NSL-1175

March 24, 1980

(915) 683-1893

HENRY ENGINEERING

Petroleum Engineers Oil 807 FIRST NATIONAL BANK BUILDING MIDLAND, TEXAS 79701

State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. R. L. Stamets

Re: Application for Non-Standard Location: David Fasken Maralo State No. 1 Sec. 18, T-24-S, R-25-E Eddy County, New Mexico 2030 N 106020

NS/104 Rule 80

Gentlemen:

W/2 dedication Morrow

In support of your request for a plat showing ownership of leases offsetting our client's application, we are enclosing a portion of West Eddy County Ownership Map. The lease and fee information was posted February 23, 1980 and the well information as of March 24, 1980.

Based upon this information, we are today notifying offset operators, El Paso Natural Gas Co. and Texas Oil & Gas Corporation, by CERTIFIED MAIL of our client's intention to drill the subject well, and are also requesting that they forward to you a waiver. Maralo, Inc. is a working interest owner in the subject well, therefore, we have not requested a waiver from them. Their approval of the working interest unit should be tantamount to approval of the non-standard location due to terrain.

If you have any questions or need any additional information, please telephone the undersigned at 915-683-1893 so that we can expedite approval of David Fasken's application. We have a short fuse due to rig availability.

Yours very truly,

HENRY ENGINEERING

Robert H. Angevine

RHA:vcz Encls.

Petroleum Engineers 807 FIRST NATIONAL BANK BUILDING MIDLAND, TEXAS 79701

March 17, 1980

State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe Ramey

Re: Application to Drill Unorthodox Location David Fasken Maralo State No. 1 2030' FNL and 1060' FWL Sec. 18, T-24-S, R-25-E Eddy Co., New Mexico

Gentlemen:

On behalf of our client, David Fasken, enclosed is application to drill the subject well, and a request for administrative approval of an unorthodox location based upon terrain. Please refer to a part of U.S.G.S. quadrangle map, Carlsbad Caverns East. The proposed location is a suitable drill site large enough to accommodate the drilling operation.

We are notifying the offset operators, Amoco Production Co. and W. A. Moncrief, Jr., by <u>CERTIFIED MAIL</u> of our client's intention to drill the subject well, and also requesting that they forward to you a waiver of any objection to the proposed location.

Yours very truly,

HENRY ENGINEERING

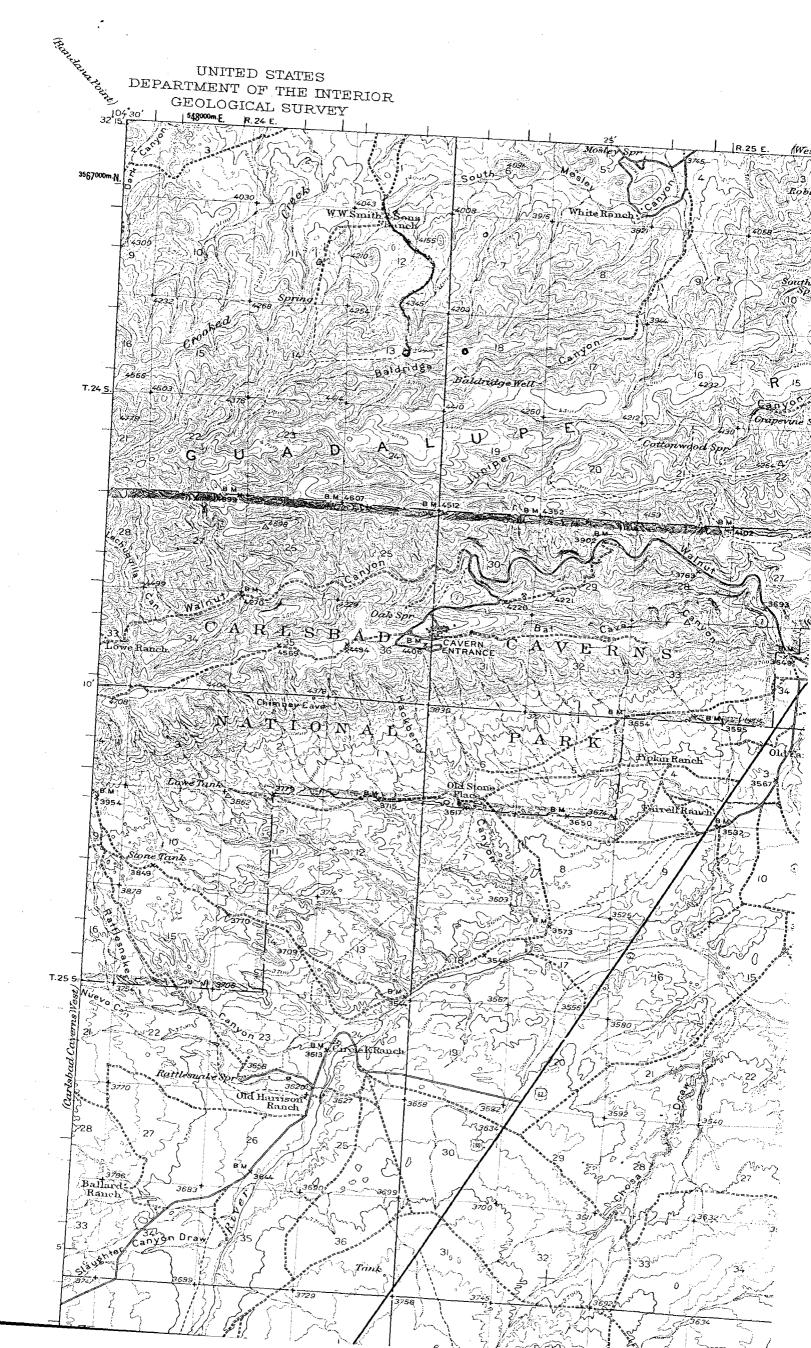
Lobert FH.C. Robert H. Angevine (

RHA:vcz SANTA FE Encl.

cc: NMOCC, Artesia Amoco Production Co. W. A. Moncrief, Jr.

Family L. Strates

OIL COURSE MUT.C. DWISION



NO. OF COPIES RECEIVED					
DISTRIBUTION	NEW MEXICO OIL CONS	ERVATION COMMISSI	ON F	Form C-101	<b>f</b>
SANTA FE				Revised 1-1-65	ò
FILE			Γ	_	Type of Lease
U.S.G.S.				STATE	FEE
LAND OFFICE					Gas Lease No.
OPERATOR				L-4502	
				IIIIII	
APPLICATION FOR P	ERMIT TO DRILL, DEEPEN	, OR PLUG BACK		///////	
1a. Type of Work			T	7. Unit Agree	ment Name
DRILL	DEEPEN	PLU	G ВАСК		
b. Type of Weil				8, Farm or Le	ease Name
OIL GAS WELL O	THER	ZONE X		Maralo	State
2. Name of Operator				9. Well No.	
DAVID FASKEN			· ·	1	
3. Address of Operator				10, Field and	l Pool, or Wildcat
608 First Nationa	1 Bank Building, Midl	and, TX 79701		Wildcat	;
4. Location of Well UNIT LETTER E	LOCATED 2030	FEET FROM THE NO	rth LINE	IIIIII	
			N		
AND 1060 FEET FROM THE	lest LINE OF SEC. 18	TWP. 24-S RGE. 2	5-E NMPM	//////	
			11111111	12. County	
X/////////////////////////////////////				Eddy	
			<u>IIIIIII</u>	IIIII	
			////////		
		19. Proposed Depth	19A. Formation		20. Rotary or C.T.
		11,300'	Morrow		Rotary
21. Elevations (Show whether DF, RT, etc.)	21A. Kind & Status Plug. Bond	21B. Drilling Contractor			Date Work will start
4359.8 Gr.	Statewide	Warton Drill	ing Co.	April	7,-1980
23.					

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
17-1/2"	13-3/8"	48	300'	350	Circulate
12-1/4"	8-5/8"	24 & 32	3000'	1100	Circulate
7-7/8"	4-1/2"	11.60 & 13.50	11300'	800'	8000'

Please refer to attached Drilling & Completion Procedure.

MAR 191960 OIL COUSE NUTION DIVISION SANTA FE

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: IF PROPOSAL IS TO DEEPEN OR PLUG BACK, GIVE DATA ON PRESENT PRODUCTIVE ZONE AND PROPOSED NEW PRODUC-TIVE ZONE. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

	Robert H. Angevine, Agent	Date	3-17-80
(This space for State, Use)	•		

TITL

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WELL LOCATION AND ACREAGE DEDICATION PLAT

Frim 1-16 Supersedes (1-128 ritentive 1-1-65

Operator David Fask Unit Letter Section	en	1	ease			
	-			lo State		<b>1</b>
F 18	, Township 24	South	Rande 25 Ea	lounty .	Eddy	
Actual Pressure Location of W	iell:		1060		West	
Ground Level Elev. Pr	roducing Portsation	line and	<sup>2</sup> 06.1	teat from the		tine 4 cated A reages
4359.8 1. Outline the acrea	Morrow		Wildcat		made	<u>320</u>
<ol> <li>Outline the acrea</li> <li>If more than one interest and royal</li> </ol>	lease is dedicated					
3. If more than one l dated by communi XX7 Yes 7 No	tization, unitization	, force-poolin		ng interest	unit w/D. Fa	owners been consolu- asken as operator.
If answer is "no' this form if necess No allowable will	' list the owners an sary.) be assigned to the	id tract descri well until all	iptions which he interests have b	ave actually he	en consolidated ted (by communit	(1 se reverse side of tization, unitization, oved by the Commis-
D. Fasken L-6869	Maralo, Inc. L-4502				l hereby certify tained herein is	RTIFICATION that the information con- strue and complete to the wledge and belief.
Maralo, Inc. L-4502	State D. Fasken L-6869			namer dan sina an a	Robert H. A Agent	Ingevine
1060			ł		DAVID FASKE	<u>N</u>
State	State		1		3-17-80	
D. Fa		ECEIS MARIA	SOSO TIME	S SHEROR	shown on this p notes of actual under my superv is true and co- knowledge and b	
Stat	Ce	SANTA	1 N N 1		Registered Piller	W/cost

RECOMMENDED DRILLING & COMPLETION PROCEDURE A.F.E. NO. 451 David Fasken ------ MARALO STATE NO. 1 ----- Eddy County, New Mexico Drill 17-1/2" hole to 300' with spud mud. 1. Set 13-3/8" casing at 300', cement to surface and install 12" x 3000 psi W.P. casinghead and B.O.P. stack. (Estimate 250 sxs Halliburton Lite 2. w/1/4# Flocele per sack and 2% CaCl plus 100 sxs Class "C" with 2% CaCl.) 3. Drill 12-1/4" hole to 3000' with fresh water, control seepage with paper. Dry drill if complete loss of returns is encountered. Set and cement 8-5/8" casing at 3000' with sufficient cement to 4. A circulate. (Estimate 900 sxs Halliburton Lite with 1/4# Flocele per sack, slurry weight 12.8#/gal. plus 200 sxs Class "C" with 2% CaCl, slurry weight 14.8#/gal.) W.O.C. 18 hours. If cement does not circulate, run temperature survey and stage cement outside pumped through 1" tubing and/or fill up with ready mix concrete - 6 sxs mix with pea gravel aggregate. Install 12" - 3000# W.P. x 10" - 3000# W.P. spool with secondary seal, bit guide, B.O.P.'s, Hydril and choke manifold. <u>B</u> - It may be necessary to two-stage cement the 8-5/8'' casing. This will depend upon the depth loss of circulation is encountered and the static fluid level. Cement volumes will be determined from the conditions observed while drilling the 12-1/4" hole. On or before 7500' test 8-5/8" casing to 2200 psig and test B.O.P.'s, 5. choke manifold and all wellhead valves to 3000 psig and Hydril to 1500 psig. Install PVT, flow line sensor, and rotating head on or before 7500', 6. and connect mud-gas separator. Drill 7-7/8" hole to estimated T.D. of 11,300' with fresh water to 7. 7500'. Control seepage with paper and P<sub>h</sub> at 11.0 with lime. At 7500' add potash to 4% KCl concentration, increase viscosity with 8. salt water gel as required to maintain good hole conditions. Decrease water loss as necessary with salt water C.M.C. and starch. At top of Morrow reduce water loss to 10 cc and maintain to T.D. Drill stem test all shows (test each Morrow Sand separately). 9. Run logs (combination CNL-FDC w/Gamma Ray, DLL and Dip Meter). 10. Set and cement 4-1/2" production casing (resin coated and centralized 11. through pay zones) with 800 sxs Class "H" cement with 3.0# KCl per sx and 0.8% Halad-22 plus 0.4% CFR-2. Install 10" - 3000 psi W.P. x 6" - 3000 psi W.P. tubinghead and 12. Christmas tree. Run temperature survey to locate cement top. 13. Rig down and move out rotary tools. 14. 15. Set mast anchors and move in pulling unit.

Recommended Drilling & Completion Procedure A.F.E. No. 451 David Fasken Maralo State No. 1 Eddy County, New Mexico

- 16. Pressure test casing and Christmas tree to 3000 psig.
- 17. Run 2-3/8" tubing N-80, EUE 8RD c/w AB Modified couplings, and packer.
- 18. Displace fluid in well with 3% KCl water containing oxygen scavenger and corrosion inhibitor.
- 19. Set packer and install Christmas tree.
- 20. Swab fluid level to 9500' in tubing.

21. Run Gamma Ray correlation log and perforate Morrow for production.

- 22. Test well.
- 23. Stimulate as needed acid and/or frac.
- 24. Clean up "load fluid" and test.
- 25. Run C.A.O.F.P. and pressure build up.
- 26. Install surface equipment.

- 2 -

RHA:3-14-80

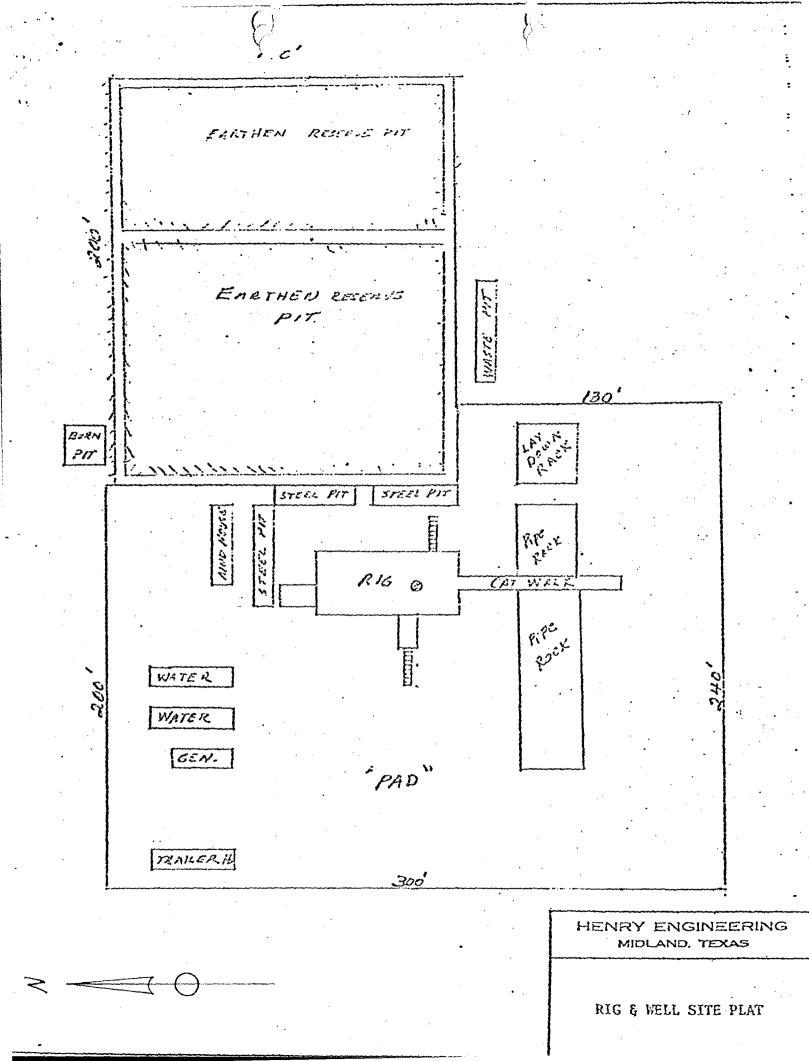
# RECOMMENDED CASING PROGRAM

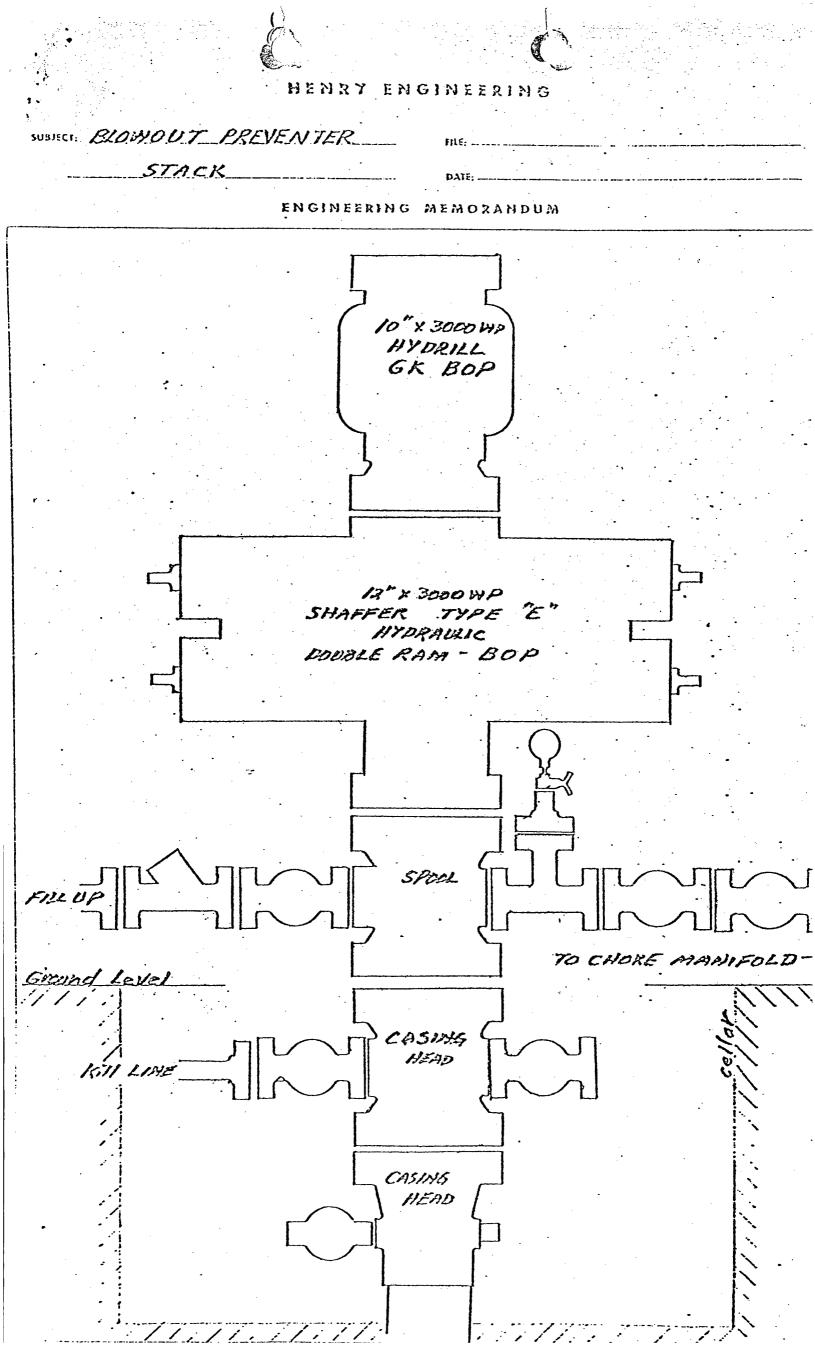
# A.F.E. NO. 451

David Fasken ----- MARALO STATE NO. 1 ----- Eddy County, New Mexico

	Footage	Size	Weight	Grade	Thread
Surface Casing	300'	13-3/8"	48.00#/Ft.	H-40	ST&C
Intermediate Casing	2,500' <u>500'</u> 3,000'	8-5/8" 8-5/8"	24#/Ft. 32#/Ft.	J-55 J-55	ST&C St&C
Oil String Casing	1,900' 8,400' 1,000' 11,300'	4-1/2'' 4-1/2'' 4-1/2''	11.60#/Ft. 11.60#/Ft. 13.50#/Ft.	N-80 N-80 N-80	Buttress LT&C LT&C

RHA: 3-14-80





Petroleum Engineers 807 FIRST NATIONAL BANK BUILDING MIDLAND, TEXAS 79701

March 17, 1980

Amoco Production Company P. 0. Box 3092 Houston, Texas 77001

Attention: Mr. S. J. Okerson

Gentlemen:

We are today filing for administrative approval by the State of New Mexico, Energy and Minerals Department, Oil Conservation Division, of an unorthodox location for the David Fasken Maralo State No. 1, 2030' FNL and 1060' FWL of Section 18, T-24-S, R-25-E, Eddy County, New Mexico.

In your capacity as an offset operator, we are asking that you submit a waiver to the State of New Mexico, Energy and Minerals Department, Oil Conservation Division, Attention: Mr. Joe Ramey, P.O. Box 2088, Santa Fe, New Mexico 87501.

This unorthodox location is necessitated by the topography in this drilling and spacing unit as you can realize from a brief look at a portion of Carlsbad Caverns, East, U.S.G.S. topographic map.

We are enclosing a prepared waiver and request that you sign and forward it, or one of your own composition, to Mr. Ramey.

Yours very truly,

HENRY ENGINEERING

Robert H. Angevine

RHA:vcz Encl.

cc: Amoco Production Company Box 68 Hobbs, New Mexico 88240 Attention: Mr. V. E. Staley

VIA CERTIFIED MAIL

March 17, 1980

State of New Mexico Energy and Minerals Department Oil Conservation Division P. 0. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe Ramey

Re: Waiver for Unorthodox Location David Fasken Maralo State No. 1 Eddy County, New Mexico

Gentlemen:

We have been advised of the necessity for the location of the subject well 2030' from the north line and 1060' from the west line of Section 18, T-24-S, R-25-E, Eddy County, New Mexico, due to terrain to obtain a suitable drill site.

We have no objection to the drilling of this well at this location.

Yours very truly,

AMOCO PRODUCTION COMPANY

Ву

Petroleum Engineers 807 FIRST NATIONAL BANK BUILDING MIDLAND, TEXAS 79701

March 17, 1980

W. A. Moncrief 400 Metro Building Midland, Texas 79701

Attention: Mr. Dewey E. Thornton

Gentlemen:

We are today filing for administrative approval by the State of New Mexico, Energy and Minerals Department, Oil Conservation Division, of an unorthodox location for the David Fasken Maralo State No. 1, 2030' FNL and 1060' FWL of Section 18, T-24-S, R-25-E, Eddy County, New Mexico.

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HENRY ENGINEERING

Robert H. Angevine

RHA:vcz Encl.

VIA CERTIFIED MAIL

March 17, 1980

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We have no objection to the drilling of this well at this location.

Yours very truly,

W. A. MONCRIEF

Ву

OIL CONSERVATION COMMISSION Arlesia DISTRICT

OIL CONSERVATION COMMISSION BOX 2088 SANTA FE, NEW MEXICO

DATE 3-26-80

RE:	Proposed	MC _	
	Proposed	DHC	
	Proposed	NSL	X
	Proposed	SWD	
	Proposed	WFX	
	Proposed	PMX	· · · · · · · · · · · · · · · · · · ·

Gentlemen:

I have examined the application dated 3 - 17 - 80for the Dovid Fasker morslo State 41- E 18-24-25 Operator Lease and Well No. Unit, S-T-R

and my recommendations are as follows:

approval upon receipt ) warnes

ic. ED OIL CONSERVATION DIVISION SANTA FE

Yours very truly,

W.a. Gressett



STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

BRUCE KING COVERNOR LARRY KEHDE SECRETARY POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-2434

Henry Engineering 807 First National Bank Building Midland, Texas 79701

Re:

: Application for Non-Standard Location: David Fasken, Maralo State Well No. 1, Sec. 18, T-24-S, R-25-E, Eddy County, New Mexico

We may not process the subject application for non-standard location until the required information or plats checked below (is) (are) submitted.

<u>(X</u>7

A plat must be submitted clearly showing the ownership of the offsetting leases.

A statement must be submitted that offset owners have been notified of the application by certified mail.

A plat must be submitted fully identifying the topography necessitating the non-standard location.

Other:

R. L. STAMETS Technical Support Chief

RLS/dr

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Petroleum Engineers BO7 FIRST NATIONAL BANK BUILDING MIDLAND, TEXAS 79701

March 24, 1980

El Paso Natural Gas Co. 1800 Wilco Building Midland, Texas 79701

## Attention: Mr. A. J. Dudenhoeffer

Gentlemen:

Under date of March 17, 1980 we filed for administrative approval by the State of New Mexico, Energy and Minerals Department, Oil Conservation Division, of an unorthodox location for the David Fasken Maralo State No. 1, 2030' FNL and 1060' FWL of Section 18, T-24-S, R-25-E, Eddy County, New Mexico.

In your capacity as an offset operator, we are asking that you submit a waiver to the State of New Mexico, Energy and Minerals Department, Oil Conservation Division, Attention: Mr. Joe Ramey, P. O. Box 2088, Santa Fe, New Mexico 87501.

This unorthodox location is necessitated by the topography in this drilling and spacing unit as you can realize from a brief look at a portion of Carlsbad Caverns, East, U.S.G.S. topographic map.

We are enclosing a prepared waiver and request that you sign and forward it, or one of your own composition, to Mr. Ramey.

Yours very truly,

HENRY ENGINEERING

Robert H. Angevine

RHA:vcz Encls.

VIA CERTIFIED MAIL



March 24, 1980

State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe Ramey

Re: Waiver for Unorthodox Location David Fasken Maralo State No. 1 Eddy County, New Mexico

Gentlemen:

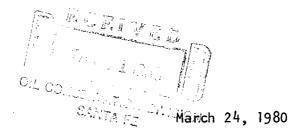
We have been advised of the necessity for the location of the subject well 2030' from the north line and 1060' from the west line of Section 18, T-24-S, R-25-E, Eddy County, New Mexico, due to terrain to obtain a suitable drill site.

We have no objection to the drilling of this well at this location.

Yours very truly,

EL PASO NATURAL GAS CO.

By Alude May



State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe Ramey

Re: Waiver for Unorthodox Location David Fasken Maralo State No. 1 Eddy County, New Mexico

Gentlemen:

We have been advised of the necessity for the location of the subject well 2030' from the north line and 1060' from the west line of Section 18, T-24-S, R-25-E, Eddy County, New Mexico, due to terrain to obtain a suitable drill site.

We have no objection to the drilling of this well at this location.

Yours very truly,

TEXAS OIL & GAS CORPORATION

By L. R. Haten





**Amoco Production Company** 

Houston Region 500 Jefferson Building Post Office Box 3092 Houston, Texas 77001

J. R. Barnett Regional Engineering Manager

March 25, 1980

File: JCA-986.51NM-373

Request for Unorthodox Location Re: Henry Engineering David Fasken Maralo State No. 1 Eddy County, New Mexico

Mr. Joe D. Ramey, Director New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Dear Mr. Ramey:

Amoco Production Company has been duly notified of Henry Engineering's request for administrative approval of an unorthodox location for the David Fasken Maralo State No. 1.

As an offset operator we have no objection to the drilling of the subject well at the following location:

> 2030' FNL & 1060' FWL, Sec. 18, T-24-S, R-25-E, Eddy County, New Mexico.

Yours very truly,

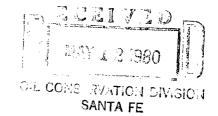
Barnett

MLC/rw

cc: Henry Engineering 807 First National Bank Building Midland, TX 79701

File hSL-1175

May 8, 1980



State of New Mexico Energy and Minerals Department Oil Conservation Division P. O. Box 2088 Santa Fe, New Mexico 87501

Attention: Mr. Joe Ramey

Re: Waiver for Unorthodox Location David Fasken Maralo State No. 1-Y Eddy County, New Mexico

Gentlemen:

We have been advised of the necessity for the location of the subject well 2030' from the north line and 1085' from the west line of Section 18, T-24-S, R-25-E, Eddy County, New Mexico, due to terrain to obtain a suitable drill site.

We have no objection to the drilling of this well at this location.

Yours very truly,

W. A. MONCRIEF, JR.

By Newey E. Theraton