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At proposed prod. 201	le	$\sqrt{n}$				Sec. 19, T-16-S, R-27-E		
	AND DIRECTION FROM NEAR		OFFICE*			12. COUNTY OR PARISH 13. STATE Eddy New Mexico		
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(Also to nearest drl) 18. DISTANCE FROM PROF TO NEAREST WELL, D	OSED LOCATION*		19. PROPOSE	D DEPTH	20. ROTAR	T OR CABLE TOOLS		
OR APPLIED FOR, ON TH	IS LEASE, FT.	NA		8600		Rotary		
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7 7/8"	K-55 4 1/2"	11.60	<u> </u>	8700'	950 s	sx to circulate		
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eepen directionally, give perti	nent data on subsurface location		vertical depth	s. Give blowout preve	nter program, it	any.		
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PERMIT NO	818	- -		VAL DATE				
Application : Operato CONDITIONS & time t								
( in ) fra	ANNY D. BRAY		Lar	nds And Min	erals			
APPROVED BY	<u>,</u> ,	TITLE	ions On F	leverse Side	<u></u>	APPROVED FOR		

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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 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 Distribution of the Section 1001 and the Distribution of the Section 1001 and the Distribution of the Distri



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

DISTRICT II P.O. Drawer DD, Artesia, NM 86211-0719

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV P.O. BOX 2086, SANTA FE, N.M. 87504-2088

## State of New Mexico

Energy, Minerals and Natural Resources Departm.

Form C-102 Revised February 10, 1994 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

## OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

#### WELL LOCATION AND ACREAGE DEDICATION PLAT Pool Code Pool Name API Number <u>Wildcat (Morrow)</u> Property Name Well Number **Property** Code BLUFF "19" FEDERAL COM 1 **Operator** Name OGRID No. Elevation SANTA FE SNYDER CORPORATION 3416 20305 Surface Location North/South line East/West line Range Lot Idn Feet from the Feet from the III. or lot No. Section Township County 19 16 S 27 E 1880 SOUTH 660 EAST EDDY Bottom Hole Location If Different From Surface Lot Idn Feet from the North/South line Feet from the East/West line UL or lot No. Section Township Range County Joint or Infill Consolidation Code Order No. Dedicated Acres 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 belief. Signature James P. "Phil" Stinson Printed Name Agent for Santa Fe Snyder Title Date SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was platted from field notes of 3413.8' estual surveys made by me or under my supervisor, and that the same is true and correct to the best of my belief. 660'-3415.0 3419.3 JUNE 22, 2000 Date Surveyed DC Signature & Soal of Professional Surveyor 880 68 068 GARY EIDSON GARY EIDSON GARY EIDSON GARY EIDSON GARY EIDSON 3239 Mannan Mannan 12641 12185

#### DRILLING PROGRAM

#### SANTA FE SNYDER CORP.

Bluff "19" Fed Com. #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:

Queen	650'
Glorietta	2650'
Tubb	3950
Abo	4700 '
Wolfcamp	5900 '
Atoka	8200'
Morrow	8300'
Mississippian	8600'
Total Depth	8700'

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

Water	None ex	kpec	sted	in	area
	Morrow				

- 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 1300' 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):

Morrow 8200'- 8400'

Logging:

Dual Laceroidy W/Morn and Gamme May	1300' - 8700'
Compensated Medicion/ Dicho Demoiol/ dumme inel	1300' - 8700'
Compensated Neutron/Gamma Ray (thru csg)	Surface-1300'

Coring: No conventional cores are planned.

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

No abnormal pressures are anticipated. The estimated bottom hole temperature is 140° and the estimated bottom hole pressure is 4100 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.

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Bluff "19" Fed Com. #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 20 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. Bluff "19" Fed Com. #1 Section 19, T-16-S, R-27-E Eddy County, New Mexico

- 1. Drill a 11" hole to approximately 1300'.
- 2. Run 1300' 8 5/8" 24 ppf J-55 ST&C casing. Cement with 200 sx Cl "C" Lite containing 1/4 pps celloflake followed by 200 sx Class "C" with 2% CaCl<sub>2</sub>. Run guide shoe on bottom and float collar two joints from bottom. Centralize every other joint for bottom 400' of casing. Thread lock bottom 2 joints.
- 3. Wait on cement for twelve hours prior to cutting off.
- 4. Nipple up and install a Double Ram and Annular BOP system with choke manifold.
- 5. Test BOP system to 1500 psi with the rig pump. Test casing to 1500 psi.
- 6. Drill 7-7/8" hole to 8700'. Run logs.
- 7. Either run and cement 8700' of 4-1/2" 11.60 ppf K-55 LT&C casing or plug and abandon as per BLM requirements.



EXHIBIT C DRILLING FLUID PROGRAM SANTA FE SNYDER CORP. Bluff "19" Fed Com. #1 Section 19, T-16-S, R-27-E Eddy County, New Mexico

#### 0 - 1300'

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.

### <u>1300 - 8700'</u>

Drill out with fresh water 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. At  $\pm$  6500' begin increasing mud weight with brine water. Increase weight to 10 ppg by 8000' and begin circulating the steel pits. If it becomes necessary to mud up due to hole conditions, utilize a brine water XCD Polymer/Drispac Plus mud system with a 38-40 vis. and 15-20 cc WL. MW 9.5-10.0 ppg.

#### EXHIBIT D AUXILIARY EQUIPMENT SANTA FE SNYDER CORP. Bluff "19" Fed Com. #1 Section 19, T-16-S, R-27-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" 3000 psi WP double ram and 13-5/8" 3000 psi WP ShafferEQUIPAnnular Preventer. Choke manifold rated at 3000 psi. Valvcon5-station 80 gallon closing unit

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# LOCATION VERIFICATION MAP



SCALE: 1'' = 2000'

- SEC. <u>19</u> TWP.<u>16-S</u> RGE. <u>27-E</u>
- SURVEY N.M.P.M. COUNTY EDDY DESCRIPTION 1880 FSL & 660' FEL ELEVATION 3416 SANTA FE SNYDER OPERATOR CORPORATION LEASE BLUFF "-9" FEDERAL COM U.S.G.S. TOPOGRAPHIC MAP ARTESIA NE, N.M.

CONTOUR INTERVAL: ARTESIA NE – 10'

## EXHIBIT E

TOPO MAP OF LOCATION AREA SANTA FE SNYDER CORP. Bluff "19" Fed Com #1 1880' FSL & 660' FEL Section 19, T-16-S, R-27-E Eddy County, New Mexico

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SANTA FE SNYDER CORP. Bluff "19" Fed Com #1 1880' FSL & 660' FEL Section 19, T-16-S, R-27-E Eddy County, New Mexico



#### SANTA FE SNYDER CORP. <u>MULTI-POINT SURFACE USE AND OPERATIONS PLAN</u> <u>Bluff "19" Fed Com. #1</u> <u>Section 19, T-16-S, R-27-E</u> <u>Eddy County, New Mexico</u>

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 15 minute topographic map which shows the location of the proposed wellsite and roads in the vicinity. The proposed location is situated approximately 3 miles north of Riverside, New Mexico.

#### DIRECTIONS

- 1. From Artesia, go east on Hwy 82 4 3/4 miles to County Road 200 (Karr Ranch Rd) turn left and go 4 miles turn right thru cattle guard and go 1.4 miles to proposed location.
- 2. PLANNED ACCESS ROAD.
  - A. No new access road will be required.

#### 3. LOCATION OF EXISTING WELLS.

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

#### 4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

- A. There are no producing gas wells 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.

#### 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.

Bluff "19" Fed Com. #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.
  - E. Human waste will be disposed of per current standards.
  - F. 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.
  - **G.** All trash and debris will be removed from the wellsite within 30 days after finishing drilling and/or completion operations.

#### 8. ANCILLARY FACILITIES

None Required at this time.

#### 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 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.
  - **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 fluid will be fenced until they have been filled.

Bluff "19" Fed Com. #1 Multi-point Surface Use and Operations Plan Page 3

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 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.
- B. 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

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

SIGNED this 27th day of Une 2000.

pames P. (Phil) Stinson

Agent for Santa Fe Snyder Corp.