SUBMIT IN TRIPLICATE*

(Other instructions on

Form approved. Budget Bureau No. 42-R1425.

DEPARTMENT (D STATES OF THE INTER	reverse sid	ue,	30-095-	23762
GEOLOGI	5. LEASE DESIGNATION AND SERIAL NO. NM 33029				
APPLICATION FOR PERMIT TO	DRILL, DEEPE	N. OR PLUG B	ACK	6. IF INDIAN, ALLOTT	EE OR TRIBE NAME
12. TYPE OF WORK DRILL X b. TYPE OF WELL	DEEPEN	PLUG BAC		7. UNIT AGREEMENT	NAME
OIL GAS WELL OTHER	SI: 20	SGLE X MULTIPE	LE 🗌	S. FARM OR LEASE N	AME
2. NAME OF OPERATOR	SX - Federal 21				
Southern Union Exploration Co	mpany			9. WELL NO.	
First International Bldg., Su 4. LOCATION OF WELL (Report location clearly and in	ite 1800, Dal	las, Texas 752	270	10. FIELD AND POOL,	
800 FSL & 1840 FEL	_	Pictured Cliffs 11. SEC., T., B., M., OB BLK.			
At proposed prod. zone				AND SURVEY OR .	AREA
Same as above				Sec. 🚁, T2	6N, R13W
14. DISTANCE IN MILES AND DIRECTION FROM NEARES		•		12. COUNTY OR PARIS	
18 miles south of Farmington,		OF ACRES IN LEASE	17 17 17	San Juan	New Mexico
LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 18. DISTANCE FROM PROPOSED LOCATION*	-	520	то ти	160	
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 184		1500 ft.	20. ROTAE	ey or cable tools Rotar	V
21. ELEVATIONS (Show whether DF, RT, GR, etc.)	<u> </u>	1000 10.	1	22. APPROX. DATE W	·
6200 GL				9-17-79	
23. PRO	POSED CASING AND	CEMENTING PROGRA	.М		 -
SIZE OF HOLE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	<u> </u>	QUANTITY OF CEM	ENT
10 5/8 7"	20	350 *	C	IRCULATE	
				760 Sacks	
5 1/2 2 7/8"	6.50	1500		760 Sacks	
\$ 1/2 2 7/8" * 30 90° of purface casing & C	6.50	1500 the Oir alam		760 Sacks	tring or
* or 90° of surface casing to coment plug across tojo	6.50 ment across Plamo if	1500 the Ojo alam plugged	o beh	160 Sacks ind Long A	Û
* or 90° of surface casing to coment plug across to jo 1. We propose to drill to 35	6.50 ment across Plamo if O feet and set	1500 the Ojo Alam plugged t 7 Inch surfac	e, and	760 Sacks ind Long A cement to th	e surface.
* or 90° of surface casing to coment plug across to jo 1. We propose to drill to 35	6.50 ment across Plamo if O feet and set	1500 the Ojo Alam plugged t 7 Inch surfac	e, and	760 Sacks ind Long A cement to th	e surface.
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MYMOC.

DATE ___

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 1-1-55

All distances must be from the outer boundaries of the Section. Operator Well No. SOUTHERN UNION EXPLORATION CO Unit Letter SAN JUAN 26 NORTH Actual Footage Location of Weil: 800 feet from the EAST line Ground Level Elev. Producing Formation Foci Dedicated Acreage: PICTURED CLIFFS 6200 160 1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc? Yes If answer is "yes," type of consolidation _ If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.). No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commis-CERTIFICATION I hereby certify that the information contained herein is true and complete to the Ronald M. Sentz Pesition Drilling & Production Engineer Southern Union Exploration Co. 21 Date Surveyed July 29. James Leese Certificate No.

1463

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660

1320 1650 1980 2310

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Southern Union Exploration Colopery

September 5, 1979

Mr. A. R. Kendrick New Mexico Oil Conservation Division 1000 Rio Brazos Road Aztec, New Mexico 87410

Re: Acreage Dedication

Dear Mr. Kendrick:

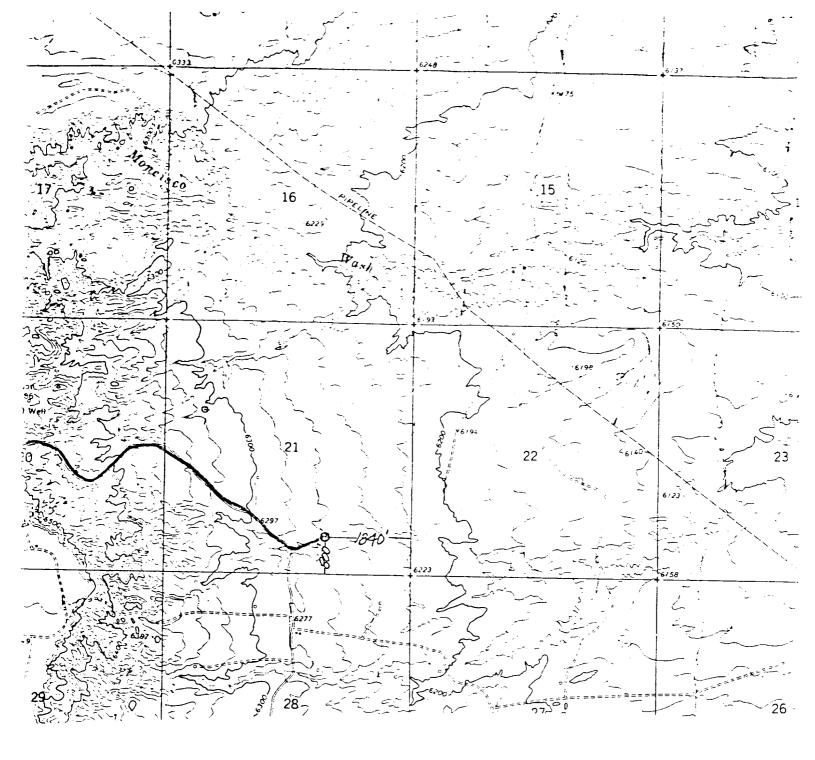
SX-Federal 21 #1, Section 21, Township 26 North, Range 13 West, 800' FSL, 1840' FEL. As of this time the acreage has not been dedicated to any gas transporter.

Sincerely yours,

Ronald M. Sentz

Drilling & Production Engineer

RMS/vgn



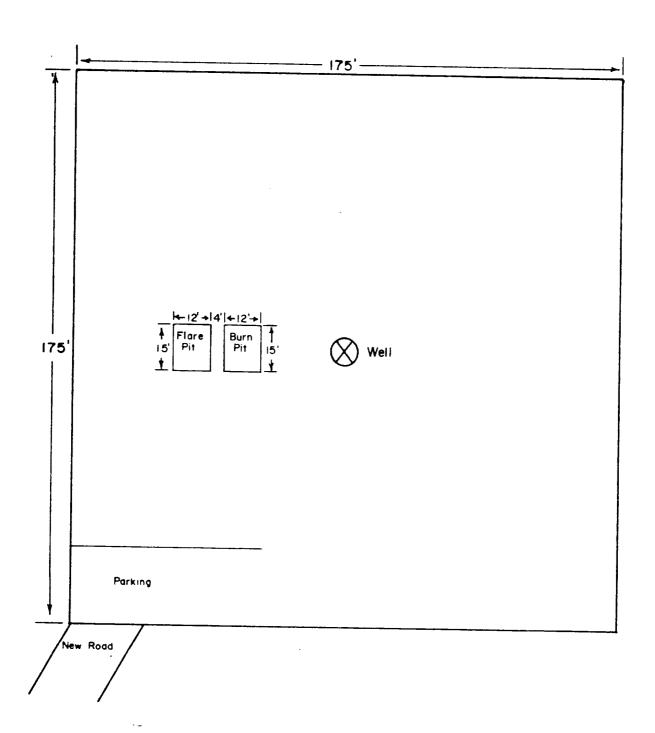
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	32 o	o ⁴	WAW (P.C./FRUITLAND) FIELD AREA San Juan County, New Mexico T-26-N, R-13-W					
				Exhibit III Scale: 1"= 2,000) ,			

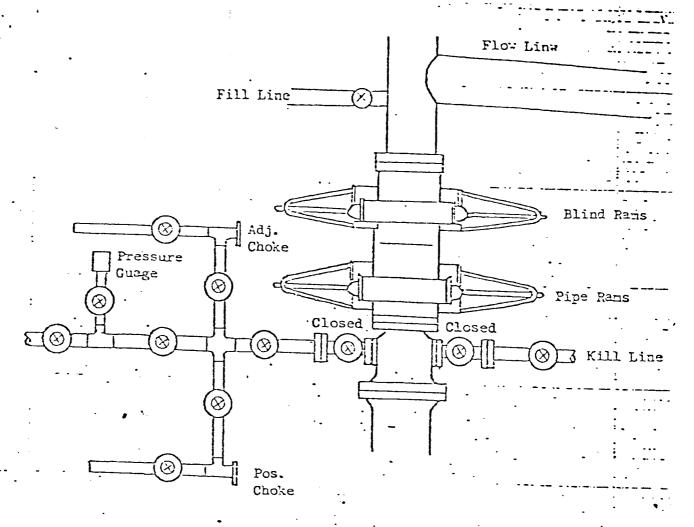


SOUTHERN UNION EXPLORATION COMPANY

EXHIBIT IV: Pad Layout P.C. Wells
San Juan County, New Mexico

Scale: 1"= 30"





All valves 2"

All BCPs, flanges, spools, valves, & lines must be series 900 or 3000 psi working press.

Choke manifold must be at ground level and extended out from under substructure.

Exhibit 5
SOUTHERN UNION EXPLORATION COMPANY
First International Bldg.
Suite 1800
Dallas, Texas 75270

REQUIRED MINIMUM BLOWOUT PREVENTOR HOOKUP

APPLICATION FOR PERMIT TO DRILL

- 1. The Location:
 - A. On Exhibit I (Plat)
- 2. Elevation:
 - A. On Exhibit I (Plat)
- 3. Geologic Name of the Surface Formation:
 - A. Nacimiento
- 4. Drilling Tools and Associated Equipment to Utilized:
 - A. Listed in Space 20
 - B. B.O.P as listed in A.P.D.
- 5. Proposed Drilling Depth:
 - A. Listed in space 19
- 6. Esitmated Tops of Important Geologic Markers:
 - A. Ojo Alamo 110 feet, Kirtland 300 feet, Farmington 410 feet, Fruitland 950 feet, Pictured Cliffs 1300 feet.
- 7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formation are expected to be encountered.
 - A. Water: 110 feet
 - B. Oil: None
 - C. Gas: 1300
 - D. Mineral Formations: Possible coal at 900 feet.
- 8. Casing program including the size, grade and weight of each string and whether new or used:
 - A. Space 23 on A.P.D.
 - B. Space 23 on A.P.D.
 - C. Surface pipe will be used 7" 20# H40, and production pipe will be 2 7/8" 6.4# N-80 used.

- 9. Proposed setting depth of each casing string and the amount and type of cement (including additives)
 - A. Surface: 350' , circulate Class C w/2% CC.
 - B. Intermediate: None
 - C. Production: 1300', 710 sacks of Poz mix and tail-in with 50 sacks Class C.
- 10. B.O.P. schematic diagram listed as Exhibit #5
 - A. Testing every Eight hours.
- 11. Proposed circulating medium
 - A. Mud Type: 8.5 LB/gal, 35 Viscosity, less than 10 cc fluid loss.
 - B. Weight of Mud: 8.5 LB/gal
- 12. Testing, Logging or Coring Programs:
 - A. After completion of well.
 - B. After completion of drilling.
 - C. None
- 13. Any anticipated abnormal pressures or temperatures expected to be encountered or potential hazards such as Hydrogen Sulfide Gas, along with plans for mitigating such hazards:
 - A. Pressure: None
 - B. Temperature: None
 - C. Mitigating Hazards: None
- 14. Anticipated starting date and duration of operation:
 - **A.** 9-17-79
 - B. 2 Weeks
- 15. Other Facets of the proposed operation which the lessee or operator wishes to print out for the United State Geological Survey.
 - A. None

SURFACE USE PLAN

1. Existing Roads

- A. Proposed Well Site Location: The proposed well site location was surveyed and staked by a registered land surveyor and is located 800' from the south line and 1840' from the east line, Section 31, T26N, R13W, San Juan County, New Mexico. (See Exhibit I Surveyor's Plat.)
- B. Planned Access Route: The planned access route begins 18 miles south of Farmington, New Mexico on Highway #371 and extends 6 miles to the well location on hard surface road.
- C. Access Road Labelled:

Color Code: Red - Improved Surface Blue - New Access Road

- D. Not Applicable The proposed well is a development well.
- E. See Exhibit II for existing roads within a one mile radius.
- F. The existing roads will require minimal maintenance.

2. Planned Access Roads

(All roads are existing roads.)

- A. Width: The average width of the road is twelve feet.
- B. Maximum Grades: The maximum grade on the proposed road will be approximately 2%.
- C. Turnouts: There are no turnouts planned as sight distance is sufficient.
- D. Drainage Design: The road is center crowned to allow drainage.
- E. Culverts Use Major Cuts and Fills: No culverts will be needed in building this road. No cuts or fills will be needed.
- F. Surfacing Material: Native soil has been wetted, bladed and compacted to make the road surface, which is existing.
- G. Gates, Cattleguards, Fence Cuts: None will be needed.
- H. New Roads Centerlined Flagged: Existing roads.

3. Location of Existing Wells

The proposed well is a development well. Exhibit III shows existing wells within a one mile radius.

- A. Water Wells: None
- B. Abandoned Wells: 1
- C. Temporarily Abandoned Wells: None
- D. Disposal Wells: None
- E. Drilling Wells:
- F. Gas Stroage Wells: None
- G. Shut-In Wells: None
- H. Injection Wells: None
- I. Monitoring or Observation Wells: None

4. Location of Existing and/or Proposed Facilities

- A. Existing facilities within one mile owned or controlled by Lessee/Operator:
 - 1. Tank batteries None

 - Production facilities None
 Oil Gathering Lines None
 - 4. Gas Gathering Lines Yes
 - 5. Injection Lines None
 - 6. Disposal Lines None
- B. New facilities in the event of production:
 - 1. New facilities will be within the dimensions of the drill pad.
 - 2. Dimensions are shown on Exhibit IV.
 - Construction Materials/Methods:
 - 4. Protection of Wildlife/Livestock:
 - 5. New facilities will consist of a wellhead.
- C. Rehabilitation of Disturbed Areas:

Following the completion of construction, those areas required for continued production will be graded to provide drainage and minimize erosion. Those areas unnecessary for use will be graded to blend with surroundings topography per BLM recommendations.

- 5. Location and Type of Water Supply
 - A. Location and type of water supply:
 - B. Water Transportation System:
 - C. Water Weeks:

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6. Source of Construction Materials

- A. Materials: Construction materials will consist of soil native to the site. Any topsoil, if present, will be stripped and stockpiled as needed.
- B. Land Ownership: The planned site and access road is on federal land administered by the Bureau of Land Management.
- C. Materials Foreign to the Site: N/A
- D. Access Roads: No additional roads will be required.

7. Methods for Handling Waste Disposal

- A. Cuttings: Cuttings will be contained in the reserve pit.
- B. Drilling Fluids: Drilling fluids will be retained in the reserve pit.
- C. Produced Fluids: Produced fluids, including produced water will be collected in the reserve pit. Any small amount of hydrocarbon that may be produced during testing will be retained in the reserve pit. Prior to clean up operations, the hydrocarbon material will be skimmed.
- D. Sewage: Sanitary facilities for sewage disposal will consist of at least one pit toilet, during the driller operations. The pit will be backfilled immediately following completion of the drilling operation.
- E. Garbage: There probably will not be much putriscible garbage to dispose of. However, it will be disposed of along with the refuse in a constructed burn pit, which will be fenced. The small amount of refuse will be burned and the pit will be covered with a minimum 36 inch cover upon completion."
- F. Clean-Up of Well Site: Upon release of the drilling rig, the surface of the drilling pad will be prepared to accommodate a completion rig, if testing indicates potential productive zones. In either case, the "mouse hole" and "rat hole" will be covered to eliminate a potential hazard to livestock. The reserve pit will be fenced to prevent entry of livestock until the pit is backfilled. Reasonable clean up will be performed prior to finial restoration of the site.

8. Ancillary Facilities

None required.

9. Well Site Layout

Benedict Comment

A. See Exhibit IV

9. Well Site Layout (Cont'd)

- B. Location of pits, etc. See Exhibit IV.
- C. Rig orientation, etc. See Exhibit IV.
- D. Lining of Pits: Pits will not be lined. They will be covered with a fine mesh netting, if necessary, for the protection of wildlife if fluids are found to be toxic.

10. Plans for Restoration of Surface

- A. Reserve pit clean up: The pit will be fenced prior to rig release and shall be maintained until clean up. Prior to backfilling any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pet shall be backfilled with soil excavated from the site and with soil adjacent to the reserve pit. The restored surface of the reserve pit will be contoured as needed to minimize erosion. The reserve pit area will be seeded per BLM recommendations during the appropriate season following the final restoration of the site.
- B. Restoration Plans Production Developed: The reserve pit will be backfilled and restored as described under Item A. In addition, those disturbed areas not required for production will be graded to blend with the surrounding topography, and seeded, per BLM recommendations. The portion of the drill pad required for production and turning areas will be graded to minimize erosion and provide access to produciton facilities under inclement conditions. Following depletion and abandonment of the site, restoration procedures will be those under Item C. below.
- C. Restoration Plan No Produciton Developed: The reserve pit will be restored as described above. With no production developed, the entire surface disturbed by construction of the drilling pad will be restored. The site will be contoured to blend with the surrounding topography. The site will be seeded according to BLM recommendations. If the new access road is not required for other development plans, if will be obliterated and restored and seeded per BLM recommendations.
- D. Rehabilitation Time Table: Upon completion of operations the initial clean up of the well site will be performed. Final restoration of the site will be performed as soon as possible according to procedural guidelines published by the USGS and BLM. Seeding of the disturbed areas which are no longer required will be performed during the appropriate season, following final restoration.

11. Other Information

- A. Surface Description: The surface description of the proposed site where the actual well is located is one mile south of Moncisco Wash, in a flat sandy area.
- B. Surface Use Activities: The surface is federally owned and managed by the BLM. The predominant surface use is mineral exploration and production.
- C. Proximity of Water, Dwelling and Historical Sites:
 - 1. Water: None
 - 2. Occupied Dwelling: None
 - 3. Site: An archeological reconnaissance has been performed for this location and clearance has been granted.

12. Operator's Representative

Ronald M. Sentz Drilling & Production Engineer Southern Union Exploration Company 1800 First International Building Dallas, Texas 75270

13. <u>Certification</u>

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 as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Southern Union Exploration Company and its contractors and subcontractors will conform to this plan.

DATE: 8/15/79 Ron Aldre Sent