(November 1983)	N.M. OIL CQ Р.O. BOX 1980⊤ НОЭВС МЕЙ М	ED STATES	Other instru. reverse si	LICATE*	BU-D25- Form approved. Budget Bureau Expires August	No. 1004-0136
	BUREAU OF	LAND MANAGEN		:	5. LEASE DEBIGNATION	
APPLICATION	FOR PERMIT T	O DRILL, DEI	EPEN, OR PLUG B	ACK	6. IF INDIAN, ALLOTTE	OR TRIBE NAME
a. TYPE CF WORK	LL 🖾 🕴 🖓		·····	·	7. UNIT AGREEMENT N	
OIL TY GA		10033	SINGLE MULTIP		8. FARM OR LEASE NA	¥8
	Fe Energy Opera	ting Partners	f		White Swan "9 9. WELL NO.	9" Federal
ADDRESS OF OPERATOR 550 W.	Texas, Suite 1	330 Madland	Towns 70701		5	
. LOCATION OF WELL (Be	port location cientiy and				10. FIELD AND POOL, C	idge, E. (Dela
At surface 230 (G), 1980' At proposed prod. zon	FNL and 1980'	FEL, Sec. 9,	T-22S, R-32E		AND SURVEY OR AN	BLE.
					Sec. 9, T-22	
	utheast of Half				12. COUNTY OF PARISH Lea	1 13. STATE NM
5. DISTANCE FROM PROPU	SED*		NO. OF ACRES IN LEASE		ACRES ASSIGNED	
LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig	INE, FT. . unit line, if any)	1980'	540		40	
S. DISTANCE FROM PROP TO NEAREST WELL, DE OR APPLIED FOR, ON THE	RILLING. COMPLETED.	19 1320'	. PROPOSED DEPTH 8800'	i _	tary	
1. ELEVATIONE (Show whe 3793'	· · · · · · · · · · · · · · · · · · ·				22. APPROL. DATE WO DECEMBER October 31,	
3.		PROPOSED CASING	AND CEMENTING PROGRAM	M Sec	retury's Pota	sh:
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH		QUANTITY OF CEME	NT
17-1/2"	13-3/8"	48.0	600'	600 sx	to circulate	2
<u> 12-1/4''</u>	8-5/8"	32.0	4500'		x to circulat	
/-//8	5-1/2"	15.5 & 17.0	8800'	To tie	back to 4500	<u></u>
productive, 5- plugged and al programs as pr attachments: Drilling Exhibit A Exhibit A Exhibit A Exhibit A	-1/2" casing wi bandoned in a ma er Onshore Oil a	ll be cemented anner consist and Gas Order Plan ke uid Program quipment	Exhibit G - V Surface Use a	producti Regulati ed in th Plat Sho Well Sit	ve, the well ons. Specifi e following OPER.OGRI PROPERTY N wi POOK DODE e Layout ations Plan -	will be lc NO. 020291 NO. 10005 Wells 3936
one. If proposal is to reventer program, if any 4. SIGNED Dary	drill or deepen directiona		or plug back, give data on p ta on subsurface locations an 	nd measured		hs. Give blowout
PERMIT NO			APPROVAL DATE			
APPROVED BY	W. Dit		puring			1.6 1994
APPROVED BY	W. Dife			GENE	DATE FEB IVAL SUBJECT TO TAL REQUIREMENT AL STIPULATIONS	rs and

*See Instructions On Reverse Side

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 as sepresentations as to any matter within its jurisdiction.

R.S. OF. CO. JORNALSSON

R.G. S.S. H. H0822, 92...

Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

.2 a - a

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No.

NM-77057

6. If Indian. Allottee or Tribe Name

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to deepen or reentry to a different reservoir. Use "APPLICATION FOR PERMIT-" for such proposals

SUBMIT IN	ITRIPLICATE	7. If Unit or CA, Agreement Designation
Type of Well X Well Well Well Other		8. Well Name and No. White Swan 9 Federal #5
Santa Fe Energy Operating Par Address and Telephone No	9. API Well No. Not yet assigned	
550 W. Texas, Suite 1330, Mid 4 Location of Well (Footage, Sec., T., R., M., or Survey Description) (G), 2130' FNL and 1980' FEL, Sec.	ption)	10. Field and Pool. or Exploratory Area Livingston Ridge, E. (Del 11. County or Parish, State
	TO INDICATE NATURE OF NOTICE. RE	Lea Co., NM PORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACT	ION
Notice of Intent Subsequent Report Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other Move location	Change of Plans Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
		instructions from

The new location is 2130' FNL and 1980' FEL, Sec. 9, T-22S, R-32E.

hereby cefulfy that the foregoing a true and correct	her true	Sr. Production Clerk	Date	1/26/94
(This space for Federal or State office use)	$\overline{\bigcirc}$			<u></u>
Approved by	Title		Date	

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 Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

P.O. Box 1980, Hobbs, NM 88240

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT I

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the soction

Operator SAN	NTA FE ENERGY	r RESOURCES	Lease WHITE SWAN 9	FEDERAL	-	Well No. 5
Unit Letter	Section	Township	Range		County	
G	9	22 SOUTH	32 EAST	NMPM		LEA
Actual Footage Loc	ation of Well:					
		RTH line and	1980	feet from	the EAST	11110
Ground Level Elev			Pool			Dedicated Acreage:
3795.1'		aware	Livingston Ridge			40 Acres
I. Outline the ad	creage dedicated to	the subject well by colored p	pencil or hachure marks on the	plat below.		
2. If more than	one lease is dedic	ated to the well, outline each	and identify the ownership the	ereof (both	as to workin	g interest and royalty).
unitization, fo	one lease of differ orce-pooling, etc.?	•	o the well, have the interest of	all owners	been consoli	idated by communitization,
🗌 Yes	No No	If answer is "yes" type (· · · · ·		<u> </u>
If answer is no this form necess	list of owners a	nd tract descriptions which	have actually been consolidated	. (Use reve	rse side of	
No allowable w	ill be assigned to	the well unit all interest	s have been consolidated (b)	y commun	itization, ur	utization, forced-pooling,
Seller wise) or U	nui a non-standa	ru unit, enminating such i	nterest, has been approved by	the Divisio		
			1		OPERAT	OR CERTIFICATION
	1					by certify the the information
						rin is true and complete to the voledge and belief.
			l I			
	ł				Signature	Malulloud
		-OF		17	Printed Nam	1 Martin Marx
	1	2			Terry M	cCullough
F----	+	· — — — — — +/ +-/ ++/ ++	·++/-+/+/-+/		Position	
	1	X	1		Sr. Prod	uction Clerk
	l	í í	1		Company	Santa Fe Energy
	ł	X 3793.3 <u>–</u>			<u>Operatin</u>	g Partners, L.P.
			1980'		Date	- 26 100/
	1	X	Y Y		Januar	y 26, 1994
	1	3797.7	3798.8'		SURVEY	OR CERTIFICATION
		//////////////////////	/ // / //		T herebu certii	y that the well location shown
	1		1			as plotted from field notes of
	1		1			made by me or under my
	1		1			nd that the same is true and he best of my knowledge and
	l		i	11	belief.	······································
	1		i i		Date Survey	ed
	1		1			MBER 10, 1993
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	1		1		Ceptilicase	No. 1044 W. WET. 878
L	1	<u> </u>				10. 100 W 100 T. 878
						TY L JONES. TOTT
0 330 660	990 1320 1650	1980 2310 2840 20	00 1500 1000 500	Ó	9	3-11-2266

LOCATION VERIFICATION MAP



CONTOUR INTERVAL

BEC9	_ TWP	22S	RGE.	32E
SURVEY	N.M.	P.M.		
	LEA		STATE	N.M.
DESCRIPTION	2130'	FNL	& 1980	FEL
	3795.	1'		
OPERATOR	SANTA	FE EN	ERGY RI	SOURCES
LEASE WI	HITE SW	AN 9	FEDERAI	. #5
ILB.G.S. TOPO	GRAPHIC	мар		
T	HE DIVI	DE, N	.м.	

JOHN WEST ENGINEERING HOBBS, NEW MEXICO (505) 393-3117

DRILLING PROGRAM SANTA FE ENERGY OPERATING PARTNERS, L.P. White Swan "9" Federal No. 5

In conjunction with Form 3160-3, Application to Drill the subject well, Santa Fe Energy Operating Partners, L.P., submits the following ten items of pertinent information in accordance with Onshore Oil & Gas Order No. 10.

- 1. Geologic Name of Surface Formation: Alluvium
- 2. Estimated Tops of Significant Geologic Markers:

Rustler Anhydrite	875`
Base of Salt	4450'
Delaware Lime	4775'
Delaware Sand	4850'
Cherry Canyon	5800'
Brushy Canyon	7000'
Bone Spring	8720'
Total Depth	8800'

3. The estimated depths at which water, oil, or gas formations are expected:

Water	None expected in area
Brine	Salt Section @ ± 3300 '
Oil	Delaware @ 7200'-8000'

- 4. Proposed Casing Program: See Form 3160-3 and Exhibit A.
- 5. Pressure Control Equipment: See Exhibit B.
- 6. Drilling Fluid Program: See Exhibit C.
- 7. Auxiliary Equipment: A mud logging unit will be utilized to monitor penetration rate and hydrocarbon shows while drilling below the intermediate casing at 4500'.
- 8. Testing, Logging and Coring Program:

Drill Stem Tests: (all DST's to be justified on the basis of a valid show of oil or gas):

No Drill Stem Tests Planned.

DRILLING PROGRAM

White Swan "9" Federal No. 5 Page 2

Logging:

Dual Laterolog w/MSFL and Gamma Ray	4500'- 8800'
Compensated Neutron/Litho-Density/Gamma Ray	4500'- 3800'
Compensated Neutron/Gamma Ray (thru csg)	Surface-4500'

Coring: \pm 25 Rotary Sidewall Cores taken at different intervals in Delaware.

9. Abnormal Conditions, Pressures, Temperatures, & Potential Hazards:

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature is 135 \degree F and the estimated bottom hole pressure is 3500 psi. It has been reported that some offset wells encountered brine water flows and associated H₂S from the Salt Section at around 3300'. Brine rates have been 200-300 barrels per hour and H₂S was measured at 60 ppm. Lost circulation has also been experienced while drilling the Salt Section at approximately 3800'. We have enclosed a Hydrogen Sulfide Drilling Operations Plan to address the potential situation.

10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the BLM. The anticipated spud date is October 31, 1993. Once spudded, the drilling operation should be completed in approximately 18 days. If the well is productive, an additional 30 days will be required for completion and testing before permanent facilities are installed.

SANTA FE ENERGY OPERATING PARTNERS, L.P. OPERATIONS PLAN White Swan "9" Federal No. 5

- 1. Drill a 17 1/2" hole to approximately 600'.
- Run 13 3/8" 48.0 ppf H-40 ST&C casing. Cement with 600 sx Class "C" cement containing 2% CaCl₂. Run centralizers on every other joint above the shoe. Apply thread lock to bottom two joints and guide shoe.
- 3. Wait on cement four hours prior to cutting off.
- 4. Nipple up a annular BOP system with a rotating head and test casing to 600 psi. WOC 18 hrs prior to drilling out. Rig up H_2S monitoring equipment prior to drilling out.
- 5. Drill a 12 1/4" hole to approximately 4500'.
- 6. Run 8 5/8" 32.0 ppf K-55 ST&C casing. Cement with 1800 sx Cl "C" Lite containing 12 pps salt and 1/4 pps celloflake followed by 500 sx Class "C' with 2% CaCl₂. Run guide shoe on bottom and float collar two joints of bottom. Centralize every other joint for bottom 400' of casing and place two centralizers in surface casing. Thread lock bottom 2 joints. (If lost circulation is very severe, two stage cementing utilizing a stage collar and external casing packer will be considered to enable us to circulate cement to the surface.)
- 7. Wait on cement for six hours prior to cutting off.
- 8. Nipple up and install a 3000 psi. Double Ram and Annular BOP system with choke manifold. WOC 18 hours prior to drilling out.
- 9. Test BOP system to 3000 psi. Test casing to 1500 psi.
- 10. Drill 7 7/8" hole to 8800'. Run logs.
- 11. Either run and cement 5 1/2" 15.50 & 17.0 ppf K-55 LT&C casing or plug and abandon as per BLM requirements.

Exhibit A Santa Fe Energy Operating Partners, L.P. White Swan "9" Federal No. 5 Section 9, T-22S, R-32E Lea County, New Mexico

DDR/TJM:WS95

