

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-045-22169

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Southern Union Production Company

3. ADDRESS OF OPERATOR

P. O. Box 806, Roswell, New Mexico 87101

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

790 ft. from the North line & 1830 ft. from the West line.

At proposed prod. zone Same as above.

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

7.5 Miles East of Artes, New Mexico

15. DISTANCE FROM PROPOSED*

790' from lease line

LOCATION TO NEAREST

PROPERTY OR LEASE LINE, FT.

(Also to nearest drlg. unit line, if any)

790' / unit line

16. NO. OF ACRES IN LEASE

323.84

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

2,690 feet

19. PROPOSED DEPTH

5425

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

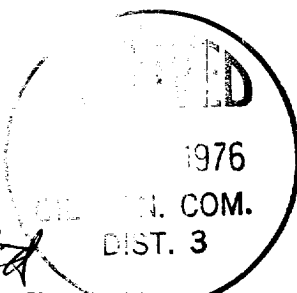
6339 ft. O.L.

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
13-3/4"	10-3/4"	40.56	200 ft.	160 cubic ft.
3-7/8"	7"	23.06	3150 ft.	1260 cubic ft.
6-1/4"	4-1/2" Liner	10.56	3000 - 5425	370 cubic feet

It is proposed to drill a well to be completed in the Mesaverde formation. This well will be sand drilled through the Pictured Cliffs formation and then gas drilled to T.D. Estimated total depth will be 5425 feet. The Mesaverde formation will be sand fraced in order to stimulate production. Tubing size will be 1-1/2" set at approximately 5390 feet.



RECEIVED

AUG 25 1976

U. S. GEOLOGICAL SURVEY
FARMINGTON, N.M.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

Original Signed By

SIGNED

Rudy D. Motto

Rudy D. Motto

TITLE

Area Superintendent

DATE

August 18, 1976

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

OK

*See Instructions On Reverse Side

Instructions

General: This form is designed for submitting proposals to perform certain well operations, as indicated, on all types of lands and leases for appropriate action by either a Federal or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 1: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable State or Federal regulations concerning subsequent work proposals or reports on the well.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on this reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal or State agency offices.

Items 15 and 18: If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective production zone.

Item 22: Consult applicable Federal or State regulations, or appropriate officials, concerning approval of the proposal before operations are started.

SOUTHERN UNION PRODUCTION COMPANY
HEIMS FEDERAL NO. 1-A

790/N and 1850/W of Section 22, Township 30 North,
Range 10 West, San Juan County, New Mexico.

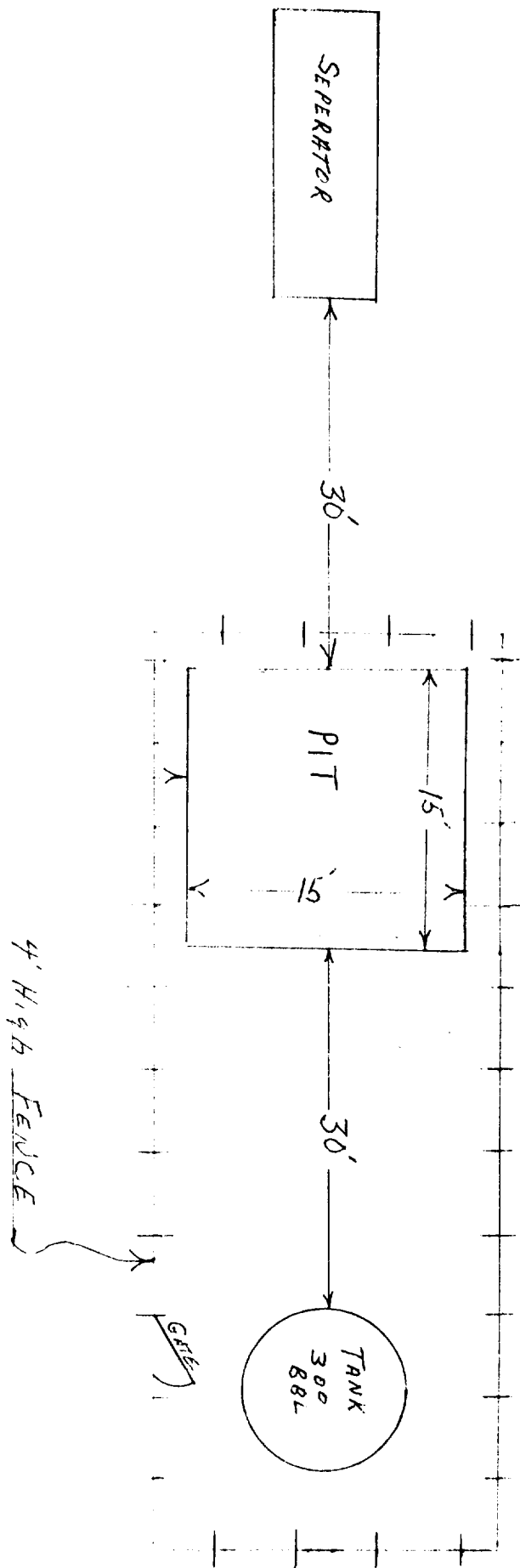


DIAGRAM OF SURFACE EQUIPMENT

**NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT**

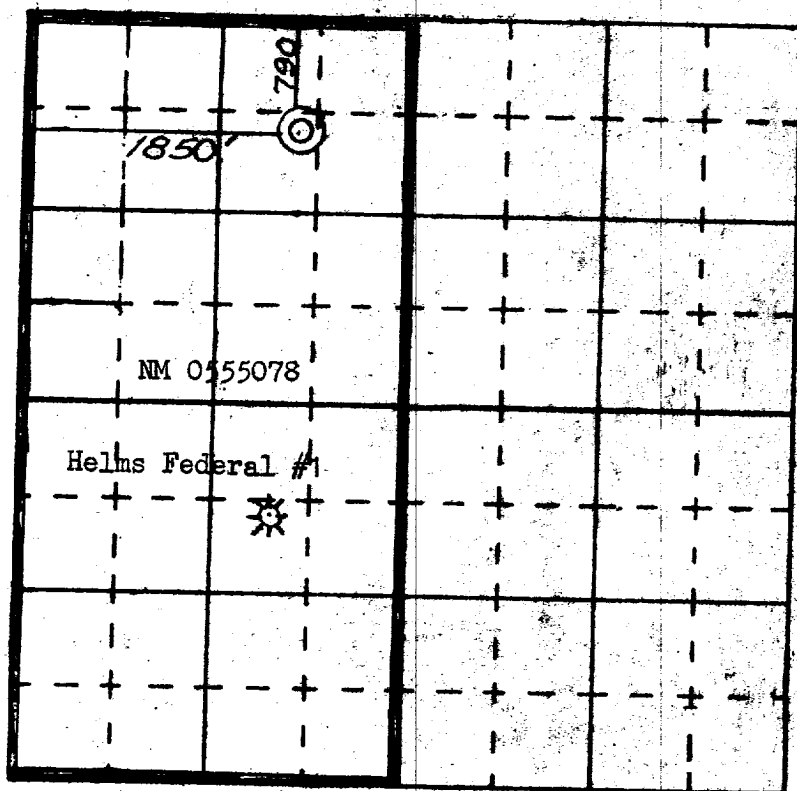
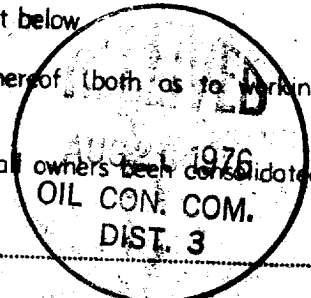
All distances must be from the outer boundaries of the Section

Operator SOUTHERN UNION PRODUCTION CO.			Lease HELMS FEDERAL		Well No. 1-A
Unit Letter C	Section 22	Township 30 NORTH	Range 10 WEST	County SAN JUAN	
Actual Footage Location of Well: 790 feet from the NORTH line and			1850 feet from the WEST line		
Ground Level Elev. 6339	Producing Formation MESAVERDE	Pool BLANCO	Dedicated Acreage: 323.84 Acres		

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 (X) No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if necessary): _____

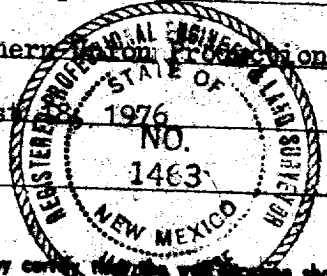
No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Original Signed By
Rudy D. Motto
Name Rudy D. Motto
Area Superintendent
Position
Southern Union Production Company
Company
August 1976
Date
NO. 1463



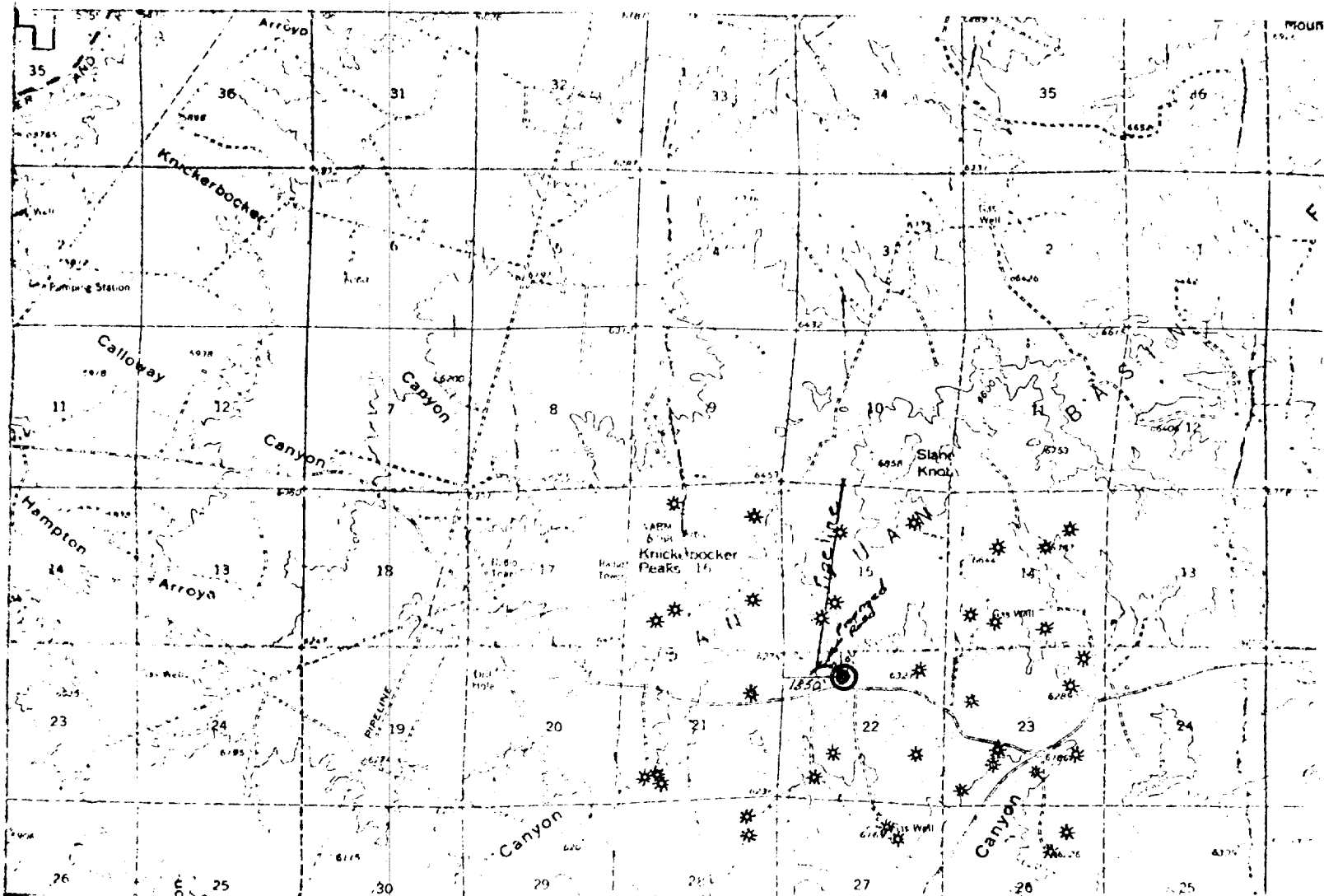
I hereby certify that the location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

13 August, 1976
Date Surveyed
James P. Leese
Registered Professional Engineer
and/or Land Surveyor
JAMES P. LEESE
1463
Certificate No.

SOUTHERN UNION PRODUCTION COMPANY

HELMS FEDERAL NO. 1-A

790/N and 1850/W of Section 22, Township 30 North, Range 10 West,
San Juan County, New Mexico.



PROPOSED LOCATION

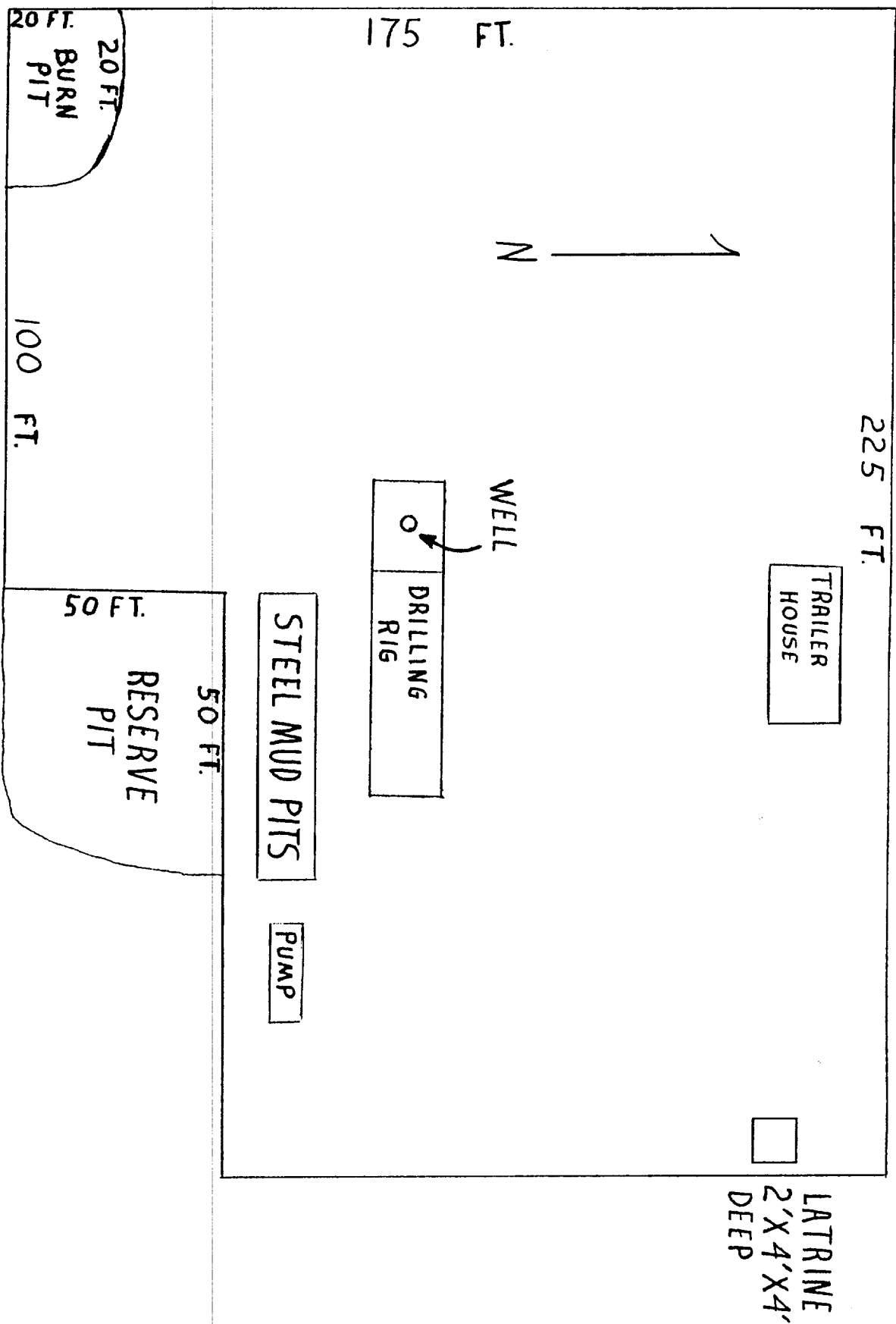


EXISTING WELLS



PROPOSED ACCESS ROAD

SOUTHERN UNION PRODUCTION COMPANY
HEIMS FEDERAL #1-A
790/N & 1850/W, Sec. 22, T-30N, R-10W
SAN JUAN COUNTY, NEW MEXICO



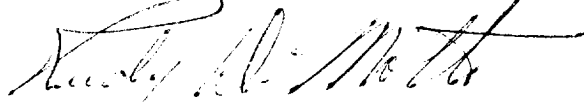
SOUTHERN UNION PRODUCTION COMPANY

POST OFFICE BOX 808
FARMINGTON, NEW MEXICO 87401

August 24, 1976

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 preformed by SOUTHERN UNION PRODUCTION COMPANY and its contractors subcontractors in conformity with this plan and the terms and conditions under which it is approved.

SOUTHERN UNION PRODUCTION COMPANY



Rudy D. Motto
Area Superintendent
Phone: 325-3587

SOUTHERN UNION PRODUCTION COMPANY

POST OFFICE BOX 888
FARMINGTON, NEW MEXICO 87401

August 23, 1976

United States Geological Survey
P. O. Box 959
Farmington, New Mexico 87401

Attention: Mr. P. T. McGrath

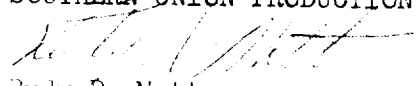
Dear Sir:

Southern Union Production Company proposes to drill the Helms Federal No. 1-A well located 790 feet from the North line and 1850 feet from the West line of Section 22, Township 30 North, Range 10 West, N.M.P.M., San Juan County, New Mexico.

Attached are maps showing the following data:

1. Existing roads.
2. Planned access road, approximately 800 feet of new road and 400 feet of regraded presently existing.
3. Location of existing wells.
4. Lateral roads to well locations.
5. Location of surface facilities which will be painted green.
6. Drilling and completion water will be obtained from the Animas river.
7. Waste will be disposed of by being placed in the reserve pit and buried. Some will be burned in the pit which will be covered after the well has been completed.
8. There will be no camp at or near the well site.
9. There will be no air strip.
10. A plat is attached showing the location of the rig, mud tanks, reserve pit, burn pit, ect.
11. A letter of Certification is attached.
12. After the well is completed the location will be cleaned and bladed. The reserve pit will be fenced until it has dried and then the timber and brush from the location will be placed in the pit. The pit will then be filled and restored to its natural state. The access road will be left as is for well maintenance.
13. After all work is completed reseeding will be accomplished using a disk type drill with two (2) boxes for each type of seed spaced eight (8) to ten (10) inches apart. The type of seed to be planted is 3-1/2 pound of pure live seed per acre of Crested wheat grass, 1/2 pound of pure live seed per acre of Fourwing Saltbush, 3/4 pound pure live seed per acre of Sand Dropseed and 1 pound pure live seed per acre of Alkali Sacaton. The seeder will be followed by a drag for uniform coverage and compaction. The reseeding program will be done between July 1, 1977 and September 15, 1977 due to the late date of this work.
14. The soil is sandy loam and the principal vegetation is sagebrush, juniper and pinon.

SOUTHERN UNION PRODUCTION COMPANY


Rudy D. Motto
Area Superintendent

RDK:ml