Form 3160-3 (November 1983) (formerly 9-331C)	DEPARTMEN	TED STATES IT OF THE INT F LAND MANAGEM	SUBMIT IN 7 (Other Instr reverse ERIOR		rorm approved	- 2631 No. 1004-0136 et 31, 1985
	ON FOR PERMIT			bla cut	NM-60769	
1a. TYPE OF WORK		TO DRILL, DEC	PEN, OR PLUG	BACK 1	FII ISA	CE OR TRIBE NAME
b. TIPE OF WELL		DEEPEN 🗌	PLUG BA		. UNIT AGREEMENT	NAMB
OIL WELL	WELL X OTHER		SINGLE RECE		. FARM OR LEASE NA	MB
			/		H. B. 36Fed	lera1
ADDRESS OF OPERAT	nergy Operating Nom	artners, L.P.		? '90 [°]	WELL NO.	
500 W. I11	inois, Suite 500	, Midland, TX	79701		. FIELD AND POOL.	OR WILDCAT
Af proposed prod.	Incis, Suite 500, (Report location clearly an & 660 ' FNL, Sec. zone ^{SCC}	d in accordance with an 3, T-24S, R-29	E C C C C C C C C C C C C C C C C C C C	C. D. / Un	Cedar Cany 1. SEC., T., B., M., OR AND SURVEY OR A	on Morrou
Same 4. distance in Mili	ES AND DIRECTION FROM NE.	AREST TOWN OR POST OFF			3, 245, 29 2. COUNTY OR PARISE	E
<u>6 miles ea</u>	st of Malaga, New				Eddy	NM
5. DISTANCE FROM PE LOCATION TO NEAR PROPERTY OR LEAS	lopused*	16.	NO. OF ACRES IN LEASE	17. NO. OF A TO THIS	CRES ASSIGNED	
(Also to nearest 8. DISTANCE FROM P	drig, unit line, if any)	660'	640		320	
TO NEAREST WELL OR APPLIED FOR, ON	A DRILLING, COMPLETED.	N/A	PROPOSED DEPTH 14,100'	-	or CABLE TOOLS	
. ELEVATIONS (Show	whether DF, RT, GR, etc.)		11,100	<u> </u>	22. APPROX. DATE WO	DER WILL RTART
-3052.21-(GE 3082.6 GL	******			ASAP	
•		PROPOSED CASING A	ND CEMENTING PROGRA	м		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	1	QUANTITY OF CEMEN	NT
$ \begin{array}{r} 17 \ 1/2 \\ 12 \ 1/4 \end{array} $	<u> </u>	48.0	700'		ft. <u>circ. t</u>	
8 1/2		40.0 23.0,26.0,29.	3100'	910 cu.	ft. circ. to	o surface
6	4 1/2	11.6	10000-14100'		ft. fill to	
cement with s circulate to 12 1/4" hole circulate to 8 1/2" hole to containing 6 a 6" hole to taining 0.6%	rig up rotary too sufficient Class surface when fol to 3100'. Run 9 surface when fol to 10,500'. Run salt per sack a 14,100'. Run 4 fluid loss reduc to 300' above lin	"C" cement con lowed by 330 c 5/8" casing a lowed by 264 c 7" casing and and 0.6% fluid 1/2" casing an er, 0.4% frict	taining 4% gel, u.ft. of Class ' nd cement with s u.ft. Class "C" cement with suff loss reducer to d cement with su ion reducer. 0.6	1/4#/sk c 'C" with 2 sufficient containir ficient 50 bring cen officient	cellophane f 2% CaCl2. D c lite cemen ag 2% CaCl2. 0/50 Class H ment to 8000 Class H ceme ock agent ag	lakes to rill t to Drill /Poz '. Drill ent con-
venter program, if a BIGNED Michael (This space for Fee PERMIT NO.	BE FROFOSED PROGRAM : If j o drill or deepen directiona my.		APPROVAL DATE	d measured and	I true vertical depth	s. Give blowout
APPROVED BY			- AREA MERICELA - CARLISBAD JESIRINDE ARE	۸	DATE 3.7.	2.070
CONDITIONS OF APPROV APPROV GENERA SPECIAL	AL SUBJECT TO L REQUIREMENTS AND STIPULATIONS	<u>)</u>				

SPECIAL STIPULATIONS *See Instructions On Reverse Side ATTACHED Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Submit to Appropria District Office State Lease - 4 copie Fee Lease - 3 copies	54	F Mi		ew Mexico ural Resources I	Departme -	~.	Form C-102 Revised 1-1-89
DISTRICT I P.O. Box 1980, Hob			P.O. B	TION DIV Dx 2088			
DISTRICT II P.O. Drawer DD, Ar	ntesia, NM \$8210	Santa	i Fe, New M	exico 87504-2	2088		
	., Azlec, NM 87410	WELL LOCATI All Distances n		REAGE DEDI outer boundaries		т	
Operator			Lease				Well No.
		TING PARTNERS		Н. В. ЗІ	3 Federal		1
Unit Letter B	Section 3	Township 24 Sout	-h	29 East		County	
Actual Footage Loc	1	24 300		27 East	NMPN	4	2ddy
860	feet from the	North li	e and	2080	feet from	nthe East	line
Ground level Elev.		Formation	Pool	· · · · · · · · · · · · · · · · · · ·			Dedicated Acreage:
3082.6	Mor	row I to the subject well by cold	Ce	lar Canyon	Morrow		320 Acres
If answer this form No allow	tion, force-pooling, etc Yes XX is "no" list the owners if neccessary. able will be assigned to		yes" type of cons ch have actually i have been conso	olidation	(Use reverse side o	£	
· · · · · · · · · · · · · · · · · · ·			<u>_</u>			OPERAT	OR CERTIFICATION
	Lease # NM-6						certify that the information
	Energy Opera		60	1×		contained herei	n in true and complete to the
	, etal 100		α 			best of my knowl	edge and belief.
0.5.A. 5.	liding Scale	Royalty 3004.9	30.92.		,	Signature	
						Mucha	UR Buit
_	ļ	3079.0				Printed Name	
					Z		R. Burton
	i			i		Position	
	l			i		District	Drilling Engineer
	4	N		N.			nta Fe Energy g Partners, L.P.
	٦ [.]	ſ		۲.		Date	<u>s iaitheis, bir</u>
				1		Marcl	1 13, 1990
		1				SURVEY	OR CERTIFICATION
				NO. 676		I hereby certify on this plat we actual surveys supervison, and correct to the belief. Date Surveyed Marc Signature & Ses Professional Sur Certificate Net	that the well location shown as plotted from field notes of made by me or under my I that the same is true and best of my knowledge and the 5, 1990
330 660	990 1320 1650	1900 2310 2640	2000 15	00 1000	500	·····	

126630

8

APPLICATION FOR DRILLING SANTA FE ENERGY OPERATING PARTNERS, L.P. H. B. 3 Federal No. 2

In conjunction with Form 3160-3, Application to Drill subject well, Santa Fe Energy Operating Partner, L.P., submits the following ten items of pertinent information in accordance with BLM requirements.

1. The geologic surface formation is sand.

· _-

2. The estimated tops of geologic markers are as follows:

Delaware Lamar Lime	3,050′
Delaware Sands	3,100′
Bone Spring	6,900'
Wolfcamp	10,150'
Strawn	12,185'
Atoka Clastics	12,460'
Lower Atoka	12,610'
Morrow Clastics	13,340'
Lower Morrow Clastics	13,800'
Total Depth	14,100'

3. The estimated depth at which water, oil, or gas formations are expected to be encountered:

Water Water is not expected to be encountered.

Oil or Gas	Wolfcamp	10,150' - 12,185'
	Strawn	12,185' - 12,460'
	Atoka	12,460' - 13,340'
	Morrow	13,340' - 14,100'

- 4. Proposed Casing Program: See Form 3160-3 and Exhibit A.
- 5. Pressure Control Equipment: See Form 3160-3 and Exhibit B.
- 6. Drilling Fluid Program: See Exhibit C.
- 7. Auxiliary Equipment: See Exhibit D.
- 8. Testing, Logging and Coring Programs:

Drill Stem Tests (all DST's to be justified by a valid shoe of oil or gas):

Wolfcamp	10,150' - 12,185'
Strawn	12,185' - 12,460'
Atoka	12,460' - 13,340'
Morrow	13,340′ - 14,100′

Application for Drilling H. B. 3 Federal No. 2 Page 2

Logging:

Logging from 3,100' - TD Dual Laterolog with Gamma Ray Neutron-Density with Gamma Ray Computer Process Log over selected intervals

Logging from surface to 3,100' Neutron with Gamma Ray

- 9. Abnormally high pressured zones are expected at this location. Sufficient barite will be on location to enable the weighting up of the drilling fluid to control any high pressured zone encountered. Along with the above mentioned primary control, a Blow Out Preventer System as outlined in Exhibit B will be utilized should the need arise to shut the well in prior to running and cementing production casing.
- 10. Starting Date: As soon as possible.

Michael R. Burton 02-15-90

MRB:dw-2053 Attachments

MULTI-POINT SURFACE USE AND OPERATIONS PLAN SANTA FE ENERGY OPERATING PARTNER, L.P. H. B. 3 Federal No. 2 1980' FEL & 660' FNL Section 3, T24S, R29E Eddy County, New Mexico

This plan is submitted with Form 3160-3, Application for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed by rehabilitating the surface after completion of the operations, so that a complete appraisal can be made of the environmental effects associated with the operation.

- 1. EXISTING ROADS.
 - A. Exhibit E is a topographic map of a scale of approximately one inch to 2000' which shows location of the proposed wellsite and roads in the vicinity. The proposed location is situated approximately 30 miles east of Jal, New Mexico.

DIRECTIONS:

- 1. Proceed east on County Road 720 from Malaga, New Mexico for approximately 1 mile.
- 2. Turn right (south) onto County Road 746 and continue for approximately 10 miles.
- 3. Turn left (northeast) onto County Road 746A and continue for approximately 4 miles.
- 4. Turn left (west) onto oilfield road and continue for 2 miles to abandoned well.
- 5. Turn right (northwest) and continue for 1 mile. Turn left and go 1/2 mile to H. B. 3 Federal No. 1.
- 6. Turn north and go 1/2 mile to location.
- 2. PLANNED ACCESS ROAD.

A 14' wide access road will extend from an existing well in Section 3 into the wellsite in Section 3.

- 3. LOCATION OF EXISTING WELLS.
 - A. The well locations in the vicinity of the proposed well are shown in Exhibit F.

Multi-Point Surface Use and Operations Plan H. B. 3 Federal No. 2 Page 2

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES.

- A. There is no producing well on this lease at this time.
- B. In the event the well is productive, the necessary production equipment will be installed on the drilling pad. If the well is productive of oil, a gas or diesel self-contained unit will be used to provide the necessary power. No power will be required if the well is productive of gas.
- C. The reserve pits will be plastic lined.
- D. A 400' x 400' work area which will contain the pad and pit area has been staked and flagged.
- 5. LOCATION AND TYPE OF WATER SUPPLY.
 - A. It is planned to drill the well with both fresh water and brine water systems. Both types of waters will be hauled to the location by truck over existing roads. Both types will be obtained from commercial sources.
- 6. SOURCES OF CONSTRUCTION MATERIALS.
 - A. Any caliche required for construction of the drilling pad will be obtained from a pit located off of the wellsite. The pit is located in Section 17, T-24S, R-30E.
- 7. METHODS OF HANDLING WASTE DISPOSAL.
 - A. Drill cuttings will be disposed of in the reserve pits.
 - B. Drilling fluids will be allowed to evaporate in the reserve pits until the pits are dry.
 - C. Water produced during operations will be either placed in the reserve pits and allowed to evaporate or collected in tanks until hauled to an approved disposal system or a separate disposal application will be submitted to the USGS for appropriate approval.
 - D. Oil produced during operations will be stored in tanks until sold.
 - E. Human waste will be buried.
 - F. Trash, waste paper, garbage, and junk will be buried in a separate trash pit and covered with a minimum of 24" of dirt. All waste materials will be contained to prevent scattering by the wind.
 - G. All trash and debris will be buried or removed from the wellsite within 30 days after finishing drilling and/or completion operations.

Multi-Point Surface Use and Operations Plan H. B. 3 Federal No. 2 Page 3

8. ANCILLARY FACILITIES.

None required.

- 9. WELLSITE LAYOUT.
 - A. Exhibit G shows the dimensions of the well pad and reserve pits, and the location of major rig components.
 - B. The ground surface of the location is sloping down toward the northwest. Cutting will be required to level the pad area, which will be covered with at least six inches of compacted caliche.
 - C. The reserve pits will be plastic lined.
 - D. A 400' x 400' work area which will contain the pad and pit area has been staked and flagged.
- 10. PLAN FOR RESTORATION OF THE SURFACE.
 - A. After finishing drilling and/or completion operations, all equipment and other material not needed for further operations will be removed. The location will be cleared of all trash and junk, to leave the wellsite in as aesthetically pleasing a condition as possible.
 - B. Unguarded pits, if any, containing fluids will be fenced until they have been filled.
 - C. If the proposed well is non-productive, all rehabilitation and/or vegetation requirements of the Bureau of Land Management and the United States Geological Survey will be compiled with and will be accomplished as expeditiously as possible. All pits will be filled and levelled within 90 days after abandonment.

11. TOPOGRAPHY.

- A. The wellsite and access route are located in a hilly area.
- B. The top soil at the wellsite is sandy.
- C. The vegetation cover at the wellsite is moderately sparse, with prairie grasses, some yucca, and miscellaneous weeds.
- D. No wildlife was observed, but it is likely that rabbits, lizards, insects, and rodents traverse the area.
- E. There are not ponds, lakes, streams, or rivers within one mile of the wellsite.

Multi-Point Surface Use and Operations Plan H. B. 3 Federal No. 2 Page 4

- ---

- F. The wellsite is located on federal surface.
- G. There is no evidence of any archaeological, historical, or cultural sites in the vicinity of the location.
- 12. OPERATOR'S REPRESENTATIVES.
 - A. The field representative responsible for assuring compliance with the approved surface use plan are:

Dave Kilpatrick	Michael R. Burton
District Manager	District Drilling Engineer
Santa Fe Energy Operating	Santa Fe Energy Operating
Partners, L.P.	Partners, L.P.
500 W. Illinois, Suite 500	500 W. Illinois, Suite 500
Midland, Texas 79701	Midland, Texas 79701
915-687-3551 - office	915-687-3551 - office
	915-699-1260 - home
	915-683-1118 - mobile

13. CERTIFICATION.

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Santa Fe Energy Operating Partners, L.P., and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

SIGNED this 20th day of the benary, 1990.

Michael R. Buton

Michael R. Burton District Drilling Engineer

MRB:dw-2053

SANTA FE ENERGY OPERATING PARTNERS, L.P. OPERATIONS PLAN H. B. 3 Federal No. 2

- 1. Drill a 17-1/2" hole to 700'.
- 2. Run 13-3/8" 48.0 ppf H-40 casing. Cement with sufficient Class "C" cement containing 4% gel and 1/4# cellophane flakes to circulate to surface when followed by 200 sacks Class "C" containing 2% Calcium Chloride. Run Texas Pattern shoe on bottom and float collar one joint above shoe. Run centralizers on every other joint above shoe. Apply thread lock to bottom two joints, float collar and guide shoe.
- 3. Wait on cement six hours.
- 4. Cut off casing. Nipple up and install BOP system.
- 5. Test casing to 600 psi after cement has attained 500 psi compressive strength.
- 6. Drill a 12-1/4" hole to 3,100'.
- 7. Run 9-5/8" 40.0 ppf K-55 casing. Cement with sufficient lite weight cement followed by 200 sacks Class "C" Neat to circulate cement to surface. Centralize bottom 1000' of casing with one centralizer on every third joint above shoe. Run guide shoe on bottom and float collar two joints above shoe. Apply thread lock to bottom two joints, float collar and shoe.
- 8. Wait on cement six hours.
- 9. Cut off 13-3/8" casing head. Install 9-5/8" casing head. Install BOP stack and choke manifold.
- 10. Test BOP stack and choke manifold to 5000 psi. Test casing to 1500 psi.
- 11. Drill 8-1/2" hole to first good lime section after topping Wolfcamp. This is anticipated to be at 10,500'+.
- 12. Run logs.
- 13. Run 7" 23.0 ppf S-95, 26.0# S-95, and 29.0# N-80 casing. Cement with sufficient 50/50 Class H Poz cement containing 0.6% fluid loss reducer 6 pps salt to fill to 8000'. Run guide shoe on bottom and float collar two joints above shoe. Centralize bottom 1000' with centralizers placed on every other joint above shoe.
- 14. Nipple down BOP. Set slips. Cut off casing. Nipple up BOP.
- 15. Test BOP and choke manifold to 5000 psi.
- 16. Test casing to 2800 psi.

Operations Plan H. B. 3 Federal No. 2 Page 2

17. Drill 6" hole to 14,100'.

18. Run logs.

- 19. Run 4-1/2" 13.5 ppf S-95 liner to extend from 10,500' to 14,100'. Cement with sufficient Class "H" cement containing 0.6% fluid, 0.4% friction reducer, 0.6% gas block agent loss, and 5 pps KCl to circulate liner. Run float collar two joints above float shoe.
- 20. Blowout preventer equipment will be pressure tested to 5000 psi upon initial installation, anytime equipment is worked on or changed, and every 30 days, whichever is sooner.
- 21. Blowout preventer equipment including both pipe rams preventers, blind ram preventer, and valves on choke manifold will be rated at 5000 psi working pressure or greater.

,

Exhibit A Santa Fe Energy Operating Partners, LP H. B. 3 Federal No. 2 Section 3-24S-29E Eddy County, New Mexico

MRB:dw-2053



PROPOSED DRILLING FLUID PROGRAM

<u>0 - 700'</u>

Spud mud consisting of AQUAGEL flocculated with Lime. Use ground paper for seepage loss of fluid and KWIK-SEAL, FIBERTEX and Cottonseed Hulls for severe or total loss.

If total loss of circulation occurs, we suggest mixing two or three 150-200 barrel pills of viscous AQUAGEL/Lime mud treated with 10-15 ppb KWIK-SEAL and/or Cottonseed Hulls. If this does not regain circulation, we suggest drilling to casing point without returns and spotting a similar pill on bottom prior to logging and running casing.

700 - 3,100'

Drill out with brine water and treat with CON DET and BEN-EX/MF-1 to flocculate solids. Circulate controlled section of the reserve pit. Use ground paper for seepage loss. Use pre-hydrated AQUAGEL or ZEOGEL/paper slugs as needed to sweep hole. For corrosion control, use Sodium Bichromate.

3,100 - 10,500'

Drill out with fresh water or cut brine circulating a controlled section of the reserve pit using BEN-EX/MR-1 and CON DET for control of solids build up. The fluid weight in this interval should be 8.5 - 9.5 pH. Use ZEOGEL/ground paper or pre-hydrated AQUAGEL pills to sweep the hole free of cutting when needed and prior to trips. Use Lime for a 9.0 -9.5 pH. Use Sodium Bichromate at 600-800 ppm concentration for drill pipe and casing corrosion control.

The addition of MR-1/BEN-EX and CON DET may be used for control of solids build up. Use ZEOGEL/ground paper sweeps for seepage and additional hole cleaning. Should abnormal pressures be encountered in the Strawn formation an early mud up may be necessary.

10,500 - 14,100'

Prior to entering the Atoka, limit circulation to the steel pits and treat out hardness with Soda Ash. Lower filtrate to 10-15 cc with DEXTRID/PAC-R. Add XC Polymer for desired viscosity. Use BARIOD for density as dictated by hole conditions. This non-dispersed bipolymer system should have the following properties:

Weight:	To be dictated by hole conditions
Viscosity:	34-38 sec/1000 cc
Filter Loss:	10-15 ml
	Exhibit C Santa Fe Energy Operating Partners, LP H. B. 3 Federal No. 2 Section 3-24S-29E Eddy County, New Mexico

AUXILIARY EQUIPMENT

.-.-

. -

DRAW WORKS	National 80-B
COMPOUND/ENGINES	National 3 Section Compound Three Caterpillar D379 diesel engines.
ROTARY	27-1/2" National C-275
MAST/SUBSTRUCTURE	Derrick Service International 142' jackknife. 25' high substructure.
TRAVELLING EQUIPMENT	National 545-G 350 ton hook and block. National P-400 400 ton swivel.
PUMPS	Two National 8-Р-80, 6-1/4" x 8-1/2" 800 HP triplex pumpв charged by 6" x 8" centrifugal pump.
PIT SYSTEM	Three steel mud pits with lightning mixers. Two 6" x 8" centrifugal pumps each driven by a 75 HP electric motor.
GENERATORS	Two 320 KW AC generators each powered by a turbocharged diesel engine.
BOP EQUIPMENT	One annular and two ram preventers rated at 5000 psi. Choke manifold rated at 5000 psi.

Exhibit D Santa Fe Energy Operating Partners, LP H. B. 3 Federal No. 2 Section 3-24S-29E Eddy County, New Mexico

MRB:dw-2053

.....



EXHIBIT E

SANTA FE ENERGY OPERATING PARTNERS, LP. HB "3" Fed #2 1980' FEL & 660' FNL, Sec 3, T 24 S, R 29 E EDDY CO., NEW MEXICO R 29 E

R 29 E							
aco 98	19,271 Eqsilord H 19,271 H No. 4 11-1-002 Jul Mis 5 1911 - 1 Common	(IN 16,344)	7-1-91	LJ	r:::::: F B 3135: L→ () W C.Disc [5 (54) F 7::::::::::::::::::::::::::::::::::::	Ĺ	
™ etai Mins zs* le	HR. Perci Santa F. Santa F. Sintar. 5. 1 20 Santa F. Sintar. 6. 1 20 Santa F. Sintar. 6. 262 Santa Santa KG3 U S Kas	August 123 ser 22 Sunte fe Sontpire For 21 Kaser 2 Kaser 2 Kas			järmusa 200 m Umili Sigir	7	
Texac	Exxon isees	Exton M8P (K65 19848 (Exton Laguno	NDStoval I (200) Idestand (200) 21-82 47-03 47-03 47-03 43-19 353 12 865 865	5 x x 0 % 7 x - 5 6 6 4 27 2 35 24 8 65	Texaco ⁴ 2 Richardson Oils, etal ¹⁴ 2 H 8 P E 5394	7	
0	29 (1.3 Mil	28 Use and a second sec	27 *Laguna Selado Se Unit*	26 N & H ^M Y ^M	25	, T	
D G Herrich Trotal S tytestic	"Leguno Grunde Unit	Exanor Bunarmare Stradi D'agris ad	ACINA GRA 6400 1213900	٤. ٤.	State	23 'S	
	Santa Fe Ener. 12 - 69 V:266 765 63 WY 11,192	E K K K K K K K K K K K K K K K K K K K	Exton H8P 13848	Santo Fe Ener M 114376 61584 2239 KGS	Fichardson Oils, etal in HBC exacting E Stat		
Texaco HBP	12-1- 89 32	33	34	3-1-90 3-1-90 35-11-1-91,' KGS	36	: : 2:	
1.714 94	Texaco HOP				tu E Ercut	3	
<u></u>	Fecasia ey Land Ca. 15tafe 1997 Alisa riyst 11145 Texoco	2 3 19942 2051 90512 10512		575 U S 1570 - 235 66 - 13867 - 213858 Sonta Feitner:		1	
(NH Z3,01)	HBP	t Yates Pet	Nf 10,925: - weiner, eral 1-31-90 + Hille:	нь ≭ив	012: 401-7 144 142 Sorto frither 454 500 432 19 K65 1 14,472 3-31-91		
1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	DS Harrown, Trieta' Seley Lond Se	5	Soniafe Ener M 11,190385 H 12 Mil. "Fed."	2	19 <u>5-5-5</u> 19 <u>5-5-5</u> 1 8-78-5	ta'	
STRAC STR	57262 865 J-11-91	NM 21,104 9-1-93	500170 HOENER 8-81 53373 5/1 1-3485 4:55 HBC MM 9570	51=14	<u>j</u>		
1200 - 12	Texaco enneco 4 - 90 - 495 235370 38635 - Enron - 55282 - Enron - 5528 -	Santa Fe Ener. 9 + 1 + 93 77017 165 92	Marale 60월 1 - He Feder Calques Morr Disc.	Enron 66430 250 ⁹ AGS NM 16,345 7-1-91 6107 70 40 69	Exton 5 - 9:	5 	
		9 5 10 <td>Sternen erenn Dens Hens Hens Hant Control Sterne HBC Sterne formation Hens</td> <td>Enron 4493 4493 5antaite Sour 5antaite Sour 1-31-90</td> <td>Exxon 7 1 31 66431 163-12 163-12 163-12 163-12 163-12 163-12 1 1 1 1 1 1 1 1 1 1 1 1 1</td> <td>24 S</td>	Sternen erenn Dens Hens Hens Hant Control Sterne HBC Sterne formation Hens	Enron 4493 4493 5antaite Sour 5antaite Sour 1-31-90	Exxon 7 1 31 66431 163-12 163-12 163-12 163-12 163-12 163-12 1 1 1 1 1 1 1 1 1 1 1 1 1	24 S	
	Texaco 39635	Exxon (2 92 3 44 23 3 44 24 3 44 24 44 24 44 44 24 44 44 44 44 44 44 44 44 44 44 44 44 44	(AM 16 246	460 K35 - 5	С. 5 Еххол 3 ' 5: (S.:heres-6' 65405 (6.12) 2205 (635)2 КС5 ИВL	17 	
3		16 16	15	ουστη σύν. Disc. Pig 9-25-87 14	1, 3	74	
: 5 Ngi ngiya te etal Mi Ngi ngiya te etal Mi Mgi 13 ningi	3 nt 2 n 2 n 2 n 2 n 2 n 2 n 2 n 2 n 2 n			÷ 3	8	7	
te as	Constant Consta	Texato (Prilips - H & F Texato 2 55 - H & F Texato 20035 - HANY - 116510 - 30655 - 10035 - HANY - 1	D S Harroun, Tr., and Atrin Pecas in egy and to U.S. Collins E. ware	Caluns E, Wate 250 00	Collins E. Fichardson Gil Wate I E Licker 250 00	מ	
<u>`</u> ,∰. //	Curren 20 065530	City of Carles tad	Cortsbood 20		1 24		

EXHIBIT F

·····

SANTA FE ENERGY OPERATING PARTNERS, LP. HB "3" Fed #2 1980' FEL & 660' FNL, Sec 3, T 24 S, R 29 E EDDY CO., NEW MEXICO



**