

DATE 6/3/99	SUSPENSE 6/23/99	ENGINEER MS	LOGGED KW	TYPE NSL
-------------	------------------	-------------	-----------	----------

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

ADMINISTRATIVE APPLICATION COVERSHEET

THIS COVERSHEET IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS

Application Acronyms:

[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location]
 [DD-Directional Drilling] [SD-Simultaneous Dedication]
 [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
 [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
 [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
 [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
 [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] TYPE OF APPLICATION - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Directional Drilling
☒ NSL ☐ NSP ☐ DD ☐ SD

Check One Only for [B] and [C]

- [B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or ☒ Does Not Apply

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
 [B] ☐ Offset Operators, Leaseholders or Surface Owner
 [C] ☐ Application is One Which Requires Published Legal Notice
 [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
 [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
 [F] ☐ Waivers are Attached

[3] INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding

I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.

Note: Statement must be completed by an individual with supervisory capacity.

William F. Carr
Print or Type Name

Signature

William F. Carr

Attorney
Title

June 3, 1999
Date

OIL CONSERVATION DIV
 69 JUN -3 PM 3:30

CAMPBELL, CARR, BERGE
& SHERIDAN, P.A.
LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
MICHAEL H. FELDEWERT
PAUL R. OWEN
KATHERINE M. MOSS
JACK M. CAMPBELL
OF COUNSEL

JEFFERSON PLACE
SUITE 1 - 110 NORTH GUADALUPE
POST OFFICE BOX 2208
SANTA FE, NEW MEXICO 87504-2208
TELEPHONE: (505) 988-4421
FACSIMILE: (505) 983-6043
E-MAIL: ccbspa@ix.netcom.com

June 3, 1999

HAND-DELIVERED

Lori Wrotenbery, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Re: *Application of Enron Oil & Gas Company for Administrative Approval of an Unorthodox Well Location for its Conoco "9" State Com Well No. 1, located 1980 feet from the North line and 1350 feet from the East line of Section 9, Township 17 South, Range 29 East, N.M.P.M., Eddy County, New Mexico*

Dear Ms. Wrotenbery:

Enron Oil & Gas Company hereby seeks administrative approval pursuant to the provisions of Division Rule 104 F (2) adopted on January 18, 1996, of an unorthodox well location for its Conoco "9" State Com Well No. 1 to be drilled at an unorthodox well location 1980 feet from the North line and 1350 feet from the East line of Section 9, Township 17 South, Range 29 East, N.M.P.M., Eddy County, New Mexico. This well will be drilled to a depth sufficient to test the Morrow formation, Undesignated South Empire-Morrow Gas Pool and the Mississippian Chester formation. A standard 320-acre spacing and proration unit comprised of the E/2 of Section 9 will be dedicated to the well.

This location in the Morrow and Mississippian Chester formations, the principal objectives in this well is unorthodox, because it is governed by the Division's statewide rules which provide for wells on 320-spacing units to be located not closer than 660 feet to the nearest side boundary, nor closer than 1650 feet to the nearest end boundary of the dedicated tract, nor closer than 330 feet to any quarter-quarter section or subdivision inner boundary.

Lori Wrotenbery, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources

June 3, 1999

Page 2

An unorthodox location for this well is based on geological and geophysical reasons. Attached hereto as Exhibit A is a Lower Morrow Time Structure Map which identifies a faulted structural feature in the NE/4 of Section 9. Seismic has also identified a thick Lower Morrow interval draped over the post depositional structure. Attached as Exhibit B is a Lower Morrow Gross Isopach Map which shows a thick Lower Morrow trend running North-Northeast to South-Southwest across the prospect. The proposed drillsite is located at an unorthodox well location on the crest of the seismically defined structure.

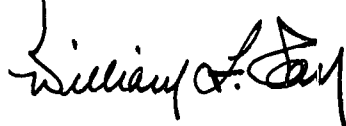
Attached hereto as Exhibits C is a geological explanation for this well location which further shows that the unorthodox location is supported by the geological and geophysical data on the subject formations.

Attached hereto as Exhibit D is a plat which shows the subject area, the 320-acre spacing unit comprised of all of the E/2 of Section 9 and the proposed unorthodox location. Since this location is only unorthodox to an interior quarter-quarter section line, there are no adjoining or diagonal spacing units towards which the well location encroaches. Accordingly, there are no affected parties to whom this application needs to be provided.

Enclosed in hard copy and disc is a proposed administrative order of the Division.

Your attention to this application is appreciated.

Very truly yours,



WILLIAM F. CARR
Attorney for Enron Oil & Gas Company

Enclosures

cc: Patrick J. Tower, Project Landman
Enron Oil & Gas Company

Enron Oil & Gas Company
Post Office Box 2267
Midland, Texas 79705

Attention: Patrick J. Tower

Administrative Order NSL-_____

Dear Mr. Tower:

Reference is made to your application dated June 3, 1999 for an unorthodox well location for a wild cat well to be drilled to the Morrow and Mississippian formations for your proposed Conoco "9" State Com. Well No. 1. Said well to be drilled to a bottom hole location in the Morrow and Mississippian Chester formations 1980 feet from the North line and 1350 feet from the East line (Unit G) of Section 9, Township 17 South, Range 29 East, NMPM, Eddy County, New Mexico.

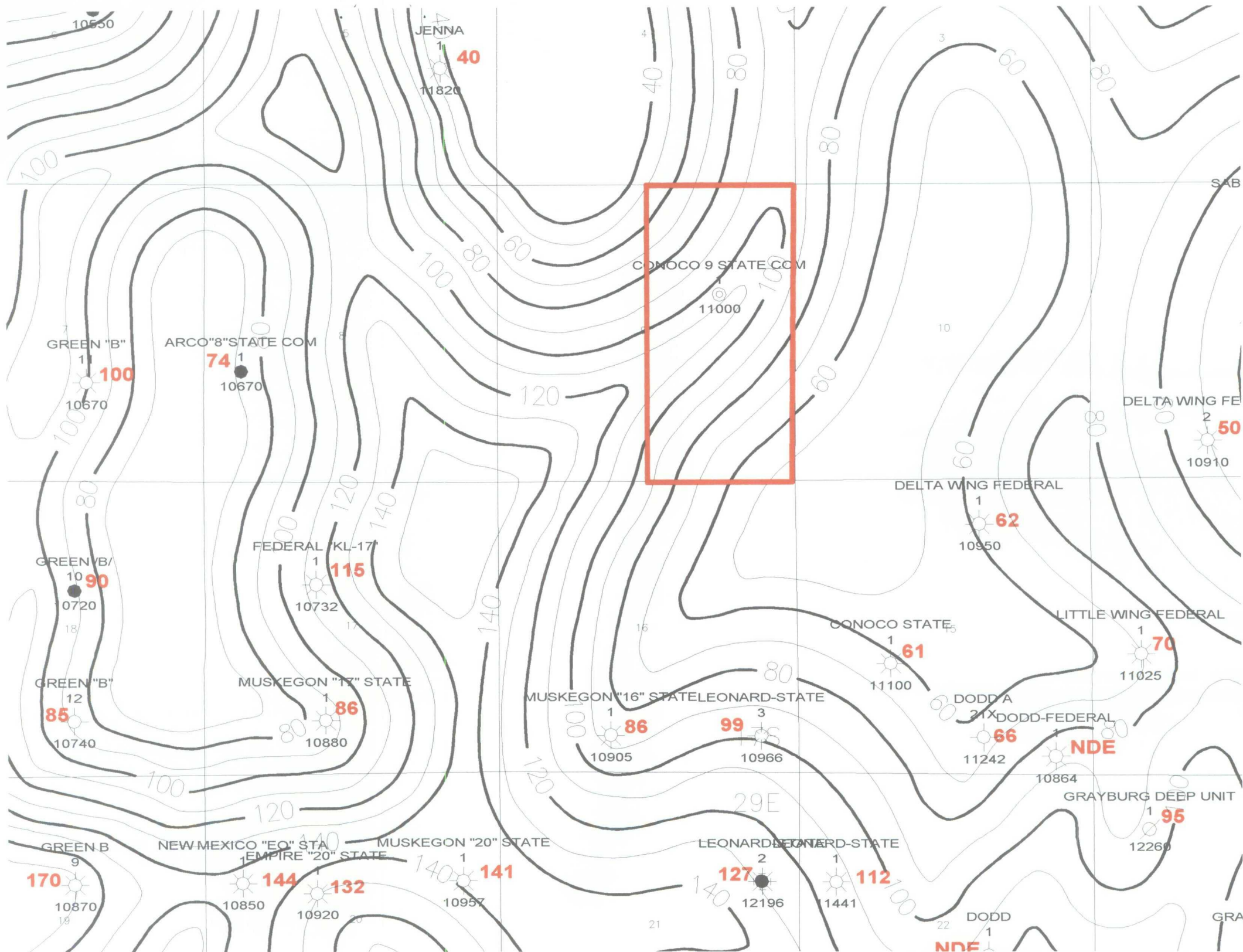
A 320-acre spacing and proration unit in the Morrow and Mississippian Chester formations comprising the E/2 of said Section 8 is to be dedicated to said well.

By authority granted me under the provisions of Rule 104.F(2) of the General Rules and Regulations of the New Mexico Oil Conservation Division ("Division"), revised by Division Order No. R-10533, issued by the New Mexico Oil Conservation Commission in Case 11,351 on January 18, 1996, the above-described unorthodox well location is hereby approved.

Sincerely,

Lori Wrotenbery
Director

cc: Oil Conservation Division - Hobbs/Artesia
U. S. Bureau of Land Management - Carlsbad



TECHNICAL DISCUSSION

Enron Oil & Gas Company is seeking approval for an unorthodox location in the Empire, South area Eddy County, New Mexico, based on geological and geophysical reasons. The proposed non-standard location for EOG's Conoco "9" State Com. No. 1 (E/2 proration unit, 1,980' FNL & 1,350' FEL Section 9-17S-29E), is unorthodox as to the interior quarter section lines. This exploratory test will be drilled to a depth sufficient to test the Mississippian Chester; however, the shallower Morrow formation is the primary zone of interest.

3D seismic has identified a faulted structural feature in the NE/4 Section 9-17S-29E Eddy County (refer to Lower Morrow Time Structure Map). Seismic has also identified a thick Lower Morrow interval draped over the post depositional structure. This supports the geologic interpretation identifying a thick Lower Morrow trend running N-NE to S-SW across the prospect (refer to Lower Morrow Gross Isopach Map). Lower Morrow thicks are indicative of Mississippian erosional valleys subsequently filled with Morrow sedimentary sequences often containing gas bearing sandstone reservoirs. Based on historical drilling results for this area, the better Morrow wells are often associated with a structural feature even if the feature is only a structural nose.

The proposed drillsite is located on the crest of the seismically defined structure; hence, resulting in the non-standard location. Enron believes the proposed unorthodox location will allow the participating parties to effectively recover hydrocarbons under the lease, protect correlative rights, and prevent waste.

EXHIBIT C

Find Oil
HBP
0 7175

32
GUN ST.
TO 3000
OM 5 5 36

11-1-71
0397624

to 2600'

Graves
Fed

037177
(1018)

LAKE EAST

Corper
nit

(Blazer Oil)
to 3900'

State

Highland
Lebard
Levers
TD 2500

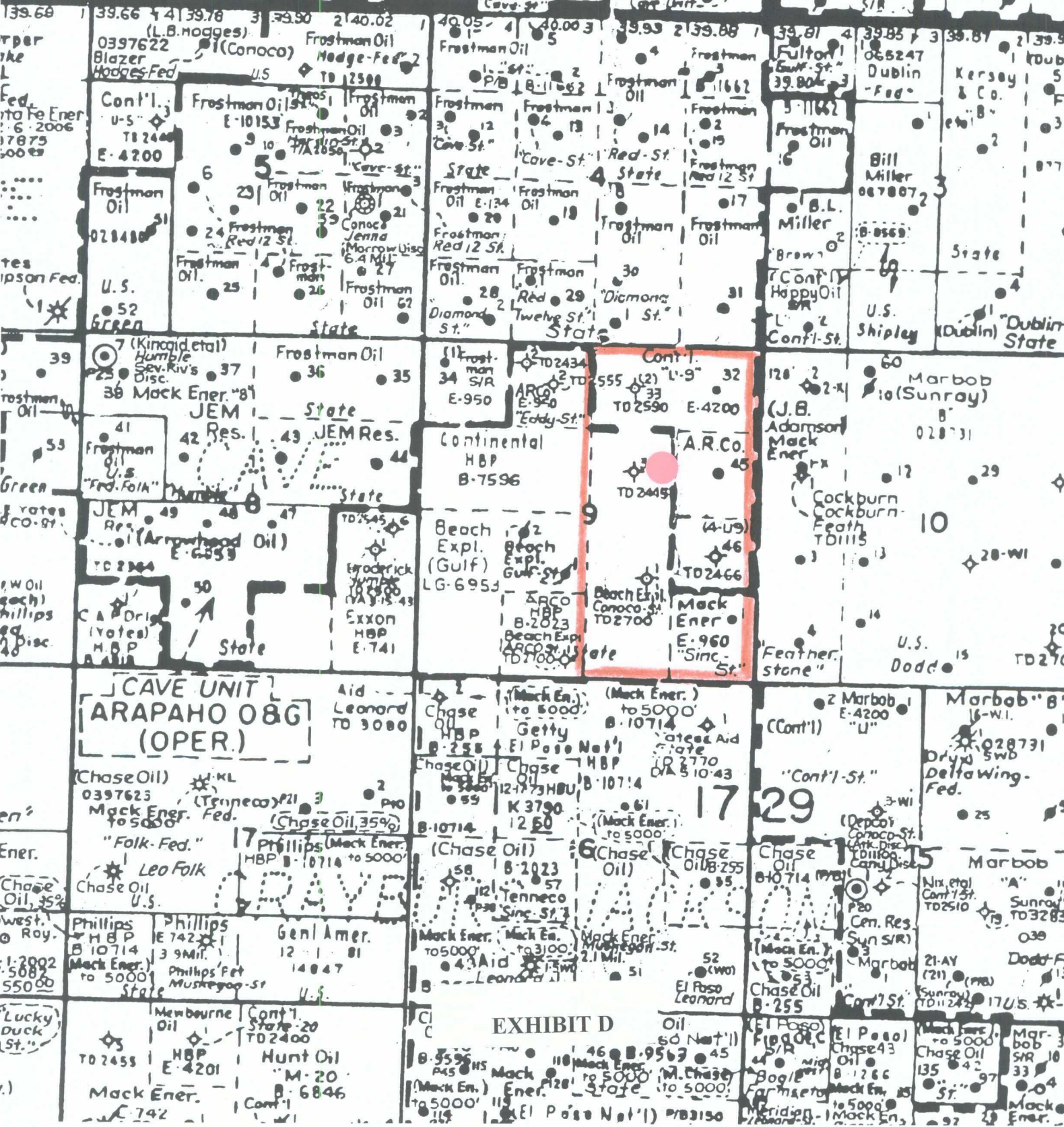
"Levers"
(West)
(Conoco)
A 3 X

Arctophoe OGS
Red 12 Fed.

Cont 1
1212
Highland
TD 2600

34
Marbob
5 1064032

Levers U.S. Danahue
16 Fulton
SIR



CMD :
OG5SECTONGARD
INQUIRE LAND BY SECTION06/07/99 14:48:51
OGOMES -TPLW
PAGE NO: 1

Sec : 09 Twp : 17S Rng : 29E Section Type : NORMAL

D 40.00 CS E00950 0000 08/56 ATLANTIC RICHFIEL U	C 40.00 CS E00950 0000 08/56 ATLANTIC RICHFIEL	B 40.00 CS E04200 0000 09/60 CONOCO INC U	A 40.00 CS E04200 0000 09/60 CONOCO INC U A
E 40.00 CS B07596 0000 05/48 CONOCO INC	F 40.00 CS B07596 0000 05/48 CONOCO INC	G 40.00 CS E04200 0000 09/60 CONOCO INC	H 40.00 CS E00950 0000 08/56 ATLANTIC RICHFIEL U

PF01 HELP
PF07 BKWDPF02
PF08 FWDPF03 EXIT
PF09 PRINTPF04 GoTo
PF10 SDIVPF05
PF11PF06
PF12

CMD :
OG5SECTONGARD
INQUIRE LAND BY SECTION06/07/99 14:48:57
OGOMES -TPLW
PAGE NO: 2

Sec : 09 Twp : 17S Rng : 29E Section Type : NORMAL

L 40.00 CS LG6953 0000 09/89 CHEVRON U S A INC	K 40.00 CS LG6953 0000 09/89 CHEVRON U S A INC A	J 40.00 CS E04200 0000 09/60 CONOCO INC	I 40.00 CS E04200 0000 09/60 CONOCO INC U
M 40.00 CS LG6953 0000 09/89 CHEVRON U S A INC	N 40.00 CS B02023 0011 07/43 ATLANTIC RICHFIEL	O 40.00 CS E04200 0000 09/60 CONOCO INC	P 40.00 CS E00950 0000 08/56 ATLANTIC RICHFIEL A

PF01 HELP	PF02	PF03 EXIT	PF04 GoTo	PF05	PF06
PF07 BKWD	PF08 FWD	PF09 PRINT	PF10 SDIV	PF11	PF12

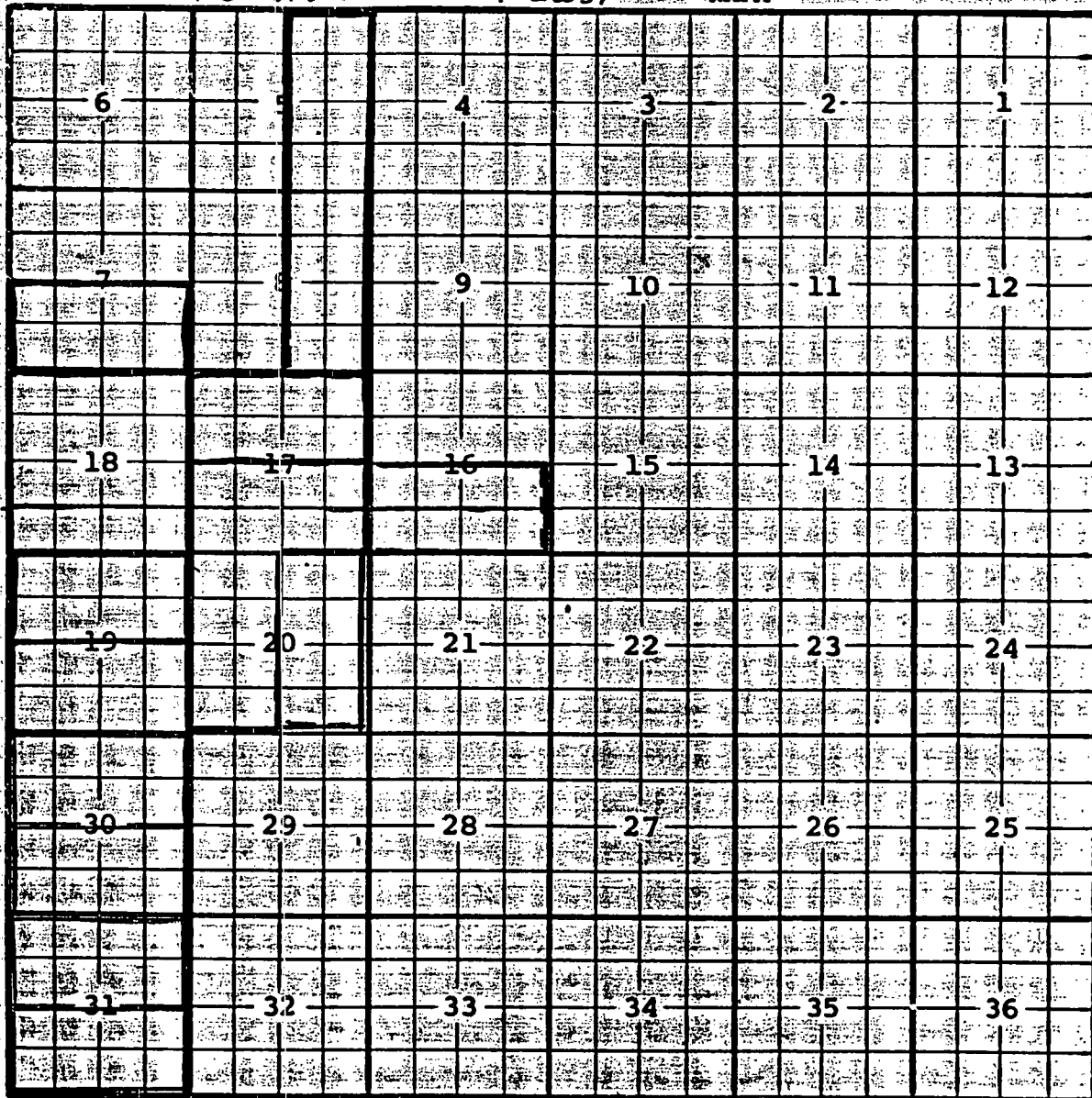
COUNTY Eddy

POOL South Empire - Morrow Gas

TOWNSHIP 17 South

RANGE 29 East

NMPM



Ext: $\frac{5}{2}$ Sec 31 (R-4734, 3-1-74) Ext: $\frac{N}{2}$ Sec 31 (R-4969, 4-1-75)

Ext: $\frac{5}{2}$ Sec 30 (R-5511, 9-1-77) Ext: $\frac{N}{2}$ Sec 30 (R-5838, 11-1-78)

Ext: $\frac{5}{2}$ Sec 19 (R-6033, 7-1-79) Ext: $\frac{N}{2}$ Sec 19 (R-6170, 11-1-79)

Ext: All Sec. 18 (R-6536, 12-1-80) Ext: $\frac{5}{2}$ sec 7, (R-6890, 1-2-82)

Ext: $\frac{N}{2}$ sec 17 (R-6994, 5-28-82)

Ext: $\frac{5}{2}$ Sec. 17, $\frac{W}{2}$ Sec. 20 (R-8065, 10-31-85) Ext: $\frac{E}{2}$ Sec. 20 (R-9545, 7-1-91)

Ext: $\frac{5}{2}$ Sec. 16 (R-9884, 4-26-93) Ext: $\frac{E}{2}$ Sec. 5, $\frac{5}{2}$ Sec. 8 (R-10844, 7-16-97)