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FRED W. SCHWENDIMANN
JAMES M. HUDSON

*REGISTERED IN NEW MEXICO
AS HINKLE, COX, EATON,
COFFIELD & HENSLEY, P.L.L.C., LTD., CO.

ATTORNEYS AT LAW

218 MONTEZUMA POST OFFICE BOX 2068

SANTA FE, NEW MEXICO 87504-2068

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L. A. WHITE**

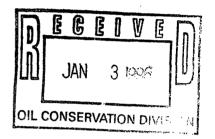
AUSTIN AFFILIATION
HOFFMAN & STEPHENS, P.C.
KENNETH R. HOFFMAN*
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JAMES H. WOOD*

*NOT LICENSED IN NEW MEXICO

*FORMERLY COMPRISING THE FIRM OF
CULTON, MORGAN, BRITAIN & WHITE, P.C.



VIA HAND DELIVERY

January 3, 1996

Michael E. Stogner Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87501

Dear Mr. Stogner:

Pursuant to Division Rule 104(F)(1) and Division Memorandum 1-90, Devon Energy Corporation (Nevada) hereby applies for administrative approval of an unorthodox oil well location for the following well:

Cactus "9-0" Federal Well No. 1, 397 feet FSL and 2,451 feet FEL (Unit O) of Section 9, Township 21 South, Range 26 East, N.M.P.M., Eddy County, New Mexico; East Catclaw Draw-Delaware Pool. (A Form C-102 for the well, with location maps, is attached as Exhibit A.)

The East Catclaw Draw-Delaware Pool is subject to statewide spacing rules, with forty-acre spacing and wells to be located no closer than 330 feet to the boundary of the well unit.

The unorthodox location is required due to topographic reasons. Referring to the aerial photograph marked Exhibit B, existing oil wells are marked by black dots, and the proposed well is marked in red. The proposed well was moved west from an orthodox location due to an existing well (the Federal BQ 2-1), lease roads, and a pipeline.

Geology is a minor factor in this application. Attached as Exhibit C is a structure map on top of the Delaware "B" zone. As you move further East in the S\(\text{SE\(\text{M} \)} \) of Section 9, the acreage becomes less prospective.

Exhibit C also indicates offset leasehold ownership. The information on the plat is current and correct. Devon is the operator of Section 16 and the S½SE¼ of Section 9. Chi Energy is the operator of the acreage in Section 9 offsetting the proposed well to the north, northwest, and west. Thus, it is the only attached offset. Notice of the proposed location was given to Chi per the letter attached as Exhibit D.

Directional drilling to reach a standard bottom-hole location would increase the cost of the well by approximately \$30,000.00 and lead to substantially higher operating costs. Other operators who have drilled directional wells in the Delaware have experienced substantial cost overruns and operational difficulties. As a result, Devon does not desire to directionally drill the well.

Based on all these factors, Devon requests approval of the proposed location.

The surface management agency is the Bureau of Land Management. Attached hereto as Exhibit E is the first page of the APD for the well submitted to the BLM. Pursuant to Division rules, a copy of this application is being mailed to the BLM.

This application is submitted in triplicate. Your attention to this matter is appreciated. If this matter cannot be processed administratively, please set it for the first available hearing. Thank you.

Very truly yours,

HINKLE, COX, EATON, COFFIELD, & HENSLEY, P.L.L.C., LTD., CO.

James Bruce

JB/yrk

Enclosures

cc (w/o enclosures): Ken Gray

Bureau of Land Management - Carlsbad Office

DISTRICT I P. O. Box 1980 Hobbs, NM 88241-1980

DISTRICT II

State of New Mexico
Energy, Minerals, and Natural Resources Department

Form C-102 Revised 02-10-94

Instructions on bock

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

P. O. Drower DD Artesia, NM 88211-0719 DISTRICT III 1000 Rio Brazos Rd. Aztec, NM 87410 P. O. Box 2088 Santa Fe, New Mexico 87504-2088

AMENDED REPORT

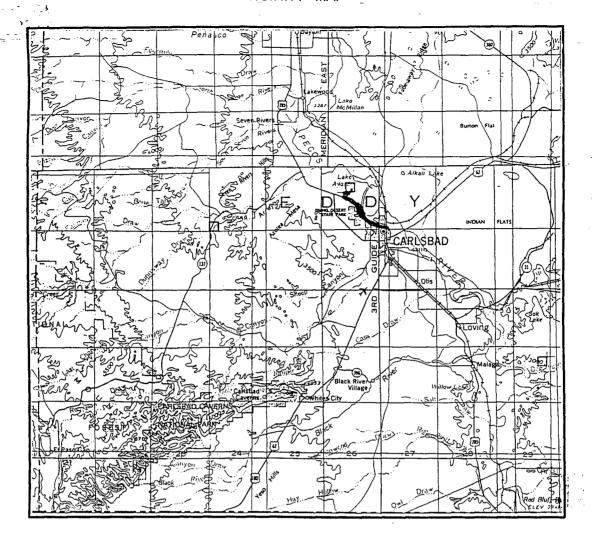
JOB #41334 / 50 NE

P. O. Box 2088

Santa Fe, NM 87507-2088 WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code 10500 3 Pool Name 1 API Number Catclaw Draw, East (Delaware) Property Name Wall Number · Property Code CACTUS '9-0' FEDERAL Rievation OGRID No. * Operator Name DEVON ENERGY CORPORATION (NEVADA) 3287 6137 "SURFACE LOCATION Range Lot Ida | Peet from the North/South line | Peet from the | East/West line County UL or lot no. Section Township 26 EAST, N.M.P.M. 397 SOUTH 2451' EAST EDDY 21 SOUTH 0 "BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE Lot Ida | Feet from the North/South line | Feet from the | East/West line UL or lot no. Section Range 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. 40 NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Printed Name Gerald T. Pepper District Engineer Date September 25, 1995 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Date of Sygnor AUGUST 20 HE 905 nat Surveyor V. LYNN BEZNER NQ. 7920 *397* V. L. BEZNER R.P.S. #7920

WELL LOCATION AND LEASE ROAD IN SECTION 9, T-21-S, R-26-E, N.M.P.M. EDDY COUNTY, NEW MEXICO 3 9 10 DEVON ENERGY CORPORATION CACTUS "9-0" FEDERAL #1 GROUND ELEVATION: 3287" 10 8 2665.15 S 89°55" W. 2670.89" TNO. STONE MIO. AND. BRUSS CA 16 16 PLAN VIEW 1" = 1000' 400' 3281 3278 WELL LOCATION É EXISTING LEASE ROAD 400 DETAIL VIEW SCALE: AS SHOWN DEVON ENERGY CORPORATION REVISED NAME 9-95 VB DATE: AUGUST 29, 1995 MIDLAND, TEXAS REVISION DATE BY JOB NO .: 41334-F SURVEYED BY R.B. SURVEYING AND MAPPING BY DRAWN BY: V.H.B. TOPOGRAPHIC LAND SURVEYORS 50 NE APPROVED BY V.L.B. MIDLAND, TEXAS SHEET 1 OF 1

PLAT SHOWING PROPOSED



SECTION	9	TWP	21-5	<u> </u>	RGE	26-E	
SURVEY	NEW ME	XICO P	RINCIPA	L MER	IDIAN		_
COUNTY	EDD	Y		STATE -	NM	· 	_
DESCRIPTION .		397'	FSL &	2451	· FEL		

OPERATOR DEVON ENERGY CORPORATION

LEASE CACTUS "9-0" FEDERAL #1

DISTANCE & DIRECTION FROM THE JCT. OF U.S. HWY. 285
& U.S. HWY. 180 IN CARLSBAD, THENCE NORTHWEST ± 7

MILES ON U.S. HWY. 285, THENCE NORTH 0.7 MILES ON

LEASE ROAD, THENCE EAST 0.4 MILE & NORTH 0.1 MILE

ON LEASE ROAD TO A POINT ± 150° SOUTHEAST

OF THE LOCATION.



This location has been very carefully staked on the ground according to the best official survey records, maps, and other data available to us.

Review this plat and notify us immediately of any possible discrepancy.

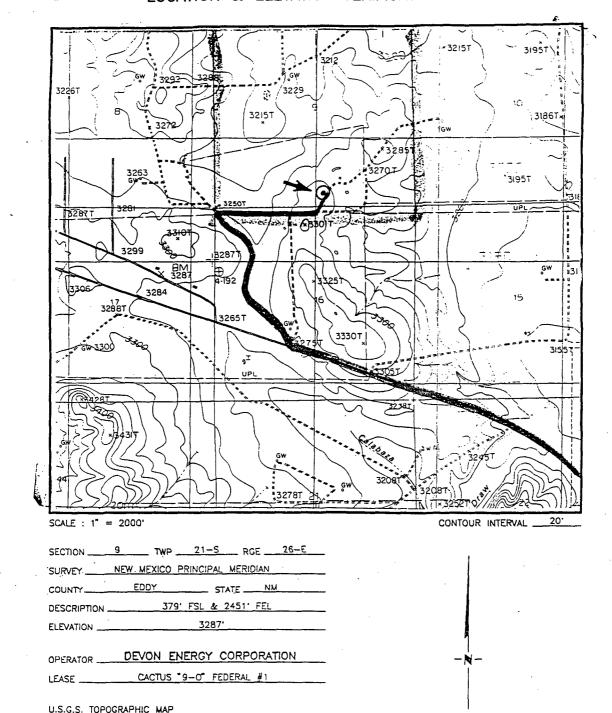
TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

1307 N. HOBART PAMPA, TX. 79065 (800) 658-6382 6709 N. CLASSEN BLVD. OKLAHOMA CITY, OK. 73116 (800) 654—3219

2903 N. BIG SPRING MIDLAND, TX. 79705 (800) 767-1653

LOCATION & ELEVATION VERIFICATION MAP



This location has been very carefully staked on the graund according to the best official survey records, maps, and other data available to us.

Review this plat and notify us immediately of any possible discrepancy.

TOPOGRAPHIC LAND SURVEYORS

Surveying & Mapping for the Oil & Gas Industry

1307 N. HOBART PAMPA, TX. 79065 (800) 658-6382

SCALED LAT. __

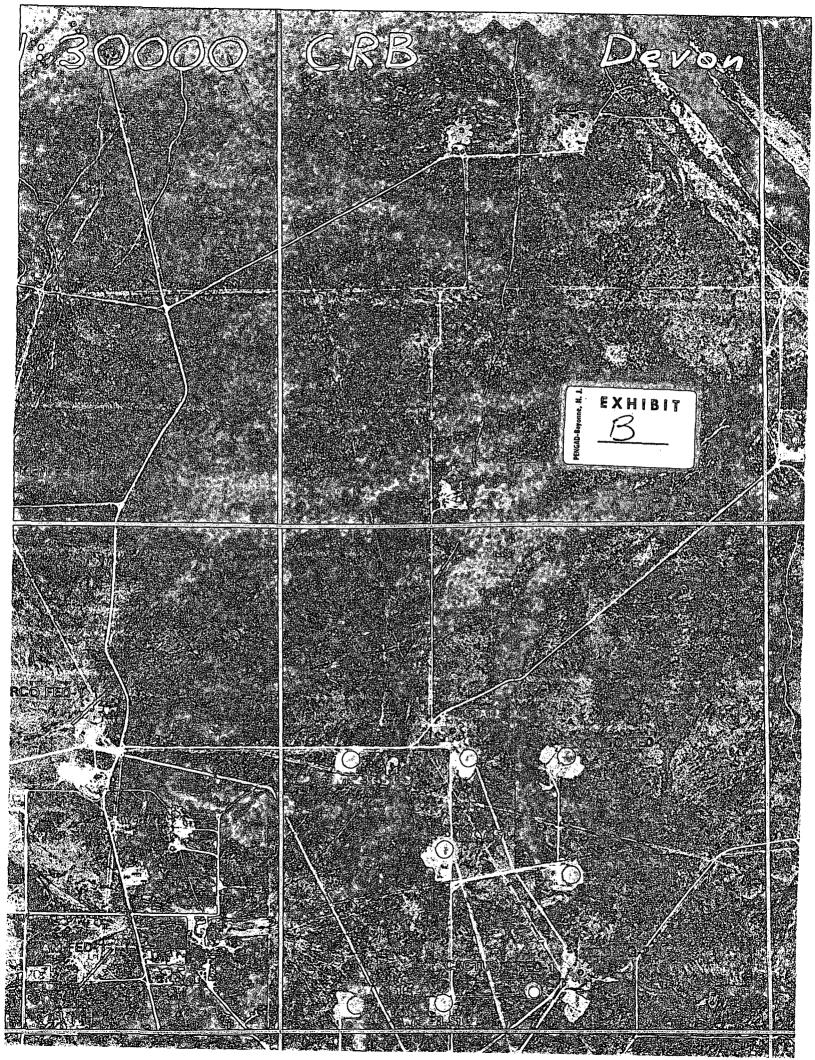
LONG. ___

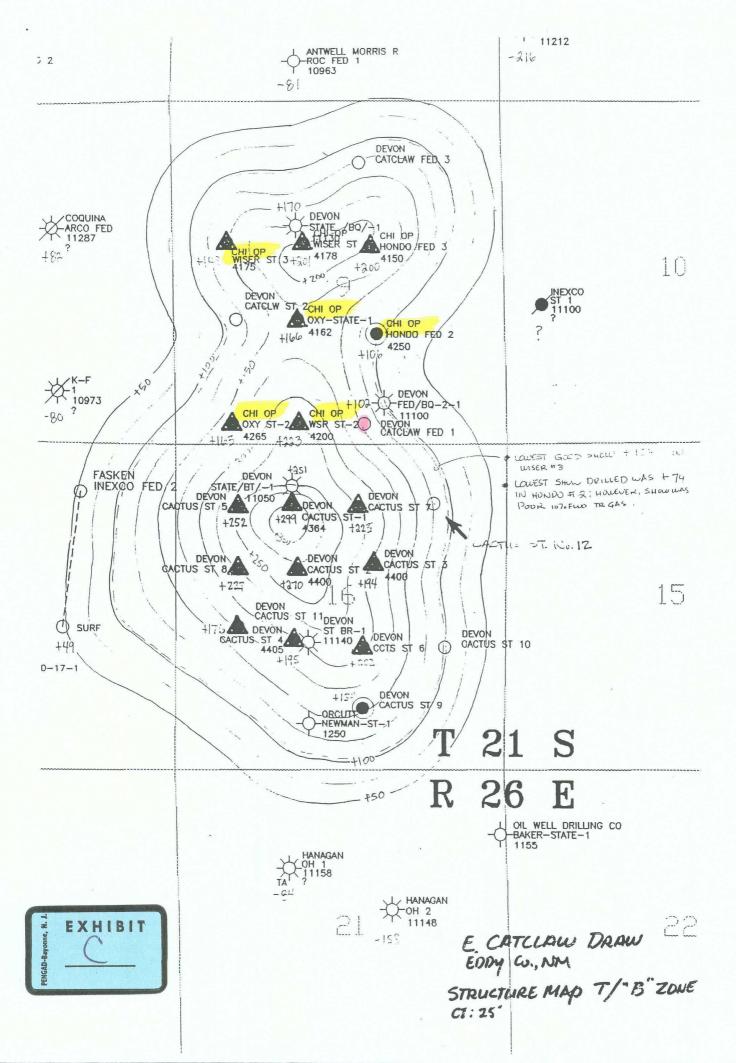
CARLSBAD WEST, NEW MEXICO

N 32 29'17"

W 104'17'37"

6709 N. CLASSEN BLVD. OKLAHOMA CITY, OK. 73116 (800) 654-3219 2903 N. BIG SPRING-MIDLAND, TX. 79705 (800) 767-1653







20 North Broadway, Suite 1500 Oklahoma City, Oklahoma 73102-8260 Telephone:405/235-3611 FAX 405/552-4550

December 21, 1995

CERTIFIED MAIL #Z-253-340-141 RETURN RECEIPT REQUESTED

Chi Energy, Inc. P. O. Box 1799 Midland, Texas 79702 Attention: Bill Bergman

Re: Cactus "9-0" Fed #1

397' FSL and 2451' FEL Sections 9-T21S-R26E Eddy County, New Mexico

Gentlemen:

Devon Energy Corporation (Nevada), as Operator, shall apply to the New Mexico Oil Conservation Division for administrative approval for the referenced unorthodox well location for the drilling of an approximate 3,500' Delaware test well.

A legal location for this proposed well will be prohibited due to the existence of a pipeline/lease road. Our records reflect that Chi Energy, Inc. is the only offset operator in the East Catclaw Draw Delaware Field affected by this application. In that regard, Devon respectfully requests that Chi grant a waiver to the proposed unorthodox location by signing and returning one copy of this letter to the undersigned as soon as possible.

Yours very truly,

DEVON ENERGY CORPORATION (NEVADA)

Ken Gray

District Landman

KG:da\chi5.let
Enclosure

Agree to and Approve the above this _____ day of _____, 1995.

Chi Energy, Inc.

By:______

Title:



.3160-3 cember 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR

SUBMIT IN TRIP ATE.

Form approved.

		FLAND MANAGEMENT		5.LE.	VOIT DEGICALY	tion and serial no.	
APPLICATION FOR PERMIT TO DRILL OR DEEPEN					NM-NM-0400877		
			<u> </u>			TTEE OR TRIBE NAME	
12 TYPE OF WORK:	TYPE OF WORK: DRILL DEEPEN			7.UN	IT AGREEME	NT NAME	
b TYPE OF WELL:	wall Other	THON T	SINOLE N/A N/A			NAME WELL NO.	
2 NAME OF OPERA					tus "90" Fe		
		ORPORATION (NEVADA)		- L	WELL NO.		
3. ADDRESS AND T		SUITE 1500, OKC, OK 7310	2 (405) 235-3611	30-0			
4. LOCATION OF W		d in accordance with any State requ		- 1		OR WILDCAT	
	' FSL & 2451' FEL					East (Delaware) BLOCK AND SURVEY OR AREA	
At top proposed proc	d. zone (SAME)			Unit	t O, Sec. 9-T	21S-R26E	
14.DISTANCE IN MILES	AND DIRECTION FROM NEAREST TO	IWN OR POST OFFICE"		12.0	COUNTY OR PA	ARISH 12 STATE	
5 miles NW of Carl	Isbad, NM			Edd	iy	New Mexico	
15.DISTANCE FROM PRO	POSED	16.NO. OF ACRES IN LEASE			17.	NO. OF ACRES ASSIGNED	
LOCATION TO NEARI PROPERTY OR LEASI	EST	160			\ \ \ \ \	TO THIS WELL	
(Also to nearest drig unit	line if any)	THE PROPERTY APPARE			40		
	drilling, completed,	19.PROPOSED DEPTH				ROTARY OR CABLE TOOLS	
OR APPLIED FOR ON		4300'				DATE WORK WILL START*	
21.ELEVATIONS (Show wh	DELIEST OF, RI, GR, WC)		-	1	February, 1		
GL 3287'				Ĭ	rebiduiy, i	, 370	
23.		PROPOSED CASING AN	D CEMENTING PROGRAM		· · · · · · · · · · · · · · · · · · ·		
SIZE OF HOLE	CRADE, SIZE OF CASING	WEIGHT PER FOOT	SEITING DE	PTH		QUANTITY OF CEMENT	
17 1/2"	13 3/8" H-40	48#	350'		375 a	r Class C	
12 1/4"	8.5/8" J-55	24#	2200'		710 x	35:65 Poz-C + 200 sx Class (
7 7/8"	5 1/2" J-55	15.5#	4300'		1nt St	age 350 ax Class C	
	·		DV Tool +/- 2300"			Stage 200 sx 35:65 Poz-C + x Class C.	
wellbore will be plu and attachments.	igged and abandoned as per Fed	5500' to test the Delaware for com leval regulations. Programs to ad Devon Energy will apply for like a	imercial quantities of oil. If the		100 s	x Class C. ion-commercial, the	
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(NORTH TEAGUE-ELLENBURGER POOL - Cont'd.)

- (11) Applicant's engineering evidence indicates that the initial reservoir pressure within the North Teague-Ellenburger Pool was only sightly above bubble point pressure.
- (12) Applicant contends that as a result of production below bubble point pressure, free gas has formed in the reservoir and migrated through fractures up structure. As a result, a secondary gas cap has formed within the reservoir.
- (13) Further evidence indicates that the field-wide producing gas-oil ratio has remained constant during the producing history of the pool.
- (14) Material balance calculations indicate, according to applicant's testimony, that there is little, if any, water drive in the reservoir.
- (15) The reservoir drive mechanisms appear to be solution gas and gas cap expansion.
- (16) The applicant requrests that the proposed allowable of 560 barrels of oil per day remain in effect for a temporary period of six months. Testimony indicates that the proposed six month period will allow the applicant the opportunity to gather additional reservoir and production data to support and verify its calculations that indicate that the subject reservoir is not rate sensitive.
- (17) No offset operator and/or interest owner appeared at the hearing in opposition to the application.
- (18) The evidence currently available indicates that approval of the proposed oil allowable for a temporary period of six months should not have a detrimental effect on the reservoir, should not reduce ultimate oil recovery, and will allow the applicant the opportunity to gather additional reservoir and production data.
- (19) This case should be reopened at an examiner hearing in April 1994, at which time the applicant should appear and show cause why the oil allowable for the North Teague-Ellenburger Pool should not revert back to 320 barrels of oil per day.

IT IS THEREFORE ORDERED THAT:

- (1) The oil allowable for the North Teague-Ellenburger Pool, located in portions of Sections 4 and 9, Township 23 South, Range 37 East, NMPM, Lea County, New Mexico, is hereby established at 560 barrels of oil per day for a temporary period of six months.
- (2) This case shall be reopened at an examiner hearing in April, 1994, at which time Texaco Exploration and Production Inc., or any other operator in the field, shall appear and show cause why the oil allowable for the North Teague-Ellenburger Pool should not revert back to 320 barrels of oil per day.
- (3) Jurisdiciton of this cause is hereby retained for the entry of such further orders as the Division may deem necessary.

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

EAST CATCLAW DRAW-ELLENBURGER FIELD (Gas-Oil Ratio) Eddy County, New Mexico

Order No. R-9952-A, Adopting a Gas-Oil Ratio Rule for the East Catclaw Draw-Delaware Pool, Eddy County, New Mexico, November 10, 1993, as Amended by Order No. R-9952-B, November 10, 1993.

Order No. R-9952-C, June 5, 1995, continuing in effect the provisions established by Order No. R-9952-A.

Order No. R-9952-D, effective August 1, 1995, through October 31, 1995, sets oil allowable at 150 barrels per day.

Application of Devon Energy Corporation for Special Pool Rules, Eddy County, New Mexico.

DE NOVO CASE NO. 10746 Order No. R-9952-A

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9:00 a.m. on September 22, 1993, at Santa Fe, New Mexico, before the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission".

NOW, on this 10th day of November, 1993, the Commission, a quorum being present, having considered the testimony and the record, and being fully advised in the premises,

FINDS THAT:

- (1) Due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) The applicant, Devon Energy Corporation, seeks the promulgation of temporary Special Rules and Regulations for the East Catclaw Draw-Delaware Pool, Eddy County, New Mexico, including a provision for a gas-oil ratio limitation of 6,000 cubic feet of gas per barrel of oil.
- (3) By Order No. R-9418 dated January 23, 1991, the Division created the East Catclaw Draw-Delaware Pool. The discovery well for the pool was the Chi Operating Inc. Oxy State Well No. 1 located in Unit K of Section 9, Township 21 South, Range 26 East, NMPM, Eddy County, New Mexico.
- (4) The East Catclaw Draw-Delaware Pool, which currently comprises all of Section 9 and the NW/4 of Section 16, is governed by Division General Rules and Regulations, including a gas-oil ratio limitation of 2,000 cubic feet of gas per barrel of oil and an oil allowable of 80 barrels of oil per day per forty acre proration unit.
- (5) Division records indicate that there are currently six wells producing from the East Catclaw Draw-Delaware Pool within Section 9, all operated by Chi Operating Inc.
- (6) The applicant has recently drilled its Cactus State Well No. 1 located 960 feet from the North line and 1860 feet from the West line (Unit C) of Section 16, Township 21 South, Range 26 East, NMPM, and has completed this well in the East Catclaw Draw-Delaware Pool.
- (7) Applicant's geologic evidence indicates that within the East Catclaw Draw- Delaware Pool there are numerous distinct sands covering a 500 feet interval which are oil productive, singularly or in combinations in the various wells in the pool.
- (8) Division records indicate that the Cactus State Well No. 1 was perforated in the Chi "B" "C" and "D" intervals from 3,040 feet to 3,220 feet. The average producing rate for this producing interval was approximately 80 BOPD and 400 to 500 MCFGPD of associated gas. This reservoir produces oil by solution gas drive.

(EAST CATCLAW DRAW-DELAWARE (GAS-OIL RATIO) POOL - Cont'd.)

- (9) Geologic evidence further indicates that the producing interval in the applicant's well is located slightly up-structure from the wells currently being produced in Section 9.
- (10) Applicant's request for a gas-oil ratio limitation of 6,000 cubic feet of gas per barrel of oil is based primarily upon production testing information obtained from the aforesaid Cactus State Well No. 1 which showed the well not to be rate-sensitive and that producing the well at higher rates would not waste reservoir energy.
- (11) A production profile log was run on the Cactus State Well No. 1 on September 18, 1993 to determine the relative contribution to total production of each set of perforations. Results show that approximately 95 percent of both oil and gas production was coming out of the top perforated interval from 3040 to 3070 feet with minor amounts of oil and gas coming out of the two lower zones confirming the initial interpretation of a solution gas drive reservoir where no zone was a predominate gas producer.
- (12) The applicant testified that ultimate recovery would not be reduced by producing the Cactus State Well No. 1 at a higher rate because the gasoil ratio was shown to be independent of producing rates in the various choke tests performed.
- (13) Applicant's evidence indicates that other producing wells in the field have exhibited throughout their producing history fluctuations in producing gas-oil ratios but that higher deliverability wells have tended to produce in excess of the 2,000 to 1 GOR limit.
- (14) Applicant testified that granting the application would result in a faster payout, enhancing the economic feasibility of drilling additional wells to develop the field.
- (15) Applicant requested that an order granting this application be retroactive to June 1, 1993 but the only justification for this request was the overproduced status of the Cactus State Well. A retroactive order would not affect payout of wells yet to be drilled and therefore is not necessary to encourage field development and should be denied.
- (16) No offset operator and/or interest owner appeared at the hearing in opposition to the application.
- (17) Temporary Special Pool Rules for the East Catclaw Draw-Delaware Pool providing for a gas-oil ratio limitation of 6,000 cubic feet of gas per barrel of oil for a period of 18 months would encourage the drilling of new wells in the field with the corresponding acquisition of additional information, such as PVT data, which will help resolve remaining unanswered issues while continuing to protect correlative rights and prevent waste.
- (18) (As Added by Order No. R-9952-B, effective November 10, 1993.) This case should be reopened at an examiner hearing in May, 1995, at which time the applicant should appear and show cause why the limiting gas-oil ratio for the East Catclaw Draw-Delaware Pool should not revert back to the statewide standard 2,000 to one.

IT IS THEREFORE ORDERED THAT:

(1) The application of Devon Energy Corporation for the promulgation of Special Rules and Regulations for the East Catclaw Draw-Delaware Pool, Eddy County, New Mexico, providing for 40 acre oil proration units and 80 BOPD allowable but increasing the gas-oil ratio limitation to 6,000 cubic feet of gas per barrel of oil is hereby approved for a period of 18 months beginning November 1, 1993.

(2) (As Added by Order No. R-9952-B, effective November 10, 1993.) This case shall be reopened at an examiner hearing in May, 1995, to permit the operators in the subject pool to appear and show cause why the limiting gas-oil ratio for the East Catelaw Draw-Delaware Pool should not revert back to the statewide standard 2,000 to one.

(3) (As Amended (Formerly Paragraph 2) by Order No. R-9952-B, effective November 10, 1993.) Jurisdiction of this cause is hereby retained for the entry of such further orders as the Commission may deem necessary.

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

HAPPY VALLEY-DELAWARE POOL (Rules Rescinded) Eddy County, New Mexico

Order No. R-10010-A, Rescinding the Temporary Operating Rules Adopted for the Happy Valley-Delaware Pool, Eddy County, New Mexico, March 8, 1995.

In the Matter of Case No. 10804 being Reopened Pursuant to the Provisions of Division Order No. R-10010, which Order Promulgated Temporary Special Rules and Regulations for the Happy Valley-Delaware Pool in Eddy County, New Mexico, including Provisions for a Limiting Gas-Oil Ratio of 10,000 Cubic Feet of Gas Per Barrel of Oil and a Special Depth Bracket Allowable of 160 Barrels Per Day.

Reopened Case No. 10804 Order No. R-10010-A

ORDER OF THE DIVISION

BY THE DIVISION: This cause came on for hearing at 8:15 a.m. on March 2, 1995, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 8th day of March 1995, the Division Director, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

- (1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.
- (2) By Order No. R-10010, issued in Case No. 10804 on November 4, 1993, the Division, upon application of Collins & Ware, Inc., promulgated Temporary Special Rules and Regulations for the Happy Valley-Delaware Pool, Eddy County, New Mexico, including provisions for a limiting gas-oil ratio of 10,000 cubic feet of gas per barrel of oil and a special depth bracket allowable of 160 barrels per day.

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