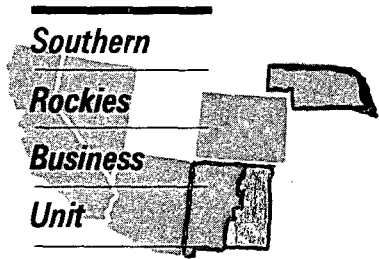




March 21, 1995

OIL CONSERVATION DIVISION
RECEIVED

1995 MAR 30 PM 8 52



Signature Date 4/19/95

Mr. William J. LeMay, Director
New Mexico Oil Conservation Division
2040 S. Pacheco Street
P.O. Box 6429
Santa Fe, NM 87505

**Application for Exception to Rule 303-A
Downhole Commingling and
Approval of Unorthodox Location
Childers #3E Well
1290' FSL, 1780' FEL, Section 3-T31N-R11W
Blanco Pictured Cliffs, Basin Dakota Pools
San Juan County, New Mexico**

Amoco Production Company hereby requests administrative approval to downhole commingle production from the Blanco Pictured Cliffs and Basin Dakota Pools and approval for an unorthodox location for the Blanco Pictured Cliffs Pool in the Childers #3E well referenced above. This well was originally drilled at an approved non-standard location under order NSL-1627 and has been producing as a single Dakota completion. We now wish to add the Pictured Cliffs formation and downhole commingle the two zones in this well. The ownership (WI, RI ORRI) of these pools is identical in this wellbore. Downhole commingling will offer an economical method of production while protecting against reservoir damage, waste of reserve and violation of correlative rights. Offset operators affected by this application will receive a copy by certified mail return receipt requested.

Sincerely,

JWHawkins/eb

J. W. Hawkins

Enclosures

cc: Mark Rothenberg

Frank Chavez, Supervisor
NMOCD District III
1000 Rio Brazos Road
Aztec, NM 87410

Application for Exception to Rule 303: SEGREGATION OF PRODUCTION FROM POOLS

Requirements

- (1) Name and address of the operator:

Amoco Production Company
P.O. Box 800
Denver, CO 80201

- (2) Lease name, well number, well location, name of the pools to be commingled:

Lease Name: Childers
Well Number: 3E
Well Location: 1290' FSL & 1780' FEL
Section 3, T31N-R11W
San Juan County, New Mexico
Pools Commingled: Blanco Pictured Cliffs
Basin Dakota

- (3) A plat of the area showing the acreage dedicated to the well and the ownership of all offsetting leases.

Attached

- (4) A current (within 30 days) 24-hour productivity test on Division Form C-116 showing the amount of oil, gas and water produced from each zone.

The Dakota has produced for over 20 years and is currently averaging about 20 mcf/d. The Pictured Cliffs will be a new completion and has not been produced.

- (5) A production decline curve for both zones showing that for a period of at least one year a steady rate of decline has been established for each zone which will permit a reasonable allocation of the commingled production to each zone for statistical purposes. (This requirement may be dispensed within the case of a newly completed or recently completed well which has little or not production history. However, a complete resume of the well's completion history including description of treating, testing, etc., of each zone, and a prognostication of future production from each zone shall be permitted.)

Dakota Completion: Historical production curve attached.

Pictured Cliffs Completion: not yet completed.

- (6) Estimated bottomhole pressure for each artificially lifted zone. A current (within 30 days) measured bottom hole pressure for each zone capable of flowing.

	BH Pressure	SI Tubing Press.	Fluid Level
Blanco Pictured Cliffs Completion:	500 est. psi		
Basin Dakota Completion	481 psi	431 psi	0'

- (7) A description of the fluid characteristics of each zone showing that the fluids will not be incompatible in the wellbore.

The fluids have no abnormal components that would prohibit commingling, or promote the creation of emulsions or scale.

- (8) A computation showing that the value of the commingled production will not be less than the sum of the values of the individual streams:

Since the BTU content of the produced fluids are very similar, we would expect the commingled production to have the same value as the sum of the individual streams.

- (9) A formula for the allocation of production to each of the commingled zones and a description of the factors or data used in determining such formula:

The well is undergoing additional testing to aid in determination of the allocation factor. We propose a fixed percentage allocation using the recent average Dakota rate as a percentage of the commingled rate.

- (10) A statement that all offset operators and, in the case of a well on federal land, the United States Bureau of Land Management, have been notified in writing of the proposed commingling.

Offsetting operators listed on the attached page will receive a copy of this application by certified mail..

Amoco Production Company

Offset Operator Plat

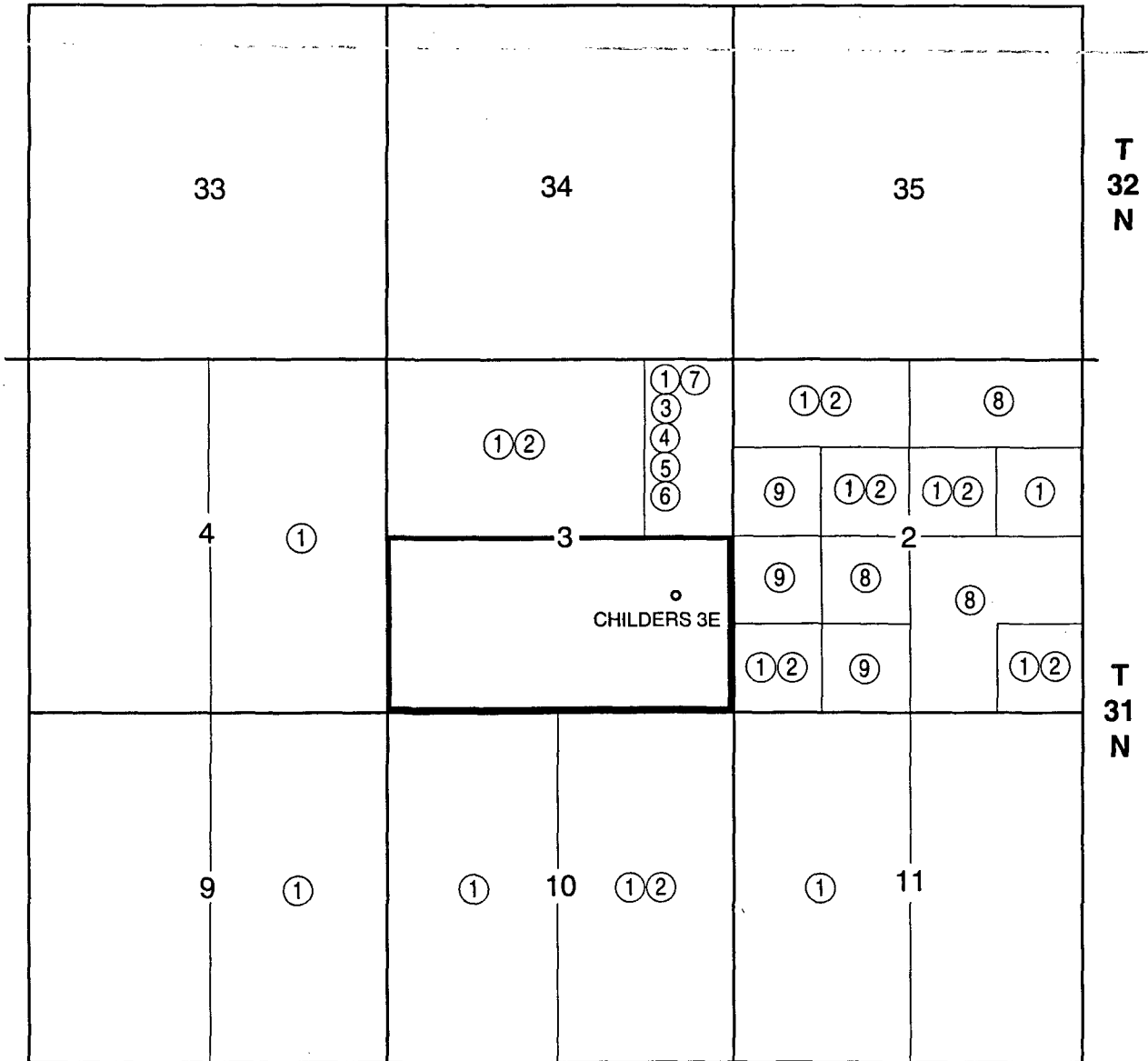
Childers 3E

T31N-R11W Sec. 3

1290' FSL & 1780' FEL

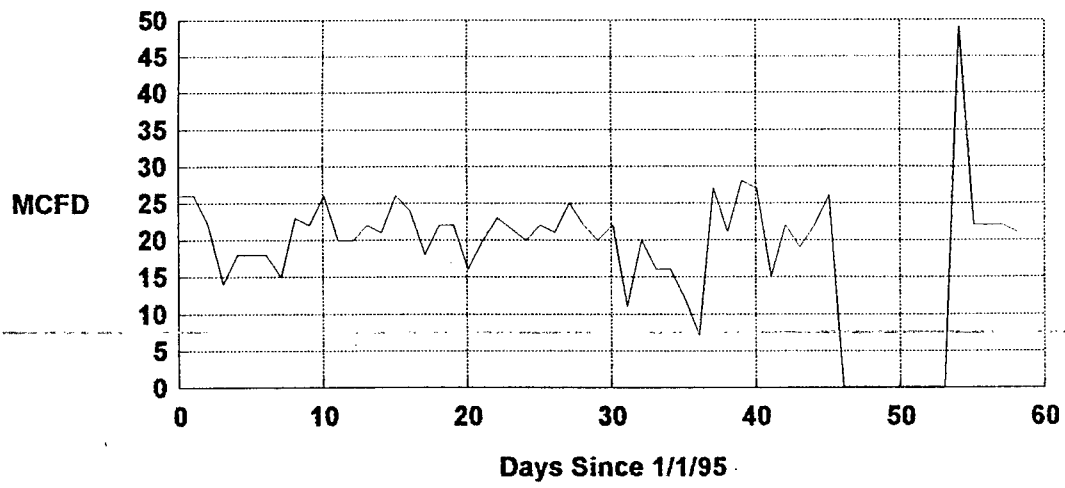
Dakota Formation

R 11 W



- ① Amoco Production Company
- ② Conoco, Inc.
- ③ Robert Umbach
- ④ George Umbach
- ⑤ Wayne Moore
- ⑥ Cross Timbers Oil Company
- ⑦ Meridian Oil, Inc.
- ⑧ Meridian Oil Production, Inc.
- ⑨ El Paso Production Company

San Juan O.C.
WELL: CHILDERS 003E-DK (97982701)
(Downtime excluded)



District I
PO Box 1980, Hobbs, NM 88241-1980

District II

811 South First, Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
2040 South Pacheco
Santa Fe, NM 87505

Form C-102

Revised October 18, 1994

Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 3004525623		² Pool Code 72359		³ Pool Name Blanco Pictured Cliffs (Gas)	
⁴ Property Code 000372		⁵ Property Name Childers			⁶ Well Number 3E
⁷ OGRID No. 000778		⁸ Operator Name Amoco Production Company			⁹ Elevation

¹⁰ Surface Location

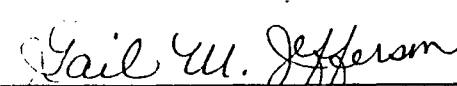
UL or lot no. 0	Section 3	Township 31N	Range 11W	Lot Idn	Feet from the 1290	North/South line South	Feet from the 1780	East/West line East	County San Juan
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
---------------	---------	----------	-------	---------	---------------	------------------	---------------	----------------	--------

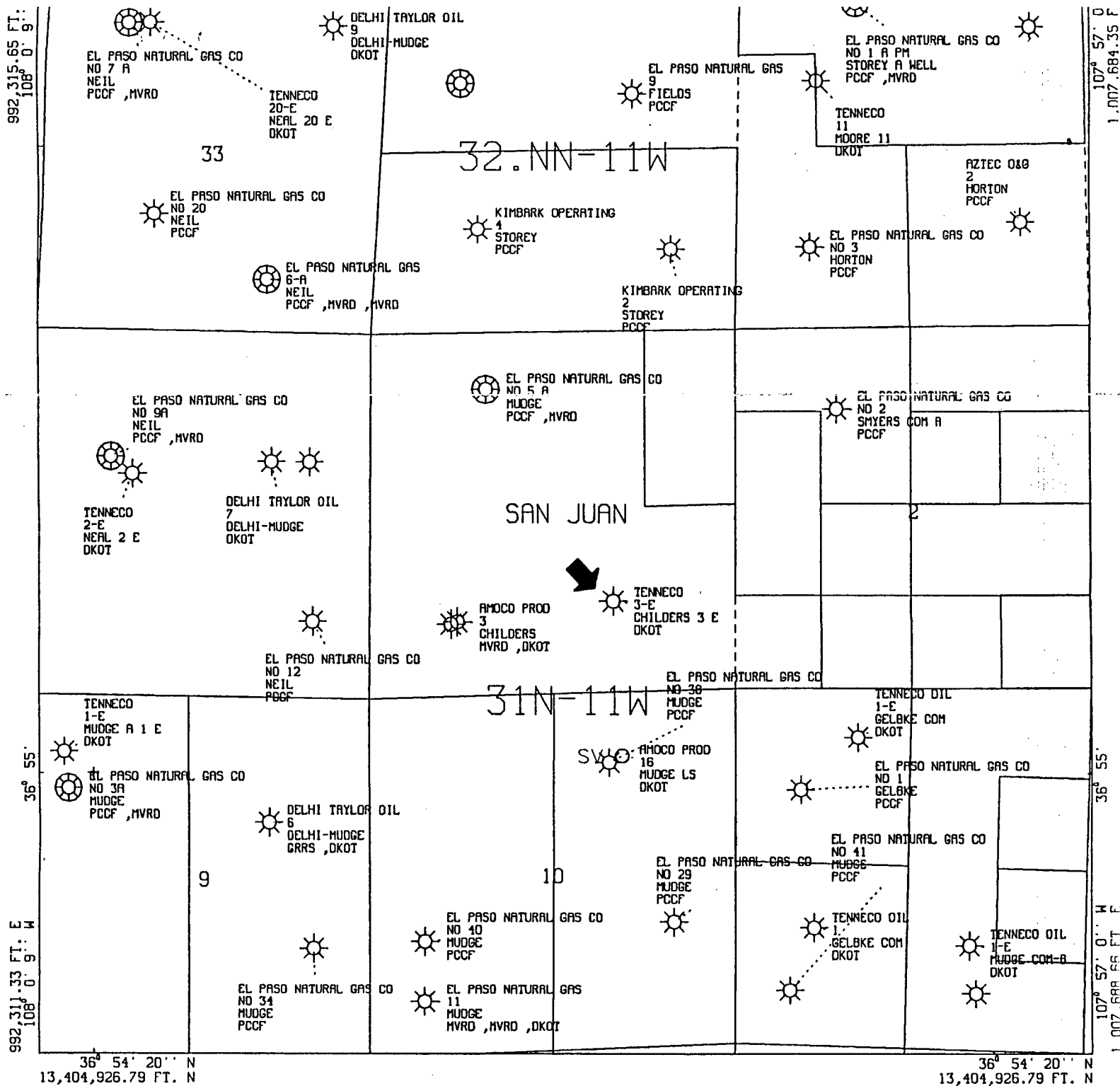
¹² Dedicated Acres 160.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

¹⁶				¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief  Signature Gail M. Jefferson Printed Name Business Assistant Title 03-16-1995 Date
				¹⁸ 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. September 23, 1982 Date of Survey Signature and Seal of Professional Surveyer: 3950 Certificate Number

1290' FSL

1780'



All geological and geophysical data, including the interpretation thereof, appearing on this map is the private and confidential property of Amoco Production Company. The publication or reproduction thereof without the written permission of said Company is strictly prohibited.

AMOCO PRODUCTION COMPANY PLAT MAP

POLYCONIC CENTRAL MERIDIAN - 107° 58' 35" W LON
SPHEROID - 6

Childers 3E
Offset DK and PC Wells

SCALE 1 IN. = 2,000 FT. FEB 24, 1995

Amoco Production Company

Offset Operator Plat

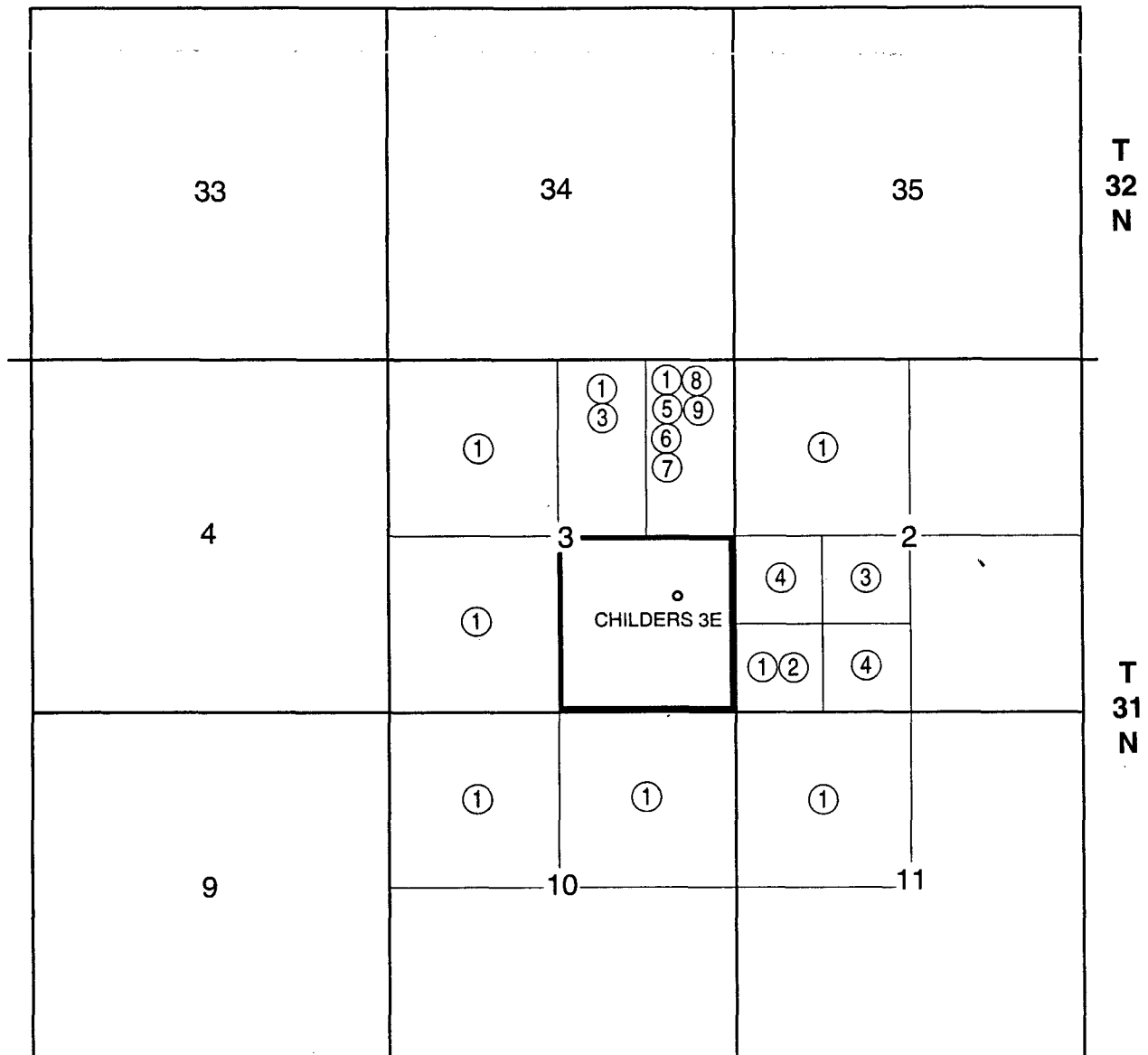
Childers 3E

T31N-R11W Sec. 3

1290' FSL & 1780' FEL

Picture Cliffs Formation

R 11 W



- ① Amoco Production Company
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- ⑤ Meridian Oil, Inc.
- ⑥ Cross Timbers Oil Company
- ⑦ Wayne Moore
- ⑧ George Umbach
- ⑨ Robert Umbach

CONOCO INC
10 DESTA DRIVE SUITE 100W
MIDLAND TX 79705-4500

ROBERT UMBACH
P O BOX 5310
FARMINGTON NM 87499-5310

GEORGE UMBACH
P O BOX 95247
LAS VEGAS NV 89193-5427

WAYNE MOORE
403 N MARIENFELD
MIDLAND TX 79701-4323

CROSS TIMBERS OIL COMPANY
810 HOUSTON ST STE 2000
FT WORTH TX 76102-6223

MERIDIAN OIL INC
P O BOX 4289
FARMINGTON NM 87499-4289

MERIDIAN OIL PRODUCTION INC
P O BOX 4289
FARMINGTON NM 87499-4289

EL PASO PRODUCTION COMPANY
C/O MERIDIAN OIL INC
P O BOX 4289
FARMINGTON NM 87499-4289

7/10/94



AMOCO PRODUCTION COMPANY
WELL ANALYSIS COMPARISON

JAN 10 1995 TX
DATE F ID

WELL NAME: NEIL LS 12

STATION NO.: (Neighboring PC)

	BRADENHEAD	CASING
ANALYSIS NO.:	AMO40732	AMO40733
DATE:	7/7/94	7/7/94
<u>COMPONENT</u>	<u>MOLE %</u>	<u>MOLE %</u>
NITROGEN	7.172	0.206
CO2	0.041	0.505
METHANE	83.030	86.270
ETHANE	4.876	7.592
PROPANE	2.748	3.245
I-BUTANE	0.615	0.553
N-BUTANE	0.730	0.830
I-PENTANE	0.256	0.274
N-PENTANE	0.167	0.192
HEXANE +	0.365	0.333
<u>BTU'S</u>	<u>1078.8</u>	<u>1174.3</u>
<u>GPM</u>	<u>2.8064</u>	<u>3.6829</u>
<u>SPEC. GRAV.</u>	<u>0.6730</u>	<u>0.6675</u>