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	whether DF, RT, GR, etc.)	<u>NA</u>				<u> </u>	22. APPROX. DATE WORK WILL START*
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	perations Plan OP and Choke Schematic					- Plat Sht G - Well Sit	owing Existing Wells
	rilling Fluid Program						Operations Plan
	uxiliary Equipment						•
Exhibit E - To	opo Map at Location						DVAL SUBJECT TO
Santa Fe Snvd	ler Corp. accepts all applica	able terms, cond	itions, s	stipulations a	nd		PAL REQUIREMENTS AND
•	cerning operations conduc					SPEDI	AL STIPULATIONS
described abov	/e.						
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signer amel	P. Phil Him	ton TIT	<u>А</u>	gent for San	ta Fe Snyd	ler Corp.	5055-28-280
	ederal or State office use)						
A THIN OPACE AUX &							
PERMIT NO							
CONDITIONS OF APPRO	IF ANY:	licant holds legal or eq	uitable tit				uld entitle the applicant to conduct operations thereon.
	ALARRY D. BRAY					l Manag	er, OCT 8 1 2000
APPROVED BY			<u> </u>	Lands	And Mir	101015	_ DATE

*See Instructions On Reverse Side

APPROVED FOR 1 YEAR

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 musilication.

BLM BLM JUL US 2000 RECEIVED

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

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

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

DISTRICT IV P.O. BOX 2008, SANTA FE, N.M. 87504-2088

State of New Mexico

Energy, Minerals and Natural Resources Depart-

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

API Number	Pool Code	Pool Name					
		Crow Flats M					
Property Code		o" FEDERAL COM	Well Number 1				
ogrid No. 20305		ator Name DER CORPORATION	Elevation 3620				

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
К	20	16 S	28 E		1980	SOUTH	1980	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres	Joint o	r Infill Con	nsolidation (Code Or	der No.		L	I	
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 bekef.
		amer P. Philidtmeon
		James P. "Phil" Stinson Printed Name
		Agent for Santa Fe Snyder Title C · E8 · E000 Date
	 	SURVEYOR CERTIFICATION
3630.4' - 3617.1'		I hereby certify that the well location shown on this plat was plotted from field nates of actual surveys made by me or under my supervisen and that the same is true and
1980'		JUNE 7, 2000
		Dato Sucreyed Bignature & Boel of Progestional Surveyor MMUL SCONSTER/08/86
		Certificate No. RONALD EIDSON 3239 Certificate No. RONALD EIDSON 12641 CARY EIDSON 12641 CONSTRUCTION NEDONALD 12185

DRILLING PROGRAM

SANTA FE SNYDER CORP.

Crow Flat "20" 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:

Premier		1800'
Abo		5300'
Wolfcamp	•	6500'
Atoka		8900'
Morrow		9200'
Mississippian		9600'
Total Depth		9600'

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

Water	None expected in area	
Gas	Atoka - Morrow @ 8900'- 93	300'

- 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 2000' 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 8900'- 9300'

Logging:

Dual Laterolog W/MSFL and Gamma Ray	2000' - 9600'
Compensated Neutron/Litho-Density/Gamma Ray	2000' - 9600'
Compensated Neutron/Gamma Ray (thru csg)	Surface-2000'

Coring: No conventional cores are planned.

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

No abnormal pressures are anticipated. The estimated bottom hole temperature is 138° and the estimated bottom hole pressure is 4015 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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Crow Flat "20" 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 25, 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. Crow Flat "20" Fed Com No.1 Section 20, T-16-S, R-28-E Eddy County, New Mexico

- 1. Drill a 17-1/2" hole to approximately 350'.
- Run 13-3/8" 48.0 ppf H-40 ST&C casing. Cement with 350 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 twelve hours prior to cutting off.
- 4. 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 1150'.
- 6. Run 2000' 8 5/8" 24 ppf J-55 ST&C casing. Cement with 400 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 9600'. Run logs.
- 11. Either run and cement 9600' 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. Crow Flat "20" Fed Com No.1 Section 20, T-16-S, R-28-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 - 2000'

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.

2000 - 9600'

.

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 @ \pm 5300'. 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 the Atoka.

EXHIBIT D AUXILIARY EQUIPMENT SANTA FE SNYDER CORP. Crow Flat "20" Fed Com No.1 Section 20, T-16-S, R-28-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. Valvcon 5-
station 80 gallon closing unit

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LOCATION VERIFICATION MAP



SEC. 20 TWP. 16-S RGE. 28-E

- SURVEY N.M.P.M.
- COUNTY____EDDY
- DESCRIPTION 1980' FSL & 1980' FWL
- ELEVATION _____ 3620 SANTA FE SNYDER
- OPERATOR CORPORATION
- LEASE CROW FLAT "20" FEDERAL COM
- U.S.G.S. TOPOGRAPHIC MAP
- DIAMOND MOUND, N.M.

CONTOUR INTERVAL: DIAMOND MOUND - 10'

EXHIBIT E

TOPO MAP OF LOCATION AREA SANTA FE SNYDER CORP. Crow Flat "20" Fed Com No. 1 1980' FSL & 1980' FWL Section 20, T-16-S, R-28-E Eddy County, New Mexico

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SANTA FE SNYDER CORP. <u>MULTI-POINT SURFACE USE AND OPERATIONS PLAN</u> <u>Crow Flat "20" Fed Com No.1</u> <u>Section 20, T-16-S, R-28-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 12 miles northeast of Artesia, New Mexico.

DIRECTIONS

1. From Artesia go east on Hwy 82 to Co. Rd 202, turn left and go 4.5 miles north, northwest and northeast to the proposed location.

2. PLANNED ACCESS ROAD.

A. Repair as necessary approximately 3 miles of existing road and build 1.5 miles of new access road to the proposed location.

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. Crow Flat "20" 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.
- 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.

Crow Flat "20" Fed Com No.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 Fe Snyder Corp. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which is approved.

SIGNED this 28 th day of June 2000

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