500 West Ohio Midland, Texas 79701 915/687-3551

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October 24, 1983

Mr. Richard L. Stamets Technical Support Chief Oil Conservation Division Energy and Minerals Department State of New Mexico P. O. Box 2088 Santa Fe, NM 87501

RE: Geologic Exhibits

Dear Mr. Stamets:

The Santa Fe Energy Exploration Department is proposing an unorthodox location (990' FNL and 990' FWL) in Section 18, T23S, R28E, Eddy County, New Mexico. Reasons for this locations are as follows:

1. Regional maps of the Morrow Sand indicate the sand was deposited in a northwest-southeast direction.

2. The productive sandstone in the Belco #1 Guitar (1980'FNL, 660' FEL Section 19, T23N, R28E) has a cumulative production of 2.7 BCF gas. The E1 Paso #1 Carrasco, (1980' FNL, 660' FEL, Section 19, T23S, R27E) was drilled in 1982 and had an IPCAOF of 7.1 MMCFGPD. Both wells produce from the same sand. This sand is wet and not gas productive in the Cities Service 1-A Brantley (1980' FSL and FEL Section 7, T23S, R28E) and the Amoco #1 Carter, (1980' FSL and FEL, Section 18, T23S, R28E). Therefore, it is necessary for Santa Fe's proposed location to be in the northwest quarter of Section 18, where the thickest productive Morrow sand would be encountered.

3. Isopaching of the individual Morrow sand which was productive in the Belco #1 Guitar and the El Paso #1 Carrasco wells indicates the sand deposition was in a northwest-southeast direction. (Map 1)

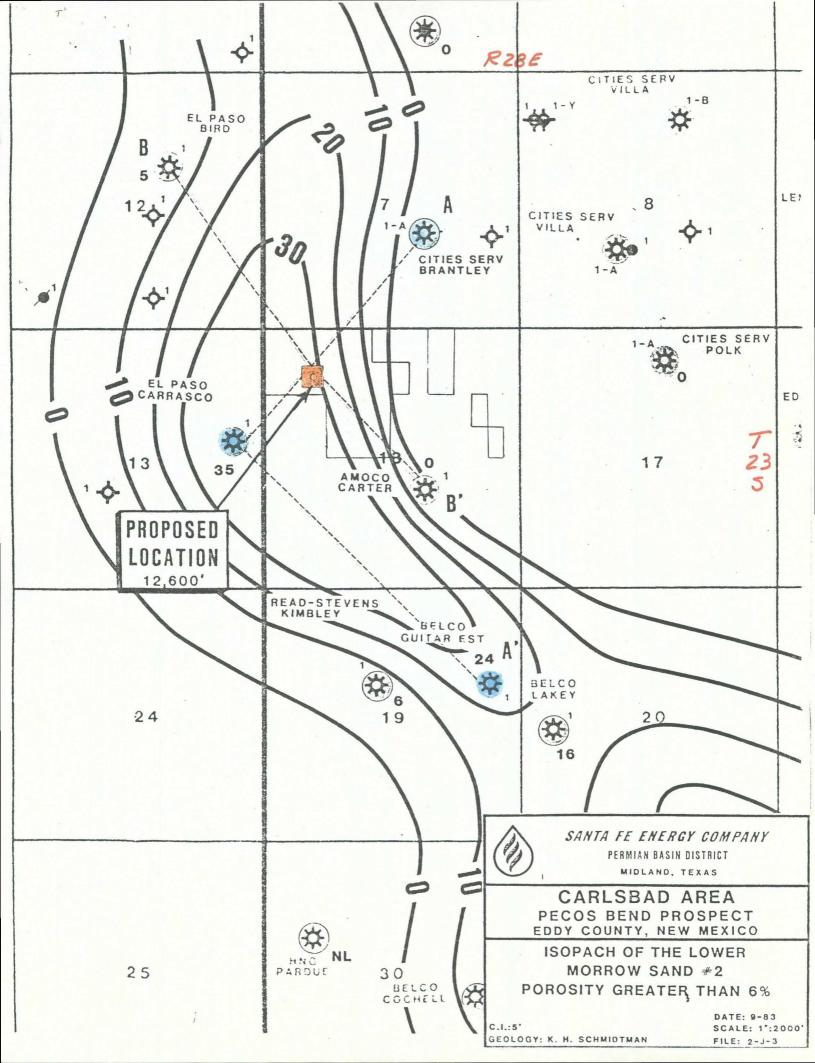
4. To establish production in the north half of section 18, T23S, R28E the proposed well location should be within the productive sand trend limits. Santa Fe is therefore recommending a location 990' FNL, 990' FWL.

The location Santa Fe Energy Company has proposed is the most logical one based upon knowledge of sand trends, good reservoir conditions and production data in extending gas production in North Loving Field.

Fours truly, 1 A. Schaefer, Jr. Exploration Manager

ccs





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OFFSET OPERATORS TO CARRASCO #1

Amoco Production Company P.O. Box 3092 Houston, Texas 77253 Attention: Chris Raper

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Cities Service Company P.O. Box 1919 Midland, Texas 79702 Attention: John McCartney

El Paso Exploration Company 1800 Wilco Building Midland, Texas 79701 Attention: Don Janssen

500 West Ohio Midland, Texas 79701 915/687-3551

October 13, 1983

Re: Waiver Request

nct 3 1 1983

OIL CONSERVATION DIVISION

SANTA FE

Cities Service Co. P.O. Box 1919 Midland, TX 79702

Attn: John McCartney

Gentlemen:

This is to inform you of our Request for Administrative Approval of Santa Fe Energy Company's unorthodox location for a well to be drilled 990' FNL and 990' FWL in Section 18, Township 23, South, Range 28 East, Eddy County, New Mexico. (Plat attached, for your convenience)

We would appreciate your responding to this Waiver as quickly as possible as we plan to spud the well on or before December 1, 1983. Please send one executed copy to: Division Director, Oil Conservation Division, Energy and Minerals Department, State of New Mexico, P.O. Box 2088, Santa Fe, New Mexico 87501, and return the copy so marked to us.

Yours truly,

Bill A. Schaefer, Jr. Exploration Manager

BY SIGNATURE HERETO, WE DO APPROVE THIS WAIVER REQUEST:

Attorney-in-Fact

Date

Attchmt /efw

500 West Ohio Midland, Texas 79701 915/687-3551

October 13, 1983

Re:

Amoco Production Co. P.O.Box 3092 Houston, Texas 77253

Attn: Chris Raper

OIL CONSERVATION DIVISION

Waiver Request

Gentlemen:

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Yours truly,

Bill A. Schaefer, Jr.

Exploration Manager

BY SIGNATURE HERETO, WE DO APPROVE THIS WAIVER REQUEST:

Attorney-in-Fact

Date

Attchmt /efw



500 West Ohio Midland, Texas 79701 915/687-3551

October 13, 1983



El Paso Exploration Co. 1800 Wilco Bldg. Midland, TX 79701

Attn: Don Janssen

Gentlemen:

This is to inform you of our Request for Administrative Approval of Santa Fe Energy Company's unorthodox location for a well to be drilled 990' FNL and 990' FWL in Section 18, Township 23, South, Range 28 East, Eddy County, New Mexico. (Plat attached, for your convenience)

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Yours truly,

Bill A. Schaefer, Jr. Exploration Manager

BY SIGNATURE HERETO, WE DO APPROVE THIS WAIVER REQUEST:

Attorney-in-Fact

Date

Attchmt /efw



Santa Fe Energy Company 500 West Ohio Midland, Texas 79701 915/687-3551 NSL-1769 Rule 104 FII October 28, 1983 NOV. 20, 1983 Mr. Richard L. Stamets Technical Support Chief 0CT Oil Conservation Division Energy & Minerals Department OIL CONSERVATION DIVISION State of New Mexico SANTA FE P.O. Box 2088 1 Santa Fe, New Mexico 87501 Dear Sir: Carrasco Well No. 1 Santa Fe Energy Company wishes to drill Ka Morrow test at a location 990' FNL, 990' FWL, Section 18, T23S, R28E, Eddy County, New Mexico. North Louine Morrow Pool Attached please find: 1. Letter requesting administrative approval of unorthodox location. 2. Form C-101 3. Form C-102 with attachments Geological Data 4. 5. Lease Map List of offset operators 6. Copy of letter sent to offset operators. 7. Two copies of this have been sent to the District Office in Artesia. If there is anything else needed by your office in order to consider the request,

Sincerely,

Michael R. Burton

MRB:cc

attachments

please let me know.



File NSL-1769

Amoco Production Company (USA)

Houston Region–West 501 WestLake Park Boulevard Post Office Box 3092 Houston, Texas 77253

OIL CONSERVAL 蹼 SANTA FE OIL CONSERVATION DIVISION SANTA FE

1

R. G. Smith Regional Engineering Manager-West

October 31, 1983

File: JCA-986.51NM-3346

Re: Unorthodox Well Location #1 Carrasco 990' FNL & 990' FWL Section 18, T-23-S, R-28-E Eddy County, New Mexico

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

Gentlemen:

Santa Fe Energy Company has filed an application for Administrative Approval of an unorthodox location for the subject well to be drilled 990' FNL and 990' FWL in Section 18, Township 23 South, Range 28 East, Eddy County, New Mexico.

As an offset operator, Amoco Production Company waives objection to the drilling of the well at the unorthodox location stated above.

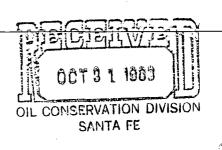
Yours very truly,

R.G.Smith Mlc.

MLC/agd 1039/C

cc: Santa Fe Energy Company 500 West Ohio Midland, TX 79701

500 West Ohio Midland, Texas 79701 915/687-3551



October 28, 1983

Mr. Joe D. Ramey, Director Oil Conservation Division State of New Mexico Energy & Minerals Department P.O. Box 2088 Santa Fe, New Mexico 87501

Dear Sir:

Santa Fe Energy Company requests administrative approval of an unorthodox location to drill a Morrow test at 990' FNL, 990' FWL, Section 18, T23S, R28E, Eddy County, New Mexico.

The reasons for this request are geologic and are attached.

Sincerely,

ichalk. Buton

Michael R. Burton

MRB:cc

attachments

STATE OF NEW ME	XICO					40	
ENERGY AND MINERALS DE	PARTMENT	OIL	CONSERVAT	ION DIVISION		Form C-101	
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24'' 17½''	20'' 13-3/8	3''	94# 54.5#	400' 2370'	. <u>582</u> 1770	CEMENT	Surface Surface
24''	20"	311	94#	400'	. 582	CEMENT	Surface

Move on location and rig up rotary tools. Drill 24" hole to 400'. Run 20" casing and cement from 400' back to surface. WOC 8 hours. Test casing to 600 psi. Drill $17\frac{1}{2}$ " hole to 2370'. Run electric logs. Run 13-3/8" casing and cement from 2370' back to surface. WOC 8 hours. Nipple up BOP equipment. Test casing to 1500 psi. Drill $12\frac{1}{4}$ " hole to 10,670'. Run electric logs. Run 9-5/8" casing and cement from 10,670' back to 5670'. WOC 8 hours. Test casing to 1500 psi. Drill 10'. Test casing seat to 13.0 ppg MWE. Drill 7-7/8" hole to 12,600'. Drill stem test zones of interest. Run electric logs. Depending upon log and drill stem test results, either run $5\frac{1}{2}$ " casing and cement from 12,600' back to 9700' or plug and abandon as per New Mexico Oil Conservation Division Rules, Regulations, and instructions.

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

Signed Michael K. Bunton	•	 Drilling Engineer	Date	10-19-83
(This space for State Use)				

APPROVED BY

CONDITIONS OF APPHOVAL, IF ANY

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

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

All distances	must be	from	the	outer	boundaries	of	the	Section
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		All distances must be from	the outer boundaries of	the Section.				
Operator SAN	TA FE ENERGY		CARRASCO		Well No. 1			
Unit Letter _ D	Section 18	Township 23S	Range 28E	County EDDY				
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	e acreage dedica	ted to the subject well	Contraction of the second s		l Acres ne plat below.			
2. If more th interest an		dedicated to the well, o	utline each and ide	ntify the ownership t	hereof (both as to working			
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consoli- dated by communitization, unitization, force-pooling.etc? Designation of Consolidated								
🔀 Yes	No If an	nswer is ''yes,'' type of co	onsolidation <u>Gas</u>	Leasehold Estat	e			
	is "no," list the (necessary.)	owners and tract descript	ions which have ac	tually been consolid	ated. (Use reverse side of			
No allowab	le will be assigne				munitization, unitization, approved by the Commis-			
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		10	WW WI. WEST		0/11/83 Professional Engineer			
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WORKING INTEREST OWNERS ARE SHOWN ON FORM C-102. BELOW IS A LIST OF THE ROYALTY OWNERS.

> Malaga tract 315, being WaNWANEA (5 acres); Malaga tract 316, being ELMANWANE: (5 acres); Malaga tract 318, being ELNELNWINE: (5 acres); Malaga tract 319, being NW-NE-NE- (10 acres); Malaga tract 321, being NE-NE- (10 acres); Malaga tract 322, being SELNEL (10 acres); Malaga tract 323, being E2SWANELNEL (5 acres); Malaga tract 324, being W2SW2NE2NE2 (5 acres); Malaga tract 327, being E2SW2NW2NE2 (5 acres); Malaga tract 333, being W2NW2SW4NE2 (5 acres); Malaga tract 334, being E2NW2SW2NE2 (5 acres); Malaga tract 335, being W2NE2SW2NE2 (5 acres); Malaga tract 341, being W2SW2SW2NE2 (5 acres); Malaga tract 94, being SELSWANEL, W2SWASELNEL (15 acres); Malaga tract 345, being E2SE2SE2NE2 (5 acres)

Owner

Owner

Interest

8/8

Royalty

3/16

Carter Farms Company, a limited partnership 1411 Orchard Lane Carlsbad, New Mexico 88220;

> Malaga tract 317, being WaNEANWANEA (5 acres); Malaga tract 325, being ESELNWINE: (5 acres)

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	_	_	_	

8/8

Interest

1/4

Earl B. Guitar and John Guitar Jr., Agents and Attorneys-in-Fact for Ruth Guitar Alexander, a widow, et al c/o Earl B. Guitar P. O. Box 744 Abilene, Texas 79604

	Malaga tract 326, being	W2SE2NW2NE2 (5 acres)
Owner	Interest	Royalty
Lois Mae Beesing 2408 Marshall Drive Edmond, Oklahoma 73034	8/8	3/16



Malaga tract 328, being Wasswanker (5 acres)

Cr. za ava	· · ·	46				
Cwner	Interest	• .	· ·	Royalty		
Phyllis Jean Peal, formerly Phyllis Jean Hummel 613 County Hills Drive St. Louis, Missouri 63119	8/8	t destruction of the second se		3/16		

Malaga	tract	336,	being	EZNEZSWZNEŻ	(5	acres);
Malaga	tract	337,	being	Wanter SERVER	(5	acres);
Malaga	tract	339,	being	WaNEZSEZNEZ	(5	acres);
Malaga	tract	340,	being	EZNEZSEZNEZ	(5	acres);
Malaga	tract	343,	being	EZSWESEZNEZ	(5	acres)

Owner

Interest

Royalty

Earl B. Guitar and John 8/8 Guitar Jr., Agents and Attorneys-in-Fact for Ruth Guitar Alexander, a widow, et al c/o Earl B. Guitar P. O. Box 744 Abilene, Texas 79604

Malaga tract 338, being EWN&SEWNE& (5 acres)

Owner	Interest	Royalty
August Linck Jr. 771 Norbert Drive Santa Barbara, California 92404	8/8	3/16

Owner	Interest	Royalty
Edmund T. Anderson, IV P. O. Box 3575 Midland, Texas 79703	1/2	1/2 (fee ownership)
Ronald G. Tefteller P. O. Box 8575 Midland. Texas 79703	1/2	1/2 (fee ownership)

المواجعة والمراجعة المراجع المواجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع المراجع الم المراجع Ownership Under: Malaga tract 344, being W2SE2SELNEZ (5 acres)

Owner	Interest	Royalty
Ola Housouer, widow of Guy Housouer, dec.; Mary Housouer Franks and Dessa Housouer Black, being two of the three children of Ola Housouer and husband, Guy Housouer, dec.; Duane Housouer and Melvin Lee Housouer, being the only children of J. M. Housouer, dec., he being one of the three children of Ola Housouer		3/16

Malaga tract 311, being W2NWANEANA (5 acres) and Malaga tract 312, being E2NWANEANA (5 acres), save and except a lot 125 feet North and South by 200 feet East and West (Candelario O. Carrasco, Sr. has life estate in this); Malaga tract 313, being W2NEANEANA (5 acres); Malaga tract 329, being E2SEANEANA (5 acres); Malaga tract 330, being W2SEANEANA (5 acres); Malaga tract 331, being E2SEANEANA (5 acres); Malaga tract 331, being E2SEANEANA (5 acres); Malaga tract 332, being W2SEANEANA (5 acres); Malaga tract 332, being W2SEANEANA

Owner

Interest

8/8

Royalty

Candelario A. Carrasco, Jr. P. O. Box 26 Loving, New Mexico 88256

and husband, Guy Housouer, dec.; each dealing in their sole and separate property and being all the heirs of Guy

Housouer, dec. 1913 47th Street Lubbock, Texas 79412

3/16

A tract out of NW-NE-NW2 described as beginning at a point on the North line of Section 18, Township 23 South, Range 28 East, N.M.P.M., 1450 feet East of the Northwest corner of said section; thence South parallel to the West line of the section a distance of 125 feet; thence East Parallel to the North line of said section a distance of 200 feet; thence North parallel to the West line of said section a distance of 125 feet; thence West a distance of 200 feet to point of beginning.

Owner	Interest	Royalty
Celia Valdez as Conservator for Candelario O. Carrasco, Sr. (life estate) P. O. Box 93 Loving, New Mexico 88256	8/8	3/16
Candelario A. Carrasco, Jr. (remainderman) P. O. Box 26 Loving, New Mexico 88256		

Malaga tract 314, being ENELNELNEL (5 acres)

Cwner	Interest	Royalty
Earl B. Guitar and John Guitar Jr., Agents and Attorneys-in-Fact for Ruth Guitar Alexander, a c/o Earl B. Guitar P. O. Box 744 Abilene, Texas 79604	8/8 widow, et al	1/4

Lot 2, being SWANNA (39.31 acres)

	er	Interest	Royalty
Gui	l B. Guitar and John tar Jr., Agents and orneys-in-Fact for	8/8	1/4
Rut c/c P.	h Guitar Alexander, a widow Earl B. Guitar O. Box 744 lene, Texas 79604	, et al	