



STATE OF NEW MEXICO  
**ENERGY AND MINERALS DEPARTMENT**  
 OIL CONSERVATION DIVISION  
 HOBBS DISTRICT OFFICE

GARREY CARRUTHERS  
 GOVERNOR

6-11-90

POST OFFICE BOX 1980  
 HOBBS, NEW MEXICO 88241-1980  
 (505) 393-6161

OIL CONSERVATION DIVISION  
 P. O. BOX 2088  
 SANTA FE, NEW MEXICO 87501

*pmk 157*

RE: Proposed:

- MC \_\_\_\_\_
- DHC \_\_\_\_\_
- NSL \_\_\_\_\_
- NSP \_\_\_\_\_
- SWD \_\_\_\_\_
- WFX \_\_\_\_\_
- PMX  \_\_\_\_\_

Gentlemen:

I have examined the application for the:

*Shell Western E & P Inc. N-Hobbs 96/81 wt # Sec. 27 #221*  
 Operator Lease & Well No. Unit S-T-R *F-27-18-38*

and my recommendations are as follows:

*OK*

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Yours very truly,

*Jerry Sexton*  
 Jerry Sexton  
 Supervisor, District 1

/ed

**Shell Western E&P Inc.**

An Affiliate of Shell Oil Company



P.O. Box 576  
Houston, TX 77001

JUNE 5, 1990

CERTIFIED MAIL

State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, NM 87504-2088

Gentlemen:

SUBJECT: EXPANSION OF PRESSURE MAINTENANCE PROJECT  
SWEPI - NORTH HOBBS (GRAYBURG/SAN ANDRES) UNIT  
HOBBS (GRAYBURG/SAN ANDRES) POOL  
TOWNSHIP 18 SOUTH, RANGE 38 EAST  
LEA COUNTY, NEW MEXICO

Shell Western E&P Inc. hereby requests administrative approval to drill one North Hobbs (Grayburg/San Andres) Unit well for water injection. Administrative Order No. R-6199, dated November 30, 1979, authorized Shell Western to operate the North Hobbs (Grayburg/San Andres) Unit pressure maintenance project within the subject pool.

The well to be drilled is the North Hobbs (GSA) Unit No. 27-221W, Section 27, T18S, R38E, Lea County, New Mexico. Form C-108 and the necessary documentation to obtain the injection permit is attached.

As required, a copy of this application, complete with all attachments, has been sent to the only surface owner, Rodger Gray, P. O. Box 1501, Hobbs, New Mexico 88240. Although the Area of Review includes a portion of the SW/4 of Section 22, as shown on our Area of Review map, our Land Department has determined that there is no valid lease in the SW/4 of Section 22. Accordingly, no offset operator notification is necessary because the remainder of the Area of Review is wholly within the North Hobbs (GSA) Unit boundaries.

If you have any questions concerning this application or any attachment,  
please contact Ellyn Schade at (713) 870-3016.

Very truly yours,



W. F. N. Kelldorf  
Sr. Staff Production Engineer  
Health, Safety and Environment  
Western Division

EMS:rlb

Attachments

cc: (w/attachments)  
State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
P. O. Box 2088  
Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals and Natural Resources Department  
Oil Conservation Division  
P. O. Box 1980  
Hobbs, NM 88240

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose:  Secondary Recovery  Pressure Maintenance  Disposal  Storage  
Application qualifies for administrative approval?  yes  no

II. Operator: Shell Western E&P Inc.

Address: P. O. Box 576, Houston, Texas 77001

Contact party: Ellyn Schade Phone: (713) 870-3016

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  no  
If yes, give the Division order number authorizing the project R-6199, November 30, 1979

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

\* VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.

VII. Attach data on the proposed operation, including:

1. Proposed average and maximum daily rate and volume of fluids to be injected;
2. Whether the system is open or closed;
3. Proposed average and maximum injection pressure;
4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and
5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

\*VIII. Attach appropriate geological data on the injection zone including appropriate lithologic detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.

IX. Describe the proposed stimulation program, if any.

\* X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)

\* XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.

XIV. Certification

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name: W. F. N. Kelldorf Title Sr. Staff Production Engineer,  
Health, Safety and Environment,  
Western Division

Signature: *W. F. N. Kelldorf* Date: 6/5/90

\* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be duplicated and resubmitted. Please show the date and circumstance of the earlier submittal. See attached information sheet

## III. WELL DATA

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

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

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

## XIV. PROOF OF NOTICE

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

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

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells;
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

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

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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.

FORM C-108 REQUIRED INFORMATION  
NORTH HOBBS (GSA) UNIT NO. 27-221W  
TO BE DRILLED

ITEM NUMBER

- III. Well Data - See attached injection well data sheet. This also includes well data requested on Side 2, Part III.A. and Part III.B.
- V. See attached Area of Review (AOR) map for location of NHGSAU 27-221W with a one-half-mile radius circle identifying the well's area of review.
- VI. This tabulation of well data supplements well data already submitted. Please reference approved orders for previously submitted data:

<u>Order No.</u>	<u>Date</u>
R-6199	11/30/79
PMX-87	8/26/80
PMX-109	8/13/81
R-6199-A	8/04/83
PMX-131	10/25/84
PMX-133	1/11/85
PMX-151	1/27/88

Also included is a schematic of the R. H. King - Sanger #1 illustrating plugging details.

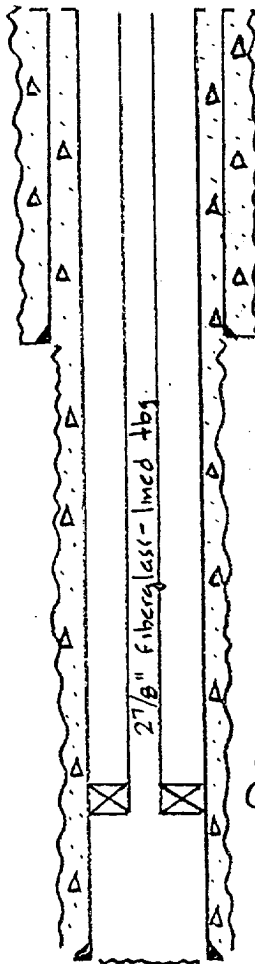
- VII. Proposed Operation Data:
- 1) Average injection rate 1500 BWPD  
Maximum injection volume 2000 BWPD
  - 2) This system is closed and is reinjecting North Hobbs (Grayburg/San Andres) Unit produced water
  - 3) Average injection pressure 760 psi  
Maximum injection pressure 830 psi

Injection will be into the perforated San Andres formation at an injection interval of 4150' (TVD) to 4300' (TVD). Surface injection pressure will be limited to 0.2 psi per foot gradient to the top of the perforated interval, in accordance with Rule 11 of Order No. R-6199.

- VIII. Previously submitted by earlier referenced orders.
- IX. The proposed stimulation program is included on the Injection Well Data Sheet.
- X. Logs and test data will be submitted when the well is drilled and tested.
- XI. No evidence exists of any active fresh water well within one mile of the well site. This statement is based on:
- 1) Attempts by Shell Western personnel to contact owners of water wells in the area. A list of permits containing ten acre locations with permit dates and owners was obtained from the State Engineer's office in Roswell. The wells are posted on the AOR map. We could not locate an active water well.
  - 2) Discussions with personnel in both the Hobbs, NM OCD office (Mr. Sexton) and the Roswell State Engineer District office (Mr. Hernandez).
- XII. Does not apply.
- XIII. A copy of this application and attachments have been mailed, as required by "Proof of Notice" section, to Rodger Gray, P. O. Box 1501, Hobbs, New Mexico 88240. There are no offset operators within the area of review. (No valid lease in the SW/4 of Section 22.)
- Enclosed is the Legal Notice and Affidavit of Publication from the Hobbs Daily News - Sun, a daily newspaper published in Hobbs, New Mexico.

SHELL WESTERN E&P INC		NORTH HOBBS UNIT		
OPERATOR	2267' FNL & 505' FWL (Surface)	LEASE	27	
	27-221		18-S	38-E
WELL NO.	FOOTAGE LOCATION	Hole	SECTION	TOWNSHIP RANGE
	2635' FNL & 1350' FWL (Bottom)			

Schematic



Tubular Data

Surface Casing  
 Size 9 5/8 " Cemented with 900 sx. (est.)  
 TOC Surface feet determined by Circulation  
 Hole size 12 1/4"

Intermediate Casing  
 Size N/A " Cemented with \_\_\_\_\_ sx.  
 TOC \_\_\_\_\_ feet determined by \_\_\_\_\_  
 Hole size \_\_\_\_\_

Long string  
 Size 5 1/2 " Cemented with 2000 sx. (est.)  
 TOC Surface feet determined by Circulation  
 Hole size 8 3/4"  
 Total depth 4300' (TVD) 4436' (MD)

Injection Interval  
4150' (TVD) feet to 4300 (TVD) feet  
 (perforated or open-hole, indicate which)

(IX) Proposed Stimulation Program

1. Perforate in acid from open logs
2. Acidize with 5000 gallons 15% HCl using RCNBS.
3. Run injection equipment.

Guiberson Uni-VI  
 @ ±4100' (TVD)

5 1/2" @ 4436' (MD)  
 @ 4300' (TVD)

Tubing size 2 7/8" lined with Fiberglass set in a  
 (material)  
Guiberson Uni-VI packer at + 4100' (TVD) feet  
 (brand and model)  
 (or describe any other casing-tubing seal).

Other Data

1. Name of the injection formation Grayburg/San Andres
2. Name of Field or Pool (if applicable) Hobbs
3. Is this a new well drilled for injection?  Yes  No  
 If no, for what purpose was the well originally drilled? \_\_\_\_\_
4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail (sacks of cement or bridge plug(s) used) NO
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (pools) in this area.  
Next higher zone - Queen, 3550'  
Next lower zone - Paddock, 5400' (TVD)



**INSERT**

**LARGE FORMAT**

**HERE**

AOR TABULATION

N.M.O.C.D. ORDER NO. R-6199  
FORM C-108, ITEM VI  
JANUARY 1990

LOCATION S-T-R FOOTAGE	OPERATOR WELL #	ELEV.	DATE DRILLED	TD PBT	WELL TYPE	WEIGHT (LB/FT)	CASING DETAIL				TOC (FT)	DTMND BY	HOLE SIZE	COMPLETION INTERVAL
							DEPTH (FT)	CEMENT (SACKS)	CEMENT (SACKS)	CEMENT (SACKS)				
34-T18S-R38E 1990' FWL & 511 FWL	AMOCO 30	3635 GL	8/79	7050 OIL - 7036 DRINKARD	-	54.50 32.30 20.00 23.00 26.00	13.375 9.625 7	420 4403 7050	450 2550 400	0 CIRC 0 SQZ 4045 TS	0 CIRC	17.5 12.25 8.75	6665-6986'	
34-T18S-R38E Surface: 717' FNL & 651' FWL Bottomhole: 1303' FNL & 1339 FWL	AMOCO WI-9	3636 GL	11/84	4491 INJ - 4480 GB/SA	-	36.71 24.00 15.50	14 8.625 5.5	40 1655 4491	25 875 1250	0 CONSTRUCTION 0 CIRC 0 CIRC	0 CONSTRUCTION 0 CIRC 0 CIRC	12.25 7.875	4293-4441'	
34-T18S-R38E 721' FNL & 569' FWL	AMOCO 210	3637 GL	4/86	4380 OIL - 4370 GB/SA	-	42.05 40.50 23.00	16 10.75 7	40 1650 4380	2.5 YD 1200 1600	0 CONSTR. 0 CIRC 0 CIRC	0 CONSTR. 0 CIRC 0 CIRC	22 14.75 9.875	4126-4168'	
34-T18S-R38E 1950' FNL & 535' FWL	AMOCO WI-6	3637 GL	9/83	4444 INJ - 4408 GB/SA	-	36.71 24.00 15.50	14 8.625 5.5	40 1640 4444	4 YD 1380 1800	0 CONSTRUCTION 0 CIRC 0 CIRC	0 CONSTRUCTION 0 CIRC 0 CIRC	12.25 7.875	4232-4406'	
34-T18S-R38E 1980' FNL & 660' FWL	AMOCO 2 /old 29	3642 DF	8/32 8/78 8/82	4180 OIL 4220 GB/SA 4256	-	70.00 45.50 36.00 14.00	16 10.75 8.625 5.5	236 2776 3970 4220	100 400 150 155	124 CALC 618 CALC 0 CIRC 3919 CIRC	19.75 12.25 9.5 7.875	3970-4180'		
34-T18S-R38E 660' FNL & 660' FWL	AMOCO 1 /old 8	3640 *	8/34 3/48 10/78	3976 OIL 4221 GB/SA 4246	-	70.00 40.00 24.00 18.00	16 10.75 7 5.5	224 1647 3976 4221	90 350 1450 50	130 CALC 0 CALC 0 CIRC 3872 CIRC	19.75 12.25 8.75 6.25	4080-4246'		
27-T18S-R38E 650' FSL & 5' FWL	R H KING SANGER #1	3640 *	1/48	4286 DRY	-	32.00 14.00	8.625 5.5	246 4069	200 CIRC 350	2790 TS	CALC	12.25 7.875	PLUGGED	
33-T18S-R38E 510' FNL & 660' FEL	CHEVRON GRIMES STATE B 9	3655 KB	10/83	7110 OIL 6917	-	48.00 32.00 17.00	13.375 8.625 5.5	415 4289 7109	500 1740 1220	0 CIRC 0 CIRC 0 CIRC	0 CIRC 0 CIRC 0 CIRC	17.5 12.25 7.875	6638-6642'	

AOR TABULATION

N.M.O.C.D. ORDER NO. R-6199  
FORM C-108, ITEM VI  
JANUARY 1990

LOCATION S-T-R FOOTAGE	CASING DETAIL											COMPLETION INTERVAL	
	OPERATOR WELL #	ELEV.	DATE DRILLED	TD PBT	WELL TYPE	SIZE	WEIGHT (LB/FT)	DEPTH (FT)	CEMENT (SACKS)	TOC (FT)	DTMND BY		HOLE SIZE
27-T18S-R38E 1200' FNL & 470' FWL	SHELL SANGER #6 (NHU 27-111W)	3641 DF	2/77	4360 INJ. 4218 GB/SA	INJ. GB/SA	8.625 5.5	24.00 15.50	347 4222	275 450	2626 CBL	0 CALC 2626 CBL	12.5 * 7.875 *	4161-4218'
27-T18S-R38E 2645' FSL & 412' FEL	SHELL SANGER #7 (NHU 27-121)	3636 KB	6/36	4250 OIL 4250 GB/SA	OIL GB/SA	12.5 9.625	50.00 36.00	270 1705 4108	150 575 275	0 CIRC 0 CALC 3200 CBL	0 CIRC 0 CALC 3200 CBL	17.5 11.5 * 8.75 *	4180-4250'
27-T18S-R38E 1650' FSL & 412' FWL	SHELL SANGER #3 (NHU 27-131)	3638 KB	6/35	4252 OIL 4252 GB/SA	OIL GB/SA	12.5 9.625	50.00 40.60	259 1645 4075	150 200 250	0 CIRC 735 CALC 3330 CBL	0 CIRC 735 CALC 3330 CBL	16.5 11.5 * 8.75 *	4075-4252'
27-T18S-R38E 330' FSL & 287' FWL	SHELL SANGER #1 (NHU 27-141)	3644 KB	10/34	4257 OIL 4257 GB/SA	OIL GB/SA	12.5 9.625	50.00 36.00	275 1648 4060 4225	250 363 250 100	0 CIRC 50 CALC 3225 CALC 3150 CBL	0 CIRC 50 CALC 3225 CALC 3150 CBL	18 11.5 * 8.75 * 6.25 *	4032-4257'
27-T18S-R38E 1350' FSL & 1350' FWL	SHELL SANGER #5 (NHU 27-231)	3640 KB	7/37	4375 OIL 4375 GB/SA	OIL GB/SA	13 9.625	45.00 36.00	274 1718 4086	150 450 250	0 CIRC 0 CALC 3225 CBL	0 CIRC 0 CALC 3225 CBL	17.5 12 8.75	4086-4375'
27-T18S-R38E 330' FSL & 1325' FWL	SHELL SANGER #2 (NHU 27-241)	3643 DF	2/35	4350 OIL 4345 GB/SA	OIL GB/SA	12.5 9.625	50.00 44.00	233 1648 4060	700 350 250	0 CIRC 0 CIRC 3145 CBL	0 CIRC 0 CIRC 3145 CBL	15 11 8.625	4060-4375'
28-T18S-R38E Surface: 151' FNL & 1702' FEL Bottomhole: 69' FNL & 1312' FEL	SHELL NHU 33-312	3650 DF	5/85	4428 INJ 4381 GB/SA	INJ GB/SA	9.625 7	36.00 20.00	1510 4428	650 975	0 CIRC 0 CIRC	0 CIRC 0 CIRC	12.25 8.75	4120-4270' (MD)
28-T18S-R38E 2310' FNL & 1120' FEL	SAMEDAN MOON B #1 (NHU 28-421)	3648 GL	5/35	4262 OIL 4238 GB/SA	OIL GB/SA	12.5 7	50.00 23.00	235 4020	150 500	0 CIRC 2677 CBL	0 CIRC 2677 CBL	16 8.75 *	4020-4238'
28-T18S-R38E 2199' FNL & 772' FEL	SHELL NHU 28-422W	3649 KB	6/81	4510 INJ 4470 GB/SA	INJ GB/SA	8.625 5.5	24.00 14.00	1600 4503	850 1050	0 CIRC 0 CIRC	0 CIRC 0 CIRC	12.25 * 7.875 *	4239-4270'

AOR TABULATION

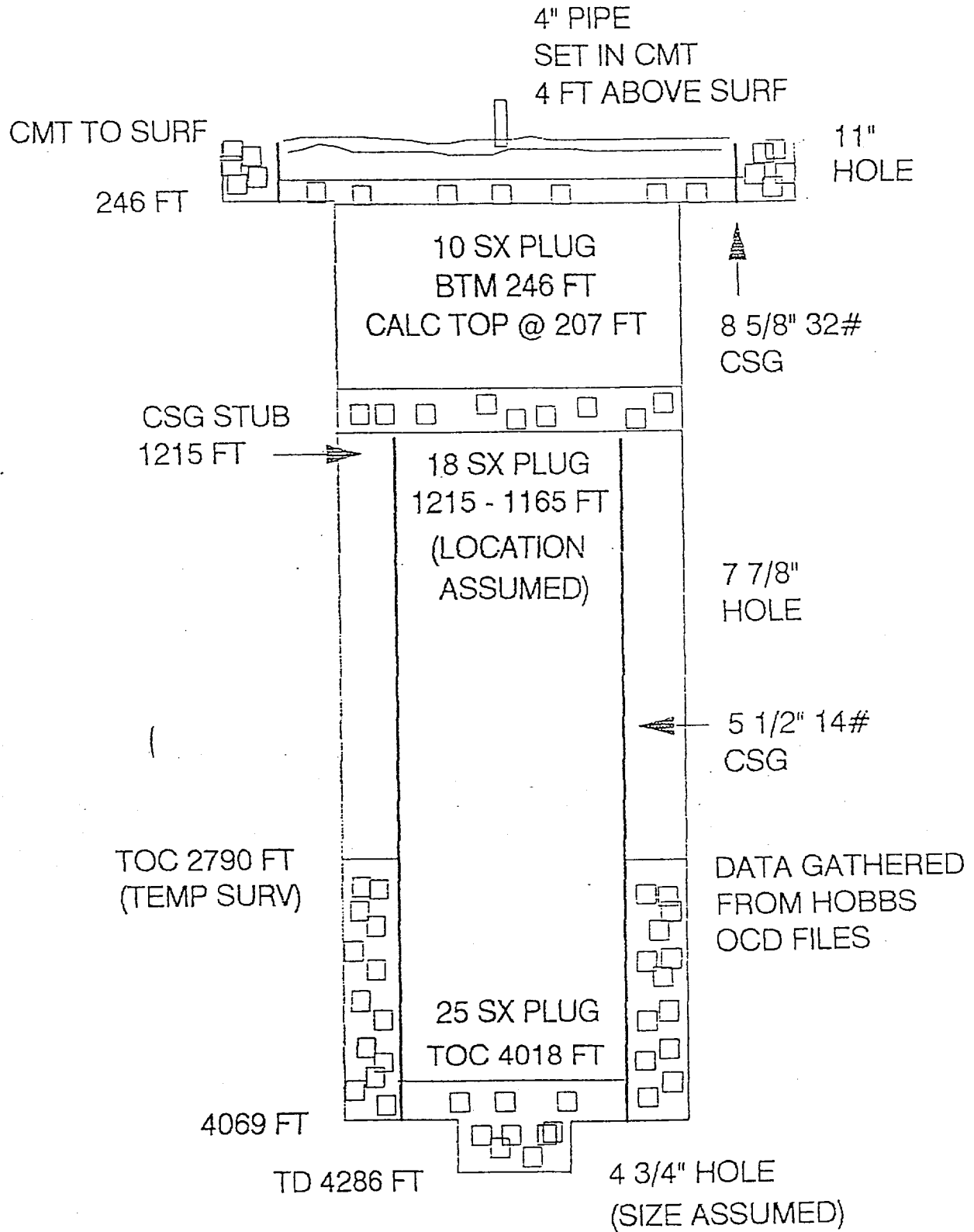
N.M.O.C.D. ORDER NO. R-6199  
FORM C-108, ITEM VI  
JANUARY 1990

LOCATION S-T-R FOOTAGE	OPERATOR WELL #	ELEV.	DATE DRILLED	TD PBT	WELL TYPE	SIZE	WEIGHT (LB/FT)	DEPTH (FT)	CEMENT (SACKS)	TOC (FT)	DTMND BY	HOLE SIZE	COMPLETION INTERVAL	CASING DETAIL	
														GL	INJ
28-T18S-R38E 1650' FSL & 990' FEL	CONTINENT GRIMES #4 (NHU 28-431)	3648	9/35	4225	OIL GB/SA	10.75 7.625 5.5	40.00 26.40 17.00	225 1640 3993	150 400 400	0 0 0	CIRC CIRC CIRC	13.5 9.625 7.875	* 3993-4225' * *		
28-T18S-R38E 330 FSL & 660' FEL	CONTINENT GRIMES #2 (NHU 28-441W)	3642	1/35	4320 4272	INJ GB/SA	10.75 7.625 5.5 4 (LINER - TOL @ 3801)	40.00 26.40 17.00 11.30	243 1634 4015 4318	150 300 300 100	0 185 1940 3801	CIRC CALC TS CIRC	13.5 9.625 6.25 6.25	4102-4257'		
34-T18S-R38E 660 FSL & 1650' FWL	SKELLY TURNER #2 (NHU 34-211)	3642	7/34	4276 4276	OIL GB/SA	12.5 7 5	50.00 24.00 15.00	240 4012 4211	175 400 340	0 1593 0	CALC CALC CIRC	16 8.75 6.25	4211-4276'		
34-T18S-R38E 1980' FNL & 1700' FWL	GETTY TURNER #1 (NHU 34-221)	3638	9/32	4222 4220	OIL GB/SA	12.5 9 7 5	50.00 34.00 24.00 18.00	220 2780 3974 4221	200 400 300 340	0 0 1823 3120	CIRC SQZ CALC CBL	16 11.75 8.5 6.25	* 4083-4217' * * *		
34-T18S-R38E 1022' FNL & 2310' FEL	SHELL TURNER #2 (NHU 34-311)	3641	9/35	4254 4254	OIL GB/SA	12.5 9.625 7	50.00 36.00 24.00	282 1700 4134	150 625 300	0 0 3210	CIRC CIRC CBL	16 11.5 8.75	4134-4254'		
34-T18S-R38E 660' FNL & 660' FEL	GULF GRIMES B #4 (NHU 33-411)	3647	11/34	4256 4256	OIL GB/SA	13.375 9.625 7 5.5 (LINER - TOL @ 3979)	54.50 36.00 24.00 14.00	285 2739 3970 4175	200 351 150 40	0 1723 3260 3964	CALC CALC CBL TS	15 12.25 8.75 6.25	4095-4175'		

ABBREVIATIONS

- \* - ESTIMATED
- CIRC - CIRCULATE
- CBL - CEMENT BOND LOG
- TS - TEMPERATURE SURVEY
- SQZ - SQUEEZED CEMENT TO SURFACE
- TOL - TOP OF LINER
- GB - GRAYBURG
- SA - SAN ANDRES
- GL - GROUND LEVEL
- DF - DERICK FLOOR
- KB - KELLY BUSHING
- MD - MEASURED DEPTH

# R. H. KING SANGER #1



AFFIDAVIT OF PUBLICATION

State of New Mexico,  
County of Lea.

I, Don Teer

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period

of \_\_\_\_\_

One weeks.  
Beginning with the issue dated

May 17, 19 90  
and ending with the issue dated

May 17, 19 90

*Don Teer*  
Business Manager

Sworn and subscribed to before

me this 25th day of

May, 19 90

*Rhonda Copeland*  
Notary Public.

My Commission expires \_\_\_\_\_

July 24, 19 91  
(Seal) NOTARY

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

LEGAL NOTICE

May 17, 1990

Notice is hereby given of the application of Shell Western E&P, Inc., P.O. Box 576, Houston, TX 77001, to the Oil Conservation Division, New Mexico Energy & Minerals Department, for approval of the following injection well for the purpose of pressure maintenance and enhanced recovery.

Well Nos: 27-221W  
Lease/Unit Name:  
North Hobbs (Grayburg/  
San Andres) Unit  
Location: Section 27,  
T18S,  
R38E, Lea County

The NHU 27-221W, 2267' FNL & 505' FWL, will be drilled as a water injector. The injection formation is the San Andres at a depth of approximately 4150 feet below the surface of the ground. Expected maximum injection rate is 2000 barrels of water per day, and expected maximum injection pressure is 830 psi.

Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico 87501, within fifteen (15) days.