Form 3160-3 (July 1992)		ED STATE	ES	SUBNIT IN 1 (Other Instr ARTESIA, NIN FORENS	ucti)n	E• FORM APPROVED OMB NO. 1004-0136 Expires: February 28, 1995
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2. NAME OF OPERATOR		EC D	T			- TNT "6" Fed Com #1
3. ADDRESS AND TELEPHONE 550 W/ Texas	No. Suite 1330; Midland, Tex	F3 Up	51682 6	NC 2030,	5	30-015-31712
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3691' GR	· · · · · · · · · · · · · · · · · · ·	·····				July 15, 2000
3.		PROPOSED CAS	ING AN	D CEMENTING PROGRA	м	
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<u> </u>	<u>K-55 8 5/8"</u> K-55 4 1/2"	<u>24.0 & 32.0</u> 2650' 11.60 10700'			750 sx to circulate 1050 sx for TOC @ 5000'	
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Drilling Program				-		howing Existing Wels A
Exhibit B - B	OP and Choke Schematic			Exhibit	G - Well S	Site Layout
Exhibit D - Au	rilling Fluid Program uxiliary Equipment opo Map at Location			Surfac	e Use and	I Operations Plans B Operations Plans B OCD ARIESIA
			P 12			
	ler Corp. accepts all applic acerning operations condu					
ABOVE SPACE DESCR		proposal is to deepen, is and measured and t	give data rue vertica	BLM Bond File No.: UT	T-0855 and proposed	d new productive zone. If proposal is to drill or if any
SIGNED James	3"Ghl" Atim			Agent for Santa Fe Sny		M 14 7211
	deral or State office use)					
-						
PERMIT NO	s not warrant or certify that the app			le to those rights in the subject		ould entitle the applicant to conduct operations thereon.
APPROVED BY						
		*See Instru	ctions	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 Urited States any false, fictitious or fraudulent statements or representations as to any matter within its periodiction.

BLM BLM NUL IS 2000 RECEIVED

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-- - - **2** DISTRICT 1 1825 N. French Dr., Hobbs, NM 55240 DISTRICT II 811 South First, Artesia, NM 88210

DISTRICT III

100) Rio Brazos Rd., Aztec, NM 87410

DIS TRICT IV 2041 South Pacheco, Santa Fe, NM 67505

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102 Revised March 17, 1999

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

(1516727)

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OIL CONSERVATION DIVISION

2040 South Pacheco Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

MAMENDED REPORT

API Number Pool Code Pool Name Empire Morrow South (Morrow) **Property** Code Property Name Well Number TNT "6" FEDERAL COM 1 OGRID No. Operator Name Elevation 20305 DEVON SFS OPERATING, INC. 3696' Surface Location U., or lot No. Range Section Township Lot Idn Feet from the North/South line Feet from the East/West line County 0 6 17 S 29 E 660 SOUTH 1980 EAST EDDY Bottom Hole Location If Different From Surface U. or lot No. Lot Idn Feet from the Section Township Range North/South line Feet from the East/West line County **Dedicated Acres** Joint or Infill **Consolidation** Code Order No. 320 NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION OPERATOR CERTIFICATION I hereby certify the the information contained herein is true and complete to the best of my knowledge and beijef. E.I. Bittin E.L. Buttross, Printed Name Operations Engr. Advisor Title 1/17/01 Date SURVEYOR CERTIFICATION 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 supervison, and that the same is true and correct to the best of my belief. -5londery 2001 Lat - N32"51'29.4" 10NES Date Serveyed Lon - W104'06'43.5' Signiture & Seal of Propessional Surveyor 3711.5 3698.4 1980 No. 0733 3694.9 3685.9 Certific No S Gary 7977 ones BASIN SURVEY S

DRILLING PROGRAM

SANTA FE SNYDER CORP.

TNT "6" Fed Com No.1

In conjunction with Form 3160-3, Application to Drill the subject well, Santa Fe Snyder Corp. 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:

Tubb	5100'
Abo	5800'
Wolfcamp	7000'
Atoka	9000'
Morrow	10100'
Mississippian	10600'
Total Depth	10700'

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

Water	None expected in area
Gas	Atoka - Morrow @ 9000'- 10500'

- 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 1150' to TD.
- 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):

Atoka - Morrow 9000'- 10500'

Logging:

Dual Laterolog W/MSFL and Gamma Ray	2650' - 10700'
Compensated Neutron/Litho-Density/Gamma Ray	2650' - 10700'
Compensated Neutron/Gamma Ray (thru csg)	Surface-2650'

Coring: No conventional cores are planned.

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

No abnormal pressures are anticipated. The estimated bottom hole temperature is 145° and the estimated bottom hole pressure is 4400 psi. No Hydrogen Sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major lost circulation zones have been reported in the offsetting wells.

TNT "6" Fed Com No.1 Page 2

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>July 15, 2000</u>. Once spudded, the drilling operation should be completed in approximately 25 days. If the well is productive, an additional 30 days will be required for completion and testing before permanent facilities are installed.

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EXHIBIT A OPERATIONS PLAN SANTA FE SNYDER CORP. TNT "6" Fed Com No.1 Section 6, T-17-5, R-29-E Eddy County, New Mexico

- 1. Drill a 17-1/2" hole to approximately 350'.
- 2. Run 13-3/8" 48.0 ppf H-40 ST&C casing. Cement with 350 sx Class "C" cement containing 2% $CaCl_2$. Run centralizers on every other joint above the shoe. Apply thread lock to bottom two joints and guide shoe.
- 3. Wait on cement twelve hours prior to cutting off.
- Nipple up an annular BOP system and test casing to 600 psi. WOC twentyfour (24) hours prior to drilling out.
- 5. Drill a 11" hole to approximately 2650'.
- 6. Run 2650' 8 5/8" 24 & 32 ppf J-55 ST&C casing. Cement with 550 sx Cl "C" Lite containing 1/4 pps celloflake followed by 200 sx Class "C" with 2% CaCl₂. Run guide shoe on bottom and float collar two joints from bottom. Centralize every other joint for bottom 400' of casing and place two centralizers in surface casing. Thread lock bottom 2 joints.
- 7. Wait on cement for twelve hours prior to cutting off.
- 8. Nipple up and install a Double Ram and Annular BOP system with choke manifold.
- 9. Test BOP system to 1500 psi with the rig pump. Test casing to 1500 psi.
- 10. Drill 7-7/8" hole to 10700'. Run logs.
- 11. Either run and cement 10700' of 4-1/2" 11.60 ppf N-80 LT&C casing or plug and abandon as per BLM requirements.



EXHIBIT C DRILLING FLUID PROGRAM SANTA FE SNYDER CORP. TNT "6" Fed Com No.1 Section 6, T-17-S, R-29-E Eddy County, New Mexico

0 - 350'

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.

350 - 2650'

Drill out with fresh 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.

2650 - 10700'

Drill out with fresh water circulating the outer portion of the reserve pit. Convert to cut brine water (8.6 - 9.2 ppg) prior to reaching the Abo @ ± 5800'. Pump salt gel/paper sweeps as necessary to clean hole. Increase fluid weight to 9.6 - 10.0 ppg by 7600'. Adjust the fluid loss to 10CC and the viscosity to 32.34 prior to drilling to Morrow.

EXHIBIT D AUXILIARY EQUIPMENT SANTA FE SNYDER CORP. TNT "6" Fed Com No.1 Section 6, T-17-S, R-29-E Eddy County, New Mexico

DRAWWORKS BDW 650M 650 HP, with Parmac Hydromatic brake

- ENGINES Two Caterpillar D-353 diesels rated at 425 HP each
- ROTARY Ideco 23", 300 ton capacity
- MAST/SUB Ideal 132', 550,000 lb rated static hook load with 10 lines. Wagner 15' high substructure

TRAVELLING Gardner-Denver, 300 ton, 5 sheave w/BJ 250 ton hook. EQUIPMENT Brewster Model 7 SX 300 ton swivel

- **PUMPS** Continental-EMSCO DC-700 and DB-550, 5-12 x 16" Duplex, Compound driven
- **PIT SYSTEM** 1-Shale Pit 6X7X35', 1-Setting Pit 6X7X38', 1-Suction Pit 6X7X34' w/5 mud agitators. Two centrifugal mud mixing pumps and a Double Screen Shale Shaker.
- LIGHT Two CAT 3306 diesel electric sets 180 KW prime power PLANT

BOP13-5/8" 5000 psi WP double ram and 13-5/8" 3000 psi WP ShafferEQUIPAnnular Preventer. Choke manifold rated at 3000 psi. Valvcon 5-
station 80 gallon closing unit





TNT "6" FEDERAL #1 Located at 660' FSL and 1980' FEL Section 6, Township 17 South, Range 29 East, N.M.P.M., Eddy County, New Mexico.

	. BOX 1/00	W.O. Number: 0733AA – KJG CD#3	
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	05) 393-7316 - Office 05) 392-3074 - Fax	Scale: 1" = 2000'	INC
featured on exactly page	sinsurveys.com	Date: 01-10-2001	inc:





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EXHIBIT F EXISTING WELLS SANTA FE SNYDER CORP. TNT "6" Fed Com No. 1

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660' FSL & 2310' FEL Section 6, T-17-S, R-29-E Eddy County, New Mexico

SANTA FE SNYDER CORP. MULTI-POINT SURFACE USE AND OPERATIONS PLAN TNT "6" Fed Com No.1 Section 6, T-17-S, R-29-E Eddy County, New Mexico

This rlan 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. EXESTING ROADS.

N. Exhibit E is a 15 minute topographic map which shows the location of the proposed wellsite and roads in the vicinity. The proposed location is situated approximately 17 miles east of Artesia, New Mexico.

DIRECTIONS

From Artesia on Hwy 82 east, go ±17 miles to mile marker 124 go 1/4 mile past MM 124, turn left north on Eddy County Rd. 220. Go 2.5 miles north, then 0.5 miles west, then 0.75 miles north to a large water storage tank. Continue past tank for 0.6 miles, turn left (north) 0.2 miles to the proposed location.

2. PLANNED ACCESS ROAD.

h. Build 1523' of new access road to the proposed location.

3. LOCATION OF EXISTING WELLS.

1. The well locations in the vicinity of the proposed well are shown in Exhibits E.

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- 1. There are no producing gas wells on this lease at this time.
- I. In the event the well is productive, the necessary production equipment will be installed on the drilling pad.

5. IOCATION AND TYPE OF WATER SUPPLY.

I. 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.

TNT "6' Fed Com No.1 Multi-point Surface Use and Operations Plan Page 2

- 6. SOURCES OF CONSTRUCTION MATERIALS.
 - A. Any caliche required for construction of the drilling pad will be obtained from a pit approved by the BLM.

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 BLM for appropriate approval.
- D. Oil produced during operations will be stored in tanks until sold.
- 1. Human waste will be disposed of per current standards.
- I'. Trash, waste paper, garbage, and junk will be collected in trash trailers and disposed of in an approved waste facility such as a land fill. The trash trailers will contain all of the material to prevent scattering by the wind.
- (1. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations.

8. INCILLARY FACILITIES

Mone Required at this time.

9. VELLSITE LAYOUT

- 1. Exhibit G shows the dimensions of the well pad and reserve pits, and the location of major rig components.
- I. The ground surface of the location is relatively flat. Minor 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.
- I. A 400' X 400' work area which will contain the pad and pit area has been staked and flagged.

10. FLAN 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 fluid will be fenced until they have been filled.

TNT "6" Fed Com No.1 Multi-point Surface Use and Operations Plan Page 3

2. 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 complied with and will be accomplished as expeditiously as possible. All pits will be filled and levelled within 300 days after abandonment.

11. 'TOPOGRAPHY

- A. The wellsite is located in a relatively flat area.
- 3. The top soil at the wellsite is sandy.
- C. The vegetation cover at the wellsite is moderately sparse, with prairie grasses, some mesquite bushes, and shinnery oak.
- D. No wildlife was observed but it is likely that deer, rabbits, coyotes, and rodents traverse the area.

OPERATOR'S REPRESENTATIVES

A. The field representatives responsible for assuring compliance with the approved surface use plan are:

Michael R. Burton Division Drilling Manager Santa Fe Snyder Corp. 550 W. Texas, Suite 1330 Midland, Texas 79701 915-686-6616 - office 915-556-7063 - cellular

CERTIFI CATION

1 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 Snyder Corp. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which is approved.

SIGNED this 10th day of July, 2000.

nim

James P. (Phil) Stinson Agent for Santa Fe Snyder Corp.