	N.I	M. OIL OP	ER. OG	RID NO. <u>スとう</u>	<u>, </u> , <u>,</u>	-	
Form 3160-3		BOX PR	OPERT	VNO 1-2-31	$, \frown$		PPROVED 1004-0136
1.10 - 121	Uind	ARS A		0.21			mary 28, 1995
	DEPARTMENT	_	OL CO	DE <u>32/3-</u>		5. LEASE DEBIUNATI	ON AND BEBIAL NO.
	BUREAU OF	LAND EF	F. DATE	4/10/0	<u>Plos</u>	NM-87274	
APPL	ICATION FOR PI	ERMIT AP	I NO	31.1.25-	33375	G. IF INDIAN, ALLOT	TES OR TRIBE NAME
la. TYPE OF WORK DF b. TYPE OF WELL	RILL 🗵	DEErcin		gar for a good and	الها الت	7. UNIT AGREEMENT	NAMB
OIL WELL	GAS WELL X OTHER			INGLE MULT		8. FARM OR LEASE NAME	Com
. NAME OF OPERATOR			<i>*</i> -	*		Topaz "30" ?e	No. 1
Santa Fe Energy 3. Address and telephone no	Resources, Inc.					9. API WELL NO.	
	Suite 1330; Midlan	d Toyac 7	9701	(915)682-637	2	10. FIELD AND POOL	OR WILDCAT
4. LOCATION OF WELL ()	Report location clearly and				<u> </u>		Lynch -
At surface (E) 1980' FNL	& 660' FWL					11. SEC., T., R., M., C AND SURVEY OR	R BLK.
At proposed prod. zo		11 -	$1 \in \mathbb{C}^{+}$				
		2011	<u>t c</u>			Sec. 30, T-20-	
	AND DIRECTION FROM NEAR		IST O FFIC	E		12. COUNTY OR PARI	
5. DISTANCE FROM PROP			16. N). OF ACRES IN LEASE	17. NO.	OF ACRES ASSIGNED	New Mexico
LOCATION TO NEARES PROPERTY OR LEASE	ST Line, FT.	660′		240		THIS WELL	20
S. DISTANCE FROM PRO			- 19. PI	ROPOSED DEPTH	20. ROT.	ART OR CABLE TOOLS	
TO NEAREST WELL, or applied for, on ti	DRILLING, COMPL ETED, HI S LEASE, FT.	None		14,000		Rotary	
1. ELEVATIONS (Show w	hether DF, RT, GR, etc.)						WORK WILL START*
3674′ GR						March 2	9, 1996
3.		PROPOSED CA	SING ANI	CEMENTING PROGR	АМ 🚺 🗍	ALP Patan	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER	FOOT	SETTING DEPTH		QUANTITY OF CEM	ENT
SIZE OF HOLE	GRADE, SIZE OF CASING H-40 20"	wеідит рек 94.0	FOOT	450'		QUANTITY OF CEM	
			FOOT		750		te
26"	H-40 20"	94.0	F00T	450'	750	sx to circula	ite ite
26" 17 1/2" 11" 7 7/8"	$ \begin{array}{r} H-40 & 20" \\ \hline S-80 & 13 & 3/8" \\ \hline K-55 & 8 & 5/8" \\ \hline N-80 + S-95 & 5 & 1/2 \end{array} $	94.0 68.0 32.0 " 17.0		450' 3300' 5200' 14000'	750 2600 TOC Stag) sx to circul.a) sx to circul.a @ 3100' 200' i ye collar @ 100	te nside 13 3/8' 00' TOC @ 480
26" 17 1/2" 11" 7 7/8" We propose t productive, plugged and	H-40 20" S-80 13 3/8" K-55 8 5/8"	94.0 68.0 32.0 2" 17.0 h sufficie l be cemen nner consi	nt to ted at	450' 3300' 5200' 14000' test the Morrow TD. If non-pr with Federal Re	formation ductive gulation) sx to circul.a) sx to circul.a @ 3100' 200' i ye collar @ 100 ion for gas. I e, the well will ns. Specific p	te nside 13 3/8' 00' TOC @ 480 f 1 be
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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.

J

DISTRICT I P. O. Box 1980 Hobhs, NM 88241-1980

DISTRICT II

P. O. Drawer DD Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brozos Rd. Aztec, NM 87410

<u>DISTRICT IV</u> P. O. Box 2088 Sonta Fe, NM 87507-2088 State of New Mexico Enf 7, Minerals, and Natural Resources Γ fortment

Form C-102 Revised 02-10-94

Instructions on back

Submit to the Appropriate District Office State Lease — 4 copies Fee Lease — 3 copies

AMENDED REPORT

OIL CONSERVATION DIVISION P. O. Box 2088 Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

* Property Code * Property Name TDPAZ "30" FEDERAL * Well Number * OGRID No. * Operator Name * Operator Name * Elevation * 2 L 3 (1 API Number		3275	² Pool Code		3 Poo	l Name	l	l Ouail Ridge	Morrow		
'OCEUD No. * Operator Name SANTA FE ENERGY RESULACES, INC. * Elevation 'SURFACE LOCATION 'SURFACE LOCATION * SURFACE LOCATION 'Ut or lot no. Section Township Range Lot lide Feet from the North/South line Peet from the Bait/West line County ''BOTTOM HOLE LOCATION IF DIFFERENT FROM SURFACE ''Bottor Infill ''Consolidation Code ''Order No. ''Dedicated Acres ''Joint or Infill ''Consolidation Code ''Order No. ''Order No. 320 NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION ''Dedicated Acres ''Joint or Infill ''Consolidation Code ''Order No. 320 NO ALLOWABLE WELL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION ''Dedicated Acres ''Joint or Infill ''Consolidation Code ''Order No. 1980' ''DERATOR CERTIFICATION ''Level'''''''''''''''''''''''''''''''''	* Property Co	operty Code 5 Property Name										
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<u>Topaz "30" Fed Com #1</u> - W/2 Sec 30

	WI Ownership	<u>WI%</u>	NRI%
Bureau of Land Management NM-86168	SFERI	100.00	75.00
Lot 1, NE/4NW/4 T-20-S, R-34-E	RI% = 12.5	Other Burdens	% = 12.5
Bureau of Land Management NM-87274	SFERI	100.00	75.00
Lot 2, 3, 4, SE/4NW/4, E/2SW/4 T-20-S, R-34-E	RI% = 12.5	Other Burdens	% = 12.5

DRILLING PROGRAM

SANTA FE ENERGY RESOURCES, INC.

Topaz "30" Fed No. 1

In conjunction with Form 3160-3, Application to Drill the subject well, Santa Fe Energy Resources, Inc. submits the following ten items of pertinent information in accordance with Onshore Oil & Gas Order No. 1.

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

Rustler Anhydrite 1,490' 1,630' Top of Salt Base of Salt 3,130' 3,310' Vates 5,400' Delaware Bone Spring 8,350' 1st Bone Spring Sand 9,350' 11,250' Wolfcamp Strawn 12,250' 12,500' Atoka Morrow 12,850' Lower Morrow 13,400' Total Depth 14,000'

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

Water	None expected in area
Oil	Bone Spring 9400'-9500'
Gas	Morrow 13,300'-400'

- 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 casing point at 5200.
- 8. Testing, Logging and Coring Program:

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

Bone Spring	9400′-9500′
Morrow	13300'-13400'

Logging:

Dual Laterolog W/MSFL and Gamma Ray	5200 ′- 14000′
Compensated Neutron/Litho-Density/Gamma Ray	5200′-14000′
Compensated Neutron/Gamma Ray (thru csg)	Surface-5200'
Borehole Compensated Sonic	5200′-14000′
Phasor Induction/SFL/Gamma Ray	5200′-14000′
Coring: No conventional cores are planned	

DRILLING PROGRAM Topaz "30" Fed No. 1 Page 2

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

No abnormal pressures or temperatures are anticipated. The estimated bottom hole temperature is 190 degrees Fahrenheit and the estimated bottom hole pressure is 5900 psi. No Hydrogen Sulfide or other hazardous gases or fluids have been encountered in offset wells, but it is reported to exist in the Yates formation, therefore we are submitting a Hydrogen Sulfide Drilling Operations Plan to cover the unlikely event. No major lost circulation zones have been reported in the offsetting wells.

10. Anticipated Starting Date and Duration of Operations:

Road and location work will not begin until approval has been received from the B.L.M. The anticipated spud date is <u>March 29, 1996</u>. Once spudded, the drilling operation should be completed in approximately 45 days. If the well is productive, an additional 30 days will be required for completion and testing before permanent facilities are installed.

OPERATIONS PLAN

SANTA FE ENERGY RESOURCES, INC.

Topaz "30" Fed No. 1

- 1. Drill a 26" hole to approximately 450'.
- 2. Run 20" 94.0 ppf J-55 BT&C casing. Cement with 550 sx Class "C" Lite + 2% CaCl₂ and tail-in with 200 sx Class "C" + 2% CaCl₂. Cement utilizing an inner string cement job. Run centrailizers on every third joint above the shoe. Apply thread lock to bottom two joints and stab-in float shoe.
- 3. Wait on cement twelve hours prior to cutting off. Nipple up a annular BOP system or rotating head and test casing to 600 psi. Wait on cement twenty-four hours prior to drilling out.
- 4. Drill a 17-1/2" hole to approximately 3300'. T.D. should be at least 100' below the base of the Salt.
- 5. Run 13-3/8" 68.0 ppf S-80 BT&C casing. Cement with an estimated 2400 sx Class "C" Lite (35:65:6) + 9 pps Salt + 1/4 pps cello-flakes and tail-in with 200 sx Cl "C" +2% CaCl₂ to circulate to surface. A fluid caliper should be run prior to reaching TD and the cement volumes adjusted to fluid caliper volume + 30% excess. Run guide shoe on bottom and float collar one joint above shoe. Apply thread lock to bottom two joints, float collar and shoe. Place 15 centralizers one on every third collar, starting with the shoe joint.
- 6. Wait on cement 12 hours prior to cutting off. Cut off 20" casinghead. Orange peel 20" casing back to 13-3/8" casing, weld on 13-3/8" casinghead. NU an annular preventer BOP system. Test casing to 600 psi. WOC 24 hours prior to drilling out. Rig up H₂S monitoring equipment for the drilling of the Yates Section.
- 7. Drill a 11" hole to approximately 5200'.
- 8. Run 8-5/8" 32.0 ppf K-55 ST&C casing. Cement with 600 sx Cl "C" Lite containing 6 pps gilsonite & 1/4 pps cello-flakes followed by 400 sx Class "C" with 2% CaCl₂ to circulate cement at least 200' inside the 13-3/8 casing. Run guide shoe on bottom and float collar two joints off bottom. Place 18 centralizers one on every third collar, starting with the shoe joint. Thread lock bottom 2 joints.
- 9. Wait on cement for twelve hours prior to cutting off.
- 10. Nipple up and install a 5000 psi. Double Ram and Annular BOP system with choke manifold. Test BOP system to 5000 psi. Test casing to 1500 psi. Wait on cement twenty-four hours prior to drilling out. Release H₂S monitoring equipment.
- 11. Drill 7-7/8" hole to 14000'. Run logs.
- 12. Either run and cement 4000' of 5-1/2" 17.0 ppf S-95 LT&C casing followed by 10000' of 5-1/2" 17.0 ppf N-80 LT&C in two stages with a stage collar at approximately 10000' to bring cement to at least 200' inside the 8-5/8" casing or plug and abandon as per BLM requirements.

Exhibit "A" Santa Fe Energy Resources, Inc. Topaz "30" Fed Com No. 1 Section 30, T-20-S, R-34-E Lea County, New Mexico

<u>0 - 450'</u>

Spud mud consisting of fresh water gel flocculated with Lime. Use ground paper for seepage control and to sweep the hole. MW-8.5 ppg and Vis-40.

450 - 3300'

Drill out with brine water circulating the inner portion of the reserve pit. Utilize ground paper mixed in prehydrated fresh gel to sweep the hole. MW-10.0 ppg and Vis-28.

3300 - 5200'

Fresh water - using paper in pills to sweep the hole. MW-8.3 ppg and Vis-28.

<u>5200' - 14000'</u>

Drill out with cut brine (30,000 ppm chlorides minimum) circulating the outer portion of the reserve pit. Maintain pH at 8.5-9.5 with caustic and sweep the hole as necessary with ground paper. If it becomes necessary to mud up due to hole conditions, utilize a cut bine/Drispac system for 15-20 WL and a Vis of 30-32. MW-8.5/8.9 ppg. At approximately 12000', displace with 10.0 ppg brine and mud-up with XCD polymer and Drispac for 32-35 vis and 15-20 WL, pH 9.0-9.5.

Exhibit "C" Santa Fe Energy Resources, Inc. Topaz "30" Fed No. 1 Section 30, T-20-S, R-34-E Lea County, New Mexico



Hobbs Dor



