

Amoco Production Company (USA)

Post Office Box 68 Hopps, New Mexico 88240

S. J. Okerson District Superintendent

March 14, 1984

File: SJO-545-WF

Re: Application For Authorization To Inject Capps No. 32 Lea County, New Mexico



State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Attn: Mr. Richard L. Stamets

Gentlemen:

Amoco Production Company hereby makes application for administrative approval to expand its South Hobbs (GSA) Unit Pressure Maintenance Project. Forms C-108 and necessary documentations are attached. The wellbore of Capps No. 32 has been purchased by South Hobbs (GSA) Unit and our plans are to recomplete this well from the Drinkard to the Grayburg-San Andres formation. When this work is completed, it will be renamed South Hobbs (GSA) Unit No. 174 and equipped for injection. Your prompt consideration of this application will be appreciated.

If additional information is needed, contact Gary Clark (505) 393-1781.

Yours very truly,

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Attachments

cc: Gordon E. Lucht 315 W. Broadway Hobbs, NM 88240 State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 1980 Hobbs, NM 88240

ENERC	SY AND MINERALS DEPARTMENT	POST OFFICE BOX (7088) STATE LAND OFFICE HUILDING BANTA FE, NEW MEXICO 87501	Revised 7-1-81
APPLIC/	ATION FOR AUTHORIZATION TO INJECT		
Ι.	Purpose: DSecondary Recover Application qualifies for ac	y X Pressure Haintenan Mministrative approval?	ce Disposal Distorage
11.	Operator: Amoco Production	Company	
	Address: P. O. Box 68 H	obbs, NM 88240	
	Contact party: J. M. Breeden	p	hone: <u>(505) 393-1781</u>
			de of this form for each well ay be attached if necessary.
IV.	Is this an expansion of an exis If yes, give the Division order	ting project? X yes number authorizing the p	roject <u><i>R</i>-4134</u> .
۷.	Attach a map that identifies al injection well with a one-half well. This circle identifies t	mile radius circle drawn	
* VI.	Attach a tabulation of data on penetrate the proposed injectio well's type, construction, date a schematic of any plugged well	n zone. Such data shall drilled, location, depth	, record of complicition, and:
VII.	Attach data on the proposed ope	ration, including:	
·	 Whether the system is o Proposed average and ma Sources and an approprities the receiving formati If injection is for disact or within one mile 	pen or closed; ximum injection pressure; ate analysis of injection on if other than reinject posal purposes into a zon of the proposed well, at mation water (may be measu	fluid and compatibility with
*VIII.	Attach appropriate geological d detail, geological name, thickn bottom of all underground sourc total dissolved solids concentr injection zone as well as any s injection interval.	ess, and depth. Give the es of drinking water (aqu. ations of 10,000 mg/l or	ifers containing waters with less) overlying the proposed
1X.	Describe the proposed stimulati	on program, if any.	
* X.	Attach appropriate logging and with the Division they need not		If well logs have been filed
* XI.	Attach a chemical analysis of f available and producing) within location of wells and dates sam	one mile of any injection	
XII.	Applicants for disposal wells m examined available geologic and or any other hydrologic connect source of drinking water.	engineering data and fin	d no evidence of open faults
XIII.	Applicants must complete the "P	roof of Notice" section u	n the reverse side of this form.
XIV.	Certification		
	I hereby certify that the infor to the best of my knowledge and Name: Gary C. Clark	belief.	application is true and correct
			Asst. Administrative Analyst 3-/3-84
	Signature: Hang C. Cla	Data Data	

* 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. August 17, 1983, Order Nos. R-4934-B and R-4934-C copy attached. 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:
 - Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
 - (2) Each easing 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" rither 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. Informat on snown 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 driled 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 of 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. PROGE 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 nile 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 a plicant;
- (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.

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

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		TCMT-3185 (TEMP JURVEY)	Hole size <u> 2'4"</u> Long string Size 1	•	
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4.	DRINKARD Has the well e and give plugg DRINKARD	ver been perforated	l in any other zone(s of cement or bridge p	a)? List all such per	rforated intervals
5.	A ODUU	ND CAPPED UN to and name of any		ENT nderlying oil or gas 2	zones (pools) in
	BOWERS YATES	3150'. 2700 -			



VII.

- 1. Average 800 BWIPD Max 1200 BWIPD
- 2. Closed system
- 3. Average 500 psi Maximum 830 psi (.2 psi/ft. max.)
- 4. Reinjected produced water
- 5. Reinjected into produced zone.

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

APPLICATION OF AMOCO PRODUCTION COMPANY FOR UNORTHODOX LOCATIONS, DIRECTIONAL DRILLING, AND PRESSURE MAINTENANCE EXPANSION, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 9 a.m. on August 17, 1983, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this <u>23rd</u> day of August, 1983, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Amoco Production Company, seeks authority to drill 36 South Hobbs Unit walls at unorthodox oil well locations and to directionally drill 21 of said wells to various bottomhole locations all as shown on Exhibit "A" attached to this order.

(3) That the unorthodox surface locations and the unorthodox bottomhole locations are necessitated by topography and to permit efficient recovery from the South Hobbs Pressure Maintenance Project.

(4) That the quarter-quarter section wherein any of said wells is-drilled or, in the case of directionally drilled wells, the quarter-quarter section wherein any one of said -2-Case No. 7939 Order No. R-4934-B

wells is ultimately bottomed should be dedicated to such well.

(5) That a 75-foot radius tolerance should be provided for the bottomhole location for any directionally drilled well authorized by this order.

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(6) That the applicant should be required to determine the subsurface location of the bottom of directionally drilled holes by means of a continuous multi-shot directional survey conducted subsequent to said directional drilling.

(7) That the applicant also seeks expansion of the South Hobbs Grayburg-San Andres Pressure Maintenance Project to permit injection into Unit Well No. 152 authorized herein.

(8) That said well should be authorized for injection subject to the provisions of Order No. R-4934 which authorized said project.

(9) That, in addition, said well or the injection system should be equipped so as to limit injection pressure at the wellhead to no more than 0.2 pounds per foot of depth to the topmost perforation in any such well but the Director should have authority to increase said pressure limitation should circumstances warrant.

(10) That approval of the subject application will afford the applicant the opportunity to produce its just and equitable share of the oil in the Hobbs Pool and will otherwise prevent waste and protect correlative rights.

IT IS THEREFORE ORDERED:

(1) That the applicant, Amoco Production Company, is hereby authorized 36 unorthodox oil well locations in its South Hobbs Unit, Hobbs Pool, Lea County, New Mexico; all as shown on Exhibit "A" attached to this order.

(2) That the applicant is further authorized to directionally drill 21 of said wells to bottomhole locations also as shown on said Exhibit "A" with a 75 foot radius tolerance target being provided for each such well.

PROVIDED HOWEVER, that prior to the above-described directional drilling, the applicant shall establish the location of the kick-off point by conducting a continuous multi-shot directional survey of the well. -3- . Case No. 7939 Order No. R-4934-B

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PROVIDED FURTHER, that subsequent to the above-described directional drilling, a continuous multi-shot directional survey shall be made of the wellbore from total depth to the kick-off point with shot points not more than 100 feet apart; that the operator shall cause the surveying company to forward a copy of the survey report directly to the Santa Fe office of the Division, P. O. Box 2088, Santa Fe, New Mexico-87501, and that the operator shall notify the Division's Hobbs District Office of the date and time said survey is to be commenced.

(4) That the quarter-quarter section wherein any one of said wells is drilled or, in the case of directionally drilled wells, the quarter-quarter section wherein any such well is ultimately bottomed shall be dedicated to the well.

(5) That approval is also given for the expansion of the South Hobbs Grayburg-San Andres Pressure Maintenance Project to permit injection into Unit Well No. 152 being authorized herein.

(6) That injection into and operation of said well shall be in compliance with the provisions of Division Order No. R-4934 and Division Rules 702 through 708.

(7) That the injection well herein authorized and/or the injection pressurization system shall be equipped as to limit injection pressure at the wellhead to no more than 0.2 pounds per foot of depth to the topmost perforation in such well.

(8) That the Director of the Division may administratively authorize a higher injection pressure upon a proper showing that such pressure will not result in fracturing of the confining zone.

(9) That jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessar

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION PIVISION The JOE D. RAMEY Director

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CASE NO. 7939 ORDER NO. R-4934-B

EXHIBIT "A"

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STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 7939 Order No. R-4934-C

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APPLICATION OF AMOCO PRODUCTION COMPANY FOR UNORTHODOX LOCATIONS DIRECTIONAL DRILLING, AND PRESSURE MAINTENANCE EXPANSION, LEA COUNTY, NEW MEXICO.

NUNC PRO TUNC ORDER

BY THE DIVISION:

It appearing to the Division that Order No. R-4934-B dated August 23, 1983, does not correctly state the intended order of the Division,

IT IS THEREFORE ORDERED:

(1) That Paragraphs (7), (8) and (9) on Page 2 of Order No. R-4934-B in Case No. 7939 are hereby amended to read in their entirety as follows:

*(7) That the applicant also seeks expansion of the South Hobbs Grayburg-San Andres Pressure Maintenance Project to permit injection into Unit Well No. 152, authorized herein, and into 19 other unit wells as shown on Exhibit "B", attached to this order, said wells to be converted from producing wells to injection wells.

(8) That said wells should be authorized for injection subject to the provisions of Order No. R-4934 which authorized said project.

(9) That, in addition, said wells or the injection (9) That, in addition, said weils of the injection system should be equipped so as to limit injection pressure at the wellhead to no more than 0.2 pounds per foot of depth to the topmost perforation in any such well but the Director should have authority to increase said pressure limitation should circumstances warrant."

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(2) That Paragraphs (5), (6) and (7) on Page 3 of Order No. R-4934-B are hereby amended to read in their entirety as follows:

× - - 2 -Case No. 7939 Order No. R-4934-C

> (5) That approval is also given for the expansion of the South Hobbs Grayburg-San Andres Pressure or the south Hobbs Grayburg-San Andres Pressure Maintenance Project to permit injection into Unit Well No. 152, being authorized herein, and into 19 other unit wells as shown on Exhibit "B" attached to this order, such wells to be converted from production to injection.

(6) That injection into and operation of said wells shall be in compliance with the provisions of Division Order No. $R\sim4934$ and Division Rules 702 through 708.

(7) That the injection wells herein authorized (7) That the injection wells herein authorized and/or the injection pressurization system shall be equipped as to limit injection pressure at the wellhead to no more than 0.2 pounds per foot of depth to the topmost perforation in such wells.

(3) That this order shall be effective nunc pro tunc as of August 23, 1983.

DONE at Santa Fe, New Mexico, this __30th__ day of September, 1983.

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STATE OF NEW MEXICO GIL CONSERVATION DIVISION 1 VA JOE D. RAMEY Director

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CASE NO. 7939 Order No. R-4934-C

EXHIBIT "B"

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CAPPS No. 32 V-DOOR West WELL LEA COUNTY 140 x 190' 6'x 6'x 5' LOCATION 516 FWL = 2026 FSL LEGAL Sec. 3 T195, R38E Fee - Gordon E. Lucht, 315 W. BRUAdway 393-7849 SURFACE Fee____ MINERALS LEASEE DIRT CONTRACTOR New-Mex Construction - Hobbs CALECHE PIT Petro-Thermo WATER HAULER ity of Habbs WATER MUD VENDOR BIT VENDOR **MISCELLANEOUS** COPY: J. H. HANKINS WORKING WELL FILE

AFFIDAVIT OF PUBLICATION

State of New Mexico,

County of Lea.

1, ____

Robert L. Summers

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 in a supplement thereof for a period

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Beginning with the issue dated

March 12 , 19 84

and ending with the issue dated

March 12 19 84 I.A.P. Summer Publisher.

Sworn and subscribed to before

dav of me Notary Public.



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 34) March 12, 1984 To Whom It May Concern: Amoco Production Company has applied to the NMOCD for administrative approval to recomplete and convert to injection Capps Well No. 32. The well is located in Unit L, Section 3, Township 19-South, Range 38-East, Lea County, New Mexico. The purpose of this work is to expand the pressure maintenance operations of our South Hobbs (GSA) Unit. Water will be injected into the Grayburg-San Andres Formation at an average rate of 800 BWIPD with an rate of 800 BWIPD with an average injection pressure of 500 psi. Any questions concerning this project may be directed to Mr. John M. Breeden, District Foreman, Amoco Production Com-pany, P.O. Box 68, Hobbs, NM 88240, Phone (505) 393-1781 Interested parties 1781. Interested parties must file objections or request for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, NM 87501, within 15 days.



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OIL CORSERVATION DIVISION DISTRICT 1

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OIL CONSERVATION DIVI	SION	DATE Marc	ch 21, 1984		
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