SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425. 30-043-23766

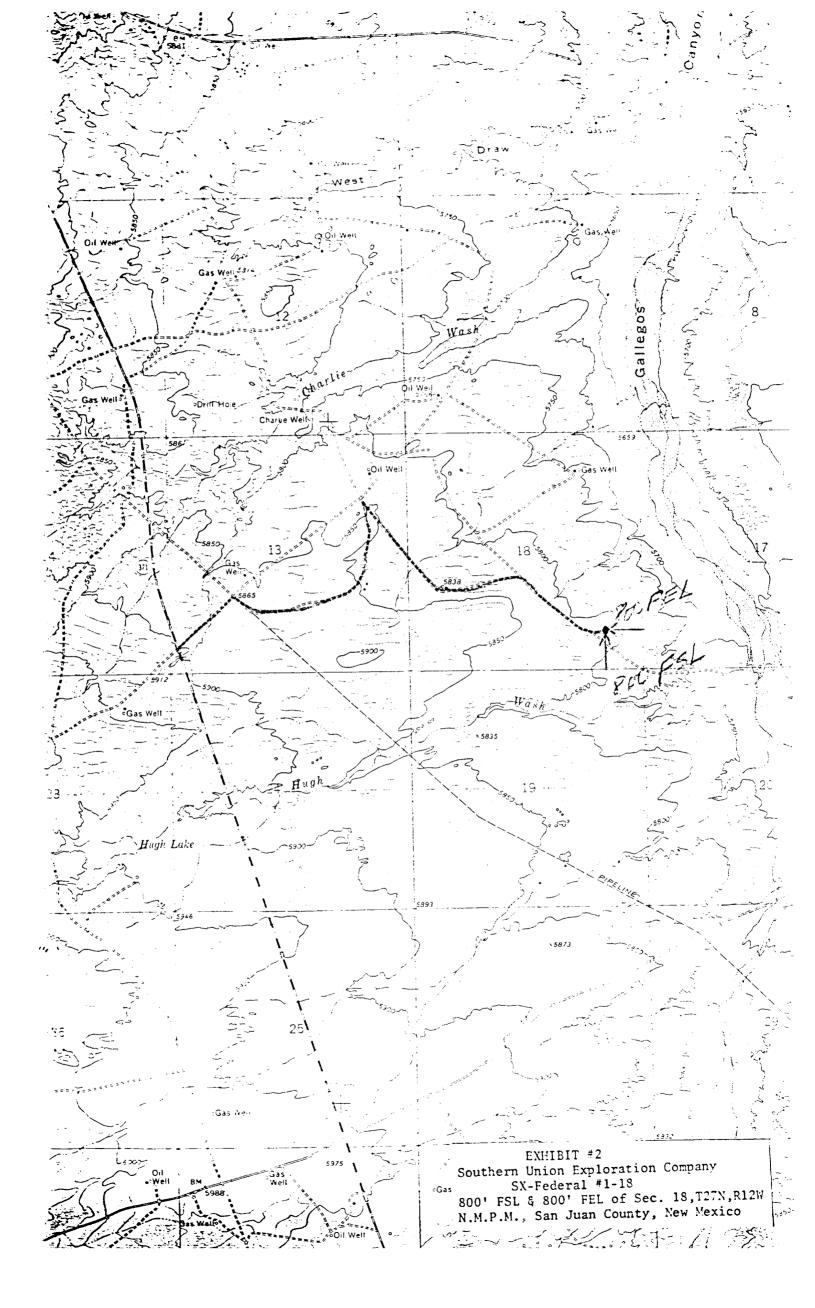
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DEPARTMENT	OF	THE	INTERIOR

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GEOLOGICAL SURVEY						5. LEASE DESIGNATION AND SERIAL NO.	
A DDI ICATIO	NM 33017 6. IF INDIAN, ALLOTT	EE OR TRIPE NAME					
1a. TYPE OF WORK	IN FOR PERMIT	TO DRILL, I	DEEP	EN, OR PLUG B	ACK	_	THE NAME
	ILL X	DEEPEN		PLUG BAC	к 🗆	7. UNIT AGREEMENT	NAME
b. TYPE OF WELL	AS W						2504
WELL W	VELL X OTHER			ONE ZONE	. E	8. FARM OR LEASE N	_
	ion Evalonation	Company	5	1211		SX - Federa	11 13
Southern Union Exploration Company 21214 3. ADDRESS OF OPERATOR						#1 - ===	
First Inter	national Bldg.,	Suite 1800	, Da	llas, Texas 75	270		OR WILDCAT
4. LOCATION OF WELL (R At surface	Report location clearly and	l in accordance wit	hany	State requirements.*)		Pictured C	iffs
800 FSL & 80	00 FEL					11. SEC., T., R., M., OB AND SURVEY OR	BLK.
At proposed prod. zor							
Same As Aboy	VE AND DIRECTION FROM NEA	REST TOWN OR FOS	T OFFIC	E.*		Sec. 18, T2	
	uth of Farmingt			_		San Juan	New Mexico
15. DISTANCE FROM PROPO LOCATION TO NEARES	USED.). OF ACRES IN LEASE	17. No.	1	
PROPERTY OR LEASE I	LINE, FT. 200			312.88		7. NO. OF ACREN ASSIGNED TO THIS WELL 160	
 DISTANCE FROM PROF TO NUMBER WELL, D 	POSED LOCATION*		19. PF	19. PROPOSED DEPTH		ARY OR CABLE TOOLS	
	, , , ,			1500 Ft.		Rotary	_
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)					22. APPROX. DATE W	ORE WILL START*
23.						9-17-79	
		ROPOSED CASIS	G ANI	CEMENTING PROGRA	М		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO				QUANTITY OF CEMENT	
10 5/8 5 1/2	2 7/8	6.50		110 * 1500		Circulate	
			() A	s the Ojo a	Dame o	830 Sacks	2 4 4 '
or cement pl 1. We prope	osé to Drill to	jo Alamo 110'and se	t 9	plugged inch surface, as	nd cem	ent to the sur	
	surface.	o depth of	1300	feet, then run	2 //0	cubing and Ce	ement.
3. Picture	d Cliffs Fromat	ion will be	per	forated and eva	luated	for gas produ	ıction.
4. 2 7/8" I R.K.B.	4	AUG 2 8 19		be run and set	at ap	proximately 15	550 ft.
one. If proposal is to experience program, if any 24. Signer (This space for Feder	drill or deepen directiona		Dri Pro	n subsurface locations and lling & duction Engineer	I measure	d and true vertical dept	ed new productive hs. Give plowout
PERMIT NO.			_	APPROVAL DATE			
APPROVED BY	AL, IF ANY:	TIT!	LE			DATE	·

NEW MEXICO OIL CONSERVATION COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102 Supersedes C-128 Effective 14-65

All distances must be from the outer boundaries of the Section Lease Operator FEDERAL SOUTHERN UNION EXPLORATION CO Range Unit Letter Section Township SAIL 12 WEST JUAN 18 27 NORTH Actual Footage Location of Well: SOUTH line one 800 Dedicated Acreage Producing Formation Ground Lever Elev. 160 PICTURED CLIFFS WAW PICTURED CLIFFS 5811 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? If answer is "yes." type of consolidation _ No. 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 Commission. CERTIFICATION I hereby certify that the information contained herein is true and complete to the Name Ronald M. Sentz 1979 OIL CON. COM. Drilling & Production Engineer DIST. 3 Southern Union Exploration Cd. SCIONAL ENGINEER octua No weys mid to me or supel 463 and there ine same AUG281979 OIL CON. COM. dist Date Surveyed 1979 July 29, 800 Registered Frotessional Expineer James P. Leese Certificate No. 1463 1320 1650 1980 2310 2000 1500



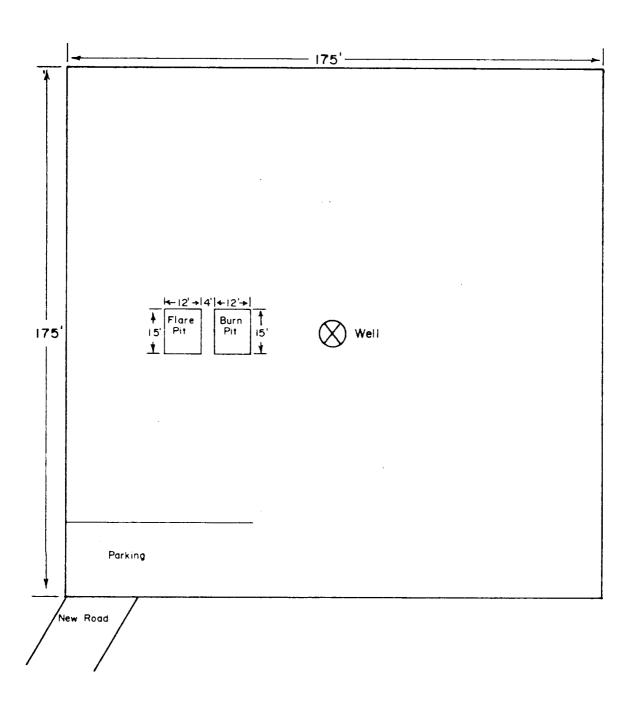
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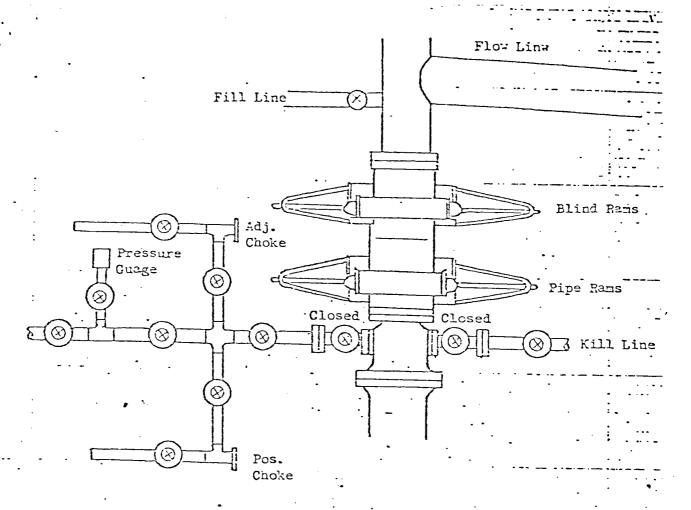


SOUTHERN UNION EXPLORATION COMPANY EXHIBIT IX: Pad Layout PC. Wells

San Juan County, New Mexico

Scale: 1"= 30'





All valves 2"

All BOPs, 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 Eldg.
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 (Plat)
- 3. Geologic Name of the Surface Formation:
 - A. Ojo Alamo
- 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. Kirtland 60 feet, Farmington 190 feet, Fruitland 900 feet, Pictured Cliffs 1250 feet.
- 7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formation are expected to be encountered.
 - A. Water: 60 feet
 - B. Oil: None
 - C. Gas: 1250 feet
 - 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: 110 feet, CIRCULATE Class C with 2% CC.
 - B. Intermediate: None
 - C. Production: 1250 feet with 780 sacks of Poz mix and tail-in with 50 sacks of 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 800' from the east line, Section 18, T27N, R12W, San Juan County, New Mexico. (See Exhibit I Surveyor's Plat.)
- B. Planned Access Route: The planned access route begins 15 miles south of Farmington, New Mexico on Highway #371 and extends 1.5 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.

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: 2
- C. Temporarily Abandoned Wells: None
- D. Disposal Wells: None
- E. Drilling Wells: 1
- 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
 - 2. Production facilities None
 - .3. 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.
 - 3. 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

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 in a flat, sandy, hilly area approximately 2 miles from the Gallegos Wash.
- 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: There is water within 1/2 mile of the well site.
 - 2. Occupied Dwelling: 1/2 mile west of well site.
 - 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. 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 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 sonold in Se