

January 24, 1975

File: RCJ-50-LF

Re: 1975 Plan of Development  
Old Indian Draw Unit  
Eddy County, New Mexico

Mr. Carl C. Traywick (3)  
United States Department of the Interior  
P. O. Drawer 1857  
Roswell, NM 88201

Mr. James E. Kaptaina  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, NM 87501

Gentlemen:

Amoco Production Company as Operator of the Old Indian Draw Unit, Eddy County, New Mexico, presents the following recommended 1975 Plan of Development. A map showing the unit and existing and recommended Delaware Participating Areas is attached, along with a cross-section showing the three recent wells in the area.

The initial well in the Unit was located 1980' from the East line and 1980' from the South line of Section 18, T-22-S, R-28-E, Eddy County, New Mexico. The well was spudded on August 27, 1973 and drilled through the Morrow Section reaching a total depth of 12,450' on November 19, 1973. A total of eight (8) drill stem tests were taken while drilling with these being in the Bone Springs, Wolfcamp, Canyon and Morrow. No significant oil or gas shows were found in any of these formations and the well was plugged back to 3385' to test a zone in the Delaware indicated possibly productive by well log analysis. A zone was perforated from 3260'-90' and acidized with 500 gallons of acid. After considerable testing and clean-up it potentialled on December 15, 1973, pumping 108 barrels oil and 5 barrels water per day.

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We then drilled Well No. 2 as a Delaware south 40 acre offset to the No. 1 well. It was completed November 27, 1974, pumping at the rate of 275 barrels oil and 8 barrels water per day. The only other recent activity in the area is a Delaware dry hole completed October 8, 1974, by LaRue and Muncy, located 1980' from the north line and 660' from the east line of Section 13, T-22-S, R-27-E. This location is just west of the unit area and about 4000' northwest of our No. 1 well. It was drilled to a TD of 3421' and tested various Delaware zones with only water being produced.

We do not recommend any deep tests in the Unit during 1975. We do recommend continued development in the Delaware with up to possibly four (4) wells being drilled. These would be located generally to the south, east and north of existing wells. In the event we do drill one or more dry holes, we may feel we should observe more pressure and production performance from existing wells. Possibly these data would give us a better estimate of the reservoir area involved and be a guide in further development.

Your favorable consideration of the above is respectfully requested.

Yours very truly,

ORIGINAL SIGNED:  
C. A. CHRISTENSEN

JVM/mct  
4/222

bcc: Mr. Alex Clarke, Jr. w/Attachments  
Andrews, TX

50-1  
OIL CONSERVATION COMMISSION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

January 6, 1976

Amoco Production Company  
P. O. Box 3092  
Houston, Texas 77001

Attention: Mr. A. R. Reed

Re: Delaware Participating Area  
Expansions and 1976 Plan of  
Development, Old Indian Draw  
Unit, Eddy County, New Mexico

Gentlemen:

This is to advise that the New Mexico Oil Conservation Commission has this date approved the Second and Third Expansions of the Delaware Participating Area and the 1976 Plan of Development for the Old Indian Draw Unit, Eddy County, New Mexico, subject to like approval by the United States Geological Survey.

Two approved copies of the application are returned herewith.

Very truly yours,

JOE D. RAMEY  
Secretary-Director

JDR/JEK/og

cc: U. S. Geological Survey - Roswell



**Amoco Production Company**

500 Jefferson Building  
P.O. Box 3092  
Houston, Texas 77001

December 15, 1975

File: RCJ-4250-LF

Re: Delaware Participating Area  
Expansions and 1976 Plan of  
Development, Old Indian Draw Unit,  
Eddy County, New Mexico



Mr. John Duletsky (3)  
Acting Area Oil and Gas Supervisor  
United States Department of the Interior  
Geological Survey  
P. O. Drawer 1857  
Roswell, NM 88201

Mr. James E. Kapteina (3)  
New Mexico Oil Conservation Commission  
P. O. Box 2088  
Santa Fe, NM 87501

Gentlemen:

Amoco Production Company, as operator of the Old Indian Draw Unit, Eddy County, New Mexico, hereby makes four recommendations concerning this Unit which are outlined in Attachment No. 1. Also included is a detailed listing of the Delaware participating area expansions and a map which graphically portrays these expansions. A cross section attached shows the pay zone and the correlation for all six Unit wells which have been drilled.

Our recommendation No. 1 is based on the completion of Well No. 3 on May 27, 1975, pumping 86 barrels of oil and 39 barrels of water per day. After five months' production, the well has settled at around 40-50 barrels oil per day and is a commercial producer.

Our recommendation No. 2 is based on the completion of Well No. 5 on September 19, 1975, pumping 90 barrels oil and 57 barrels water per day. The well is holding up at about that rate and is a commercial producer. Recommendation No. 2 is also based on the completion of Well

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December 15, 1975


No. 6 on September 24, 1975, pumping 97 barrels oil and 17 barrels water per day. This is the highest structural well in the field and should have a long commercial life.

Our recommendation No. 3 is based on the fact that Well No. 4 is, for all practical purposes, a dry hole. It was potentialled on June 25, 1975, pumping 15 barrels oil and 64 barrels water per day. Production declined rapidly and turned to all water after producing slightly less than 1000 barrels oil. We plan to ask for authority to use this well for water disposal.

Recommendation No. 4 calls for the drilling of at least three Delaware tests in the unit in 1976. We find that reservoirs with high natural water content even in the oil zone are somewhat difficult to analyze and evaluate. We therefore may be faced with somewhat erratic drilling if we are to keep dry holes or uneconomic producers to a minimum. In fact, we can presently see only two locations which all partners would agree could be drilled in the near future. We expect, however, as we proceed, to be able to drill at least three wells during the year.

Your favorable consideration of the four recommendations is respectfully requested.

Yours very truly,



A. R. Reed  
Division Operations Superintendent

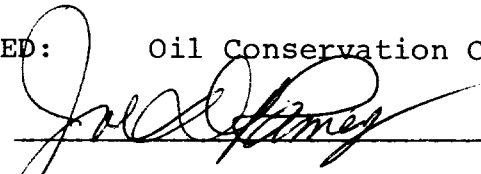
JVM/caw  
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Attachments

ATTACHMENT NO. 1

RECOMMENDATIONS ON  
OLD INDIAN DRAW UNIT (DELAWARE)  
EDDY COUNTY, NEW MEXICO

1. The Second Expansion of the Old Indian Draw Unit Delaware Participating Area effective 5/1/75 to include the NW/4 NE/4 of Section 19, T-22-S, R-28-E, Eddy County, New Mexico.
2. The Third Expansion of the Old Indian Draw Unit Delaware Participating Area effective 9/1/75 to include the SW/4 NE/4 and Lot 9 of Section 18, T-22-S, R-28-E, Eddy County, New Mexico.
3. Determination that Old Indian Draw Unit Delaware Well No. 4 located 1980' from the south line and 660' from the east line of Section 18, T-22-S, R-28-E, Eddy County, New Mexico, is a non-commercial Delaware oil well.
4. A 1976 Plan of Development for the Old Indian Draw Unit calling for at least three Delaware oil tests.

APPROVED:  Oil Conservation Commission

ACTION: \_\_\_\_\_

DATE: January 6, 1976

Allocation Schedule  
Initial, plus First, Second, and Third Revisions of Delaware Participating Area  
Old Indian Draw Unit, Eddy County, New Mexico

<u>Tract No.</u>	<u>Description</u>	<u>Lease No.</u>	<u>Participating Acres</u>	<u>Date Effective</u>	<u>% of Total Participating Area</u>
		<u>Initial Participating Area</u>			
3	NW/4 SE/4, Sec. 18, T22S, R28E	NM-0415688-A	40.00	12-15-73	20.38944
		<u>First Revision</u>			
3	SW/4 SE/4, Sec. 18, T22S, R28E	NM-0415688-A	40.00	11-1-74	20.38944
		<u>Second Revision*</u>			
2	NW/4 NE/4, Sec. 19, T22S, R28E	NM-0415461	40.00	5-1-75	20.38944
		<u>Third Revision*</u>			
3	SW/4 NE/4, Sec. 18, T22S, R28E	NM-0415688-A	40.00	9-1-75	20.38944
3	Lot 9, Sec. 18, T22S, R28E	NM-0415688-A	36.18	9-1-75	18.44224
		Total	196.18	Total	100.00000

\*Currently recommended



**Amoco Production Company**

Houston Region  
500 Jefferson Building  
Post Office Box 3092  
Houston, Texas 77001  
West Texas-Eastern  
New Mexico Division

S. J. Okerson  
Division Operations  
Superintendent

March 6, 1979

File: CGF(10)-933-LF

Re: Delaware Participating Area Expansion  
Old Indian Draw Unit  
Eddy County, New Mexico

*Ms.  
50 29*

Mr. J. A. Gilliam (3)  
Acting Area Oil and Gas Supervisor  
United States Department of the Interior  
Geological Survey  
P.O. Drawer 1857  
Roswell, NM 88201

Mr. Joe D. Ramey, Director  
New Mexico Oil Conservation Commission  
P.O. Box 2028  
Santa Fe, NM 87501

Gentlemen:

Please reference our previous letter, dated November 7, 1978, File: CGF(10)-766-LF, in which we applied for expansions to the Delaware Participating Area of the Old Indian Draw Unit, Eddy County, New Mexico. At the request of the USGS, we have revised our application as follows:

Recommendation of the Tenth Expansion is based on the completion of two wells:





Mr. J. A. Gilliam et al

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March 6, 1979

- (a) Well No. 19 in NE/4 SW/4 of Section 7 on May 2, 1977, pumping 151 barrels of oil and 20 barrels of water per day.
- (b) Well No. 23 in Lot 7 of Section 7 completed on May 29, 1977, pumping 19 barrels of oil and 19 barrels of water per day.

Recommendation of the Eleventh Expansion is based on the completion of three wells:

- (a) Well No. 21 in SW/4 SE/4 of Section 7 completed on June 13, 1977, pumping 104 barrels of oil and 14 barrels of water per day.
- (b) Well No. 24 in NW/4 SE/4 of Section 7 completed on June 30, 1977, pumping 80 barrels of oil and 16 barrels of water per day.
- (c) Well No. 22, in Lot 10 of Section 18, on June 19, 1977, pumping 44 barrels of oil and 0 barrels of water per day.

Recommendation of the Twelfth Expansion is based on the completion of Well No. 35 in the NE/4 SE/4 of Section 7, on July 26, 1977, pumping 34 barrels of oil and 30 barrels of water per day.

In addition, we have attached revised participating schedules for each expansion, a map which graphically portrays each expansion, and, at the request of the USGS, a structure map of the unit. Your favorable consideration is respectfully requested.

Yours very truly,

ORIGINAL SIGNED

S. J. OKERSON

BY AWB/

KWB/slv

147/D(4)

Attachments

OLD INDIAN DRAW UNIT (NO. 522059)  
DELAWARE PARTICIPATING ACREAGE SCHEDULE  
AFTER TENTH EXPANSION EFFECTIVE MAY 1, 1977

UNIT TRACT NO.	ACREAGE DESCRIPTION	LEASE NUMBER	NO. ACRES	PARTICIPATION PERCENT-DECIMAL	WELLS NOS. INVOLVED
3	NW/4 SE/4, Section 18, T22S, R28E	NM-0415688-A (USA)	40.00	.062195	1
3	SW/4 SE/4, Section 18, T22S, R28E	NM-0415688-A (USA)	40.00	.062195	2
2	NW/4 NE/4, Section 19, T22S, R28E	NM-0415461 (USA)	40.00	.062195	3
3	SW/4 NE/4, and Lot 9, Section 18, T22S, R28E	NM-0415688-A (USA)	76.18	.118450	5, 6
3	Lot 8, Lot 12, and SE/4 SE/4, Section 18, T22S, R28E	NM-0415688-A (USA)	112.40	.174768	7, 8, 9
3	Lot 5, Section 18, T22S, R28E	NM-0415688-A (USA)	36.38	.056566	10
2	NE/4 NE/4, Section 19, T22S, R28E	NM-0415461 (USA)	40.00	.062195	11
3	Lot 7, Section 18, T22S, R28E	NM-0415688-A (USA)	34.43	.053534	12
3	Lot 6, Section 18, T22S, R28E	NM-0415688-A (USA)	34.39	.053472	13
6	SE/4 SW/4, Section 7, T22S, R28E	Fee-unsigned royalty	40.00	.062195	14
3	NW/4 NE/4, Section 18, T22S, R28E	NM-0415688-A (USA)	40.00	.062195	15
4	Lot 8, Section 7, T22S, R28E	NM-0429825 (USA)	34.44	.053549	16
6	NE/4 SW/4, Section 7, T22S, R28E	Fee-unsigned royalty	40.00	.062195	19
4	Lot 7, Section 7, T22S, R28E	NM-0429825 (USA)	<u>34.92</u>	<u>.054296</u>	23
			643.14	1.000000	

OLD INDIAN DRAW UNIT (NO. 522059)  
DELAWARE PARTICIPATING ACREAGE SCHEDULE  
AFTER ELEVENTH EXPANSION EFFECTIVE MAY 1, 1977

UNIT TRACT NO.	ACREAGE DESCRIPTION	LEASE NUMBER	NO. ACRES	PARTICIPATION PERCENT-DECIMAL	WELLS NOS. INVOLVED
3	NW/4 SE/4, Section 18, T22S, R28E	NM-0415688-A (USA)	40.00	.052800	1
3	SW/4 SE/4, Section 18, T22S, R28E	NM-0415688-A (USA)	40.00	.052800	2
2	NW/4 NE/4, Section 19, T22S, R28E	NM-0415461 (USA)	40.00	.052800	3
3	SW/4 NE/4, and Lot 9, Section 18, T22S, R28E	NM-0415688-A (USA)	76.18	.1005570	5, 6
3	Lot 8, Lot 12, and SE/4 SE/4, Section 18, T22S, R28E	NM-0415688-A (USA)	112.40	.148367	7, 8, 9
3	Lot 5, Section 18, T22S, R28E	NM-0415688-A (USA)	36.38	.048021	10
2	NE/4 NE/4, Section 19, T22S, R28E	NM-0415461 (USA)	40.00	.052800	11
3	Lot 7, Section 18, T22S, R28E	NM-0415688-A (USA)	34.43	.045448	12
3	Lot 6, Section 18, T22S, R28E	NM-0415688-A (USA)	34.39	.045394	13
6	SE/4 SW/4, Section 7, T22S, R28E	Fee-unsigned royalty	40.00	.052800	14
3	NW/4 NE/4, Section 18, T22S, R28E	NM-0415688-A (USA)	40.00	.052800	15
4	Lot 8, Section 7, T22S, R28E	NM-0429825 (USA)	34.44	.045460	16
6	NE/4 SW/4, Section 7, T22S, R28E	Fee-unsigned royalty	40.00	.052800	19
4	Lot 7, Section 7, T22S, R28E	NM-0429825 (USA)	34.92	.046094	23
6	SW/4 SE/4 and NW/4 SE/4, Section 7, T22S, R28E	Fee-unsigned royalty	80.00	.105599	21, 24
3	Lot 10, Section 18, T22S, R28E	NM-0415688-A	<u>34.44</u>	<u>.045460</u>	22
			757.58	1.000000	

OLD INDIAN DRAW UNIT (NO. 522059)  
 DELAWARE PARTICIPATING ACREAGE SCHEDULE  
 AFTER TWELFTH EXPANSION EFFECTIVE MAY 1, 1977

UNIT TRACT NO.	ACREAGE DESCRIPTION	LEASE NUMBER	NO. ACRES	PARTICIPATION PERCENT-DECIMAL	WELLS NOS. INVOLVED
3	NW/4 SE/4, Section 18, T22S, R28E	NM-0415688-A (USA)	40.00	.050152	1
3	SW/4 SE/4, Section 18, T22S, R28E	NM-0415688-A (USA)	40.00	.050152	2
2	NW/4 NE/4, Section 19, T22S, R28E	NM-0415461 (USA)	40.00	.050152	3
3	SW/4 NE/4, and Lot 9, Section 18, T22S, R28E	NM-0415688-A (USA)	76.18	.095514	5, 6
3	Lot 8, Lot 12, and SE/4 SE/4, Section 18, T22S, R28E	NM-0415688-A (USA)	112.40	.140926	7, 8, 9
3	Lot 5, Section 18, T22S, R28E	NM-0415688-A (USA)	36.38	.045613	10
2	NE/4 NE/4, Section 19, T22S, R28E	NM-0415461 (USA)	40.00	.050152	11
3	Lot 7, Section 18, T22S, R28E	NM-0415688-A (USA)	34.43	.043168	12
3	Lot 6, Section 18, T22S, R28E	NM-0415688-A (USA)	34.39	.043118	13
6	SE/4 SW/4, Section 7, T22S, R28E	Fee-unsigned royalty	40.00	.050152	14
3	NW/4 NE/4, Section 18, T22S, R28E	NM-0415688-A (USA)	40.00	.050152	15
4	Lot 8, Section 7, T22S, R28E	NM-0429825 (USA)	34.44	.043180	16
6	NE/4 SW/4, Section 7, T22S, R28E	Fee-unsigned royalty	40.00	.050152	19
4	Lot 7, Section 7, T22S, R28E	NM-0429825 (USA)	34.92	.043782	23
6	SW/4 SE/4 and NW/4 SE/4, Section 7, T22S, R28E	Fee-unsigned royalty	80.00	.100303	21, 24
3	Lot 10, Section 18, T22S, R28E	NM-0415688-A	34.44	.043180	22
6	NE/4 SE/4, Section 7, T22S, R28E	Fee-unsigned royalty	40.00	.050152	35
			797.58	1.000000	