

# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**GARY E. JOHNSON** 

Governor Jennifer A. Salisbury Cabinet Secretary

November 13, 2000

Lori Wrotenbery
Director
Oil Conservation Division

Telefax No. (505) 983-6043

EOG Resources, Inc. c/o William F. Carr P. O. Box 2208 Santa Fe, New Mexico 87504-2208

Administrative Order NSL-4525

Dear Mr. Carr:

Reference is made to the following: (i) your application on behalf of the operator, EOG Resources, Inc. ("EOG") dated November 9, 2000; (ii) the records of the New Mexico Oil Conservation Division ("Division") in Santa Fe; and (iii) your telephone conversation with Mr. Michael E. Stogner, Engineer/Chief Hearing Officer on Thursday, November 9, 2000: all concerning EOG's request for an unorthodox wildcat gas well location in both the Morrow and deeper Mississippian formations for its proposed Conoco "22" Federal Com. Well No. 1 to be drilled 2310 feet from the North line and 1427 feet from the West line (Unit F) of Section 22, Township 16 South, Range 29 East, NMPM, Eddy County. New Mexico.

The W/2 of Section 22, being a standard 320-acre stand-up gas spacing and proration unit for both formations is to be dedicated to this well.

This application has been duly filed under the provisions of Division Rule 104.F, revised by Division Order No. R-11231, issued by the New Mexico Oil Conservation Commission in Case No. 12119 on August 12, 1999.

It is our understanding that EOG is seeking this location exception based on a 3-D seismic survey of the immediate area, which indicates that a well drilled at the proposed unorthodox gas well location will be at a more favorable geologic position within the shallower Morrow formation than a well drilled at a location considered to be standard within the NW/4 of Section 22. Topographic conditions further restrict placement of a drilling pad in the northern portion of this unit.

By the authority granted me under the provisions of Division Rule 104.F (2), the above-described unorthodox wildcat gas well location to both the Morrow and Mississippian formations within this 320-acre unit comprising the W/2 of Section 22 is hereby approved.

Sincerely,

Lori Wrotenbery

Director

LW/MES/kv

cc: New Mexico Oil Conservation Division - Artesia

U. S. Bureau of Land Management - Carlsbad

File: Case No. 12544

## CAMPBELL, CARR, BERGE 8 SHERIDAN, P.A.

LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F SHERIDAN
MICHAEL H. FELDEWERT
TANYA M. TRUJILLO
ROBERT J. SUTPHIN, JR
JACK M. CAMPBELL
1916-1999

JEFFERSON PLACE
SUITE I - 110 NORTH GUADALUPE
POST OFFICE BOX 2208

SANTA FE, NEW MEXICO 87504-2208

TELEPHONE: (505) 988-4421
FACSIMILE: (505) 983-6043
E-MAIL: law@westofpecos.com

November 9, 2000

#### **HAND DELIVERED**

Michael E. Stogner
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
2040 South Pacheco Street
Santa Fe, New Mexico 87505

Reference: Application of EOG Resources, Inc. for Administrative Approval of an

Unorthodox Well Location for its Conoco "22" Federal Com Well No. 1, located 2310 feet from the North Line and 1427 feet from the West line of Section 22, Township 16 South, Range 29 East, N.M.P.M., Eddy County, New

Mexico.

Dear Mike,

When I started preparing for the November 16 Examiner Hearings I discovered that EOG's application in Case 12544 is a matter which appears to qualify for administrative approval. Accordingly, I have prepared the enclosed Administrative Application and draft order.

If you have questions concerning this matter, please advise.

Very truly yours,

William F. Carr

enc.

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		NEW MEXICO OIL CONSERVATION DIVISION - Engineering Bureau -	
		ADMINISTRATIVE APPLICATION COVERSHEET	COVERSHEET  IONS TO DIVISION RULES AND REGULATIONS  andard Location] Dedication] PLC-Pool/Lease Commingling] M-Off-Lease Measurement] Interpretation of the production Response of the
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Applic	[PC-	[NSP-Non-Standard Proration Unit] [NSL-Non-Standard Location] [DD-Directional Drilling] [SD-Simultaneous Dedication] [DD-Directional Drilling] [SD-Simultaneous Dedication] [DD-Directional Drilling] [PLC-Pool/Lease Commingling] [PLC-Pool/Lease Commingling] [PLC-Pool/Lease Commingling] [POOI Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [United Enhanced Oil Recovery Certification] [PPR-Positive Production Response]	臣
[1]	TYPE OF AI	PPLICATION - Check Those Which Apply for [A]  Location - Spacing Unit - Directional Drilling  NSL □ NSP □ DD □ SD	ယ္
	Checl [B]	k One Only for [B] and [C] Commingling - Storage - Measurement  DHC CTB PLC PC OLS OLM	w
•	[C]	Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  □ WFX □ PMX □ SWD □ IPI □ EOR □ PPR	
[2]	NOTIFICAT	TION REQUIRED TO: - Check Those Which Apply, or ☑ Does Not Apply ☐ 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	

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

☐ Waivers are Attached

[E]

[F]

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

U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

☐ For all of the above, Proof of Notification or Publication is Attached, and/or,

returned with no action take	en.		-
	Note: Statement must be completed by an ind	lividual with supervisory capacity.	
William F. Carr	William F. Say	Attorney	11/09/00
Print or Type Name	Signature	Title	Date

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

LAWYERS

MICHAEL B. CAMPBELL
WILLIAM F. CARR
BRADFORD C. BERGE
MARK F. SHERIDAN
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November 9, 2000

#### **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 Eog Resources, Inc. Administrative Approval of an Unorthodox Well Location for its Conoco "22" Federal Com Well No. 1, located 2310 feet from the North line and 1427 feet from the West line of Section 22, Township 16 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.

#### Dear Ms. Wrotenbery:

EOG Resources, Inc. hereby seeks administrative approval pursuant to the provisions of Division Rule 104 F (2)-(4) adopted on August 12, 1999, of an unorthodox well location for its Conoco "22" Federal Com Well No. 1 to be drilled at an unorthodox well location 2310 feet from the North line and 1427 feet from the West line Section 22, Township 16 South, Range 29 East, N.M.P.M., Eddy County, New Mexico. This well will be drilled as a wildcat well to a depth sufficient to test the Morrow and the Mississippian Chester formations. A standard 320-acre spacing and proration unit comprised of the W/2 of Section 22 will be dedicated to the well.

This location in the Morrow and Missippian Chester formations is unorthodox because it is governed by the Division's statewide rules which provide for wells on 320-spacing units to be located no closer than 660 feet to the outer boundary of the quarter section on which the

Lori Wrotenbery, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
November 9, 2000
Page 2

well is located and no closer than 10 feet to any quarter-quarter section line or subdivision inner boundary. The location is 330 feet from an outer boundary of a quarter section line.

The common geological model for the Morrow sand deposition is one of a fluvial system. These fluvial systems occur in paleo lows or valleys. Therefore, in geologic "thick" intervals of the Morrow, there is an increased chance of finding not only the fluvial system but also an increase in the amount and quality of the sands. 3D seismic to the south and west three to eight miles away appears to validate the relationship of seismic thicks with well control "thicks."

An unorthodox location for this well is required by topographic and geologic conditions. Exhibit A is a representative seismic line across the area of interest and Exhibit B is an isochron (time thickness) map of the Morrow Clastics interval. The three locations shown on the map by red dots a, b and c are all located in the isochron "thick" shown in deep blue. Location (a) was EOG Resources' original desired location. Due to a playa, EOG was required by the BLM to move the location to a location (b). Location (b) was deemed to be in an archeological site and EOG was required to move to location (c). Exhibit C is a copy of a page from the Archelogical Report that shows the playa and the archeological site. The current proposed location is acceptable to the BLM and still honors the seismic by remaining in the isochron thick.

As shown on Exhibit B, this geologic "thick" in the Morrow formation as interpreted from seismic, does not correspond to the standard location windows authorized by Division Rule 104. However, based on the EOG's geologic model and the seismic interpretation, the current proposed location for the Conoco "22" Federal Com Well No. 1 is in a position to maximize EOG's ability to effectively recover the hydrocarbons from this W/2 spacing unit.

Attached hereto as Exhibit D is a plat which shows the subject area, the 320-acre spacing unit comprised of all of the W/2 of Section 22 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.

Lori Wrotenbery, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
November 8, 2000
Page 3

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

Your attention to this application is appreciated.

**X** 

William F. Čarr

Attorney for EOG Resources, Inc.

#### **Enclosures**

cc:

Patrick J. Tower, Project Landman

EOG Resources, Inc. Post Office Box 2267 Midland, Texas 79702 EOG Resources, Inc. Post Office Box 2267 Midland, Texas 79705

Attention: Patrick J. Tower

Administrative Order NSL-

Dear Mr. Tower:

Reference is made to your application dated November 3, 2000 for an unorthodox well location for a wild cat well to be drilled to the Morrow and Mississippian formations for your proposed Conoco "22" Federal Com. Well No. 1. Said well to be drilled to a bottom hole location in the Morrow and Mississippian Chester formations 2310 feet from the North line and 1427feet from the West line (Unit F) of Section 22, Township 16 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 W/2 of said Section 22 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

DATEIN	SUSPENSE	ENGINEER	LOGGED	TYPE

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] Location - Spacing Unit - Directional Drilling [A] ☑ NSL  $\sqcap$  NSP  $\sqcap$ DD  $\Box$ SD Check One Only for [B] and [C] Commingling - Storage - Measurement [B]□ CTB  $\Box$  PLC  $\square$  PC  $\square$ OLS **OLM** [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery □ WFX  $\square$  PMX IPI 🗆 **PPR** NOTIFICATION REQUIRED TO: - Check Those Which Apply, or [2] ☑ Does Not Apply ☐ Working, Royalty or Overriding Royalty Interest Owners [A]☐ Offset Operators, Leaseholders or Surface Owner [B] [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. 11/09/00 William F. Carr Print or Type Name

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Lori Wrotenbery, Director Oil Conservation Division New Mexico Department of Energy, Minerals and Natural Resources November 9, 2000 Page 2

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Lori Wrotenbery, Director Oil Conservation Division New Mexico Department of Energy, Minerals and Natural Resources November 8, 2000 Page 3

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

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Attorney for EOG Resources, Inc.

#### **Enclosures**

cc: Patrick J. Tower, Project Landman

EOG Resources, Inc. Post Office Box 2267 Midland, Texas 79702 EOG Resources, Inc. Post Office Box 2267 Midland, Texas 79705

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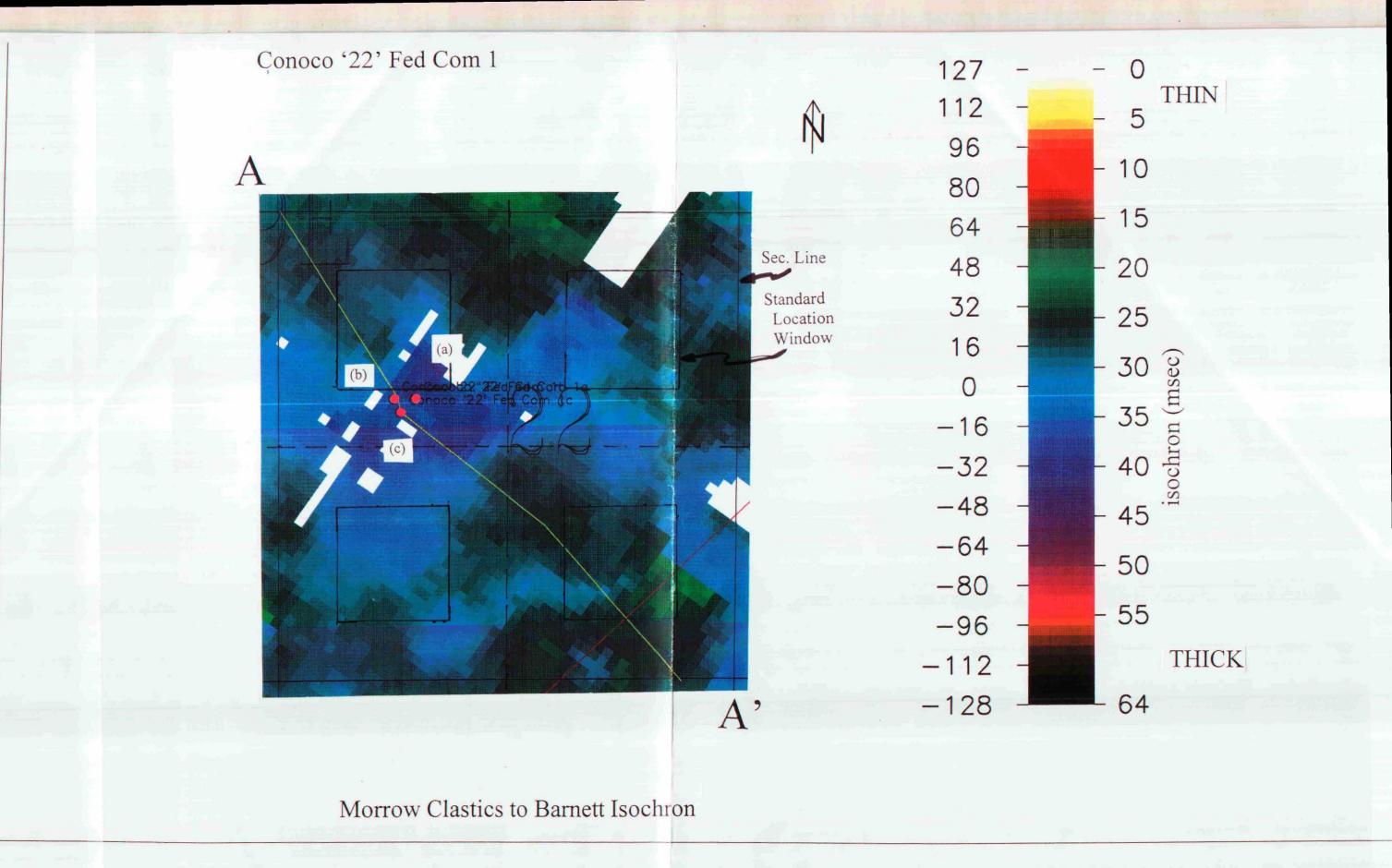
A 320-acre spacing and proration unit in the Morrow and Mississippian Chester formations comprising the W/2 of said Section 22 is to be dedicated to said well.

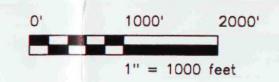
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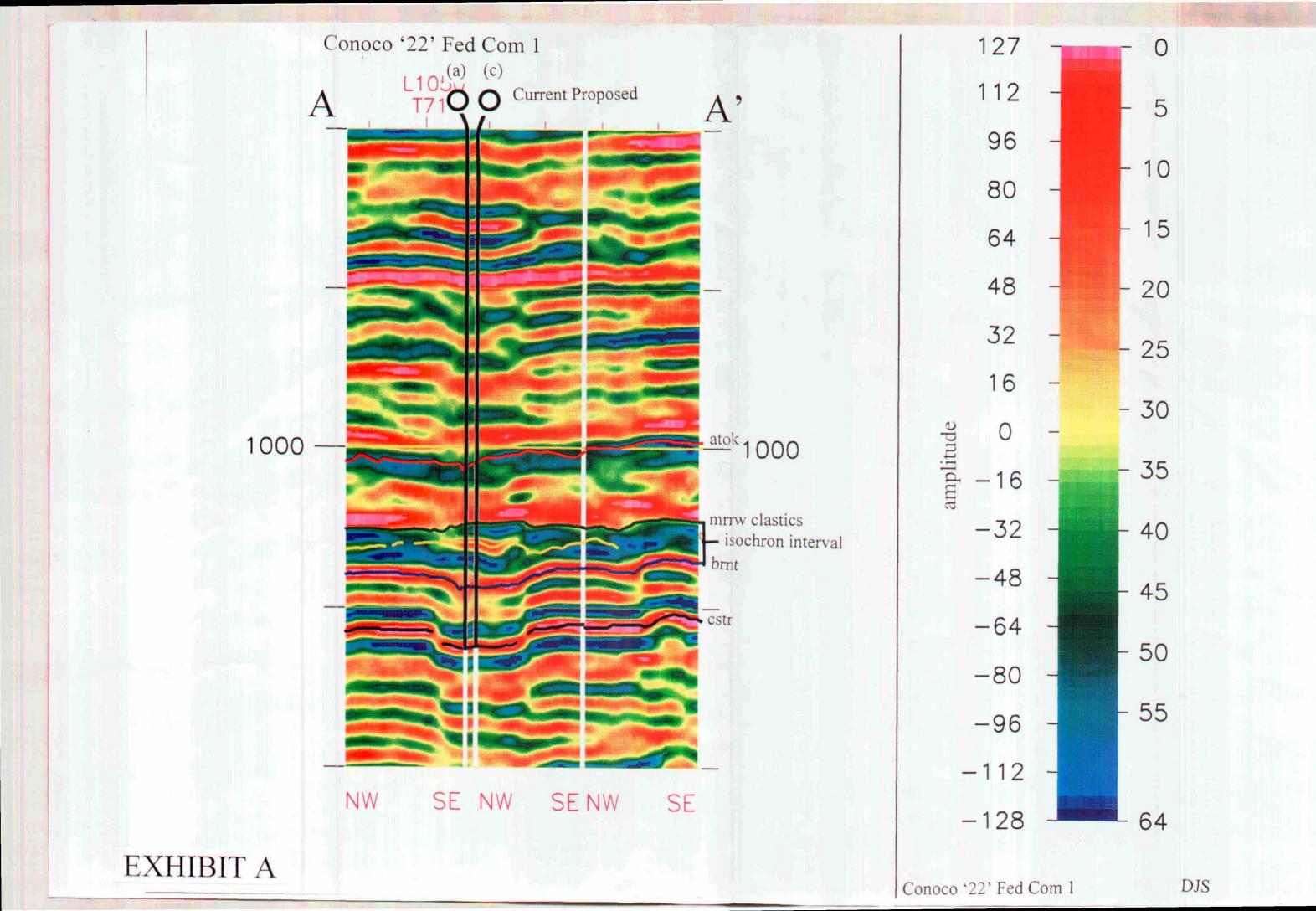
Sincerely,

Lori Wrotenbery Director

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







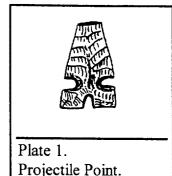
During recording, 10 fl
assemblage consists of th

Exhibit "C"

quartzite flakes. The chert and purple quartzite flakes are the result of core reduction activities and the mudstone flake is from biface thinning or sharpening. The core was reduced unifacially. It is made of purple quartzite.

The projectile point is an arrow size point crafted from white chert or chalcedony. It has a triangular blade with side notches (Plate 1.). The blade is finely worked and contains nicely arranged parallel flake scars. The base is flat and there is a basal notch. Similar projectile points have been dated to the Ochoa phase (A.D. 1200-1500).

Two features were also identified. Feature 1, is a concentration of 10 pieces of burned caliche. These pieces are located on the east side of a small dune. Intermixed with the burned nodules are pieces of unburned caliche. The concentration is approximately 1-m wide. A



(Actual Size)

trowel test was excavated on the edge and it revealed on small piece of burned caliche and one large piece of unburned caliche. The test was dug to 12 cm.

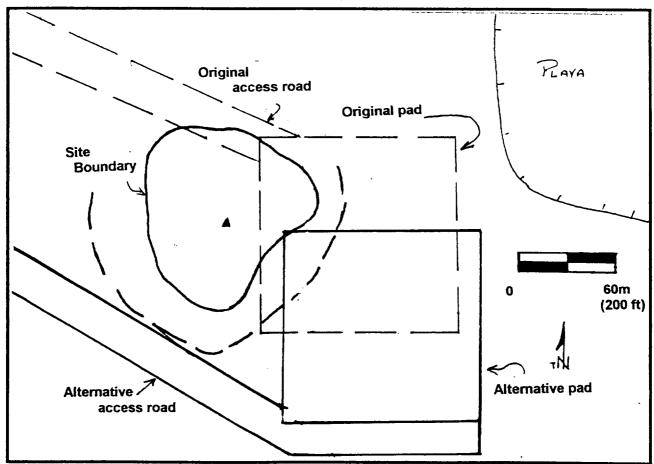
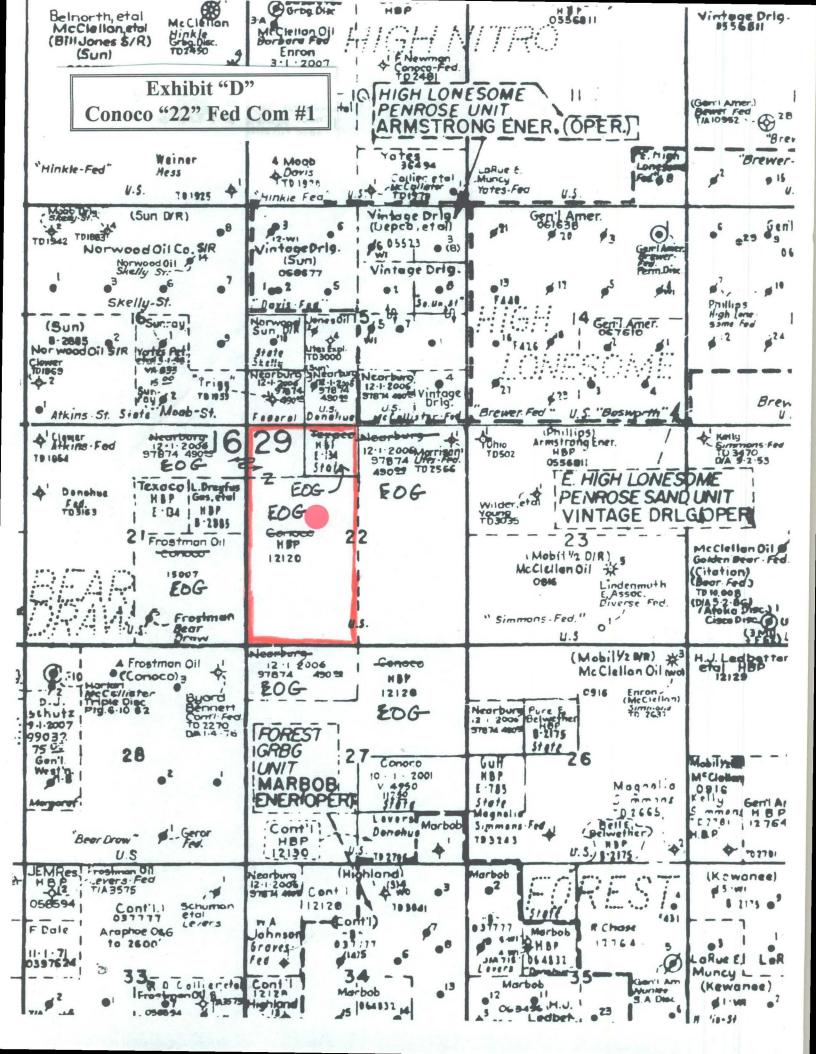


Figure 2. Map of LA 130,683 and Project Area.

Feature 2 is a burned caliche concentration with charcoal and ash. This feature is approximately 50 cm in diameter. There are 10-15 pieces of burned caliche on the surface. A trowel test revealed buried burned caliche along with charcoal and ash.



Page: 1 Document Name: untitled

CMD : OG5SECT

ONGARD

INQUIRE LAND BY SECTION

11/09/00 14:52:22

OGOMES -TPM2

PAGE NO: 1

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Page: 1 Document Name: untitled

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INQUIRE LAND BY SECTION

11/09/00 14:52:27

OGOMES -TPMZ

PAGE NO: 2

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Date: 11/9/2000 Time: 03:12:51 PM

Page: 1 Document Name: untitled

CMD : OG5SECT

ONGARD

INQUIRE LAND BY SECTION

11/17/00 09:10:20

OGOMES -TQC2

PAGE NO: 1

Sec : 22 Twp : 16S Rng : 29E Section Type : NORMAL

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Date: 11/17/2000 Time: 09:32:20 AM

Page: 1 Document Name: untitled

CMD : OG5SECT

ONGARD

INQUIRE LAND BY SECTION

11/17/00 09:11:42

OGOMES -TQC2

PAGE NO: 2

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Page: 1 Document Name: untitled

ONGARD 11/17/00 09:10:32 CMD :

CMD: ONGARD 11/17/00 09:10:32 OG6C101 C101-APPLICATION FOR PERMIT TO DRILL OGOMES -TQC2

OGRID Idn : 7377 API Well No: 30 15 31457 APD Status(A/C/P): A

Opr Name, Addr: EOG RESOURCES INC Aprvl/Cncl Date : 09-19-2000

PO BOX 2267

MIDLAND, TX 79702

Prop Idn: 26910 CONOCO 22 FEDERAL COM Well No: 1

U/L Sec Township Range Lot Idn North/South East/West

Surface Locn: F 22 16S 29E FTG 2310 F N FTG 1427 F W

OCD U/L : F API County : 15

Work typ(N/E/D/P/A) : N Well typ(O/G/M/I/S/W/C): G Cable/Rotary (C/R) : F

Lease typ(F/S/P/N/J/U/I): F Ground Level Elevation: 3667

Multiple Comp (S/M/C) : S State Lease No:

Prpsd Depth : 11000 Prpsd Frmtn : WILDCAT MORROW

E0009: Enter data to modify record

 PF01 HELP
 PF02
 PF03 EXIT
 PF04 GoTo
 PF05
 PF06 CONFIRM

 PF07
 PF08
 PF09 PRINT
 PF10 C102
 PF11 HISTORY PF12

Date: 11/17/2000 Time: 09:31:41 AM