit
	5 1/2 17# J55@ 5400', cmtd 1stg 375 sx C, Circ 20sx 730sx C, circ. 125sx	
	6 9 5/8 J55/36# @ 510', Cmtd with 400 sx C, circ 20 sx to surf	300153388100 Benson Delaware Unit
	5 1/2 j55/15.5 @ 5400', cmtd 1stg 200sxC, 2stg 750sxC, circ 199sx	
	5 9 5/8 J55/36# @525', cmtd 300sxC, circ 108sx to surf	300153372500 Benson Delaware Unit
	4 This info must be on another Table	300153338000 Benson Delaware Unit
	3 D&A if this was every perfed in the zone, need a well bore	300153179600 Benson Delaware Unit
	5 1/2 17# @ 5350' cmt 1stg 250sx, 2stg 157sx	
	2 9 5/8 36# @483', cmt with 325 sx, T100sx, circ 180 sx @ 3182'	300153177800 Benson Delaware Unit
	5 1/2 J55/15.5 @6707, Cmtd 1st stage 500sxC, 2 stg 500sx C, T-200 sx C	
	1 9/58 H55.36# @ 494 Cmtd w/275sx C, T-100sx C, Circ 170sx to surf	300153071500 Benson Delaware Unit
	1 P&A	300150459600 HALE-USG
	1 P&A 2590-2608-2866, 3080-90, 3185-3192	300150458800 STATE 2
	Well Number	Well ID Well Name

300153190300 Land Rush 12 Fed	ייסידייי מידיה ביי	300153765200 Craccant Hala "1" E	300152437500 Hale Fed	300152408200 Hale Fed	300152408100 Hale Fed	300150575600 Rubye	300150458800 State	300150458700 State	300153221000 Benson Delaware Unit 3W	300153798700 Benson Delaware Unit
2 13 3/8 48# @475' cmt 300sx, T200sx, circ 164sx 8 5/8 32# @ 3210', cmt 1415sx plg dwn, did not circ 5 1/2 20/17# 1" w/400sx, circ. 8sx, 1450sx, circ. 54sx	9.625 K55 40# @ 3304' cmt 1515 sx 5.500 17# @ 13127 8671-9369, 9599-10297, 10526-11221, 11450-12145	1 INI 13 375 HAO A8# @ httm @ 553' cmt 530cv	3 P&A	2 P&A	1 P&A	1 P&A	1 P&A	1 P&A	9 5/8 36# @ 480' , cmtd w/475sx, T-100sxC, circ 160sx 5 1/2 17# @ 5500', ctmd 1stg 300 sx, 2stg 800sx, circ 81sx	21 13 5/8 J55/48# @505.63', cmt 500sxC, circ 225sx 8 5/8 J55/32# @2068.70', cmt 800sxC 5 1/2 J55 15.5# @ 5230, cmt @ 3698' 1stg 300sxc, @ 5263.40' 2stg 500sxC

## Munchkin Federal #3 Benson Delaware Unit 3

Sec. 1-19S-30E 2230' FSL & 1750' FWL

4th plug: 550-450'

3rd plug: 2078-1978'

2nd plug: 4105-4005'

45sks

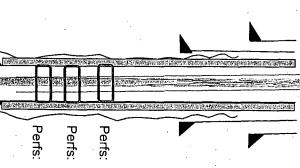
1st plug: 6393-6293'

50sks

**5th plug**:60-0' 9 5/8" 36# J55 @ 500' Cmtd w/500sks & circ 100sks

# Benson Delaware Unit Federal No. 1 (current wellbore)

(current wellbore)
API # 30-015-30715
1060' FSL & 2210' FWL
Section 1, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 494'

Lead 275sx C, Tail 100sx C, circ 170sx, cmt at surface

1stg 500sx C(TOC 4170); 2stg Lead-500sx C, Tail-200sx C(TOC 330') DV Tool @ 3479'

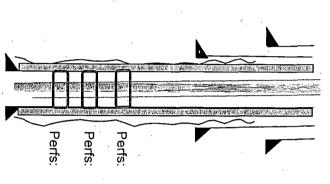
4922-41; 4954-74' (2spf)

4725-4740 (2spf)

5086-5122' (2 spf) 72 holes

# Benson Delaware Unit Federal No. 4 (current wellbore)

(current wellbore)
API # 30-015-31779
330' FNL & 1980' FWL
Section 12, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36/48# J55 @ 506' 450sx C, circ 300sx to surface

4806-10'; 4818-30'; 4831-56' (2spf)

DV Tool @ 3921'

TOC @ surface

5-1/2" 17# J55 @ 5526"

1stg 400sx C, circ 63sx; 2stg 650sx C, circ 53sx to surface

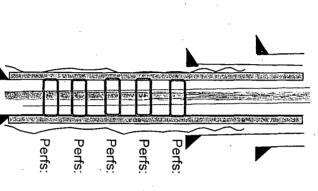
4940-45'; 4952-62' (2spf)

5030-45'; 5010-16' (2 spf)

# Benson Delaware Unit Federal No. 5

## (current wellbore) API # 30-015-33725

1700' FNL & 1980' FWL Section 12, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 525' 300sx C, circ 108sx, cmt at surface

1stg 200sx C, 2stg 750sx C; circ 199x. TOC @ 1450' DV Tool @ 4242' 4605-10; 4618-21'(2spf)

5-1/2" 15.5# J55 @ 5400"

4653-58' (1spf)

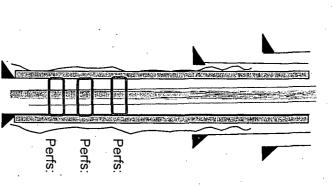
4844-39; 4835-33;4821-20;4802-01;4797-94' (1spf)

4955-60'; 4965-72'; 5006-08';5012-15' (2spf)

5053-58'; 5036-44' (2 spf)

## Benson Delaware Unit No. 6

(current wellbore)
API # 30-015-33881
660' FNL & 810' FWL
Section 12, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 510' 400sx C, circ 20sx, cmt at surface

5-1/2" 17# J55 @ 5400" 1stg 375sx C, circ 20sx; 2stg 730sx C; circ 125sx. TOC @ 3686' DV Tool @ 3458'

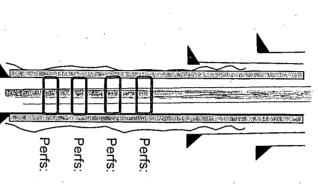
4542-80' (2spf)

4776-80'; 4818-24'; 4839-44'; 4874-79'; 4892-95' (2spf)

5008-10'; 5028-40';5055-60' (2 spf)

## Benson Delaware Unit No. 8 (current wellbore)

API # 30-015-34816 SHL: 2500' FNL & 660' FWL BHL: 1980' FNL & 660' FWL Section 121, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 519' 200sx H,300sx C, didn't circ

5-1/2" 17# J55 @ 4078", 15.5# J55 @ 5258' 1stg 300sx C, 2stg 1100sx C; circ 187sx, to surface TOC @ surface

DV Tool @ 3688'

4600-4606;4618-25' (4spf)

4700,4795,4797,4803,4804,4814' (2spf)

4825,4831,4832,4836,4838,4846,4847,4851,4852' (2spf)

5002-5035' (2 spf)

## Benson Delaware Unit No. 9

990' FNL & 300' FEL Section 11, T19S R30E (current wellbore) API # 30-015-34293

2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 497' 375sx C, circ 129sx, cmt at surface

5-1/2" 17# J55 @ 5233" 1stg 400sx C, circ 90sx; 2stg Lead 1050sx C, Tail 50sx; didn't circ. TOC @ 600'

DV Tool @ 3675'

Sqzd Perfs: 4567-88'

Perfs:

4488-4510' (2spf)

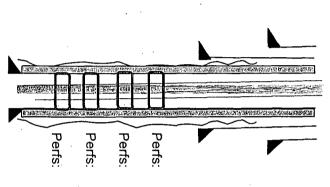
4826-38'; 4850-60 (2spf)

Perfs: Perfs: CIBP: 5000'

5092,5091,5075,5074,5073,5072,5065,5064,5060,5059,5043,5035' (2 spf)

## Benson Delaware Unit No. 10

(current wellbore)
API # 30-015-35085
2200' FNL & 330' FEL
Section 11, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 519' 200sx H,300sx C, didn't circ

5-1/2" 17# J55 @ 4078", 15.5# J55 @ 5258'
1stg 300sx C, 2stg 1100sx C; circ 187sx, to surface
TOC @ surface
DV Tool @ 3711'

4600-4606;4618-25' (4spf)

4700,4795,4797,4803,4804,4814' (2spf)

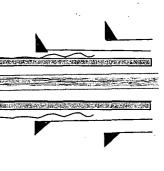
4825,4831,4832,4836,4838,4846,4847,4851,4852' (2spf)

5002-5035' (2 spf)

## Benson Delaware Unit 12 (existing wellbore)

(existing wellbore)
API # 30-015-35791
2547' FNL & 519 FWL
Section 12, T19S R30E

DV tool @ 3700'



13-3/8" 48# J55 @ 511' cmt at surface (circ)

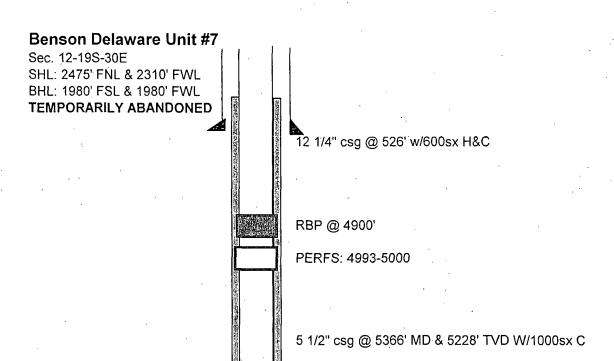
8-5/8" 24# J55 @2051' cmt at surface (circ)

5-1/2" 15.5# J55 @ 5,415' Cmt to Surface

4870-88' (2 sfp), 4590-4604', 4613-4615' (2 spf)

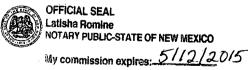
4494-4515 (2 spf)

Perfs:



PBTD: 5434'

Affidavit of Publication
NO. 22000
STATE OF NEW MEXICO
County of Eddy:
Danny Scott Nanny Acat
being duly sworn; says that he is the Publisher
of the Artesia Daily Press, a daily newspaper of general
circulation, published in English at Artesia, said county
and state, and that the hereto attached
Legal Notice
was published in a regular and entire issue of the said
Artesia Daily Press, a daily newspaper duly qualified
for that purpose within the meaning of Chapter 167 of
the 1937 Session Laws of the state of New Mexico for
1 Consecutive weeks/days on the same
day as follows:
First Publication February 1, 2012
Second Publication
Third Publication
Fourth Publication
Fifth Publication
Subscribed and sworn to before me this
1st day of Feburary 2012
OFFICIAL SEAL



Latisha Romine Notary Public, Eddy County, New Mexico

## **Copy of Publication:**

## LEGAL NOTICE

Notice of Application for Fluid injection Well Permit
Chi Operating Inc. c/o. Garv-Womack 432-685-5001. P.O. Box, 1799 (Midland, TX.79702'is applying to the NMOCD' for a permit for all Water Injection Well Into a formation which is production of oil and gas. The applicant proposes to drill 2 Water Injection wells into the Delaware. The proposed injection wells are located in Section 1.8 12 T19S R30E in. Eddy Co.:NM Fluid Will be injected into strata in the subsurface depth interval from 4494-4615 in section 12 and 4800-5158 in section 1. Interested parties must-flie objections of requests for hearing with the Joli, Conservation Division. 1220 South, St. Francis Dr. Santa Fe. New Mexico 87505. Within 15 days. Published in the Artesia. Daily Press. Artesia. Nim. Feb. 1, 2012. Legal No 22000.

9-		1							· ·		•			-			<del></del>		·													
Well Number	1 P&A	1 P&A	1 9/58 H55.36# @ 494 Cmtd w/275sx C, T-100sx C, Circ 170sx to surf	5 1/2 J55/15.5 @6707, Cmtd 1st stage 500sxC, 2 stg 500sx C, T-200 sx C	2 9 5/8 36# @483', cmt with 325 sx, T100sx, circ 180 sx @ 3182'	5 1/2 17# @ 5350' cmt 1stg 250sx, 2stg 157sx	3 D&A if this was every perfed in the zone, need a well bore	4 This info must be on another Table	5 9 5/8 J55/36# @525', cmtd 300sxC, circ 108sx to surf	5 1/2 j55/15.5 @ 5400', cmtd 1stg 200sxC, 2stg 750sxC, circ 199sx	6 9 5/8 J55/36# @ 510', Cmtd with 400 sx C, circ 20 sx to surf	5 1/2 17# J55@ 5400', cmtd 1stg 375 sx C, Circ 20sx 730sx C, circ. 125sx	7 9 5/8 36# cmt with 200 sx, T100sx, T400sx, circ 60sx	5 1/2 15.5# @ 5366' cmt 1stg 450sx, circ 80sx, 2stg 500sx, T50sx, circ 10sx	9 9 5/8 J55/36# @ 497', cmtd w/275 sxC, T-100sxC, circ 1710sx to surf	5 1/2 J55/17# @ 5233', ctmd 1stg 400 sxC, circ 90sx; 2stg 1050sxC, T50sx , did not circ	8 9 5/8 J55/36# @519', cmt 200sxH, 300sxC	5 1/2 j55/17# @4078'	5 1/2 155 15.5# @ 5258', cmt 1675sxC, circ to surf	10 13 5/8 J55/48# @511', cmt 500sxC, circ 60sx to surf	8 5/8 j55/24# @1910', cmt 505sxC, circ 65sx to surf	5 1/2 155 15.5# @ 5351', cmt 1stg 300sxc, 2stg 1100sxC, Circ 187sx to surf	12 13 3/8 J55/48# @ 511', cmt 300 sxH, 200sxC T-100sx, circ 10sx to pit	8 5/8 J55/24# @ 2050', cmt 425sxC T200sxC, circ 165 to pit	5 1/2 J55/15.5# @ 5415', cmt 300sxC 325sxC/50C circ 30sx to pit	13 13 5/8 J55/18# @495", cmt 585sxG, (1"300sx)	8 5/8 j55/32# @3151', cmt 1628sx, circ 273sx to surf	5 1/2 P110/17# @ 8907', @ 3698' cmt 975sx, circ60sx	14 13 5/8 J55/54.5# @494.49', cmt 500sxC, circ 225sx to surf	8 5/8 j55/32# @2045.20', cmt 800sxC, circ 98sx to surf	5 1/2 J55 15.5# @ 5230, cmt 1stg 300sxc, 2stg 400sxC, Circ 18sx to surf	
Well ID Well Name	300150458800 STATE 2	300150459600 HALE-USG	300153071500 Benson Delaware Unit		300153177800 Benson Delaware Unit		300153179600 Benson Delaware Unit	300153338000 Benson Delaware Unit	300153372500 Benson Delaware Unit		300153388100 Benson Delaware Unit		300153393300 Benson Delaware Unit		300153429300 Benson Delaware Unit		300153481600 Benson Delaware Unit			300153508500 Benson Delaware Unit			300153579100 Benson Delaware Unit			300153642500 Benson Delaware Unit			300153733300 Benson Delaware Unit			

900000000000000000000000000000000000000		٦	70000 0000 0000	100		Γ
300153798700 Benson Delaware Unit		cr 8/c cr 17	3 5/8 J55/48# @505.63", cmt 500sxC, circ 225sx	xC, circ 225sx		
		8 5/8 355	5/8 j55/32# @2068.70', cmt 800sxC 1/2 J55 15.5# @ 5230. cmt @ 3698'	5/8 j55/32# @2068.70', cmt 800sxC 1/2 J55 15.5# @ 5230. cmt @ 3698' 1ste 300sxc. @ 5263.40' 2ste 500sxC		
300153221000 Benson Delaware Unit	t 3W	9 5/8 36#	9 5/8 36# @ 480', cmtd w/475sx, T-100sxC, circ 160sx 5 1/2 17# @ 5500' ctmd 1cts 300 cv 2cts 800cv circ 81cv	100sxC, circ 160sx		
300150458700 State		1 08.0	عرق عصور ما المام مصور عالم	, 23tg 00034, til t 0134		T
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300150458800 State		1 P&A				
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300152437500 Hale Fed		3 P&A	Norted 2590-2600	00		T
300153765200 Crescent Hale "1" F		1 INJ 13.375 H4 9.625 K55 5.500 17#	13.375 H40 48# @ bttm @ 553' cmt 520sx 9.625 K55 40# @ 3304' cmt 1515 sx 5.500 17# @ 13127 8671-9369, 9599-10	n @ 553' cmt 520sx ' cmt 1515 sx 8671-9369, 9599-10297, 10526-11221, 11450-12145	S	
300153190300 Land Rush 12 Fed		2 13 3/8 48; 8 5/8 32# 5 1/2 20/3	13 3/8 48# @475' cmt 300sx, T200sx, circ 164sx 8 5/8 32# @ 3210', cmt 1415sx plg dwn, did not circ 5 1/2 20/17# 1" w/400sx, circ. 8sx, 1450sx, circ. 54sx	, circ 164sx wn, did not circ 450sx, circ. 54sx		

SENTATE OF NEW MEXICO				Form C-104
ENCY AND MINERALS DEPARTMENT		ATIONADIVISIO	N S	Revised 10-1-78
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LAND SIFFICE	DECKIECT EC	OR ALLOWABLE	2 4 1983 💎 🐉	•
TRANSPORTER OAS	·	AND .	C. D. Y	
SPENATOR	AUTHORIZATION TO TRANS	SPORT OIL AND NATEUR	XXL, GAS	•
PADRATION OFFICE		טובע ז זורי.	Carice ;	·
Bel-Dyn, Inc. Pro	nantios		•	
Address	ppercies V		<del> </del>	······································
P.O. Box 136, Los	ington, N.M. 88260	•	•	
Resonts) for Irling (Check proper b		Other (Please	espiasn)	·····
New Well X	Change in Transporter of:			
Recompletion	Cil Dry C	<b>≍</b> ।		
Change in Ownership	Casinghed Gas Conde	rheale []		
Kahange of ownership give name				
and address of previous owner		<del></del>	· <del>·····</del>	
DESCRIPTION OF WELL AND	O T FASE			
Lease Name	Well No. Pool Name, Including I	ormation .	Kind of Lease	Legas No.:
Hale Federal	3 Shugart-Y co7 R	ivers OB	State, Federal or Fee	Federal 0560353
Lecetion		······································		, cooler
Unit Letier E : 19	80 Feet From The N LI	ne and <u>990</u>	Feet From The W	
Line of Section 1 T	. mahip 198 Range	30E , NMPM,		Eddy County
None of Authorized Transporter of C	RTER OF OIL AND NATURAL GA	Address (Give address to	which approved copy of	this form is to be sent?
Conoco, Inc.		4708 Andrews Highwa	•••	
Neme of Authorized Transporter of C	osingheat Gas 📝 of Dry Gas	Address (Give address to	which approved copy of	this form is to be sent)
Phillips	•	Phillips Building,	Odessa, Tevas 70	9762
If well produces oil or liquids,	Unit Sec. Twp. Rge.	Is gas actually connected		7)02
give location of tanks.	K I 19S 30E	Yes	1 1-15-6	33
this production is commingled	with that from any other lease or pool,	give commingling order	numberi	
COMPLETION DATA				
Designate Type of Complet	ion - (X)	New Well Workover	Deepen Plug Bac	Same Resty, Dilly Resty
	Date Compl. Ready to Prod.	X Total Depth	P.B.T.D	_ <u></u>
Date Spudded 1-15-83	5-23-83		; F.B. 110	•
Elevations (DF. RKB, RT, GR, stc.)		Top Oil/Gas Pay	Tubing D	) opth
3518 G.L.	On. Sd. / 7 Rivers	2590	3104	
Payforgions				saing Shoe
2590 " 20	600	·	3089	l
	TUBING, CASING, AND	CEMENTING RECORD		
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET		SACKS CEMENT
10'	8 5/8	524	Circ	ulated
7 7/8	5 1/2	3088	42	
	<del></del>	1	Top Omt. 13	uu an.
	2 3/8 Tog.	3104		
TEST DATA AND REQUEST I		fier recovery of icial valum pih or be for full 24 hours)	r of load oil and must be	e equal to or exceed top allow
DIL WELL Dete Figst New Oil Run To Toras	Date of Test	Producing Method (Flow,	pump, gas lift, etc.)	<del></del>
5-23-83	5-23-83	Swab & pump		
Length of Teet	Tubing Pressure	Casing Pressure	Chote St	" 1 + ID-2
8.		40	2"	1-83
Actual Pred. During Test	Cti-BNs.	Water - Bble.	Gas-MCI	FJFIBR
	10	170	23	6 amp
				160
GAS WELL			····	
Actual Prod. Tool-MCF/D	Length of Teet	Bble. Condensate/MMCF	CIGA11A 0	of Condensate
		<u> </u>	· · · · · · · · · · · · · · · · · · ·	<del></del>
Testing Method (pilot, back 11.)	Tubing Piesewe (Shut-in)	Cusing Freesure (Shut-1	n) Chai+ St	**
	- 1	500.00		
ERTIFICATE OF COMPLIAN	CE	<b>!</b> }	NSERVATION DIV	ISION
			2 9 1983	
hereby certify that the rules and livings have been complied with	regulations of the Olf Conservation and that the information given	Orig	inal Signed By	
bove is true and complete to th	e best of my knowledge and belief.		a.A. Clements	
	i	TITLE Supe	ervisor District H	· · · · · · · · · · · · · · · · · · ·
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			C-104 must be filed	for each pool to multiply
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## UN D STATES DEPARTMEN. OF THE INTERIOR BUREAU OF LAND MANAGEMENT

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OILCC	ERV	ATIONULE EORM APPROVED  ATIONULE EVBURGE No. 1004-0133  Expires: March 31, 1993	י לא
011 0. 101	<b>U</b> 1.		
ARTESIA.	NM	88210-2004 and Serial No.	<b>-</b> -

Service Commence	1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·	AND THE PROPERTY OF THE PROPER
lo not use this form for proposals to di		ntry to a different reservo	r.
Use "APPLICATION FO	R PERMIT—" for such	proposals	
SUBMI	T IN TRIPLICATE		7. If Unit or CA, Agreement Designation
Type of Well			<del>-</del>
Other  Gas  Well	· .		8: Well Name and No.
Name of Operator			HAle Fed #3
Mack Energy Corporation			9. API Well No. 30-015-24735
Address and Telephone No. P.O. Box 1359, Artesia, NM 882	211 (505) 748–1288	}	10. Field and Pool, or Exploratory Area
Location of Well (Footage, Sec., T., R., M., or Survey D		<del></del>	Sugart Yates SR QN Grbs
Sec.1 T-19-S R-30-E 1980'	ANT & 990' FWT. 11ni	t R	11. County or Parish, State
Sec.1 1-17-3 k-30-E 1700 1	THE & 350 THE OLD	· .	Eddy, NM
CHECK APPROPRIATE BOX	(s) TO INDICATE NA	TURE OF NOTICE, REF	PORT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTIO	
Notice of Intern	Abando	,	Change of Plans
C Noice of Intern	Recomp	**	New Construction
Subsequent Report	Pluggin	ng Back	Non-Routine Fracturing
	Casing	•	Water Shut-Off
L Final Abandonment Notice	Alterin	g Casing	Conversion to Injection Dispose Water
			(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form )
Describe Proposed or Completed Operations (Clearly state give subsurface locations and measured and true ver			
1) Set 5½ CIBP @ 3075' Cap w			
2) Set 5½ CIBP @ 2550' Cap w			
3) Load hole with mud	-·		
4) Perforate 5½ casing @ 200 plug @ 2054' W.O.C. Tag	2' Unable to pump cement top 0 1874'	o into perforations	Spot 25 sacks cement
5) Perforate 5½ casing @ 675			cement W.O.C. fntID-
Tag cement top @ 453'			9
6) Perforate 5½ casing @ 60' leaving 5½ full	circulated cement	to surface between	a 5½ & 8-5/8
7) Job completed 11-15-95	٠.	<b>在</b> 是冷慰	WED A R
		The same	Trees.
		JAN 2	Co 111
		CONTRACTOR OF STATES	er mende ka Z
		OIL GO	a o
		1949	
I hereby certify that the foregoing is the and correct		1 ( /	27.0
Signed G. G. G. G.	Title	st. Secretar	Dave 11-27-95
(This space for Federal or State office use)  Approved by Original Supposed for Autom Orders a	D.a.	destaurs Ep <b>alagor</b>	)
Approved by Coorditions of approval, if any:	Title	A	Date // 9/96
	•	•	

21SF

FORM APPROVED Form 3160-5 UNITED STATES Garenne: rate of the it igrant's Pot permi .! BUREAU OF LAND MAINICE...... NMNM-0560353 SUNDRY NOTICES AND REPORTS ON WELLS 6. If Indian, Allottee or Tribe Name Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals 7. If Unit or CA, Agreement Designation SUBMIT IN TRIPLICATE 1. Type of Well Oil Well 8. Well Name and No. 2. Name of Operator Hale Fed #2 9. API Well No. Mack Energy Corporation 3. Address and Telephone No. 30-015-24082 P.O. Box 1359, Artesia, NM 88211-1359 (505) 748-1288 10. Field and Pool, or Exploratory Area 4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sugart Yates SR QN Grbg 11. County or Parish, State Sec. 1 / 195 R 308. 2180/N + 2080/w Eddy, NM CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION TYPE OF ACTION Notice of Intent Abandonment Change of Plans Recompletion **New Construction** X Subsequent Report Plugging Back Non-Routine Fracturing Casing Repair Water Shut-Off Final Abandonment Notice Altering Casing Conversion to Injection (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*, 1) Load hole with mud Set 4½" C.I.B.P. @ 2500' Cap with 25 sacks cement Spot 40 sacks cement @ 761 Spot 38 sacks cement from 60' to surface Job completed 11-20-95 Approved as to plugging of the part book (ON) (ON) surface restoration is completed. DIST, 2 14. I hereby certify that the foregoing is 

## 811 S. 1st Stree Artesia, NM 882 i U-2834

Form 3160-5 (June 1990)	Budget Bureau No. 1004-0135 Expires: March 31,1993  5. Lease Designation and Serial No.		
	SUNDRY NOTICES A	AND MANAGEMENT  AND REPORTS ON WELLS  I or to deepen or reentry to a different reservoir.  R PERMIT—" for such proposals	NM-0560353  6. If Indian, Allottee or Tribe Name
	SUBMIT	IN TRIPLICATE	7. If Unit or CA, Agreement Designation
I Type of Well Oil Gas Well Well Weft  2. Name of Operator  3. Address and Telephone  4. Location of Well (Foo	Mack En	ergy Corporation  .rtesia, NM 88211-0960 (505)748-1288 .ription)	8. Well Name and No.  Hale Federal #1  9. API Well No.  30-015-24081  10. Field and Pool, or Exploratory Area  Sugart Yates SR QN Grb.
	Sec. 1-T19S-R30E	E 1980 FSL & 1980 FWL	11. County or Parish, State  Eddy, NM
12. CHECK	APPROPRIATE BOX(s	s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF	SUBMISSION	TYPE OF ACTION	
Subsec	e of Intent quent Report Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other	Change of Plans  New Construction  Non-Routine Fracturing  Water Shut-Off  Conversion to Injection  Dispose Water  (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work )\*

9/08/1999 RIH set CIBP @ 2500'. RIH w/tbg. set 42' plug on top of CIBP. POH to 2069' circ. hole w/gel & spot 25sx plug. POH to 740' & set 40sx plug. POH & set 60' surface plug. RD. Set Dry Hole Marker.



hereby certify that the foregoing is true and correct	Title	Production Analyst	Date	5/3/00
(This space for Federal or State office use)  Approved by	Title	PETROLEUM ENGINEER	Date	MAY 0 5 2000
Conditions of approval, if any:				
		and the second s	i	*,

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



8 5/8 618' cement w/250 sacks Cir. T.O.S. 675'

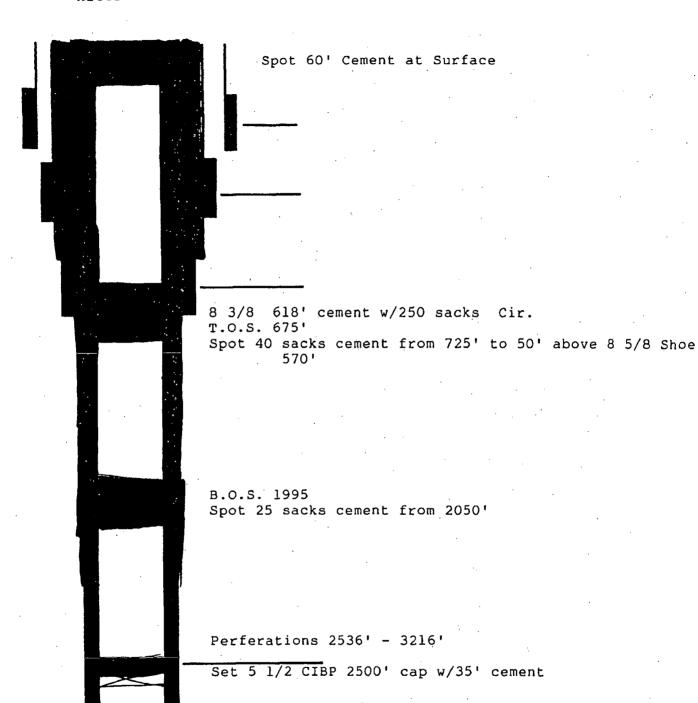
B.O.S. 1995'

Perferations 2536' - 3216'

5 1/2 3480' cement w/850 sacks cir

After

Mack .ergy Corporation Hale Fed #1



5 1/2 3480' cement w/850 sacks Cir.

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Form 9-	880 .	Ų	IPU	ノ				LAND OFF		s Cruo
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No. 3, No. 1,	from from2	305	to to	IMPORT 310 35	ANT WAT	o. 6, from TER SA o. 3, from o. 4, from CORD	n31 <del>85</del>	to	···3194	
No. 3, No. 1,	from	305	to to	IMPORT 310	ANT WAT	TER SA  0. 3, from  0. 4, from  CORD	NDS  1 3185	to	···3194	
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No. 3, No. 1,	from from2	305	to to	IMPORT 310 35	No	TER SA D. 3, from D. 4, from CORD	NDS  1 3185	to to the total transfer to the transfer to th	···3194	
No. 3, No. 1,	from from2	305	to to	IMPORT 310 35	No	TER SA D. 3, from D. 4, from CORD	n	to to the total transfer to the transfer to th	···3194	
No. 3, No. 1,	from from2	305	to to	IMPORT 310 35	No	o. 6, from FER SA o. 3, from O. 4, from CORD	n NDS n 3185 n Sind pulled from Pulled Pulled	to to the total transfer to the transfer to th	···3194	
No. 3, No. 1,	from from2	305	to to 26	IMPORT 310 35 CA	No No No SING REC	o. 6, from TER SA o. 3, from o. 4, from CORD	n NDS n 3185 n 3185 n And pulled from Pulled Pulled	to to the total transfer to the transfer to th	···3194	
No. 3, No. 1, No. 2, Bixe casing	from	305 620.	to to 26	IMPORT 310 35 CA Amount	No	o. 6, from TER SA o. 3, from o. 4, from CORD	n NDS n 3185 n 3186 n Hilled from Pulled From Pulled Record	Perfo From	7 3194	Purp
No. 3, No. 1, No. 2, Bixe casing B. 5,	from	305 620 Threads Isach	to	IMPORT 310 35 CA Amount DING AN	No No No SING REC	o. 6, from TER SA o. 3, from o. 4, from CORD	n NDS n 3185 n 3185 n And pulled from Pulled Pulled	Perfo From	···3194	Purp
No. 3, No. 1, No. 2, Bixe casing B. 5,	from	305	to	IMPORT 310 35 CA Amount	No. SING REG	o. 6, from	n NDS n 3185 n 3186 n Hilled from Pulled From Pulled Record	Perfo From	7 3194	Purp
No. 3, No. 1, No. 2, Bixe casing B. 5,	from	305	to	IMPORT 310 35 CA Amount	No.	o. 6, from	n NDS n 3185 n 3186 n Hilled from Pulled From Pulled Record	Perfo From	7 3194	Purp
No. 3, No. 1, No. 2, Bixe casing Bixe casing	from	305	to	IMPORT 310 35 CA Amount	No. SING REG	o. 6, from	n NDS n 3185 n 3186 n Hilled from Pulled From Pulled Record	Perfo From	7 3194	Purp
No. 3, No. 1, No. 2, Blue casing B. 5, Sing casing Sing casing	from	305	to	IMPORT 310 35 CA Amount DING AP	No	o. 8, from	n NDS n 3185 n 3185 n 187 n 18	Perfo Prom-	73194	Purp
No. 3, No. 1, No. 2,  Blue casing B. 5,  Size casing 5.5/8.	from	305	to to  to Mubi  Mudding Mudding Sumber sets of co	IMPORT 310 35 CA Amount III III III III III III III III III I	Notant Water No. Sing Rec	o. 8, from	n	Performance August 1997	73194	Purp
No. 3, No. 1, No. 2,  Blue casing B. 5,  Size casing 5.5/8.	from	305	to	IMPORT 310 35 CA Amount  // The control of the cont	No. SING REG  Lind of all  No. SING REG  Mothad on  No. No. SING REG  Lind of all  Lind of all  No. SING REG  Lind of all  Lind of all  Size	o. 8, from CER SA O. 3, from C	n	Performance August 1997	73194	Purp
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No. 3, No. 1, No. 2,  Blue casing B. 5,  Size casing 5.5/8.	from	305	to to  to Mubi  Mudding Mudding Sumber sets of co	IMPORT 310 35 CA Amount  IV	No. SING REG  Lind of all  No. SING REG  Mothad on  No. No. SING REG  Lind of all  Lind of all  No. SING REG  Lind of all  Lind of all  Size	o. 8, from CER SA O. 3, from C	n NDS n 3185 n 3185 n 186 n 187 n 18	Perfo	rated To-	Purp
No. 3, No. 1, No. 2, Blue casing B. 5, 7. Heavir Adapte	from	Threads to the state of the sta	to	IMPORT 310 35 CA Amount  IV	No. SING REGISTRATE WATER AND CEMES Method on Longth Size	DAPTER  D. A, from  CORD  NOTING  CORD  NOTING  CORD  NOTING  CORD  NOTING  CORD  CO	n NDS n	Perfo	3 -3194	Purp
No. 3, No. 1, No. 2, Blue casing B. 5, 7. Heavir Adapte	from	Threads to the state of the sta	to	IMPORT 310 35 CA Amount  J J J J J J J J J J J J J J J J J J	No. SING REGISTRATE WATER AND CEMES Method on Longth Size	DAPTER  Date	n NDS n 3185 n 3185 n 3185 n 187 n 1	Perfo	3 -3194	Purp
No. 3, No. 1, No. 2, Blue casing B. 5, 7. Heavir Adapte	from	Threads to the state of the sta	to	IMPORT 310 35 CA Amount DING AP Finent PLUG SHO	No.  No.  No.  SING Rea  Moderate  No.  No.  No.  No.  No.  No.  No.  No	Date	n NDS n	Perfo	3 -3194	Purp
No. 3, No. 1, No. 2, Blue casing asing saing sai	from	Threads to tack the second sec	to	SHO	No. SING REGISTRY NO. SING REG	Date	n NDS  n 3185- n 3185- n 1 186- n 1 186- n 1 186- Nul gality  Depth shell	Perfo Prom-	Depth dea	Purp land used
No. 3, No. 1, No. 2, Blue cashing assignment of the cashing ca	from	Thread :	to	SHO	No.  NO.  SING REG.  Lind of al.  Method on.  S AND AI  Leugth.  Size  OTING R  Quantity	Date  Date  Let Jeet Let Let Let Let Let Let Let Let Let	n NDS  n 3185  n 3185  n 188  n 188  n 188  n 188  n 188  n 188  RECORD  Mud grafty  Depth shat	Perfo Prom-	Depth des	Purpose and seed out
No. 3, No. 1, No. 2, Blue cashing assignment of the cashing ca	from	Thread :	to	SHO	No. SING REAL STATE OF THE STAT	Date  Date  Let Jeet Let Let Let Let Let Let Let Let Let	n NDS  n 3185  n 3185  n 188  n 188  n 188  n 188  n 188  n 188  RECORD  Mud grafty  Depth shat	Perfo Prom-	Depth des	Purpose and seed out
No. 3, No. 1, No. 2, Place Pla	from	305	to to	MPORT 310 35 CA Amount 1 DING AP FEUGS SHO SHO feet feet	No. No. SING REG	Date	n NDS  and pulled from Pulled  RECORD  Mud gratty  Depth shet	Performance Annual Annu	Depth deat to feet to	Purp nud used
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Driller Driller FORMATION RECORD TOTAL FEET FROM--FORMATION Red Bed
Anhy - Red bed
Poly & Salt crystals
Red Rock & Shale
Anhy - Red beds - Gyp
Anhy - Shale - Salt
Salt
Anhy - Poly
Line - Anhy
Anhy - Sandy shale - Red eand
Line - White, Pink, Gray.
Sand oil - Gas
Line
Shells-Shale - Show oil
Mator sand
Oil Sand - Out of oil sand 3218
Line
Show of oil 3319-3323
T.D. 400 706 720 750 815 850 2040 2185 2325 2650 2660 3138 3188 3194 3213 3328 0 400 706 720 750 815 850 2040 2185 2325 2650 2660 3138 3194 3213 3328

## FORMATION RECORD—Continued

FROM-	то-	TOTAL FEET	ECORD—Continued
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## HISTORY OF OIL OR GAS WELL

with the reasons for the work and Hz results. If there were any change made in the cital the dates of redfilling, together with the reasons for the work and Hz results. If there were any changes made in the casing, state (slift), and if any casing war indictarked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of about. If jugges or bridges were put in to test for water, state kind of material used, position, and resulte longing or bridges.

APPHOVED

ANES A KNAUF

(SUBMIT IN TRIPLICATE)

## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

Approval expires 12-31-60.
Land Office Las Crices
Lana No. I.C. 0624.57  R.E. C. C. V.E. D
IAN 1 0 1000

NOTICE OF INTENTION 3	TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-	DEF
	TO CHANGE PLANS		
	TO TEST WATER SHUT-OFF	, <u> </u>	
	TO RE-DRILL OR REPAIR WELL.		1 1
•	TO SHOOT OR ACIDIZE	I	
NOTICE OF INTENTION T	TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION 1	TO ABANDON WELL	Plugging	
	(INDICATE ABOVE BY CHEC	K MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)	
Ruly	_	August 19,	
		. from line and 1855 ft. from	line of sec?
NE NW Section	7 193 (Twp.)	31E HHFH (Range) (Meridian)	
(M sec. and sec. N	(1wp.)		
Wildost		Edity County of Subdivision) (State	Kex 10 0
		DETAILS OF WORK	
State names of and expec	ted depths to objective sands; s	DETAILS OF WORK show sizes, weights, and lengths of proposed casings; i and all other important proposed work)	ndicate mudding jobs, cement-
by setting d sack cam point and cement plu	Brilled to 3338'. 10 suck cement plug. Fulled set 10 suck cement	show sizes, weights, and lengths of proposed casings; i	i. Plugged well 2675' and set ed back to this ed set 10 sack
by setting d sack cam point and cement plu	Brilled to 3338'.  10 anck cement plant plug. Fulled seck cement plug.	show sizes, weights, and lengths of proposed casings; is and all other important proposed work)  Found water in the queen san lug at bottom. Hudded back to 7° casing from 2500° and huddet plug. Hudded back to 900° a.	i. Plugged well 2675' and set ed back to this ed set 10 sack
by setting d sack cam point and cement plu	Brilled to 3338'.  10 anck cement plant plug. Fulled seck cement plug.	show sizes, weights, and lengths of proposed casings; is and all other important proposed work)  Found water in the queen san lug at bottom. Hudded back to 7° casing from 2500° and huddet plug. Hudded back to 900° a.	i. Plugged well 2675' and set ed back to this ed set 10 sack
by setting d sack cam point and cement plu	Brilled to 3338'.  10 anck cement plant plug. Fulled seck cement plug.	show sizes, weights, and lengths of proposed casings; is and all other important proposed work)  Found water in the queen san lug at bottom. Hudded back to 7° casing from 2500° and huddet plug. Hudded back to 900° a.	i. Plugged well 2675' and set ed back to this ad set 10 sack a surface and
by setting d sack cam point and cement plu set surker	Brilled to 3338'.  Brilled to 3338'.  10 sack cement plant plug. Fulled set 10 sack cement grant plug. And pulled 8 5/6 has coment.	show sizes, weights, and lengths of proposed casings; is and all other important proposed work.  Found water in the queen samiling at bottom. Hudded back to 7s casing from 2500 and muddet plug. Mudded back to 900 a. 8s casing. Mudded hole back to	i. Plugged well 2675' and set ed back to this ad set 10 sack c surface and CAL SURVE
by setting it sack campoint and coment pluset in ricer	Orilled to 33381.  Orilled to 33381.  10 suck cement plant plug. Fulled set 10 seck cement gland pulled 8 5/1 and cument.	show sizes, weights, and lengths of proposed casings; is and all other important proposed work)  Found water in the queen sanding at bottom. Huddled back to 7" casing from 2500' and muddle plug. Mudded back to 900' as 8" casing. Mudded back to 900' as 6" casing. Mudded hole back to	i. Plugged well 2675' and set ed back to this ad set 10 sack c surface and CAL SURVE
by setting it sack campoint and coment pluset in the recr	Brilled to 3338'.  Brilled to 3338'.  10 sack cement plant plug. Fulled set 10 sack cement grant plug. And pulled 8 5/6 has coment.	show sizes, weights, and lengths of proposed casings; is and all other important proposed work)  Found water in the queen sanding at bottom. Huddled back to 7" casing from 2500' and muddle plug. Mudded back to 900' as 8" casing. Mudded back to 900' as 6" casing. Mudded hole back to	i. Plugged well 2675' and set ed back to this ad set 10 sack c surface and CAL SURVE
by setting d sack campoint and coment plu	Orilled to 33381.  Orilled to 33381.  10 suck cement plant plug. Fulled set 10 seck cement gland pulled 8 5/1 and cument.	show sizes, weights, and lengths of proposed casings; is and all other important proposed work)  Found water in the queen sanding at bottom. Huddled back to 7" casing from 2500' and muddle plug. Mudded back to 900' as 8" casing. Mudded back to 900' as 6" casing. Mudded hole back to	i. Plugged well 2675' and set ed back to this ad set 10 sack c surface and CAL SURVE
by setting it sack campoint and coment plus set marker.  I understand that this company	Drilled to 3338'.  Drilled to 3338'.  10 sack cement plant plag. Fulled set 10 sack cement plant and pulled 8 5/1 had coment.	show sizes, weights, and lengths of proposed casings; is and all other important proposed work)  Pound water in the queen samiling at bottom. Hudded back to 7s casing from 2500 and muddet plug. Mudded back to 900 as 8s casing. Mudded hole back to soveral in writing by the Geological Survey before operation.	i. Plugged well 2675' and set ed back to this ad set 10 sack c surface and CAL SURVE

IEW MEXICO OIL CONSERVATION COMMISSION

FORM C-10

## MISCELLANEOUS REPORTS ON WELLS

		(Subn	ilt to appropria	te District Off	ice as p	er Com	mission Rui	e 1106)	
Name of Com	pany	Westwar	ter Corpora	tion	Addres		7 Midland Land, Tex		
Lease	State #2	•	We	Il No. Unit	Letter	Section 2	Township	<b>S</b>	ange <b>30-E</b>
Date Work Pe	rformedo-60	Poo	l <b>Und</b> es	i ganted	1		County	Eddy	
				REPORT OF:		ppropri	·	·	·
Beginni	ng Drilling Ope	rations		g Test and Cen	nent Job		Other (E:	cplain):	
Pluggin				dial Work					
Detailed acc	ount of work do	ne, nature	and quantity of	materials used,	and resu	ılts obta	ined.	•	
10-sack 10-sack	cement plu	ig at bi	at total de ase of 8-5/8 op of 8-5/8 fextice mark	8" casing (	(7651) 5801) 1	pul sot	led 5801 5-sack ce	8-5/8" casi ment plug a	ne and set
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	•						,		·
			,					,	
							٠		
Witnessed by	John (	Brien		Position Tool P	usher		Company <b>Sou time</b>	stern Drill	ing Co.
		<del> </del>	FILL IN BELO				EPORTS ON	LY	
DF Elev.	· -	TD		PBTD	WELL D	AIA	Producing	Interval	Completion Date
		<u> </u>			· · · · · ·				
Tubing Diam	eter	Tul	oing Depth		Oil Strie	ng Diame	eter	Oil String	Depth
Perforated In	terval(s)	<del></del>			·		<del></del>	·	
Open Hole In	terval			· .	Produci	ng Form	ation(s)		
				RESULTS O	F WORK	OVER			
Test	Date of Test		Oil Production BPD	Gas Produ MCFP			Production 3 P D	GOR Cubic feet/Bb	Gas Well Potential MCFPD
Before Workover									
After Workover					T				
	OIL CONS	ERVATIO	H COMMISSION				fy that the in my knowledge		above is true and complete
Approved by	W.a.	Gre	sett		Name	l	TQ.	solo s	200
Title		0 0 AS (83	PECT##		Positi	o <b>n</b>	Age	nt	
Date		1 4 19			Comps		<u></u>	erporation	
\ <del></del>									

## WESTWATER CORPORATION

TELEPHONE MUTUAL 2-0311

1007 MIDLAND SAVINGS AND LOAN BUILDING
MIDLAND, TEXAS

May 17, 1960

111)

Oil and Gas Conservation Commission Artesia, New Mexico

Attention:

Mr. Armstrong

Gentlemen:

This day Mrs. Virginia Pickett forwarded Forms No. 102, 103 and 105 to your office for the completion of the Westwater State 2 No. 1 in Section 2, T-19-S, Eddy County, New Mexico, and in order to fulfill the requirements for the plugging and abandoning of this will I am enclosing herewith two copies of the Lane Wells Gamma Ray — Neutron log run on this well.

The 4" marker and data have been placed on this well, however, it may be 10 days to 2 weeks before the surface is completely cleaned as our plan is to do this at a time when the equipment can be used on another nearby well.

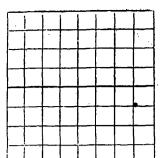
Thank you for your consideration.

Yours very truly,

WESTWATER CORPORATION

Chas. C. Green, Jr.

CCG:md Encs.



## API 30015045800 NEW MEXICO OIL CONSERVATION COMMISSION

## Santa Fe, New Mexico C C I V E D

## WELL RECORD AY 1.9 1950

WE THAN OFFICE

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE.

If State Land submit 6 Copies

		(Company or Open		** \$60 \$44** 1 *******		State #2#	
U 37-	1-2	(Company or Open	SE/4 of	2	T	19-5	30-E , NME
11 No	***************************************						Cou
, . 1	.980	leet from	South	line and	660	leet from	Rast
							***************************************
	menced	Amri					<b>8</b> , <sub>19</sub> &
							· · · · · · · · · · · · · · · · · · ·
dress	ming Contrac	To v.	Ington, New M				······
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			0.7	L SANDS OR ZO	<b>N</b>		* •
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						to.	
3, from			<b>9</b>	No. 6,	from	to	***************************************
			IMPOI	STANT WATER	SANDS		
			elevation to which				
			to			and the second second second	ilers/hr.
			to				
-			to				
. 4, from			to	***************************************		.feet	
				CASING RECOR	RD		
BIZE	WEIGH PER FO		OR AMOUNT	KIND OF SHOE	CUT AND PULLED FROM	PERFORATIONS	PURPOSE
8-5/8*	21.4	New	7651	Malliburto	L		Surface csg.
<u> </u>		AOW	107	12122001 001	, <u>1</u> 50°		Surtace cag.
	<u>_ Ľ</u>			<u></u>	<u> </u>		
			MUDDING	AND CEMENT	NG BECOBD		
BIZE OF HOLE	SIZE OF CASING	WHERE	NO. BACKS OF CEMENT	METHOD		MUD	AMOUNT OF MUD USED
12*	8-5/8*	765	50	Pumo			*
				·	<del>-</del>		
						<u>-</u>	·
لـــــــــــــــــــــــــــــــــــــ			RECORD OF	PRODUCTION A	ND STIMULA	TION	•
			he Process used, N	o, of Qu. or Gab	s. used, interval	treated or shot.)	·
<del>`</del>		(Record 1					
				***************************************	****************		***************************************
	·····	***************************************	***************************************				
				~			
				^	······································		
				^			

API 300150458800 40 f4

## If drill-stem or other special tests or deviation surveys were made, submit report on separate sheet and attach hereto

## TOOLS USED

Rotary too			0 feet to 3485	feet, and feet, and	from from		feet to	fcet.
			PRODU				•	
Put to Pro	ducing	Dry an	d Abandoned 19					
	_				,	h - 1 "	da er deter	,,
OIL WEL			during the first 24 hours was			·	•	
	was	oil;	% was emulsion;	9	water;	and	% was s	ediment. A.P.I.
	Grav	/i <b>ty</b>				•		
gas wei	L: The	production	during the first 24 hours was	М.	C.F. plu	s		barrels of
	liqui	id Hydroca	rbon. Shut in Pressurelbs.				green to the contract of	
Length of	Time Sh	ut in						
			LOW FORMATION TOPS (IN CON		with	GEOGR	APHICAL SECTION (	OF STATE):
			Southeastern New Mexico				Northwestern New	Mexico
T. Anhy.		35 25	T. Devonian	••		<b>T.</b>	Ojo Alamo	······································
T. Salt		۰۰ ۲۹	T. Silurian				Kirtland-Fruitland	
		30	T. Montoya				Farmington	
	ers. 21	.20	T, McKee				Menefee	
T. Quee	30		T. Ellenburger			T.	Point Lookout	
-	-		T. Gr. Wash				Mancos	
			T. Granite				Dakota	
			T				Penn	
T. Tubb	s		т			Т.		
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i. Miss.	<del>-</del>		FORMATIO			1.	***************************************	•/••••••••••
From	To	Thickness in Feet	Formation	From	То	Thickness in Feet	Formatio	on
0	15	15	Caliche					<u> </u>
15	435	420	Red shale & sand					
435 465	465 725	30 260	Anhydrite Anhy, & red shale					
725	1925	1200	Salt & potash					
1925 2130	2130	205 290	Anhydrite Anhy, w/stks, red sand		,			
2420	2500	80	Red sand & shale	1	1	O!	ARTESIA DISTRICT	
2500	3070 3120	570	Dolomite w/stks red sand		<u> </u>	15 (2)	ANTON BIS KING	OFFICE /
3070 <b>3120</b>	3300	50 180	Red send Dolomite				มีเราหมู่ปฏิเกา	
3300	3340	140	Red & grey sand			} <b>-</b> ·		170.
3340 3415	3415 3485	75 70	Dolomite Sandy Dolomite T.D.		1.	on any Visit		MISHED
	\				}	55173. FI		
					l		ON OFFICE	
					1	J. S. G. S	OFFICE	
						KANSPO		-4
					-	FILE	<del> </del>	<del>-,   ,</del>
			,		. [	UREAU	OF MINES	
		}						- Andrewson of the Publishers
			ATTACH SEPARATE SHEET IF	ADDITION	IAL SPA	CE IS N	VEEDED	
• •								
			that the information given herewith is	a complete a	na correc	t record o	or the well and all work	done on it so fai
					May	17, 1	1960	
			Westwater Corporation	*			i Sav. & Loan Bl	(Date)

## WESTWATER CORPORATION

TELEPHONE MUTUAL 2-0311

1007 MIDLAND SAVINGS AND LOAN BUILDING

MIDLAND, TEXAS

**351)** 

Pg1 0+3

May 17, 1960

API 300150458800

Oil and Gas Conservation Commission Artesia, New Mexico

Attention:

Mr. Armstrong

Gentlemen:

This day Mrs. Virginia Pickett forwarded Forms No. 102, 103 and 105 to your office for the completion of the Westwater State 2 No. 1 in Section 2, T-19-S, Eddy County, New Mexico, and in order to fulfill the requirements for the plugging and abandoning of this will I am enclosing herewith two copies of the Lane Wells Gamma Ray - Neutron log run on this well.

The 4" marker and data have been placed on this well, however, it may be 10 days to 2 weeks before the surface is completely cleaned as our plan is to do this at a time when the equipment can be used on another nearby well.

Thank you for your consideration.

Yours very truly,

WESTWATER CORPORATION

Chas. C. Green, Jr.

CCG:md Encs.

Pg Z of 30015	3 NEW	MEXICO	OIL CONS	ERYAT	TION C	OMMISSIO	N WAY		FORM C-103
F1701 30013			NEOUS R				e 1106)	4 - 142 1	
Name of Company	Westwater	Corporat	ion	Addres		Midland	Savings (	Los	n Bldg.
Lease State		Well	No. Unit	Letter		Township		Range	30-E
Date Work Performed	Pool	Undesi:		/		County	Eddy		
	·		EPORT OF:						
Beginning Drilling Plugging	ng Operations		Test and Cen ial Work	nent Job	L.	Other (E:	xplain):		
Detailed account of w	ork done, nature and	quantity of m	aterials used.	and resi	ults obtai	ined.			
						-			
Witnessed by	ohn O'Brien		Position Tool P				stern Dri	lling	Co.
	FIL	L IN BELOW	FOR REME ORIGINAL			PURISON	ILY		
D F Elev.	T D		PBTD			Producing	Interval	Com	pletion Date
Tubing Diameter	Tubing	Depth	. <u></u>	Oil Stri	ng Diame	ter	Oil Strin	g Depth	
Perforated Interval(s)				<del></del>			<del></del>	• .	
Open Hole Interval				Produci	ing Forma	ation(s)		<del></del>	<del> </del>
			RESULTS O	F WORI	KOVER	<del></del>			
Test		Production BPD	Gas Produ MCFP			Production PD	GOR Cubic feet/	Вы	Gas Well Potential
Before Workover									
After Workover			<u> </u>			·			
OIL	CONSERVATION C	OMMISSION		I her	eby certif e best of	fy that the in my knowleds	formation give	n above	is true and complete
Approved by	a Gres	sett		Name	P	N?	ola	2Q (	I
Title	AL ARR BAS (BSPE)	:T##		Posit	ion	Age	mt		·
Date .	JUN 1 4 1960			Comp		strator /			

Westwater Corporation

2930F3 API 30015045880

ARTESIA DIST	RICT OFFICE	
No. Copies Received		3
DISTAR	MOITU	
	esseries Cricoses	
OPERATOR		
SANTA FE	/	
PRORATION OFFICE		}
STATE LAND OFFICE	reservation and the contract of the contract o	!
U, S. G. S.		
TRANSPORTER	and the second s	17
FiLE	/	1
OF MINES		1

API 300150458700 POIOF 3 4704

u to

## NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexic

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WELL RECORD

Matti to Oil Conservation Commission. Sants Fo. New Markey. or its proper opens not more than Irward year older commission of well. Follow instructions in the Rules and Regulations of the Commission, Indicate questionable data by following world Commission of the Commission of the

TOCY.	LE METT CON	RECTL	Y	701	C 105	19 710	PERLY F	iTED O	ÚT.				
A	. J. Har	rdend	lorf					P. (	. Box	200	6. art	esia, S	ow Mexico
	tate	Соправу	и Орег	vell No								т	
	Lesses O ≥ .		<b>'</b>	Ras									
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If State	land the oil	and g	as lease	is No E	-36]	.2_	Ass	Ignmer	nt No	5			
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If Gove	roment land	the pe	mittee	is					, Ac	ldress	\	ala ba	
The Le	uee is	1/ -	<u></u>	narge	naoi	.n. 4	15 7		, Ad	idresa 	ARIC   Sant	ember 1	W Caxles
Name o	commenced drilling cor	tractor		ale Tr	onae	i			Address	علب	tesin,	hew le	xi co
Elevation	n above sea	level a	t top of	casing	3521	L	fe	et.					
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No. 1, 1	rom 2390	2	t	260	8		_ No.	4, fro	m	318	5	to31	92
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No. 3, 1	rom_308	o	t	309	20		No.	6, tro	m			to	
					Імроі	RTAN	T WAT	TER SA	ANDS				
Include	data on rate	of wa	ter inflo	w and ele	vation	to w	hich wa	ter ro	se in hole	<b>.</b> .			
				t					fe				
	rom												
No. 3, 1	rom	32	98	t	o	331	0		fe	et			
No. 4, 1	rom			t	o					oL _		·	
						CABE	NG RE	COED					
512E	WEIGHT PER FOOT	TH	READS INCH	MAKE	ANO	UNT :	KIND	07	CUT & F	LLED		FORATED	PURPOSE
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				MUD	DING	AND	CEME	NTING	BECOR	D		•	
SIZE O HOLE	SIZE OF CASING	WHER	E SET	NO. BAC OF CEME	KS.	ME	THOD U	SED	MU	D GRA	VITY	AMOUNT OF	MUD USED
10"	8-5/6"	72	31	25			ibur	ton					
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Adapter	s—Material .					Si	ze						
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						_							
Results	of shooting	or cher	nical tre	eatment									
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lf drill-	stem or other	r specia	al tests	or deviati	on sur	veys	were m	ade, si	ubmit rep	ort or	separate	sheet and a	attach bereto.
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Cable to	ools were use	d fron	o	0	foet	to	3310	0 100	t, and fr	om		feet to	feet
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-	ell, cu. ft. po essure, lbs. p						Gall	ions ga	rèoline pe	r 1,000	cu. ft. of	gas	
-wa pr		~~ <b>sq</b> .					 PLOYE	Z#				•	
						Dri	ller						, Driller
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l hereby done on	y swear or al	itirm ti can be	hat the determi	informatio	n give	n he	rewith i		mplete an		ect record	of the well	and all work
		•											
aut :		- 4c 1						<b>r</b> t	est			o <del>n t em <b>ba</b>l</del>	<del>r 7, 194</del> 5
	bed and swor			· ms7			Nan		u JN	ari	deus	erj	
day of	- septe	m bo 1	5.	2/1/	10	5-	Pos	ition	U.	-641	<del>10 F</del>		
		<del>,</del>	<del></del> -	No	ary P	ıblie.	Rep	resent	ing		Jirr 19	ndorf	
W- C	nmission :	tres :	P.S.	25 /	- ئى ن	7	4				_, _ ope	- ,	

API 30015 045 8700 Pg 20F3

			DRMATION RECORD
FROM	10	THICKNESS IN PERT	FORMATION
O 5	5 1 60	r	Sand
60	125		Cypsum Sand
125 180	180 195		Sandy Red Rock
195	275		Red lead Red Bed
275	445		Red Rock
445 515	515 530		Anhydrite White Rock
530	803		Anhydrite
608	612		Broken Anhydrite
612 655	655 680		Anhydrite Red Bed
680	1090	·	Salt
1090	1160		Salt & Potash
1160 1225	1225 1290		Salt Salt and Fotash
1290	1635		Salt
1635 1690	1690 1860		Anhydrite & Salt Salt
1860	2060		Anhydrite
2060 2100	2100 2115		lime Red Sand & Anhydrite
2115	2185		Ambydrite
2185 2210	2210 2450		Anhydrite - Sand Anhydrite
2450	2470		Brown Sandy Shale
2470	2495 2560		Lime - Broken
2560	2567		white Line
2567	2590		Lime
2590 2592	2592 25 <b>97</b>		Sand Sand & Lime Sh <b>alls</b>
2597	2608		Sand - Broken
2608 2613	2613 2622		Hard Lime Cray Lime
2622	2633		Lime
2633 2643	2643 2652	1	Gray Lime
2652	2663		Lima Cray Lime
2663	2675		Line
2675 2685	2685 2690	•	Gray Lime Lime
2690	2702		Light Gray Lime
2702 2747	2747		Gray Lime
2755	2770		Gray Lime
2770	2786		Lime
2786	2802		Gray Lime - Sandy Sandy Lime
2808	2812		white Lime
2812 2817	2817		Gray Lime
2329	2829 2850		Fink Lime - Sandy
2850	2860		Lime
2860 2878	2878 2897		Gray Line - Sandy Fine Sand
2897	2903		Lime
2903 2923	2923		Red Sand Hard Line
2932	2945		Oray Lime
2945 2953	2953 2965		Fink Lime   Gray Lime
2965	2969		rime
2969 2978	2978 3005		Gray Lime
3005	3010		Dark Lime Lime - Broken
3010	3025		Line
3025	3031 3036		Lima
3036	3040		Fink Lime
3040	3047		Gray Lime - Jandy
304.7 3060	3060 3125		Fink Lime top a selection
3125	3128		±1me⊤
3128 3139	3139 3150		Gray Lime - Sandy     Lime - Sandy
3150	3160		Pink Lime
3160	3164	,	Gray Lime
3164	3174		Lime Fink Lime
3181	31 85		Lime
3185	31,98	1	Sand
3198	3209 3£39		Pink Gray Lime Gray Lime
3209 3239	3247	1	White Lime
3247	3252		Srown Lime
3252 3259	3259 3261		Lime Gray Lime
3261	3269		Brown Lime - droken
3268	3277	]	"hite Lime
3277 3285	3285 3298		white Line; Show to it will
3298	331.0		Fine Gray Sand T. J.
		1	
1	1	1	

Form C-103

Api300150458700 pg 30+3

## OIL CONSERVATION COMMISS.ON

Santa Fe. New Mexico

## MISCELLANEOUS REFORTS OF WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the wors specified is completed. It should be signed and sworn to before a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

	e of teb	ort by checking belo	DW1		
REPORT ON BEGINNING DRILLING OPERA- TIONS		REPORT ON F	REPAIRI	G WELL	
EPORT ON RESULT OF SHOOTING OR CHEMICAL TREATMENT OF WELL		REPORT ON I		OR OTHERW	ISE
EPORT ON RESULT OF TEST OF CASING SHUT-OFF		REPORT ON I	DEEPENI	NG WELL	
REPORT ON RESULT OF PLUGGING OF WELL	X				
A:	rtesia,	New Mexico		December 17	
OIL CONSERVATION COMMISSION, ANTA FE, NEW MEXICO. Centlemen:		Place	-		ate
Following is a report on the work done and the res			ling noted	above at the	
A. J. Hardendorf Company or Operator	<u>;                                  </u>	State Lease	Well	No1	in the
SW NE NE of Sec.	2	T. 198	TP.	30E	, N. M. P. M.,
Wildcat Field,		Eddy	, .~		County,
he dates of this work were as follows:		October 2,	1945		
lotice of intention to do the work was (was not)	submitted	on Form C-102 on.		Sept. 7,	19 45
1875' base of salt and set bridge				1	a wron mad
723' in 8 1/4" casing and set brid surfaxw and XXX cemented regulation	ge and	cement plúg o	sax, t	hen filled ; then fill	with mud to
723' in 8 1/4" casing and set brid surfaxw and XXX cemented regulation  Witnessed by	ge and n marke	cement plug o er.  Thomas Oil C	sax, tf 5 sax	hen filled; then fill	with mud to ed with mud
723' in 8 1/4" casing and set brid surfaxw and XXX cemented regulation  Dala Thomas	ge and n marke	cement plúg o er.	sax, tf 5 sax	; then fill	with mud to ed with mud
723' in 8 1/4" casing and set brid surfaxw and XXX cemented regulation  Vitnessed by	ge and n marke	cement plug o er.  Thomas Oil C	sax, tf 5 sax  0.  affirm th	; then fill	with mud to ed with mud or
723' in 8 1/4" casing and set brid surfaxw and XXX cemented regulation  Vitnessed by   Dale Thomas  Name  Subscribed and sworn before me this	ge and n marke	Thomas Oil C Company I hereby swear or is true and correct.	sax, t f 5 sax  0. 7	; then fill	with mud to ed with mud or Title
723' in 8 1/4" casing and set brid surfaxw and XXX cemented regulation  Vitnessed by	ge and n marke	Thomas Oil C  Compani  I hereby swear or is true and correct.	sax, t f 5 sax  0. 7	; then fill  Contract  at the informat	with mud to ed with mud or
723' in 8 1/4" casing and set brid surfaxw and XXX cemented regulation  Vitnessed by   Pale Thomas  Name  Subscribed and sworn before me this	ge and n marke Dale	Thomas Oil C Company I hereby swear or is true and correct. Name	sax, t f 5 sax  0. 7	; then fill  Contract  at the informat	with mud to ed with mud or
723' in 8 1/4" casing and set brid surfaxw and XXX cemented regulation  Vitnessed by	ge and n marke Dale	Thomas Oil C Company I hereby swear or is true and correct.	sax, tf 5 sax  o.  affirm th	; then fill  Contract  at the informat	with mud to ed with mud or
723' in 8 1/4" casing and set brid surfaxw and XXX cemented regulation  Witnessed by   Dale Thomas  Name  Subscribed and sworn before me this	ge and n marke Dale	Thomas Oil C Company I hereby swear or is true and correct. Name	sax, tf 5 sax  O.  Taffirm th	Contract  at the informat  or Operator	or Title
723' in 8 1/4" casing and set brid surfaxw and XXX cemented regulation  Witnessed by   Dale Thomas  Name  Subscribed and sworn before me this  day of	ge and n marke Dale	Thomas Oil C Company I hereby swear or is true and correct. Name Position Representing	sax, tf 5 sax  O.  Taffirm th	Contract  at the informat  or Operator	with mud to ed with mud or
723' in 8 1/4" casing and set brid surfaxw and XXX cemented regulation  Witnessed by   Dale Thomas  Name  Subscribed and sworn before me this  day of  Notary Publ	ge and n marke Dale	Thomas Oil C Company I hereby swear or is true and correct. Name Position Representing	sax, tf 5 sax  O.  Taffirm th	Contract  at the informat  or Operator	with mud to ed with mud or

## RECEIVER

## NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103

## MISCELLANEOUS REPORTS ON WELLS

		(Submit to	o appropriate	District Off	ice as p	er Comi	nission Rul	e 1106)	*	:8
Name of Co	ompany	Westwater	Corporat	ion	Address		Midland and, Tex	Savings &	Loan	Bldg.
Lease	State #2		Well	No. Unit	Letter I	2	Township	8	Range	30-B
Date Work	Performed -60	Pool	Undesi,	dated	,	ľ	County	Eddy		
			THIS IS A R	EPORT OF:	(Check a	ppropria	te block)			
Begin	ning Drilling Op	erations	Casing	Test and Cem	ent Job		Other (Ex	cplain):		
Plugg	ing		Remedi	ial Work						
Set 25- 10-saci 10-saci	-sack cemen c cement pl	t plug at tug at tug at base ug at top cor Hew Hext	of 8-5/8"	th (3485); " casing ( casing (5	10-s 7651) 1801) I	ack pl pull	ug at bas ed 580° s	9-5/6" cas	ung a	nd set
<b> </b>									•	
				•						
					•		. •	•		
-										
Witnessed	John	O'Brien	P	osition Tool Pu	aher		Company Southwe	stern Dril	Lling	Co.
		FILI	L IN BELOW	FOR REME			PORTS ON	LY		
D F Elev.	7.4 · · · · · · · · · · · · · · · · · · ·	T D	<del></del>	PBTD	WELL D		Producing	Interval	Com	oletion Date
Tubing Dia	meter	Tubing	Depth		Oil Strin	g Diame	ter	Oil Strin	g Depth	<u>.</u>
Perforated	Interval(s)				,					
Open Hole	Interval	,			Producii	ng Forma	tion(s)			
				RESULTS O	WORK	OVER				
Test	Date o Test		Production BPD	Gas Produc			roduction PD	GOR Cubic feet/I	ЗЫ	Gas Well Potential MCFPD
Before Workover			************							
After Workover	,		<u> </u>			·				
	OIL CON	SERVATION CO	DMMISSION		I here to the	by certif best of	y that the inf my knowledg	formation given	n above	is true and complete
Approved	by W. a.	Gres	sett	•	Name	l	R	Dla	2	D
Title	GIL AT	IN BAS INSPEC	T#>		Positi	on	Age	nt		
Date	JUL	1 4 1960			Compa	•	stwater C	erporation	3	,

## Munchkin Federal #3 Benson Delaware Unit 3

Sec. 1-19S-30E 2230' FSL & 1750' FWL

4th plug: 550-450'

3rd plug: 2078-1978'

**2nd plug**: 4105-4005' 45sks

1st plug: 6393-6293' 50sks 

## Benson Delaware Unit Federal No. 1

(current wellbore) API # 30-015-30715

1060' FSL & 2210' FWL Section 1, T19S R30E

2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 494'

Lead 275sx C, Tail 100sx C, circ 170sx, cmt at surface

5-1/2" 15.5# J55 @ 6707"

1stg 500sx C(TOC 4170); 2stg Lead-500sx C, Tail-200sx C(TOC 330') DV Tool @ 3479'

4725-4740 (2spf)

Perfs:

4922-41; 4954-74' (2spf)

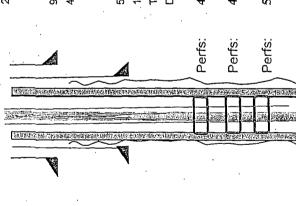
Perfs:

5086-5122' (2 spf) 72 holes

Perfs:

# Benson Delaware Unit Federal No. 4 (current wellbore) API # 30-015-31779

330' FNL & 1980' FWL Section 12, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36/48# J55 @ 506' 450sx C, circ 300sx to surface

5-1/2" 17# J55 @ 5526"

1stg 400sx C, circ 63sx; 2stg 650sx C, circ 53sx to surface

TOC @ surface

DV Tool @ 3921'

4806-10'; 4818-30'; 4831-56' (2spf)

4940-45'; 4952-62' (2spf)

5030-45'; 5010-16' (2 spf)

## Benson Delaware Unit Federal No. 5 1700' FNL & 1980' FWL API # 30-015-33725 (current wellbore)

Section 12, T19S R30E



300sx C, circ 108sx, cmt at surface 9 5/8" 36# J55 @ 525'

1stg 200sx C, 2stg 750sx C; circ 199x. 5-1/2" 15.5# J55 @ 5400" TOC @ 1450'

DV Tool @ 4242' 4605-10; 4618-21'(2spf)

Perfs:

4653-58' (1spf)

Perfs:

4844-39; 4835-33;4821-20;4802-01;4797-94' (1spf)

4955-60'; 4965-72'; 5006-08';5012-15' (2spf)

Perfs:

Perfs:

5053-58'; 5036-44' (2 spf)

Perfs:

2-7/8 6.5# lined injection tubing

## Benson Delaware Unit No. 6

API # 30-015-33881 660' FNL & 810' FWL Section 12, T19S R30E (current wellbore)

2-7/8 6.5# lined injection tubing

400sx C, circ 20sx, cmt at surface 9 5/8" 36# J55 @ 510'

5-1/2" 17# J55 @ 5400"

1stg 375sx C, circ 20sx; 2stg 730sx C; circ 125sx.

TOC @ 3686'

DV Tool @ 3458'

4542-80' (2spf)

Perfs:

Perfs:

4776-80'; 4818-24'; 4839-44'; 4874-79'; 4892-95' (2spf)

5008-10'; 5028-40';5055-60' (2 spf)

Perfs:

## Benson Delaware Unit No. 8 (current wellbore)

API # 30-015-34816

SHL: 2500' FNL & 660' FWL BHL: 1980' FNL & 660' FWL Section 121, T19S R30E



9 5/8" 36# J55 @ 519' 200sx H,300sx C, didn't circ 5-1/2" 17# J55 @ 4078", 15.5# J55 @ 5258' 1stg 300sx C, 2stg 1100sx C; circ 187sx, to surface TOC @ surface

DV Tool @ 3688'

4600-4606;4618-25' (4spf)

Perfs:

4700,4795,4797,4803,4804,4814' (2spf)

Perfs:

4825,4831,4832,4836,4838,4846,4847,4851,4852' (2spf)

Perfs:

5002-5035' (2 spf)

Perfs:

## Benson Delaware Unit No. 9

990' FNL & 300' FEL Section 11, T19S R30E API # 30-015-34293 (current wellbore)

2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 497' 375sx C, circ 129sx, cmt at surface

5-1/2" 17# J55 @ 5233"

1stg 400sx C, oirc 90sx; 2stg Lead 1050sx C, Tail 50sx; didn't circ.

TOC @ 600'

DV Tool @ 3675'

4488-4510' (2spf) Perfs:

Sqzd Perfs: 4567-88'

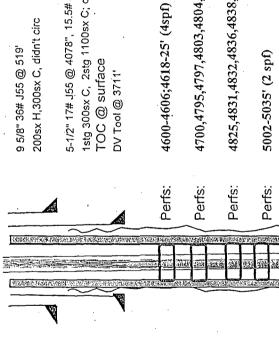
Perfs: 4826-38'; 4850-60 (2spf) CIBP: 5000'

5092,5091,5075,5074,5073,5072,5065,5064,5060,5059,5043,5035' (2 spf) Perfs:

## Benson Delaware Unit No. 10

API # 30-015-35085 2200' FNL & 330' FEL (current wellbore)





2-7/8 6.5# lined injection tubing

200sx H,300sx C, didn't circ 9 5/8" 36# J55 @ 519'

1stg 300sx C, 2stg 1100sx C; circ 187sx, to surface 5-1/2" 17# J55 @ 4078", 15.5# J55 @ 5258' TOC @ surface DV Tool @ 37111

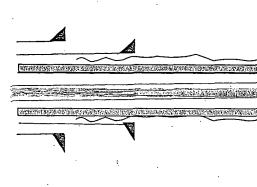
4700,4795,4797,4803,4804,4814' (2spf)

4825,4831,4832,4836,4838,4846,4847,4851,4852' (2spf)

5002-5035' (2 spf)

## Benson Delaware Unit 12

(existing wellbore)
API,# 30-015-35791
2547' FNL & 519 FWL
Section 12, T19S R30E



DV tool @ 3700°

8-5/8" 24# J55 @2051' cmt at surface (circ)

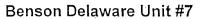
13-3/8" 48# J55 @ 511

cmt at surface (circ)

5-1/2" 15.5# J55 @ 5,415' Cmt to Surface

4870-88' (2 sfp), 4590-4604', 4613-4615' (2 spf) 4494-4515 (2 spf)

Perfs:



Sec. 12-19S-30E

SHL: 2475' FNL & 2310' FWL BHL: 1980' FSL & 1980' FWL TEMPORARILY ABANDONED

12 1/4" csg @ 526' w/600sx H&C

RBP @ 4900'

PERFS: 4993-5000

5 1/2" csg @ 5366' MD & 5228' TVD W/1000sx C

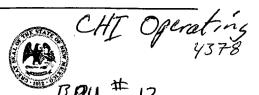
PBTD: 5434'

			<u> </u>	P1600	
DATE IN 2,9,12 SUSPEN	se engineer TU	J LOGGED IN 2.9.12	TYPE WFX	APP NO. 120404	1898

ABOVE THIS LINE FOR DIVISION USE ONLY

## NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINISTRATIVE APPLICATION CHECKLIST 30-0/5-3579/
TH	IS CHECKLIST IS	MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE
Applica	DHC-Do PC-I	ms: candard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] candard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] conduction [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] conduction [PLC-Pool/Lease Commingling] conduction [PMX-Pressure Maintenance Expansion] conduction [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] conduction Response]
[1]	TYPE OF A	APPLICATION - Check Those Which Apply for [A]  Location - Spacing Unit - Simultaneous Dedication  NSL NSP SD  NSL SD
	Che [B]	ck One Only for [B] or [C]  Commingling - Storage - Measurement  DHC CTB PLC PC OLS OLM
	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  WFX PMX SWD IPI EOR PPR
	[D]	Other: Specify
[2]	NOTIFICA [A]	TION REQUIRED TO: - Check Those Which Apply, or Does Not Apply  Working, Royalty or Overriding Royalty Interest Owners
,	[B]	Offset Operators, Leaseholders or Surface Owner
	[C]	Application is One Which Requires Published Legal Notice
	[D]	
	[E]	For all of the above, Proof of Notification or Publication is Attached, and/or,
	[F]	☐ Waivers are Attached Bonson Pelow (9708)
[3]		U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office  For all of the above, Proof of Notification or Publication is Attached, and/or,  Waivers are Attached  CCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE  CATION INDICATED ABOVE.
	al is <b>accurat</b>	CATION: I hereby certify that the information submitted with this application for administrative and complete to the best of my knowledge. I also understand that no action will be taken on this required information and notifications are submitted to the Division.
<b>→</b>	No	ote: Statement must be completed by an individual with managerial and/or supervisory capacity.
Kan	Morbe	H tan Colott tigaloton 1/11/12
Print o	r Type Name	Hen Cubath Regulatory United Date  Signature (432) (85-500) Panc Chienery inc. con e-mail Address

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

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

FORM C-108 Revised June 10, 2003

## APPLICATION FOR AUTHORIZATION TO INJECT

Ι	PURPOSE: Secondary Recovery Pressure Maintenance X Disposal Storage Application qualifies for administrative approval? X Yes No
II.	OPERATOR:CHI OPERATING, INC
•	ADDRESS:P.O. BOX 1799, MIDLAND, TEXAS 79702
	CONTACT PARTY:GARY WOMACKPHONE:432-685-5001
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:
	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.  Attach data on the proposed operation, including:  1. Proposed average and maximum daily rate and volume of fluids to be injected; 2. Whether the system is open or closed; 3. Proposed average and maximum injection pressure; 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
*VIII.	Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
*X.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted)
*XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
	NAME:Pam CorbettTITLE:REGULATORY CLERK
	NAME:Pam CorbettTITLE:REGULATORY CLERK
*	E-MAIL ADDRESS:pamc@chienergyinc.com
DIST	RIBUTION: 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 or assembly used.

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

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

## XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

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

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

C108 Application CHI Operating, Inc.

Benson Delaware Unit #12

API # 3001535791 SHL: 2547' FNL & 519' FWL

BHL: 2310' FSL & 800' FWL

Section 12, T-19S-30E, Eddy County, New Mexico

- I. The purpose of the application is to request approval to convert the Munchkin Fed. #12 to a produced water injection well in the Delaware formation.
- II. CHI Operating, Inc.c/o P.O. Box 1799Midland, Texas 79702Contact: Gary Womack, Engineer
- III. Injection well data sheet is attached. In addition, wellbore schematic diagrams are attached showing the current and proposed wellbore configurations.
- IV. This is not an expansion of an existing project.
- V. A map showing all wells/leases within a 2-mile radius of the Benson Delaware Unit #12 is attached. Also attached is a map showing all wells within a ½ mile radius of the Benson Delaware Unit #12.
- VI. Area of review well data is attached. As shown in the table, there is only five existing wells within the AOR, all are operated by CHI Operating, Inc. These wells are adequately cased and cemented so as to preclude the migration of injected fluid from the proposed injection interval.

- VII. 1. The average injection rate is anticipated to be approx. 4000 BWPD.
  - 2. This will be a closed system.
  - 3. The proposed average and maximum injection pressure will be 1400#.
  - 4. Produced water from the Delaware formation originating from wells that CHI Operating, Inc. operates in this area will be injected into the subject well.
  - 5. N/A

## VIII. Geological Data

- 1. Lithologic Detail; Sandstone
- 2. Geological Name; Benson Delaware
- 3. Thickness; 900'
- 4. Depth; 4600-5158'
- IX. The proposed stimulation program will be 5000gal Acid, 30,000# Sand.
- X. Logs were filed at the time of drilling.
- XI. There are no fresh water wells within 1 mile of the Injection well.
- XII. We have examined the available geologic and engineering data and find no evidence of open faults or any other hydraulic connection between the disposal zone and any underground source of drinking water.
- XIII. Proof of notice is attached. ?

Chi Operating, Inc.

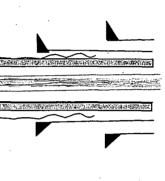
Date: 12/27/11

Gary Womack, Engineer

## Benson Delaware Unit 12 (existing wellbore)

(existing wellbore)
API # 30-015-35791
2547' FNL & 519 FWL
Section 12, T19S R30E

DV tool @ 3700'



13-3/8" 48# J55 @ 511' cmt at surface (circ)

8-5/8" 24# J55 @2051' cmt at surface (circ)

5-1/2" 15.5# J55 @ 5,415° Cmt to Sùrface

> 4870-88' (2 sfp), 4590-4604', 4613-4615' (2 spf) 4494-4515 (2 spf)

Perfs:

OPERATOR:

WELL NAME & NUMBER:

WELL LOCATION:

WELLBORE SCHEMATIC

## INJECTION WELL DATA SHEET

CHI OPERATING, INC.		
ER: Benson Delaware Unit #12	2	
SHL: 2547' FNL & 519' FWL BHL: 2310' FSL & 800' FWL OOTAGE LOCATION	L 12 12 ONIT LETTER SECTION	19S 30E TOWNSHIP RANGE
DRE SCHEMATIC	NETT	WELL CONSTRUCTION DATA
	Surface	Surface Casing
	Hole Size:17 1/2"	Casing Size:13 3/8"
	Cemented with:600sx.	or
	Top of Cement: SURFACE	Method Determined: CIRCULATED
	Intermedia	Intermediate Casing
	Hole Size:11"	Casing Size: 8 5/8"
	Cemented with:625 sx.	or ft <sup>3</sup>
	Top of Cement:SURFACE	Method Determined: CIRCULATED
	Production	Production Casing
	Hole Size: 7 7/8"	Casing Size: 5 1/2"
	Cemented with:625_ sx.	<i>or</i>
	Top of Cement: 200	Method Determined:CBL
	Total Depth:Liner top	
	Injection	Injection Interval
	4600 feet	st to 5158

(Perforated or Open Hole; indicate which)

## INJECTION WELL DATA SHEET

T	Tubing Size: 2 7/8 Lining Material: CEMENT	
$Ty_1$	Type of Packer:	
Pac	Packer Setting Depth:	
Ott	Other Type of Tubing/Casing Seal (if applicable):	
	Additional Data	
	Is this a new well drilled for injection?	
	If no, for what purpose was the well originally drilled?  Oil well	
		I
5:	Name of the Injection Formation:DELAWARE	
ω.	Name of Field or Pool (if applicable):	
4.	Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used.	
	Queen 3790-3794" Squeeze under retainer	
5.	Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area:	
	QUEEN 2914' (OVERLYING)	-
	BONE SPRING LS 6090' (UNDERLYING)	

## Notice of Application for Fluid Injection Well Permit

Chi Operating, Inc., c/o Gary Womack 432-685-5001, P.O. Box 1799, Midland, TX 79702 is applying to the NMOCD for a permit for a Water Injection Well into a formation which is production of oil and gas. The applicant proposes to convert 2 existing Delaware oil wells(Benson Delaware . #2 & #12) into Water Injection wells. The proposed injection wells are located in Section 1 & 12, T19S, R30E in, Eddy Co., NM. Fluid will be injected into strata in the subsurface depth interval from 4494-4615 in section 12 and 4600-5158 in section 1.

Sect

Interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

## Chi Operating, Inc. is the leaseholder of AOR

## Notices were sent to:

Intrepid Potash Inc. 707 17<sup>th</sup> Street Ste. 4200 Denver, Co. 88202 Attn: Katie Keller

Cert # 7003 1680 0006 6222 3840

BLM 620 E. Greene Carlsbad, NM 88220 Attn: Wesley Ingram

Cert # 7003 1680 0006 6222 3857

ω	(L)		113			,				<del>.</del>		1. 1	$\overline{}$	<b>S</b> :
300153733300 Benson Delaware Unit	300153642500 Benson Delaware Unit	300153579100 Benson Delaware Unit	300153508500 Benson Delaware Unit	300153481600 Benson Delaware Unit	300153429300 Benson Delaware Unit	300153393300 Benson Delaware Unit	300153388100 Benson Delaware Unit	300153372500 Benson Delaware Unit	300153179600 Benson Delaware Unit 300153338000 Benson Delaware Unit	300153177800 Benson Delaware Unit	300153071500 Benson Delaware Unit	300150459600 HALE-USG	300150458800 STATE 2	Well ID Well Name
						·								Well Number
	13 13 5/8 J55/18# @495", cmt 585sxC, (1"300sx) 8 5/8 J55/32# @3151', cmt 1628sx, circ 273sx to surf 5 1/2 P110/17# @ 8907', @ 3698' cmt 975sx, circ60sx	12 13 3/8 J55/48# @ 511', cmt 300 sxH, 200sxC T-100sx, circ 10sx to pit 8 5/8 J55/24# @ 2050', cmt 425sxC T200sxC, circ 165 to pit 5 1/2 J55/15.5# @ 5415', cmt 300sxC 325sxC/50C circ 30sx to pit	10 13 5/8 J55/48# @511', cmt 500sxC, circ 60sx to surf 8 5/8 J55/24# @1910', cmt 505sxC, circ 65sx to surf 5 1/2 J55 15.5# @ 5351', cmt 1stg 300sxc, 2stg 1100sxC, Circ 187sx to surf	8 9 5/8 J55/36# @519', cmt 200sxH, 300sxC 5 1/2 J55/17# @4078' 5 1/2 J55 15.5# @ 5258', cmt 1675sxC, circ to surf	9 9 5/8 J55/36# @ 497' , cmtd w/275 sxC, T-100sxC, circ 1710sx to surf 5 1/2 J55/17# @ 5233', ctmd 1stg 400 sxC, circ 90sx; 2stg 1050sxC, T50sx , did not circ	7 9 5/8 36# cmt with 200 sx, T100sx, T400sx, circ 60sx 5 1/2 15.5# @ 5366' cmt 1stg 450sx,circ 80sx, 2stg 500sx, T50sx, circ 10sx	6 9 5/8 J55/36# @ 510', Cmtd with 400 sx C, circ 20 sx to surf 5 1/2 17# J55@ 5400', cmtd 1stg 375 sx C, Circ 20sx 730sx C, circ. 125sx	5 9 5/8 J55/36# @525', cmtd 300sxC, circ 108sx to surf 5 1/2 j55/15.5 @ 5400', cmtd 1stg 200sxC, 2stg 750sxC, circ 199sx	3 D&A if this was every perfed in the zone, need a well bore  4 This info must be on another Table	2 9 5/8 36# @483', cmt with 325 sx, T100sx, circ 180 sx @ 3182' 5 1/2 17# @ 5350' cmt 1stg 250sx, 2stg 157sx	1 9/58 H55.36# @ 494 Cmtd w/275sx C, T-100sx C, Circ 170sx to surf 5 1/2 J55/15.5 @6707, Cmtd 1st stage 500sxC, 2 stg 500sx C, T-200 sx C	P&A	1 P&A 2590-2608-2866, 3080-90, 3185-3192	ber

)¹ 2stg 500s	5 1/2 20/17# 1" w/400sx, circ. 8sx, 1450sx, circ. 54sx	300153190300 Land Rush 12 Fed 2 13 3/8 48# @475' cmt 300sx, T200sx, circ 164sx	300153765200 Crescent Hale "1" F 1 INJ 13.375 H40 48# @ bttm @ 553' cmt 520sx 9.625 K55 40# @ 3304' cmt 1515 sx 5.500 17# @ 13127 8671-9369, 9599-10297, 10526-11221, 11450-12145	300152437500 Hale Fed 3 P&A		300152408200 Hale Fed 2 P&A	300152408100 Hale Fed 1 P&A	300150575600 Rubye 1 P&A	300150458800 State 1 P&A	300150458700 State 1 P&A	300153221000 Benson Delaware Unit 3W 9 5/8 36# @ 480' , cmtd w/475sx, T-100sxC, circ 160sx 5 1/2 17# @ 5500', ctmd 1stg 300 sx, 2stg 800sx, circ 81sx	8 5/8 J55/32# @2068.70", cmt @ 3698' 1stg 300sxc, @ 5263.40' 2stg 500sxC
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## Munchkin Federal #3 Benson Delaware Unit 3

Sec. 1-19S-30E 2230' FSL & 1750' FWL

4th plug: 550-450'

3rd plug: 2078-1978

**2nd plug**: 4105-4005'. 45sks

1st plug: 6393-6293'

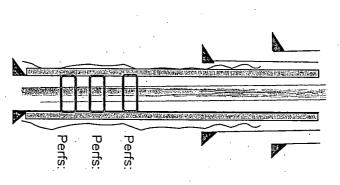
50sks

**5th plug**:60-0' 9 5/8" 36# J55 @ 500' Cmtd w/500sks & circ 100sks

## Benson Delaware Unit Federal No. 1

API # 30-015-30715 (current wellbore)

1060' FSL & 2210' FWL Section 1, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 494'

Lead 275sx C, Tail 100sx C, circ 170sx, cmt at surface

DV Tool @ 3479' 1stg 500sx C(TOC 4170); 2stg Lead-500sx C, Tail-200sx C(TOC 330')

5-1/2" 15.5# J55 @ 6707"

4725-4740 (2spf)

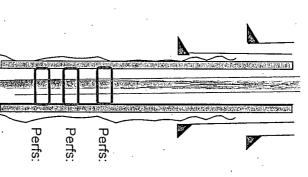
4922-41; 4954-74' (2spf)

5086-5122' (2 spf) 72 holes

## Benson Delaware Unit Federal No. 4 (current wellbore)

330' FNL & 1980' FWL Section 12, T19S R30E

API # 30-015-31779



2-7/8 6.5# lined injection tubing

9 5/8" 36/48# J55 @ 506' 450sx C, circ 300sx to surface

TOC @ surface DV Tool @ 3921' 5-1/2" 17# J55 @ 5526"

1stg 400sx C, circ 63sx; 2stg 650sx C, circ 53sx to surface

.

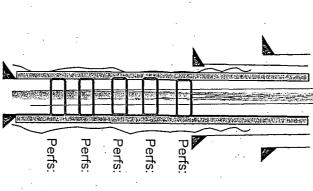
4806-10'; 4818-30'; 4831-56' (2spf)

4940-45'; 4952-62' (2spf)

5030-45'; 5010-16' (2 spf)

# Benson Delaware Unit Federal No. 5

(current wellbore)
API # 30-015-33725
1700' FNL & 1980' FWL
Section 12, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 525' 300sx C, circ 108sx, cmt at surface

5-1/2" 15.5# J55 @ 5400" 1stg 200sx C, 2stg 750sx C; circ 199x. TOC @ 1450' DV Tool @ 4242' 4605-10; 4618-21'(2spf)

4653-58' (1spf)

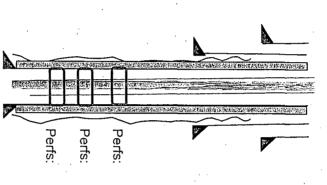
4955-60'; 4965-72'; 5006-08';5012-15' (2spf)

4844-39; 4835-33;4821-20;4802-01;4797-94' (1spf)

5053-58'; 5036-44' (2 spf)

## Benson Delaware Unit No. 6 (current wellbore)

(current wellbore)
API # 30-015-33881
660' FNL & 810' FWL
Section 12, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 510' 400sx C, circ 20sx, cmt at surface

5-1/2" 17# J55 @ 5400" 1stg 375sx C, circ 20sx; 2stg 730sx C; circ 125sx. TOC @ 3686' DV Tool @ 3458'

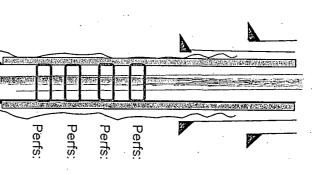
4542-80' (2spf)

4776-80'; 4818-24'; 4839-44'; 4874-79'; 4892-95' (2spf)

5008-10'; 5028-40';5055-60' (2 spf)

# Benson Delaware Unit No. 8 (current wellbore)

API # 30-015-34816 SHL: 2500' FNL & 660' FWL BHL: 1980' FNL & 660' FWL Section 121, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 519' 200sx H,300sx C, didn't circ

5-1/2" 17# J55 @ 4078", 15.5# J55 @ 5258'
1stg 300sx C, 2stg 1100sx C; circ 187sx, to surface
TOC @ surface
DV Tool @ 3688'

4600-4606;4618-25' (4spf)

4700,4795,4797,4803,4804,4814' (2spf)

4825,4831,4832,4836,4838,4846,4847,4851,4852' (2spf)

5002-5035' (2 spf)

# Benson Delaware Unit No. 9

990' FNL & 300' FEL Section 11, T19S R30E (current wellbore) API # 30-015-34293



375sx C, circ 129sx, cmt at surface 9 5/8" 36# J55 @ 497"

5-1/2" 17# J55 @ 5233"

1stg 400sx C, circ 90sx; 2stg Lead 1050sx C, Tail 50sx; didn't circ. TOC @ 600'

Perfs:

DV Tool @ 3675'

4488-4510' (2spf)

Sqzd Perfs: 4567-88'

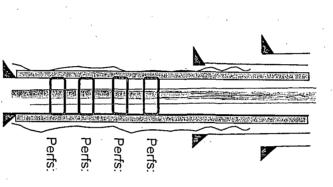
4826-38'; 4850-60 (2spf)

Perfs: Perfs: 48 CIBP: 5000'

5092,5091,5075,5074,5073,5072,5065,5064,5060,5059,5043,5035' (2 spf)

# Benson Delaware Unit No. 10 (current wellbore)

API # 30-015-35085 2200' FNL & 330' FEL Section 11, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 519' 200sx H,300sx C, didn't circ

5-1/2" 17# J55 @ 4078", 15.5# J55 @ 5258' 1stg 300sx C, 2stg 1100sx C; circ 187sx, to surface TOC @ surface DV Tool @ 3711'

4600-4606;4618-25' (4spf)

4700,4795,4797,4803,4804,4814' (2spf)

4825,4831,4832,4836,4838,4846,4847,4851,4852' (2spf)

5002-5035' (2 spf)

## Benson Delaware Unit 12

(existing wellbore)
API # 30-015-35791
2547' FNL & 519 FWL
Section 12, T19S R30E

DV tool @ 3700'

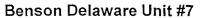
Perfs:

cmt at surface (circ) 13-3/8" 48# J55 @ 511'

8-5/8" 24# J55 @2051' cmt at surface (circ)

Cmt to Surface 5-1/2" 15.5# J55 @ 5,415'

> 4494-4515 (2 spf) 4870-88' (2 sfp), 4590-4604', 4613-4615' (2 spf)



Sec. 12-19S-30E

SHL: 2475' FNL & 2310' FWL BHL: 1980' FSL & 1980' FWL TEMPORARILY ABANDONED

12 1/4" csg @ 526' w/600sx H&C

RBP @ 4900'

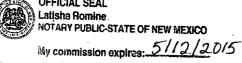
PERFS: 4993-5000

5 1/2" csg @ 5366' MD & 5228' TVD W/1000sx C

PBTD: 5434'

## **Affidavit of Publication**

	NO.	•	22000						
STATE OF NEW MEXI	co .								
County of Eddy:	$\bigcap$								
Danny Scott	Janus	<u> </u>	all						
) being duly sworn, saysِ	that he is the	· .	Publisher						
of the Artesia Daily Pre	ess, a daily nev	wspaper o	of general						
circulation, published in	n English at Ar	tesia, said	d county						
and state, and that the hereto attached									
	Legal Notic	e							
was published in a reg	ular and entire	issue of t	the said						
Artesia Daily Press, a daily newspaper duly qualified									
for that purpose within the meaning of Chapter 167 of									
the 1937 Session Laws of the state of New Mexico for									
1 Consecutive weeks/days on the same									
day as follows:									
First Publication	Februa	ry 1, 2012							
Second Publication		· · · · · · · · · · · · · · · · · · ·							
Third Publication			·						
Fourth Publication									
Fifth Publication									
Subscribed and sworn	to before me	this							
1st day of	Febu	rary	2012						
	FICIAL SEAL tisha Romine		,						



Latisha Romine

Notary Public, Eddy County, New Mexico

## **Copy of Publication:**

## LEGAL NOTICE

Notice of Application for Fluid
| Injection | Well Permit
| Chi: Operating | Inc. c/o Garv. Womack
| 432-685-5001 | P.O. Box, 1799 | Midland,
| TX. 79702 | Is applying to the NMOCD for a permit fora. Water injection | Well | Into a formation which is production of oil and gas. The applicant proposes to drill 2. Water injection wells into the Delaware. The proposed injection wells are located in Section | Is 2. 17.198 | R3OE in Eddy. Co. | NM Filuid will be injected into strata in the subsurface depth interval from 4494-4615 | In section 12 and 4600-5158 | In section 15 in section | Interested parties must file objections for requests for hearing with the Oil | Conservation Division | 1220 | South, St. Francis Dr. Santa Fe. New Mexico 87505 | Within 15 days | Rublished in the Artesia | Daily Press. Artesia | Nim. Feb. 1, 2012 | Legal | No 22000

	•		
Well ID Well Name	Well Number		
300150458800 STATE 2		1 P&A	
300150459600 HALE-USG		1 P&A	Ī ,
300153071500 Benson Delaware Unit		1 9/58 H55.36# @ 494 Cmtd w/275sx C, T-100sx C, Circ 170sx to surf	
		5 1/2 J55/15.5 @6707, Cmtd 1st stage 500sxC, 2 stg 500sx C, T-200 sx C	
300153177800 Benson Delaware Unit		2 9 5/8 36# @483', cmt with 325 sx, T100sx, circ 180 sx @ 3182'	
		5 1/2 17# @ 5350' cmt 1stg 250sx, 2stg 157sx	
300153179600 Benson Delaware Unit		3 D&A if this was every perfed in the zone, need a well bore	
300153338000 Benson Delaware Unit	,	4 This info must be on another Table	
300153372500 Benson Delaware Unit		5 9 5/8 J55/36# @525', cmtd 300sxC, circ 108sx to surf	
		5 1/2 j55/15.5 @ 5400', cmtd 1stg 200sxC, 2stg 750sxC, circ 199sx	
300153388100 Benson Delaware Unit	)	6 9 5/8 J55/36# @ 510', Cmtd with 400 sx C, circ 20 sx to surf	
	,	5 1/2 17# J55@ 5400', cmtd 1stg 375 sx C, Circ 20sx 730sx C, circ. 125sx	
300153393300 Benson Delaware Unit	7	' 9 5/8 36# cmt with 200 sx, T100sx, T400sx, circ 60sx	_
		5 1/2 15.5# @ 5366' cmt 1stg 450sx, circ 80sx, 2stg 500sx, T50sx, circ 10sx	
300153429300 Benson Delaware Unit	:	9 9 5/8 J55/36# @ 497' , cmtd w/275 sxC, T-100sxC, circ 1710sx to surf	
		5 1/2 J55/17# @ 5233', ctmd 1stg 400 sxC, circ 90sx; 2stg 1050sxC, T50sx , did not circ	
300153481600 Benson Delaware Unit	∞	9 5/8 J55/36# @519', cmt 200sxH, 300sxC	
		5 1/2 j55/17# @4078'	
		5 1/2 J55 15.5# @ 5258', cmt 1675sxC, circ to surf	
300153508500 Benson Delaware Unit	10		
		8 5/8 j55/24# @1910', cmt 505sxC, circ 65sx to surf	<del>- '-</del>
		5 1/2 J55 15.5# @ 5351', cmt 1stg 300sxc, 2stg 1100sxC, Circ 187sx to surf	
300153579100 Benson Delaware Unit		12 13 3/8 J55/48# @ 511', cmt 300 sxH, 200sxC T-100sx, circ 10sx to pit	
		8 5/8 J55/24# @ 2050', cmt 425sxC T200sxC, circ 165 to pit	
		5 1/2 J55/15.5# @ 5415', cmt 300sxC 325sxC/50C circ 30sx to pit	
300153642500 Benson Delaware Unit	13	13 5/8 J55/18# @495", cmt 585sxC, (1"300sx)	
		8 5/8 j55/32# @3151', cmt 1628sx, circ 273sx to surf	
		5 1/2 P110/17# @ 8907', @ 3698' cmt 975sx, circ60sx	
300153733300 Benson Delaware Unit	14		
		8 5/8 j55/32# @2045.20', cmt 800sxC, circ 98sx to surf	
		5 1/2 155 15.5# @ 5230, cmt 1stg 300sxc, 2stg 400sxC, Circ 18sx to surf	7
			<del></del>

300153798700 Benson Delaware Unit 300153221000 Benson Delaware Unit 3W 300150458700 State	21 13 5/8 155/48# @505.63', cmt 500sxC, circ 225sx 8 5/8 j55/32# @2068.70', cmt 800sxC 5 1/2 J55 15.5# @ 5230, cmt @ 3698' 1stg 300sxc, @ 5263.40' 2stg 500sxC 9 5/8 36# @ 480', cmtd w/475sx, T-100sxC, circ 160sx	
	8 5/8 j55/32# @2068.70', cmt 800sxC 5 1/2 J55 15.5# @ 5230, cmt @ 3698' 1stg 300sxc, @ 5263.40' 2stg 500sxC 9 5/8 36# @ 480', cmtd·w/475sx, T-100sxC, circ 160sx	
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	9 5/8 36# @ 480', cmtd.w/475sx, T-100sxC, circ 160sx	
300150458700 State	5 1/2 17# @ 55001 ctmd 1ste 300 sx. 2ste 800sx. circ 81sx	
3001304300 3181E		
	L P&A	.j.
300150458800 State	1 P&A	
300150575600 Rubye	1 P&A	
300152408100 Hale Fed	1 P&A	
300152408200 Hale Fed	2 P&A	
300152437500 Hale Fed	3 P&A 1001460 2590-2600	
300153765200 Crescent Hale "1" F	1 INJ 13.375 H40 48# @ bttm @ 553' cmt 520sx	
	9.625 K55 40# @ 3304' cmt 1515 sx	
	5.500 17# @ 13127 8671-9369, 9599-10297, 10526-11221, 11450-12145	
300153190300 Land Rush 12 Fed	2 13 3/8 48# @475' cmt 300sx, T200sx, circ 164sx	
	8 5/8 32# @ 3210', cmt 1415sx plg dwn, did not circ	
	5 1/2 20/17# 1" w/400sx, circ. 8sx, 1450sx, circ. 54sx	

CN	GTATE OF NEW MEXICO	7º 7	OIL CON	່າ, ວັ. ຄວ	o× zos∳ <sup>®</sup>	R	ECEIVED		Form C-10 Revised 1	
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	TRANSPORTER OLS			,	IR ALLOWA IND		C. D.	¥		
ı.	PROPATION OFFICE	HUA .	ORIZATION 1	TO TRANS	PORT OIL	VND THY F	IRA ENAME	3	·	
	Bel-Dyn, Inc. Pro	perties	3 /				·			
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	New Well A	€henq €il	in Transporter	r ol: Dry G						•
	Change in Ownership		ghend Cas 🔲	Conde	751			•		
Ne s	Mahange of ownership give name and address of previous owner									
TR.	DESCRIPTION OF WELL AND	LEASE								,
	Lebse Name	Well I	No. Pool Name,	Including I	ormalian	<del> </del>	Kind of Lease			Lease No.
ે.	Hale Federal		Shugart-Y	( <b>€</b> 207 Ri	ivers OB	<del></del>	State, Federal	or Fee	leral	0560353
	Unit Letter E : 198	)F++1	From TheN	L1r	ne and <u>990</u>	•	Feet From T	h• <u>W</u>	•	·
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m.	DESIGNATION OF TRANSPOR		IL AND NAT	URAL GA		·				
·	Name of Authorized Transporter of Cil	.⊒ <b>3</b> •	Condensate	<b>D</b>			to which approv		is form is to	be sent)
·:	Name of Authorized Transporter of Co	Ingheat Gas	Of Dry C	Gas [ ]			way, Odessa, so which opprov		9762 is form is to	be sent)
7	Phillips			·	l .		, Odessa, Te			
	if well produces oil or liquids, give location of tanks.	Unii	Sec. Twp. 1 198	Rq+ 30E	is gas actua			n		
	If this production is commingled wi				Yes give commin	igling orde	r number:	1-15-83		<del></del>
iv.	COMPLETION DATA			Gas Well	New Well	Workover	Deepen	Plug Bock	Same Real	v. Dill, Res'v.
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			TUBING, CA	SING, AND	CEMENTI	G RECOR	D			
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	TEST DATA AND REQUEST FO	OR ALLOW			pth or be for f	ull 24 hours			uni to or ex	ceed top silou
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- 1	5-23-83 Length of Teet	5-23- Tubing Pie		····	Casing Pres	www.	·	Choke Size	ti	<u> </u>
. [	8.				40			2"	1152	-83
	Actual Prod. During Test	CII-BMs.	10		Water - Bble.			Gus-MCF	Lam	PFBK
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T	GAS WELL	I		.•	I			Gravity of C	<del></del>	<del></del>
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.i. (	CERTIFICATE OF COMPLIANC	E					ONSERVATI		ION	
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1	Division have been complied with those is true and complete to the	and that th	no information	given	.DY		die A. Cemer			<del> </del>
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-	DR Bell (Tu	(•) /.	128	 2	All •	nritone of or bus wa	this form non- completed wel	14.		aly for allow-

(Daie)

1311 and early tweetons ( A. Bl., and C. for charges of season Bossion or number, or treesportages of the root charge of condition Separate Lates C. 104 must be filled for each pool in multiply considered wells.

oim 3160-5 une 1990)

## UN O STATES DEPARTMEN. OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OIL CC	ERV	ATION DETERM APPROVED Expires: March 31, 1993
811 S. 1st	ST.	Expires: March 31, 1993
ARTESIA,	NM	Expires: March 11, 1993  882-998-288334tion and Serial No.

\$680.8 ST. JA	AND REPUBLIC	MAN DEGUCES
	ill or to deepen or reentry to a different reservoir.	Many or Telephone
	R PERMIT—" for such proposals	
		7. If Unit or CA, Agreement Designation
SUBMIT	IN TRIPLICATE	7. If the or CA, Agreement Designation
ype of Well		<b>-</b>  `
		8. Well Name and No.
Mell Well Other		HAle Fed #3
lack Energy Corporation	•	9. API Well No.
ddress and Telephone No.		30-015-24735
2.0. Box 1359, Artesia, NM 882	11 (505) 748–1288	10. Field and Pool, or Exploratory Area
ocation of Well (Footage, Sec., T., R., M., or Survey De		<u> </u>
	. 1	Sugart Yates SR QN Grb
ec.l T-19-S R-30-E 1980 F	ML & 990' FWL Unit E	Eddy, NM
•		Lady, Im
CHECK APPROPRIATE BOY	s) TO INDICATE NATURE OF NOTICE, REPO	BT OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	1
Notice of Intent	Abandonment	Change of Plans
	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
·	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	Other	Dispose Water
		(Note: Report results of multiple complesion on Well Completion or Recompletion Report and Log form t
escribe Proposed or Completed Operations (Clearly state a	il pertinent details, and give pertinent dates, including estimated date of starti	
give substituce locations and measured and true verb	cal depths for all markers and zones pertinent to this work.)*	
) Set 5½ CIBP @ 3075' Cap wi		
) Set 5½ CIBP @ 2550' Cap wi	th 35' cement	
) Load hole with mud		
Perforate 5½ casing @ 2002	Unable to pump into perforations	Spot 25 sacks cement
plug @ 2054' W.O.C. Tag c		2 / 7-1
Perforate 5½ casing @ 675'	top of salt Squeeze with 60 sacks c	ement W.O.C. fnfID-
Tag cement top @ 453'		51 = 8-5/8 1-1-96
Perforate 5½ casing @ 60' leaving 5½ full	circulated cement to surface between	
) Job completed 11-15-95	And the straight for the	PYA
y bob completed if if y		VENDER E
•		2000 - 100 -
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hereby certify that the foregoing at Lose and correct		
Stened 5 4-4 Leck	Title Mest. Societary	2 11-27-95
This space for Federal or State office use)		UADO ( )
Mrs. Signate	Patrologue England	11-
Approved byConditions of approvel, if any:	Title	Date 1 1 9 1 9 6
18-U:S:C. Section 1001, makes it is crime for any perso presentations as to any matter within its jurisdiction.	on knowingly and willfully to make to any department or agency of the Uni	sed States any false, fictitious or fraudulent statement

FORM APPROVED

in rempe	Constants	The second state
	LAND MANACEMIA	La Change (Resignation and permatical)
		NMNM-0560353
	AND REPORTS ON WELLS	6. If Indian, Allottee or Tribe Name
	ill or to deepen or reentry to a different reservoir.	·
Use "APPLICATION FO	R PERMIT—" for such proposals	
CUDAG	IN TOUR ICATE	7. If Unit or CA, Agreement Designation
SUBMIT	IN TRIPLICATE	
1. Type of Well		1
X Oil Gas Uther		8. Well Name and No.
2. Name of Operator		Hale Fed #2
Mack Energy Corporation		9. API Well No.
3. Address and Telephone No.		30-015-24082
P.O. Box 1359, Artesia, NM 882		10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey D	escription)	Sugart Yates SR QN Grbg
		11. County or Parish, State
Sec. 1 1 195 R 308 2	100 / 100 m// FE	711
Jec. 1 1 195 K 305 2	180/N + 2080/W	Eddy, NM
12. CHECK APPROPRIATE BOX	s) TO INDICATE NATURE OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent	Abandonment	Change of Plans
·	Recompletion	New Construction
X Subsequent Report	Plugging Back	Non-Routine Fracturing
- Oscostania report	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
•	Other	
·	(Note: Report results Recompletion Report	of multiple completion on Well Completion or
	Il pertinent details, and give pertinent dates, including estimated date of starting	
give subsurface locations and measured and true verti	cal depths for all markers and zones pertinent to this work.)*,	0 + 70-2
1) Load hole with mud		Pat ID-2 5-10-96
2) Set 4½" C.I.B.P. @ 2500'	Cap with 25 sacks cement	14 P
3) Spot 40 sacks cement @ 761		NACH SISTEM
	NEW MEN	
4) Spot 38 sacks cement from	60' to surface Set P A Marker	
5) Job completed 11-20-95	A Pata	A The state of the
3) 300 completed 11-20-33	APR	2 5 1996
	Approved as to plugging of the half boxes	The same
	Liability under bond is retained until	ON. DIVE
	surface restoration is completed.	
		87.2
14. I hereby certify that the foregoing is true and correct	0 6 , 5 ,	11/20/20
Signed G. R. P. Leek	Title Westuct Decretary	Date 11/07/45
(This space for Forces of State of fice use) F. G. L	ADA PETRALBUILE WHILE AND	l.alo
Approved by	Ana Tile Petroleum Enginees	Date
Conditions of approval, if any:		•

## 811 S. 1st Stree Artesia, NM 88210-2834

5.

Form 3160-5 (June 1990)

## **UNITED STATES** DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED

	Expires: March 31,1993
Lease	Designation and Serial No

SONDKI NOTICES AND REPORTS OF WEEKS
Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
LI- HADDIOATION FOR REDIAIT. N.C

NM-0560353 6. If Indian, Allottee or Tribe Name

Change of Plans

New Construction

Water Shut-Off

Non-Routine Fracturing

.000 / 1 / 2/0/ (1/0/11/0	or the contract of the contrac	500,0	
SUBMI	7. If Unit or CA, Agreement Designation		
I Type of Well			<b>⊣</b>
Well Gas Other			8. Well Name and No.
2. Name of Operator			Hale Federal #1
Mack E	nergy Corporation		9. API Well No.
3. Address and Telephone No.			30-015-24081
P.O. Box 960,	Artesia, NM 88211-0960	(505)748-1288	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T. R., M. or Survey De	escription)		Sugart Yates SR QN Grb.
Sec. 1-T19S-R30	DE 1980 FSL & 1980 FWL		11. County or Parish, State
			Eddy, NM
12 CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE	OF NOTICE, REPO	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 13 Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)\*

Abandonment

Recompletion

Plugging Back Casing Repair

Altering Casing

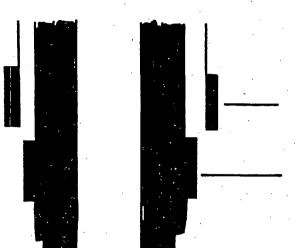
9/08/1999 RIH set CIBP @ 2500'. RIH w/tbg. set 42' plug on top of CIBP. POH to 2069' circ. hole w/gel & spot 25sx plug. POH to 740' & set 40sx plug. POH & set 60' surface plug. RD. Set Dry Hole Marker.



hereby certify that the foregoing is true and correct	Title	Pr	oduction Ar	nalyst	Date _	<del></del>	5/3/00
This space for Federal or State office use)	Title	PETROL	EUM EN	GNEER	Date	MAY	<b>05</b> 2000
Onditions of approval, if any:					1		
		• • •	·	وخليد والمتعار	i		٠,

Notice of Intent

Subsequent Report



8 5/8 618' cement w/250 sacks Cir. T.O.S. 675'

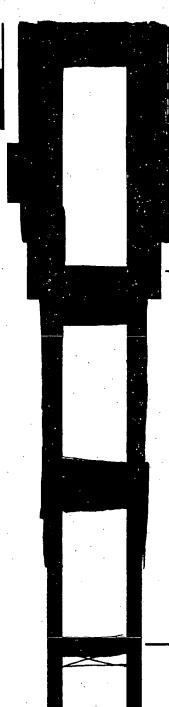
B.O.S. 1995'

Perferations 2536' - 3216'

5 1/2 3480' cement w/850 sacks cir

After

Mack .ergy Corporation Hale Fed #1



Spot 60' Cement at Surface

8 3/8 618' cement w/250 sacks Cir. T.O.S. 675'

Spot 40 sacks cement from 725' to 50' above 8 5/8 Shoe 570'

B.O.S. 1995 Spot 25 sacks cement from 2050'

Perferations 2536' - 3216'

Set 5 1/2 CIBP 2500' cap w/35' cement

5 1/2 3480' cement w/850 sacks Cir.

FIGURE 18 THE No. CARLES.

Approval approval regions 19-11-00.

U. S. LAND OFFICE.

LEAS CRUCES

SERIAL NUMBER LC 062457

LEASO OR PERMIT TO PROSPECT. DEPARTMENT OF THE INTERIOR

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## UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

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NEW MEXICO OIL CONSERVATION COMMISSION FORM C-103 ARev 3-55) MISCELLANEOUS REPORTS ON WELLS · (Submit to appropriate District Office as per Commission Rule 1106) Address 1007 Midland Savings & Loan Bldg. Name of Company Westwater Corporation Midland, Texas Lease Well No. Unit Letter Section Township State #2# 2 30-E Date Work Performed 5-10-60 Pool Undersi mated Eddy THIS IS A REPORT OF: (Check appropriate block) Casing Test and Cement Job Beginning Drilling Operations Other (Explain): Remedial Work Plugging Detailed account of work done, nature and quantity of materials used, and results obtained. Set 25-sack cement plug at total depth (3485); 10-sack plug at base of salt (19251); 10-sack cement plug at base of 8-5/8" casing (7651); pulled 5801 8-5/8" casing and set 10-sack cement plug at top of 8-5/8" casing (5801); set 5-sack cement plug at top of hole with 4° proper New Hexico marker; intervals between all plugs filled with heavy mud. Witnessed by John O'Brien Tool Pusher Southwestern Drilling Co. FILL IN BELOW FOR REMEDIAL WORK REPORTS ONLY ORIGINAL WELL DATA DF Elev. TD Producing Interval Completion Date Tubing Diameter Tubing Depth Oil String Diameter Oil String Depth Perforated Interval(s) Producing Formation(s) Open Hole Interval RESULTS OF WORKOVER Water Production GOR Oil Production Gas Production Gas Well Potential. Date of Test MCFPD Cubic feet/Bbl MCFPD Before Workover After Workover I hereby certify that the information given above is true and complete to the best of my knowledge. OIL CONSERVATION COMMISSION Approved by Title Position GIL AMP BAS INSPECTOR Approx

Company

Westwater Corporation

Date

JUN 1 4 1960

## WESTWATER CORPORATION

TELEPHONE MUTUAL 2-0311

1007 MIDLAND SAVINGS AND LOAN BUILDING
MIDLAND, TEXAS

May 17, 1960

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Oil and Gas Conservation Commission Artesia, New Mexico

Attention:

Mr. Armstrong

Gentlemen:

This day Mrs. Virginia Pickett forwarded Forms No. 102, 103 and 105 to your office for the completion of the Westwater State 2 No. 1 in Section 2, T-19-S, Eddy County, New Mexico, and in order to fulfill the requirements for the plugging and abandoning of this will I am enclosing herewith two copies of the Lane Wells Gamma Ray — Neutron log run on this well.

The 4" marker and data have been placed on this well, however, it may be 10 days to 2 weeks before the surface is completely cleaned as our plan is to do this at a time when the equipment can be used on another nearby well.

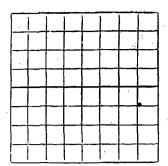
Thank you for your consideration.

Yours very truly,

WESTWATER, CORPORATION,

Chas. C. Green, Jr.

CCG:md Encs.



## NEW MEXICO OIL CONSERVATION COMMISSION Santa Fe, New Mexico C C IVED

WELL RECORD AY 1.9 1950

T. F. D.

Mail to District Office, Oil Conservation Commission, to which Form C-101 was sent not later than twenty days after completion of well. Follow instructions in Rules and Regulations of the Commission. Submit in QUINTUPLICATE.

If State Land submit 6 Copies

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AND OF DRILLSTEN AND SPECIAL TEST.

API 300150458800 110f4

If drill-stem or other special tests or dexistion surveys were made, submit report on separate sheet and attach hereto

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## WESTWATER CORPORATION

TELEPHONE MUTUAL 2-0311

1007 MIDLAND SAVINGS AND LOAN BUILDING

MIDLAND, TEXAS.

(kji

Pg1 0f3

May 17, 1960

Api 300150458800

Oil and Gas Conservation Commission Artesia, New Mexico

Attention:

Mr. Armstrong

Gentlemen:

This day Mrs. Virginia Pickett forwarded Forms No. 102, 103 and 105 to your office for the completion of the Westwater State 2 No. 1 in Section 2, T-19-S, Eddy County, New Mexico, and in order to fulfill the requirements for the plugging and abandoning of this will I am enclosing herewith two copies of the Lane Wells Gamma Ray — Neutron log run on this well.

The 4" marker and data have been placed on this well, however, it may be 10 days to 2 weeks before the surface is completely cleaned as our plan is to do this at a time when the equipment can be used on another nearby well.

Thank you for your consideration.

Yours very truly,

WESTWATER, CORPORATION,

Chas. C. Green, Jr.

CCG:md Encs.

P9 Z of	3	NEW	MEXICO	OIL CONS	ERVA	FION (	COMMISSIO	— <del>————</del>	·	FORM C-103
1 1	0150458			ANEOUS R				WAY	' g +	C (Rev 3-55)
				te District Of						
Name of Company					Addres		7 Midland			
Name of Company	We	otwater 			<u> </u>	Md	land, Tex			<u></u>
	ate #2#		We	Il No. Unit	Letter	Section 2	Township	<b>.</b>	Range	30-E
Date Work Perform	-10-60	Pool	Undes	_mated	. ,		County	Eddy		
				REPORT OF:			ate block)			
Beginning D	rilling Operati	ons		g Test and Cer	nent Job		Other (E	xplain):		
Plugging			Reme	dial Work						
Set 25-sack 10-sack cem 10-sack cem hole with 4	ent plug a	at base o	08 8-5/8 8-5/8	3" Casing (	(7651) 5801) t	; pul	led 580° 5-seek oe	8-5/6¤ ( ment plu	maing to at t	and set
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Witnessed by	John O'B	rien		Position Tool P	usher		Company Southwe	stern Di	1111n	g Co.
		FILL	IN BELO	W FOR REME			EPORTS 01	VLY		
	lm n			ORIGINAL	WELL D	ATA	, I <del>S. 1</del>		i_	
D F Elev.	T D		·	PBTD			Producing	lnterval	Co	mpletion Date
Tubing Diameter	<u> </u>	Tubing D	epth	<del> </del>	Oil Stri	ng Diam	eter	Oil S	ring Dept	h
Perforated Interve	al(s)				1			<b></b>	<del></del>	
Open Hole Interva	<u>al</u>	<del></del> .	,		Produci	ng Form	ation(s)			
				RESULTS O	F WORL	OVER	<del></del>	· <del>··········</del> ·························	<del></del>	
Test	Date of Test		oduction PD	Gas Produ MCFP			Production BPD	GO Cubic fee		Gas Well Potential
Before Workover					-					
After Workover			<u>-</u>							
	OIL CONSER	ATION CO	MMISSION		I here to the	eby certi e best of	fy that the in my knowled	aformation g.	iven abov	e is true and complete
Approved by	1. A. J	11ess	ret		Name		N	(0)	(20	<u>ad</u>
Title	611 ABB Q1	S (USPECT	· · · · · · · · · · · · · · · · · · ·		Positi	ion	Am	mt		
Date	JUN 1				Comp	-	strater (			<u> </u>
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API 30015045880

ARTESIA DISTRICT OFFICE								
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OPERATOR		, ,						
SANTA FE	/	,						
PRORATION OFFICE		!						
STATE LAND OFFICE	times the time profession and the companies	; ;						
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TRANSPORTER	maringangan (a. p. parameter et maringan personal and a second per	17						
FILE	7	1						
OF MINES		·						

API 300150458700 Pgiof 3

## NEW MEXICO OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

A.	J. Har						:	P. C	. Box	206	i, Ar	tee	1a, 30	w Mexico
jt	ate	Company		lor ell No		<b>.</b> :	In Sili	13121	RZI .	f Sec.	Address 2		, <u>7. 1</u>	9
<sub>B</sub> 30	Lesse ) i.,	N. M. P.	. м	Ber	180	n .		<del>/</del> _	ield,		Ede	1y		County.
Well le	990	feet sout	h of th	e North l	ine :	nd 9	90	feet w	est of th	e East	line of	Sec	.2,119	. H30E.
If State	land the oil	and gas	lense	is No	3-3	612_	Assi						<del></del>	
If patent	ted land the nment land	owner	is						, Ad					
If Gover	nment land	the pen	mittee J	iarde	nd	orf			, Ad	dress	Art	cai	a. liew	- 0x1 00
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	om_308													
NO. 3, 11	OMDOD	<u> </u>		J		ORTAN								
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No. 4, 1r	юш				0				fe	ot,				
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		·	•	MUD	DIN	G AND	CRMEN	TING	BECOR	D				<del></del>
SIZE OF HOLE	SIZE OF CASING	WHERE	SET	NO. SAC	ES TNT	ME	THOD US	SED	₩U	D GRA	VITY	۱۸ ا	TOUNT OF 1	IUD USED
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Heamits (	or shooting	or cnemi	ica tre	atment										
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				ECORD	י שו	RILL-8	TEM A	NTD 81	PECIAL	TESTS				
If drill-s	tem or othe	r special										e st	seet and at	lach hereto.
						TOO	OLS US	ED					٠	-
Rolary to	ools were u	sed from							t, and fr					feet
Cable to	ols were us	ed from.		0	1e	et to	3310	2_fee	t, and fr	om		ft	et to	feet
<b></b>					_		DUCTI	ON						
	reducing luction of th	e first 2	hours	was C		Hole	E_harr	els of	fluid of	which		٠	% was oil-	<b>%</b>
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	ell, cu. ft. p					·	Gall	ons ga	șoline pe	r 1,000	cu. ft.	of g	·	
Rock pre	essure, lbs.	per nq. i	n											1
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						, Dri								
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day of	Loopt	na 00 r. اک	<u></u>	ath	·	104.5	Pos	tion	U	<del>() ()</del>	no r			
		<del></del>				Public.	Rep	resent	ing n	Į.	lip <b>r</b> 6	ans	prf-	

## API 30015 045 8700 Pg 20F3

		1	FORMATION RECORD
LEOR	. ro	THICKNESS IN FERT	FORMATION
o ·	5	1	Sand
5 : 60	60 125	·[	Gypsum Sand
125	180		Sandy Red Rock
180 195	195 275	İ	Red Loud Red Bed
275	445		Red Rock
445 515	515 530	İ	Anhydrite
530	808	1	White Rock Anhydrite
608	612		Broken Anhydrite
612 655	655 680		Anhydrite Red Bed
680	1090	•	Salt
1090	1160	1	Salt & Fotash
1160 1225	1225 1290		Salt   Salt and Potash
1290	1635		Salt
1635 1690	1690 1860	'	Anhydrite & Salt Salt
1860	2060		Anhydrite
2060 2100	2100 2115		Line
2115	2185		Hed Sand & Anhydrite Anhydrite
2185	2210	1	Anhydrite - Sami
2210 2450	2450 2470		Anhydrite Brown Sandy Shale
2470	2495		Lime - Broken
24 95 2560	2560 2567		Lime white Lime
2567	2590		Lime
2590 2592	2592 2597		Sand
2597	2608		Sand & Lime Shells Sand - Broken
2608	2613		Hard Line
2613 2622	2672 2633	İ	Cray Lime
2633	2643		Gray Lime
2643 2652	2652 2663		Lime Crow Line
2663	2675		Cray Lime
2675	2685		Gray Lime
2685 2690	2690 2702	<b>.</b>	Lime Light Gray Lime
2702	2747		Gray Lime
2747 2755	2755 2770		Lime Gray Lime
2770	2786		Lime
2786	2802	ļ	Gray Lime - Sandy
2302 2808	.2808 2812		Sandy Lime
2812	2817		Gray Lime
2817	2829 2850		Line
2850	2860		FIRE Lime = Sandy Lime
2860	2878		Gray Lime - Sandy
2878 2897	2897 <b>2903</b>		Fine Sand Lime
2903	2923		Red Sand
. 2923 2932	2932 2945		Hard Line Croy Lime
2945	2953		Fink Lime
2953 2965	29 <b>65</b> 2969		Gray Lime Lime
2969	2978		Gray Lime
2978 · 3005	<b>3005</b> 3010		Dark Lime Lime - Broken
3010	3025		Lime
3025 3031	3031 3036		Gray Lina.
3036	3040		Fink Lime
3040	3047		Gray Lime - Sandy
304·7 3060	3060 3125		Fink Lime , top gradition! Red Sand
3125	3128		L <b>1100</b> τ·
3128 3139	<b>3139</b> 3150		Gray Lime - Sandy. Lime - Sandy
3150	3160		Pink Lime
3160 3164	31 64 31 74		Gray Lime Lime
3174	3181		Fink Lime
3181	31,85		Lime
3185	31,98		Sand
3198 3209	3209 3 <b>£39</b>		Pink Gray Lime Gray Lime
3239	3247		ëhite Lime
3247 3252	3252 3259		∃rown Lime Lime
3252	3259 3261		Gray Lime
3261	3268		Brown Line droken
3268	327 <b>7</b> 3285		Shite Lime
3285	3298		white Lime; Show Lost 20
3298	331.0	ļ.	Fine Gray Sand F T. D.
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## Api 300150458700 pg 30+3

## OIL CONSERVATION COMM...S. JN

Santa Fe. New Mexico

## **MISCELLANEOUS** REF**ORTS O**N WELLS

Submit this report in triplicate to the Oil Conservation Commission or its proper agent within ten days after the worm specified is completed. It should be signed and sworn to be fore a notary public for reports on beginning drilling operations, results of shooting well, results of test of casing shut-off, result of plugging of well, and other important operations, even though the work was witnessed by an agent of the Commission. Reports on minor operations need not be signed and sworn to before a notary public. See additional instructions in the Rules and Regulations of the Commission.

	Indicate natur	e of repo	rt by checking below	wı				
REPORT ON BEGINNING	DRILLING OPERA-		REPORT ON R	EPAIRIN	G WELL			
REPORT ON RESULT OF ICAL TREATMENT O			REPORT ON PULLING OR OTHERWISE ALTERING CASING					
REPORT ON RESULT OF SHUT-OFF	TEST OF CASING		REPORT ON D	EÉPENII	IG WELL			
REPORT ON RESULT OF	PLUGGING OF WELL	X						
	Aı	rtesia,	New Mexico	I	ecember 17	, 1945		
OIL CONSERVATION CO SANTA FE, NEW MEXIC Gentlemen:		•	Place	4.	Da	te 		
Following is a report on the		ulta obtair	ned under the headi	ng noted	above at the			
A. J. Hardendorf Company or	Omerator	\$	tate	Well 1	٠٠ <u>1</u>	in the		
SW NE NE	of Sec	2	r 198	TP	30E	, N. M. P. M.,		
Wildcat	Field,	•	Eddy	150		County		
The dates of this work were			October 2, 1	945		· · · · · · · · · · · · · · · · · · ·		
Notice of intention to do th			on Form C-102 on		Sept. 7,	10 45		
Filled with mud to 1875' base of salt 723' in 8 1/4" cas surfaxw and XXX ce	and set bridge a ing and set bridg	and cem ge and	ent plug of 5 cement plug of	sax. th	en filled v	with mud to		
						•		
Witnessed byDale	Thomas	Dale	Thomas Oil Co		Contract	o <b>r</b>		
Without by	Name		Company	<del></del>		Title		
Subscribed and sworn be	fore me this		I hereby swear or s is true and correct.	iffirm tha	t the information	on given above		
day of		19	Name	<del></del>	<del></del>			
		:	Position	· · · · · · · · · · · · · · · · · · ·		<del></del>		
	Notary Publi	le .	Representing					
My commission expires.		· ·	Address	Company	or Operator			
Remarks: APPROVE	D: 2-17-46					Name		

to

Title

RECEIVEN

## NEW MEXICO OIL CONSERVATION COMMISSION

FORM C-103

## MISCELLANEOUS REPORTS ON WELLS

(Submit	to appropriate District Of	fice as pe	r Comm	ission Rule	1106)	77 - 71 <b>78</b>		
Name of Company Westwater	Corporation	Address	1007 Md1	Midland and, Texa	Savings & .	Loan Bldg.		
Lease State #2#	Well No. Unit	Letter S		Township 19-8	Ra	ange <b>30-E</b>		
Date Work Performed Pool	Underlanted		C	ounty	Eddy			
	THIS IS A REPORT OF:	(Check ap	propriat	e block)				
Beginning Drilling Operations	Casing Test and Cer	ment Job		Other (Exp	olain):			
Plugging	Remedial Work				,			
Set 25-sack cement plug at 10-sack cement plug at base 10-sack cement plug at base 10-sack cement plug at top hole with 4° proper New Heat	total depth (3485) of 8-5/8" casing of 8-5/8" casing (	; 10-sa (7651); 5801);	ck plu pullu set 5	ug at bas ed 580°8 -seek com	-5/8# casi: ent plue a:	ng and set		
		,						
						,		
<u>-</u>								
Witnessed by John O'Brien	Position Tool P	usher	C	ompany Southwest	tern Drill	ing Co.		
FIL	L IN BELOW FOR REME ORIGINAL			PORTS ONL	. <u>Y</u>			
D F Elev. T D	PBTD		Producing Interva			Completion Date		
Tubing Diameter Tubing	Depth	Oil String	Diamet	er	Oil String I	Pepth		
Perforated Interval(s)					· · · · · · · · · · · · · · · · · · ·			
Open Hole Interval		Producing	Format	rion(s)				
	RESULTS O	F WORK	VER					
lest Test	Production Gas Produ BPD MCFP			oduction PD	GOR Cubic feet/Bbl	Gas Well Potential MCFPD		
Before Workover			· ·					
After Workover					·			
OIL CONSERVATION C	OMMISSION			that the infony knowledge		bove is true and complete		
Approved by W. a. Gres	sett	Name C	P	M	Sla			
Title OIL AND BAS (MSPE)	783	Position		Agen	t			
Date JUN 1 4 1960		Compan		twater Ce	rporation	·		

## Munchkin Federal #3 Benson Delaware Unit 3

Sec. 1-19S-30E 2230' FSL & 1750' FWL

4th plug: 550-450'

3rd plug: 2078-1978'

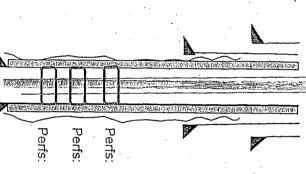
**2nd plug**: 4105-4005' 45sks

**1st plug**: 6393-6293' 50sks

5th\_plug:60-0' 9 5/8" 36# J55 @ 500' Cmtd w/500sks & circ 100sks

# Benson Delaware Unit Federal No. 1 (current wellbore)

API # 30-015-30715 1060' FSL & 2210' FWL Section 1, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 494'

Lead 275sx C, Tail 100sx C, circ 170sx, cmt at surface

5-1/2" 15.5# J55 @ 6707" 1stg 500sx C(TOC 4170); 2stg Lead-500sx C, Tail-200sx C(TOC 330') DV Tool @ 3479'

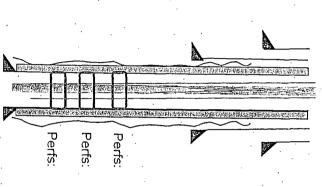
4725-4740 (2spf)

4922-41; 4954-74' (2spf)

5086-5122' (2 spf) 72 holes

# Benson Delaware Unit Federal No. 4 (current wellbore)

API # 30-015-31779 330' FNL & 1980' FWL Section 12, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36/48# J55 @ 506' 450sx C, circ 300sx to surface

1stg 400sx C, circ 63sx; 2stg 650sx C, circ 53sx to surface TOC @ surface DV Tool @ 3921'

5-1/2" 17# J55 @ 5526"

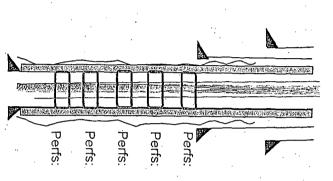
4806-10'; 4818-30'; 4831-56' (2spf)

4940-45'; 4952-62' (2spf)

5030-45'; 5010-16' (2 spf)

# Benson Delaware Unit Federal No. 5

(current wellbore)
API # 30-015-33725
1700' FNL & 1980' FWL
Section 12, T198 R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 525' 300sx C, circ 108sx, cmt at surface

5-1/2" 15.5# J55 @ 5400" 1stg 200sx C, 2stg 750sx C; circ 199x. TOC @ 1450' DV Tool @ 4242' 4605-10; 4618-21'(2spf)

4653-58' (1spf)

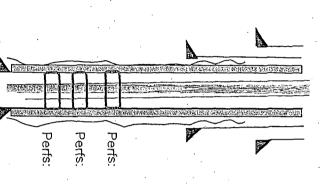
4844-39; 4835-33;4821-20;4802-01;4797-94' (1spf)

4955-60'; 4965-72'; 5006-08';5012-15' (2spf)

5053-58'; 5036-44' (2 spf)

# Benson Delaware Unit No. 6

(current wellbore)
API # 30-015-33881
660' FNL & 810' FWL
Section 12, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 510' 400sx C, circ 20sx, cmt at surface

5-1/2" 17# J55 @ 5400" 1stg 375sx C, circ 20sx; 2stg 730sx C; circ 125sx-TOC @ 3686'

4542-80' (2spf)

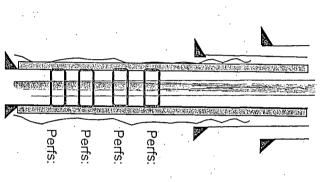
DV Tool @ 3458'

4776-80'; 4818-24'; 4839-44'; 4874-79'; 4892-95' (2spf)

5008-10'; 5028-40';5055-60' (2 spf)

# Benson Delaware Unit No. 8 (current wellhore)

(current wellbore)
API # 30-015-34816
SHL: 2500' FNL & 660' FWL
BHL: 1980' FNL & 660' FWL
Section 121, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 519' 200sx H,300sx C, didn't circ

5-1/2" 17# J55 @ 4078", 15.5# J55 @ 5258'
1stg 300sx C, 2stg 1100sx C; circ 187sx, to surface
TOC @ surface
DV Tool @ 3688'

4600-4606;4618-25' (4spf)

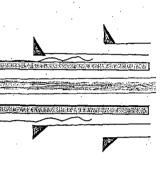
4700,4795,4797,4803,4804,4814' (2spf)

4825,4831,4832,4836,4838,4846,4847,4851,4852' (2spf)

5002-5035' (2 spf)

## Benson Delaware Unit No. 9

(current wellbore)
API # 30-015-34293
990' FNL & 300' FEL
Section 11, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 497'

375sx C, circ 129sx, cmt at surface

5-1/2" 17# J55 @ 5233"

1stg 400sx C, circ 90sx; 2stg Lead 1050sx C, Tail 50sx; didn't circ. TOC @ 600'

DV Tool @ 3675'

Perfs:

4488-4510' (2spf)

Sqzd Perfs: 4567-88'

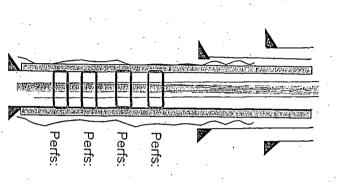
Perfs: 4826-38'; 4850-60 (2spf) CIBP: 5000'

Perfs:

5092,5091,5075,5074,5073,5072,5065,5064,5060,5059,5043,5035' (2 spf)

# Benson Delaware Unit No. 10 (current wellbore)

API # 30-015-35085 2200' FNL & 330' FEL Section 11, T19S R30E



2-7/8 6.5# lined injection tubing

9 5/8" 36# J55 @ 519' 200sx H,300sx C, didn't circ

5-1/2" 17# J55 @ 4078", 15.5# J55 @ 5258'
1stg 300sx C, 2stg 1100sx C; circ 187sx, to surface
TOC @ surface
DV Tool @ 3711'

4600-4606;4618-25' (4spf)

4700,4795,4797,4803,4804,4814' (2spf)

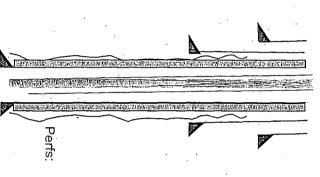
4825,4831,4832,4836,4838,4846,4847,4851,4852' (2spf)

5002-5035' (2 spf)

## Benson Delaware Unit 12 (existing wellbore)

(existing wellbore)
API # 30-015-35791
2547' FNL & 519 FWL
Section 12, T19S R30E

DV tool @ 3700'



13-3/8" 48# J55 @ 511' cmt at surface (circ)

8-5/8" 24# J55 @2051' cmt at surface (circ)

5-1/2" 15.5# J55 @ 5,415' Cmt to Surface

4870-88' (2 sfp), 4590-4604', 4613-4615' (2 spf)

4494-4515 (2 spf)

## Benson Delaware Unit #7

Sec. 12-19S-30E

SHL: 2475' FNL & 2310' FWL BHL: 1980' FSL & 1980' FWL TEMPORARILY ABANDONED

12 1/4" csg @ 526' w/600sx H&C

RBP @ 4900'

PERFS: 4993-5000

5 1/2" csg @ 5366' MD & 5228' TVD W/1000sx C

PBTD: 5434'