Petroleum Engineers 807 FIRST NATIONAL BANK BUILDING MIDLAND, TEXAS 79701

May 15, 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

NSV 10 H Formut Rule lown of 1960 Power Lune

Application to Drill Re: Unorthodox Location David Fasken

Maralo State No. 2 1600' FNL & 1780' FEL

Section 18, T-24-S, R-25-E Eddy County, New Mexico

Gentlemen:

On behalf of our client, David Fasken, enclosed is application to drill the subject well with a request for administrative approval of an unorthodox location based upon terrain.

The proposed location is a suitable drill site barely large enough to accomodate the drilling operation. Please refer to a part of U.S.G.S. quadrangle map - Carlsbad Caverns East.

We are notifying the offset operators - Amoco Production Co., El Paso Natural Gas Co., Texas Oil and Gas Corp. and W. A. Moncrief, Jr. - by CERTIFIED MAIL of our client's intention to drill the subject well, and requesting that they forward to you a waiver of any objection to the proposed location.

Yours very truly,

HENRY ENGINEERING

Robert H. Angevine

RHA:jcs Encls.

cc: N.M.O.C.C.- Artesia Offset Operators

GIL CONSTRVATION DIVISION

SANTA FE

NO. OF COPIES RECEIVED				•		
DISTRIBUTION	NEW	MEXICO OIL CONSE	RVATION COMMISSIO	N	Form C-101	_ *
SANTA FE	 				Revised 1-1-6	Type of Lease
U.S.G.S.	 				SA. Indicate	
LAND OFFICE	 					& Gas Lease No.
OPERATOR					L- 6869	
	1				111111	
APPLICATION	N FOR PERMIT TO	DRILL, DEEPEN,	OR PLUG BACK			
1a. Type of Work					7. Unit Agre	ement Name .
DRILL X		DEEPEN	PLUG	BACK		
b. Type of Well			SINGLE MI	ILTIPLE	8. Farm or L. Maralo	
2. Name of Operator	O.HER		ZONE	ZONE	9. Well No.	Juice
DAVID FASKEN	•	•			2	
3. Address of Operator	The state of the s					d Pool, or WildcatMorr
608 First National	Bank Building.	Midland, Texas	s 79701		Undes. I	Baldridge Canyon
4. Location of Well	R G Loc	ารกก	FEET FROM THE Nort	h LINE	111111	
AND 1780 FEET FROM	THE East LIN	E OF SEC. 18	TWP. 24-S RGE. 25	S-E NMPM	(111111	
					12. County	
<i>HHHHHHHH</i>			/////////////////////////////////////	44444	Eddy	HHHH
		/////////////////////////////////////	19. Proposed Depth	19A. Formatio	on .	20. Rotary or C.T.
			11,300'	Morrow		Rotary
21. Elevations (Show whether DF,	RT, etc.) 21A. Kind	& Status Plug. Bond	21B. Drilling Contractor		22. Approx	. Date Work will start
4318.4' GR	State	wide	Warton Drillir	ig Co.	June :	20,-1980
23.	P	ROPOSED CASING AN	D CEMENT PROGRAM			
	CIZE OF CACING	TWEIGHT DED FOOT	- 05			505 505
17-1/2"	SIZE OF CASING	WEIGHT PER FOO-	SETTING DEPT		F CEMENT	EST. TOP Circulate
12-1/4"	8-5/8"	24 & 32	3,000'		100	Circulate
7-7/8"	4-1/2"	11.60# 13.50	11,300'		800	8000'
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1. Please refer	r to attached D	rilling & Comp	letion Procedu	re.		•
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2. Gas is not o	leaicatea.					
M	E CELVA					
[1.19	1 0 1000	2000			*	
1.1	MAY T 3 1300					
()	CONSTRUCTION D	IVISION				
IN ABOVE SPACE DESCRIBE PR	OF DEED PROGRAME IF	PROPOSAL IS TO DEEPEN	OR PLUG BACK, GIVE DATA	ON PRESENT PR	RODUCTIVE ZONE	E AND PROPOSED NEW PRODU
I hereby certify that the information	on above is true and com	plete to the best of my l	knowledge and belief.			
· 12/1.	Lancis .	mu Robert	H. Angevine, A	aent	_	_80
Signa Colland	1.77	_ TitleRODERL	ii. Aligeville, A	90116	Date 5-9	-00
(This space for !	State Vse)					

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

8668

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-65

Effective 1-1-65 All distances must be from the outer boundaries of the Section Legse Well No. Operator David Fasken Maralo State Township Unit Letter 24 South 25 Fas Actual Footage Location of Well: 1600 teet from the North 1780 line and East feet from the Ground Level Elev. Producing Formation Dedicated Acreage: Undes. Baldridge Canyon 320+ Morrow 4318.4 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling etc? Working Interest Unit w/D. Fasken as operator If answer is "yes," type of consolidation ___Communitization XX Yes No If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission. CERTIFICATION D. Fasken Maralo. Inc. L-4502 L-6869 I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Robert H. D. Fasken D. Fasken L-6869 L-6869 Agent Company DAVID FASKEN 5-7-80 Maralo, Inc. Maralo, Inc. L-4502 L-4502 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 true and correct to the best of my knowledge and belief. OIL CONS RVATION DIVISION Date Surveyed SANTA FE April 28, 1980 Registered Professional Engineer D. Fasken D. Fasken and/or Land Surveyor L-6869 L-6869

1980 2310

26 40

2000

1 500

RECOMMENDED DRILLING & COMPLETION PROCEDURE

A.F.E. NO. 453

David Fasken ----- MARALO STATE NO. 2 ---- Eddy County, New Mexico

- 1. Drill 17-1/2" hole to 300" with spud mud.
- 2. 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 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.
- 4. A Set and cement 8-5/8" casing at 3000' with sufficient cement to 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.
 - B 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.
- 5. On or before 7500' test 8-5/8" casing to 2200 psig and test B.O.P.'s, 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', and connect mud-gas separator.
- 7. Drill 7-7/8" hole to estimated T.D. of 11,300' with fresh water to 7500'. Control seepage with paper and P_h at 11.0 with lime.
- 8. At 7500' add potash to 4% KCl concentration, increase viscosity with 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.
- 9. Drill stem test all shows (test each Morrow Sand separately).
- 10. Run logs (combination CNL-FDC w/Gamma Ray, DLL and Dip Meter).
- 11. Set and cement 4-1/2" production casing (resin coated and centralized 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.
- 12. Install 10" 3000 psi W.P. x 6" 3000 psi W.P. tubinghead and Christmas tree.
- 13. Run temperature survey to locate cement top.
- : 14. Rig down and move out rotary tools.
 - 15. Set mast anchors and move in pulling unit.



Recommended Drilling & Completion Procedure A.F.E. No. 453 David Fasken Maralo State No. 2 Eddy County, New Mexico

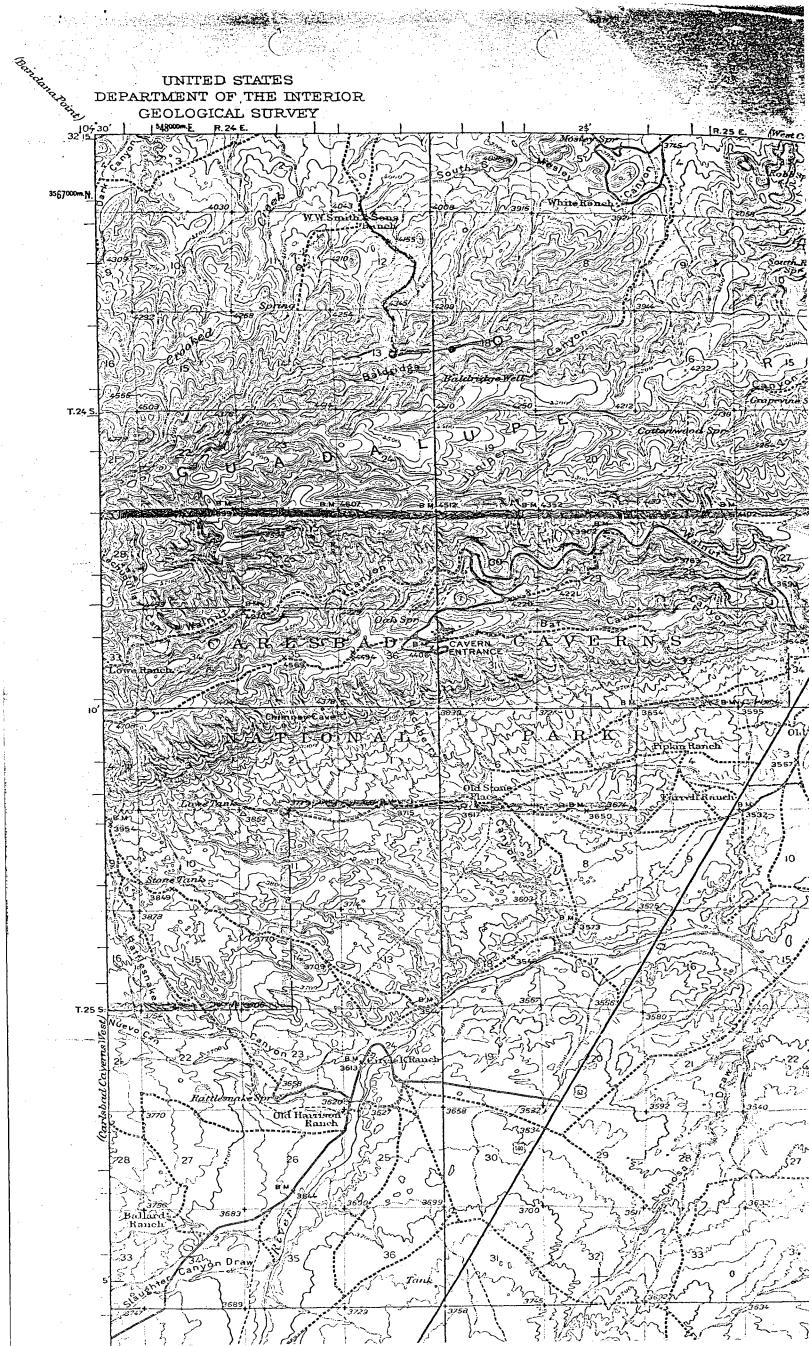
- 16. Pressure test casing and Christmas tree to 3000 psig.
- 17. Run 2-3/8" tubing N-80, EUE 8RD c/w AB Modified couplings, and packer.
- 18. Displace fluid in well with 3% KCl water containing oxygen scavenger and corrosion inhibitor.
- 19. Set packer and install Christmas tree.
- 20. Swab fluid level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

RECOMMENDED CASING PROGRAM

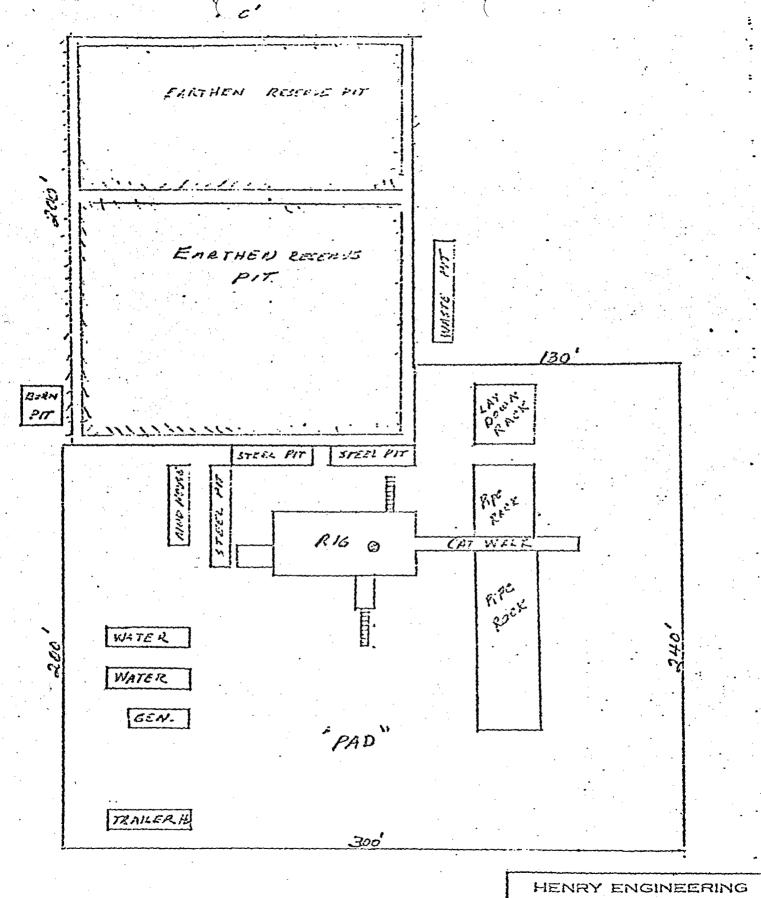
A.F.E. NO. 453

David Fasken ----- MARALO STATE NO. 2 ---- Eddy County, New Mexico

	Footage	Size	Weight	Grade	Thread
Surface Casing	3001	13-3/8"	48.00#/Ft.	H-40	ST&C
Intermediate Casing	2,500' 500' 3,000'	8-5/8 ¹¹ 8-5/8 ¹¹	24#/Ft. 32#/Ft.	J-55 J-55	ST&C ST&C
Oil String Casing	1,900' 8,400' 1,000'	4-1/2" 4-1/2" 4-1/2"	11.60#/Ft. 11.60#/Ft. 13.50#/Ft.	и-80 и-80	Buttress LT&C LT&C



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HENRY ENGINEERING MIDLAND, TEXAS

RIG & WELL SITE PLAT

SUBJECT: BLOWOUT PREVENTER HIE: STACK ENGINEERING MEMORANDUM 10" x 3000 WP HYDRILL GK BOP
ENGINEERING MEMORANDUM 10" × 3000 WP HYDRILL
INGINEERING MEMORANDUM 10" X 3000 WP HYDRILL
10" X 3000 WP HYDRILL
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Petroleum Engineers

807 FIRST NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701

May 14, 1980

Texas Oil and Gas Corporation 900 Wilco Building Midland, Texas 79701

Attention: Mr. Charles Canfield,

Vice President and District Manager



Under date of May 15, 1980 we are 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. 2, 1600' FNL and 1780' FEL, 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. 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:jcs Encls.

Petroleum Engineers
807 FIRST NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701

May 14, 1980



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

Attention: Mr. Dewey E. Thornton

Gentlemen:

Under date of May 15, 1980 we are 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. 2, 1600' FNL and 1780' FEL, Section 18, T-24-S, R-25-E, Eddy County, New Mexico.

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HENRY ENGINEERING

Robert H. Angevine

RHA:jcs Encls.

Petroleum Engineers
BO7 FIRST NATIONAL BANK BUILDING
MIDLAND.TEXAS 79701

May 14, 1980



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

Attention: Mr. A. J. Dudenhoeffer

Gentlemen:

Under date of May 15, 1980 we are 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. 2, 1600' FNL and 1780' FEL, Section 18, T-24-S, R-25-E, Eddy County, New Mexico.

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HENRY ENGINEERING

Robert H. Angevine

RHA:jcs Encls.

Petroleum Engineers

807 FIRST NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701

May 14, 1980



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

Attention: Proration Department

Gentlemen:

Under date of May 15, 1980 we are 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. 2, 1600' FNL and 1780' FEL, Section 18, T-24-S, R-25-E, Eddy County, New Mexico.

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Yours very truly,

HENRY ENGINEERING

Robert H. Angeviné

RHA:jcs Encls.



May 20, 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. 2

Eddy County, New Mexico

Gentlemen:

I have been advised of the necessity for the location of the subject well 1600' from the north line and 1780' from the east line of Section 18, T-24-S, R-25-E, Eddy County, New Mexico, due to terrain to obtain a suitable drill site.

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

Yours very truly,

M. J. HARVEY, JR.





Amoco Production Company

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

J. R. Barnett Regional Engineering Manager

May 21, 1980

File: JCA-986.51NM-2422

Re: Unorthodox Location

David Fasken Maralo State No. 2

Eddy County, New Mexico

State of New Mexico Oil Conservation Division P. O. Box 2088 Santa Fe, NM 87501

Attention: Joe Ramey

Gentlemen:

David Fasken has filed an application to drill the David Fasken Maralo State No. 2 at an unorthodox location based upon terrain at the following location:

1600' FNL & 1780' FEL Sec. 18, T-24-S, R-25-E Eddy County, New Mexico

Amoco Production Company has no objection to the drilling of the subject well at the location.

Yours very truly,

J.K. Barnett MLC/rw mlc



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. 2

Eddy County, New Mexico

Gentlemen:

We have been advised of the necessity for the location of the subject well 1600' from the north line and 1780' from the east 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 CORP.

By J. L. Flaten



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. 2

Eddy County, New Mexico

Gentlemen:

We have been advised of the necessity for the location of the subject well 1600' from the north line and 1780' from the east 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 Dewey E. Thas itoo

May 14, 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. 2

Eddy County, New Mexico

Gentlemen:

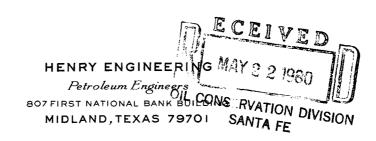
We have been advised of the necessity for the location of the subject well 1600' from the north line and 1780' from the east line of Section 18, T-24-S, R-25-E, Eddy County, New Mexico, due to terrain to obtain a suitable drill site.

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

Yours very truly,

EL PASO NATURAL GAS CO.

By Bliddinke FER



May 20, 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. 2
1600' FNL & 1780' FEL
Section 18, T-24-S, R-25-E
Eddy County, New Mexico

Gentlemen:

Pursuant to the undersigned's telephone conversation today with Mr. Stametz, we have notified offset operator M. J. Harvey, Jr. by CERTI-FIED MAIL of our client's intention to drill the subject well with the request that he forward to you a waiver of any objection to the proposed location. A copy of our notification to Mr. Harvey is attached.

Yours very truly,

HENRY ENGINEERING

James B. Henry

JBH:vcz Attmt.



SANTA FE

HENRY ENGINEERING

Petroleum Engineers

BO7 FIRST NATIONAL BANK BUILDING
MIDLAND, TEXAS 79701

May 20, 1980

Mr. M. J. Harvey, Jr. P. O. Box 12705
Dallas, Texas 75225

Dear Mr. Harvey:

Under date of May 15, 1980 we filed for administrative approval by the State of New Mexico, Energy and Minerals Department, 0il Conservation Division, of an unorthodox location for the David Fasken Maralo State No. 2, 1600' FNL and 1780' FEL, 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. A stamped envelope is enclosed for your convenience.

Yours very truly,

HENRY ENGINEERING

James B. Henry

JBH:vcz Encls.

May 20, 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. 2
Eddy County, New Mexico

Gentlemen:

I have been advised of the necessity for the location of the subject well 1600' from the north line and 1780' from the east line of Section 18, T-24-S, R-25-E, Eddy County, New Mexico, due to terrain to obtain a suitable drill site.

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

Yours very truly,

M. J. HARVEY, JR.

