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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-031-20, 27
5. LEASE DESIGNATION AND SERIAL NO.

NM15843-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Jeffrey-Federal 30

9. WELL NO.

41

10. FIELD AND POOL, OR WILDCAT

Undesignated Dakota

11. SEC., T., R., M., OR BLK.
AND SURVEY OR AREA

Section 30-T17-R9W

N.M.P.M.

12. COUNTY OR PARISH 13. STATE

McKinley

N.M.

17. NO. OF ACRES ASSIGNED
TO THIS WELL 40

16. NO. OF ACRES IN LEASE
639.28

19. PROPOSED DEPTH

2800'

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

9 - 01 - 81

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	8 5/8	24.0	120'	125 sacks - to surface
7 7/8"	5 1/2"	10.50	2800'	370 sacks - to surface

All producing intervals in Dakota Formation will be perforated and stimulated as necessary.

This action is subject to administrative
action pursuant to 30 CFR 250.

EXHIBITS

- "A" Location and Elevation Plat.
- "B" Ten Point Compliance Program.
- "C" Blowout Preventer Diagram.
- "D" Multi-Point Requirements for A.P.D.

- "E" Access Road to Location.
- "F" Radius Map of Field.
- "G" Drill Rig Layout.
- "H" Fracturing Program Layout.
- "I" Location Profile

The gas from this well is not committed.
The NE/4NE/4Section 30 is dedicated to this well.

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. FOR: DAKOTA RESOURCES, INC.

ORIGINAL SIGNED BY

President, Walsh Eng.
& Production Corp.

SIGNED: EWELL N. WALSH, P. E.

TITLE

DATE 8/11/81

(This space for Federal or State office use)

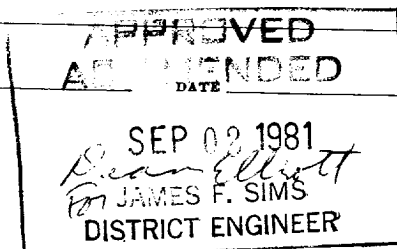
PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:



*See Instructions On Reverse Side

NMOCC

All distances must be from the outer boundaries of the Section.

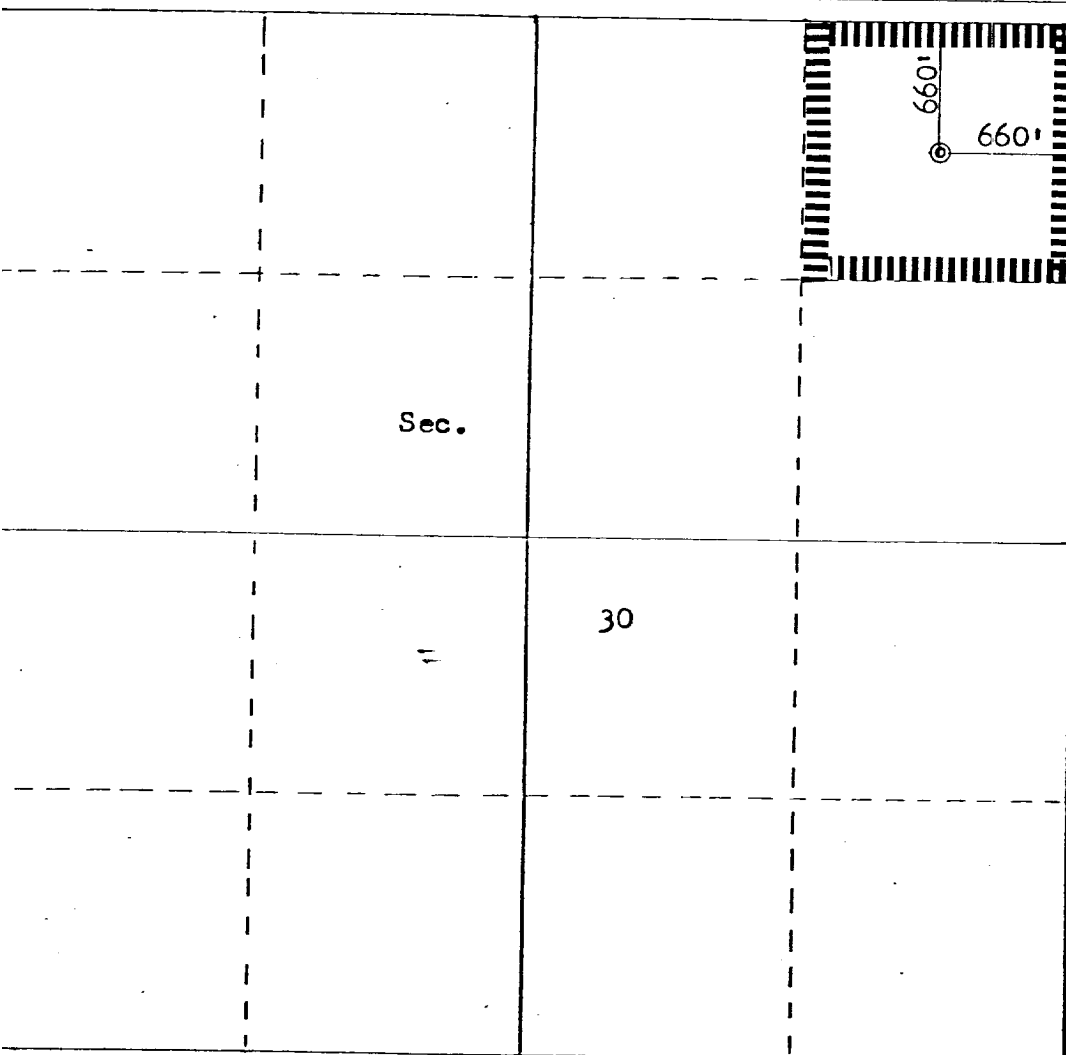
Operator DAKOTA RESOURCES, INCORPORATED			Lease JEFFREY-FEDERAL 30		Well No. 41
Unit Letter A	Section 30	Township 17N	Range 9W	County McKinley	
Actual Footage Location of Well: 660 feet from the North line and 660 feet from the East line					
Ground Level Elev: 6988	Producing Formation Dakota		Pool Undesignated	Dedicated Acreage: 40 Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 ☐ No 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 Commission.



Scale: 1"=1000'

CERTIFICATION	
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.	
FOR: DAKOTA RESOURCES, INC.	
ORIGINAL SIGNED BY EWELL N. WALSH	
Name	Ewell N. Walsh, P. E.
Position	President
Company	Walsh Engineering and Production Corp.
Date	August 11, 1981
I hereby certify that the well 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.	
Date Surveyed	May 28, 1981
Registered Professional Engineer and Land Surveyor	
Fred B. Kerr, Jr.	
Certificate No.	3950

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM

OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C

DAKOTA RESOURCES, INC.
Jeffrey-Federal 30, No. 41
660'FNL, 660'FEL, Section 30-T17-R9W
McKinley County, New Mexico

1. The Geologic Surface Formation

Menefee

2. Estimated Tops of Important Geologic Markers

Point Lookout	290'
Hospah	1360'
Massive Gallup	1480'
Dakota	2290'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

Hospah	-	1360', Oil & Gas
Massive Gallup	-	1480', Oil & Gas
Dakota	-	2290', Oil & Gas

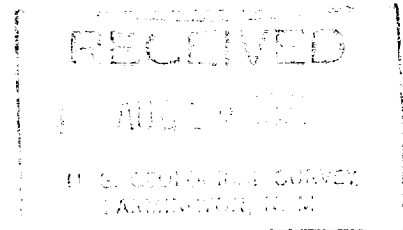
4. The Proposed Casing Program

<u>Hole Size</u>	<u>Interval</u>	<u>Section Length</u>	<u>Size (OD)</u>	<u>Weight, Grade and Joint</u>	<u>New or Used</u>
12 $\frac{1}{4}$ "	0'-120'	120'	8-5/8"	24# K-55 8 round ST&C	New
7-7/8"	0'-2800'	2800'	5 $\frac{1}{2}$ "	15.50 K-55 8 round ST&C	New

Cement Program

Surface - 8-5/8": 125 Sacks Class "B", 3% CaCl_2 & 1/4 lb. Flocele per sack.

Production - 5½" - 500 gallons Mud Flush Followed by 345 sacks 50/50 Pozmix, (2% Gel) with 6-1/4 lbs. Gilsonite and 6 lbs. salt per sack. Calculated top of cement at surface.



5. The Operator's Minimum Specifications for Pressure Control

EXHIBIT "C" is a schematic diagram of the blowout preventer equipment. The BOP's will be hydraulically tested to the full working pressure after nipping up and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams each time pipe is pulled out of the hole. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include floor safety valve, and choke manifold with pressure rating equivalent to the BOP stack.

6. The Type and Characteristics of the Proposed Circulating Muds

Mud system will be gel-chemical with adequate stocks of sorptive agents on site to handle possible spills of fuel and oil in the surface. Heavier muds will be on location to be added if pressure requires.

<u>Interval</u>	<u>Type</u>	<u>Weight/Gal.</u>	<u>Viscosity (Sec.)</u>	<u>Water Loss</u>	<u>Additives</u>
0-120'	Gel-Water	9.0	50	--	Lime
120'-T.D.	Gel-Chemical	8.8-9.2	42	8-10	Gel, Thinn CMC

7. The Auxiliary Equipment to be Used

- (a) A float will be used at the bit.
- (b) The mud system will be monitored visually.
- (c) A stabbing valve will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

(a) DST - None

(b) Logging - ISF 120'-T.D. CNL-FDC 120' - T.D.

(c) Coring - None

9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is 1000 psig.

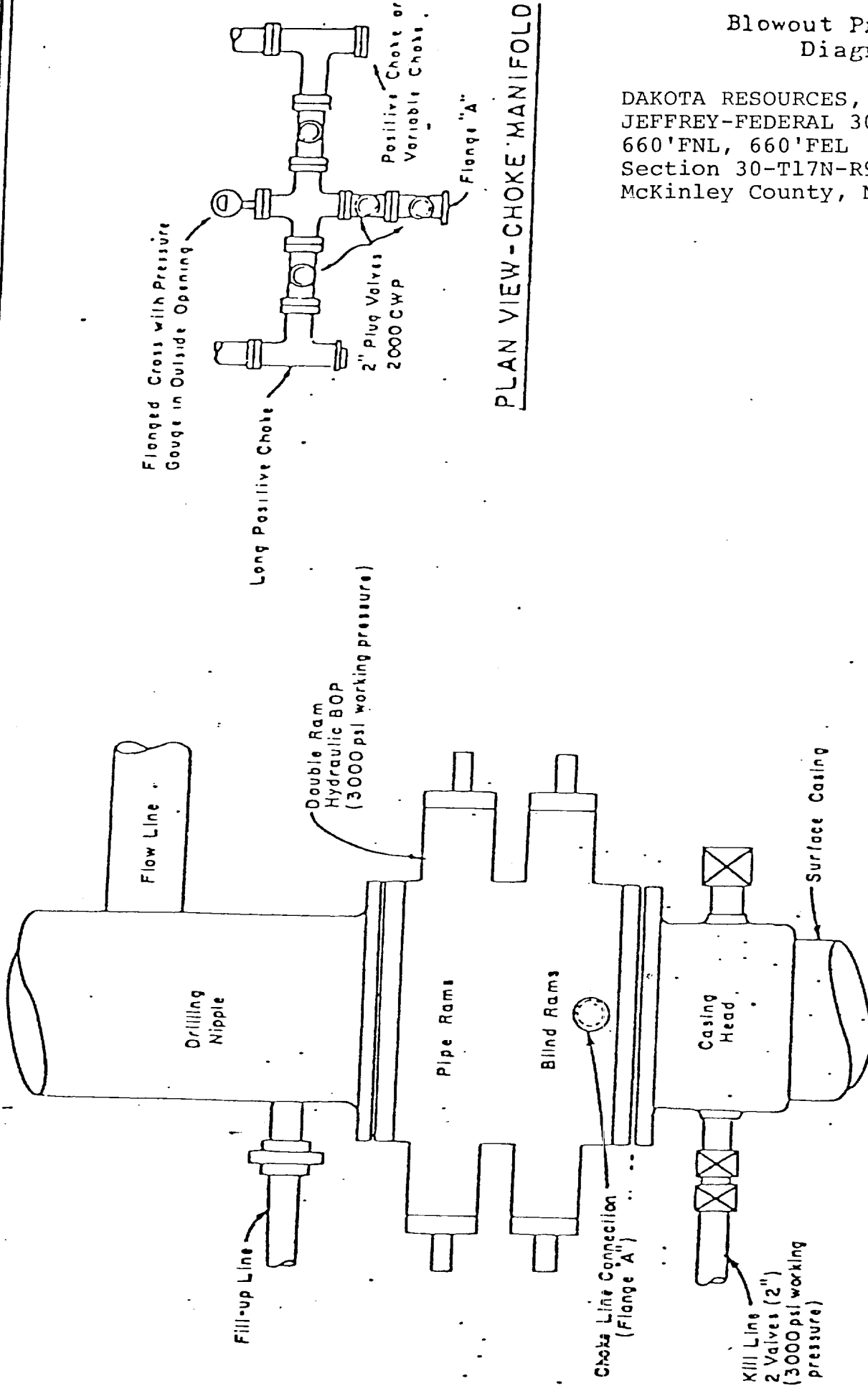
No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for Sept. 1, 1981 or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 20 days.

Blowout Preventer Diagram

DAKOTA RESOURCES, INC.
JEFFREY-FEDERAL 30, #41
660'FNL, 660'FEL
Section 30-T17N-R9W
McKinley County, New Mexico



PLAN VIEW-CHOKE MANIFOLD

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C

DAKOTA RESOURCES, INC.
JEFFREY FEDERAL 30, NO. 41
660'FNL, 660'FEL, Sec. 30-T17N-R9W
McKinley County, New Mexico

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A".
- B. Directions: Take Starlake road at 44 Store or road from Counselors Trading Post to Hospah. From Hospah take road to Pruitt for approximately 5 1/2 miles. Turn right, approximately 1 1/4 miles to location.
- C. All roads to location are indicated on Exhibit "E". Existing roads will be improved.
- D. Exploratory wells, existing roads: See Exhibit "E"
- E. Development wells, existing roads: N/A
- F. Improvement and maintenance: Existing roads need no improvement. Access road will be improved and maintenance will be performed as required.

2. Planned Access Roads

Exhibit "E" Access road, 1 1/4 mile, will have maximum width of 20'. No turnouts, no culverts, no gates, cattle guards or fence cuts. Surfacing material will be native soil.

3. Location of Existing Wells

For all existing wells within two mile radius of development well, see EXHIBIT "F".

- (1) There are no water wells within a two mile radius of this location.
- (2) There is 11 abandoned well in this two mile radius.

- (3) There are no temporarily abandoned wells.
- (4) There are no disposal wells.
- (5) There are no wells presently being drilled.
- (6) There are no producing wells within this two mile radius.
- (7) There is one shut-in well .
- (8) There are no injection wells.
- (9) There are no monitoring or observation wells for other uses.

4. Location of Existing and/or Proposed Facilities

A. Within one mile radius of location, the following existing facilities are owned or controlled by lessee/operator:

- (1) Tank Batteries: None
- (2) Production Facilities: None
- (3) Oil Gathering Lines: None
- (4) Gas Gathering Lines: None
- (5) Injection Lines: None
- (6) Disposal Lines: None

B. If production is obtained, new facilities will be as follows:

- (1) All production facilities will be located on the pad.
- (2) All well flow lines will be buried and will be on the well site and battery site.
- (3) Drill pad will be 300 feet long and 155 feet wide.
- (4) No construction materials for battery site and pad will be necessary.
- (5) Any necessary pits will be fenced and flagged to protect livestock and wildlife.
- (6) Rehabilitation whether well is productive or dry, will be made on all unused areas in accordance with BLM stipulations.

5. Location and Type of Water Source

- A. The source of water will be from ranchers water well and pond, 3 miles east of Hospah.
- B. Water will be transported by truck over existing roadways.
- C. No water well is to be drilled on this lease.

6. Construction Materials

- A. No construction materials are needed for drilling and access roads into the drilling location unless production is obtained. The surface soil materials will be sufficient or will be provided by the Dirt Contractor as needed.
- B. No construction materials will be taken off Federal or Indian Lands.
- C. All surface soil materials for construction of access roads are sufficient.
- D. All major access roads presently exist as shown on EXHIBIT "E".

7. Handling of Waste Materials and Disposal

- (1) Drill cuttings will be buried in the reserve pit and covered.
- (2) Drilling fluids will be handled in the reserve pit.
- (3) Any fluids provided during drilling test or while making production test will be collected in a test tank. If a test tank is not available during drilling, fluids will be handled in reserve pit. Any spills of oil, gas, salt waters or other noxious fluids will be cleaned up and removed.
- (4) Chemical facilities will be provided for human waste.
- (5) Garbage and non-flammable waste and salts and other chemicals produced during drilling or testing will be handled in trash pit. Flammable waste will be disposed of in burn pit. Drill fluids, water drilling mud and tailings will be kept in reserve pit, as shown on EXHIBIT "G ". Reserve pit will be fenced on three sides and the fourth side fenced upon removal of the rig.
- (6) After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. Any dangerous open pit will be fenced during drilling and kept closed until such time as the pit is leveled.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

- (1) EXHIBIT "G" is the Drill Pad Layout.

Topsoil, if removal required, will be stockpiled per specifications determined at time of pre-drill inspection.

- (2) EXHIBIT "G" is a plan diagram of the proposed rig and equipment reserve pit, burn and trash pit, pipe racks and mud tanks. No permanent living facilities are planned. There will be a trailer on site.

- (3) The reserve pits will not be lined. Steel mud tanks may be used during drilling operations.

10. Plans for Restoration

- (1) Backfilling, leveling and contouring are planned as soon as all pits have dried. Waste disposal and spoils materials will be buried or hauled away immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- (2) The soil banked material, if removal required, will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula provided by the BLM.
- (3) Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped; and the fencing will be maintained until leveling and cleanup is accomplished.
- (4) The rehabilitation operations will begin as soon as possible after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation is considered best from July 15 to September 15, unless requested otherwise.

11. Other Information

- (1) Soil - Sandyclay
Vegetation - Galleta and Sacaton
- (2) The primary surface use is for grazing. The surface is owned by the BLM.
- (3) The closest live water is the - None

The closest occupied dwellings - None

There are no known archaeological, historical, or cultural heritages that will be disturbed by this drilling.

- (4) Restrictions: Operator has all rights from surface to base of Dakota
- (5) Drilling is planned for on or about Sept. 1, 1981. Operations should be completed within 20 days.

12. Lessee's or Operator's Representative

Ewell N. Walsh, P.E. President
Walsh Engineering & Production Corporation
P. O. Box 254
Farmington, New Mexico 87401
Telephone: (505) 327-4892, 24 hrs.

13. Certification

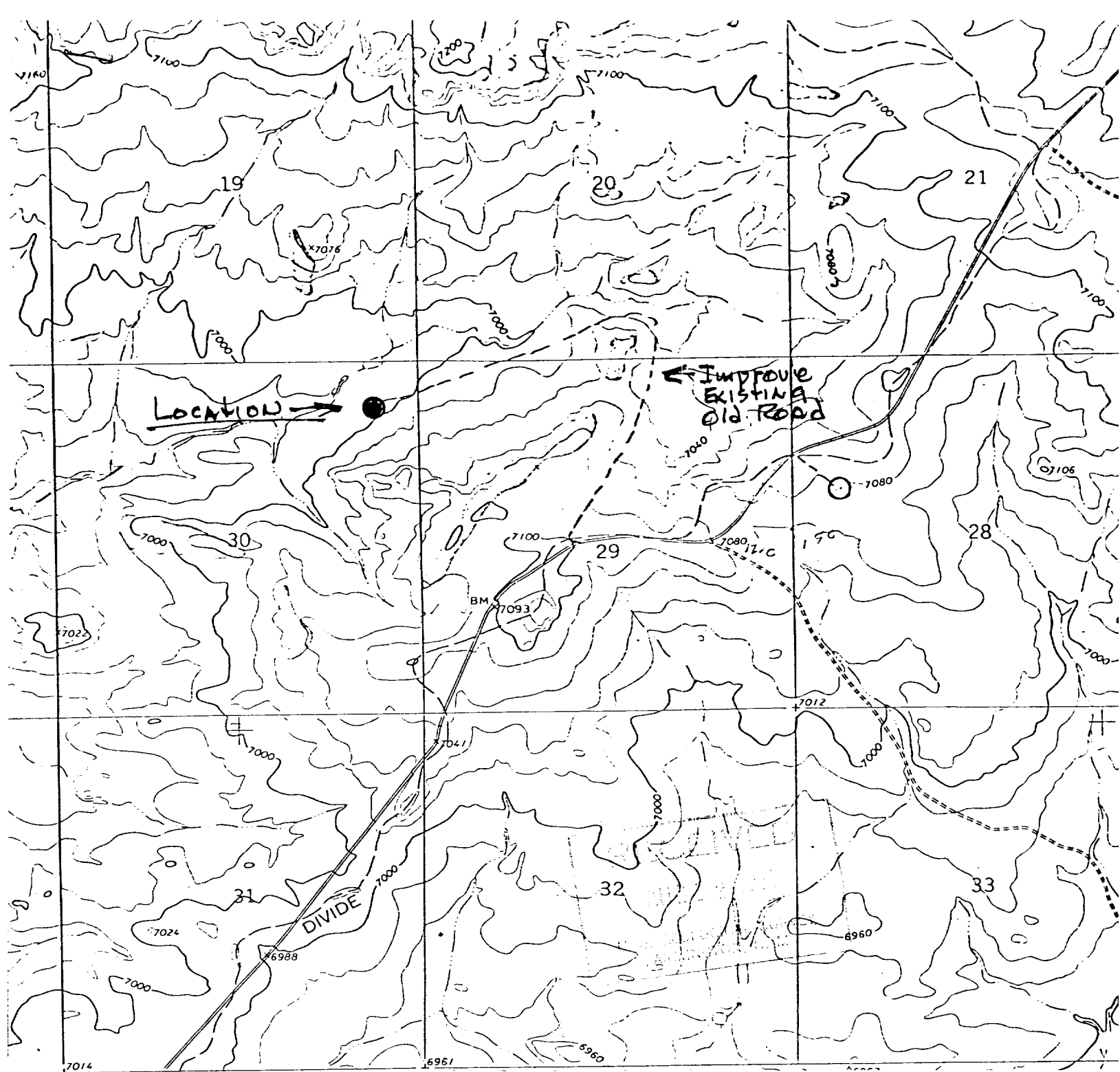
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Dakota Resources, Inc. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

August 11, 1981
Date

ORIGINAL SIGNED BY
EWELL N. WALSH

Ewell N. Walsh, P.E.
President
Walsh Engineering & Production Corp.

Walsh ENGINEERING & PRODUCTION CORP.



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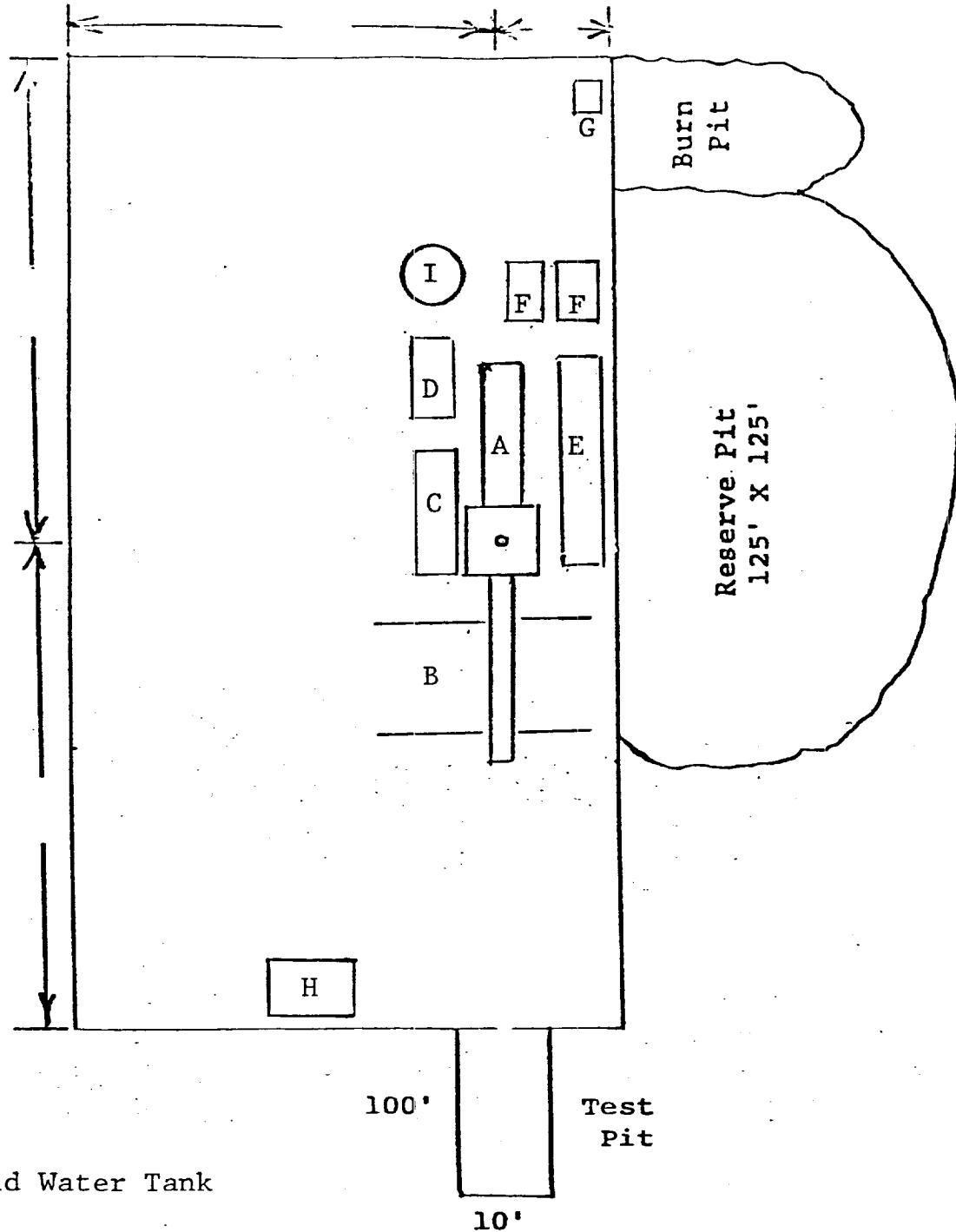
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EXHIBIT "F"
DAKOTA RESOURCES, INC.
JEFFREY FEDERAL-30, No. 41
RADIUS MAP

EXHIBIT "G"

Drill Rig Layout

DAKOTA RESOURCES, INC.
JEFFREY FEDERAL 30, NO. 41
660'FNL, 660'FEL, Sec. 30-T17N-R9W
McKinley County, New Mexico



- A - Rig
- B - Piperacks
- C - Doghouse and Water Tank
- D - Fuel
- E - Mud Pit
- F - Pumps
- G - Toilet
- H - Trailer House
- I - Oil Storage

EXHIBIT "H"

Fracturing Program
Layout

DAKOTA RESOURCES, INC.
JEFFREY FEDERAL 30, NO. 41
660' FNL, 660' FEL, Sec. 30-T17N-R9W
McKinley County, New Mexico

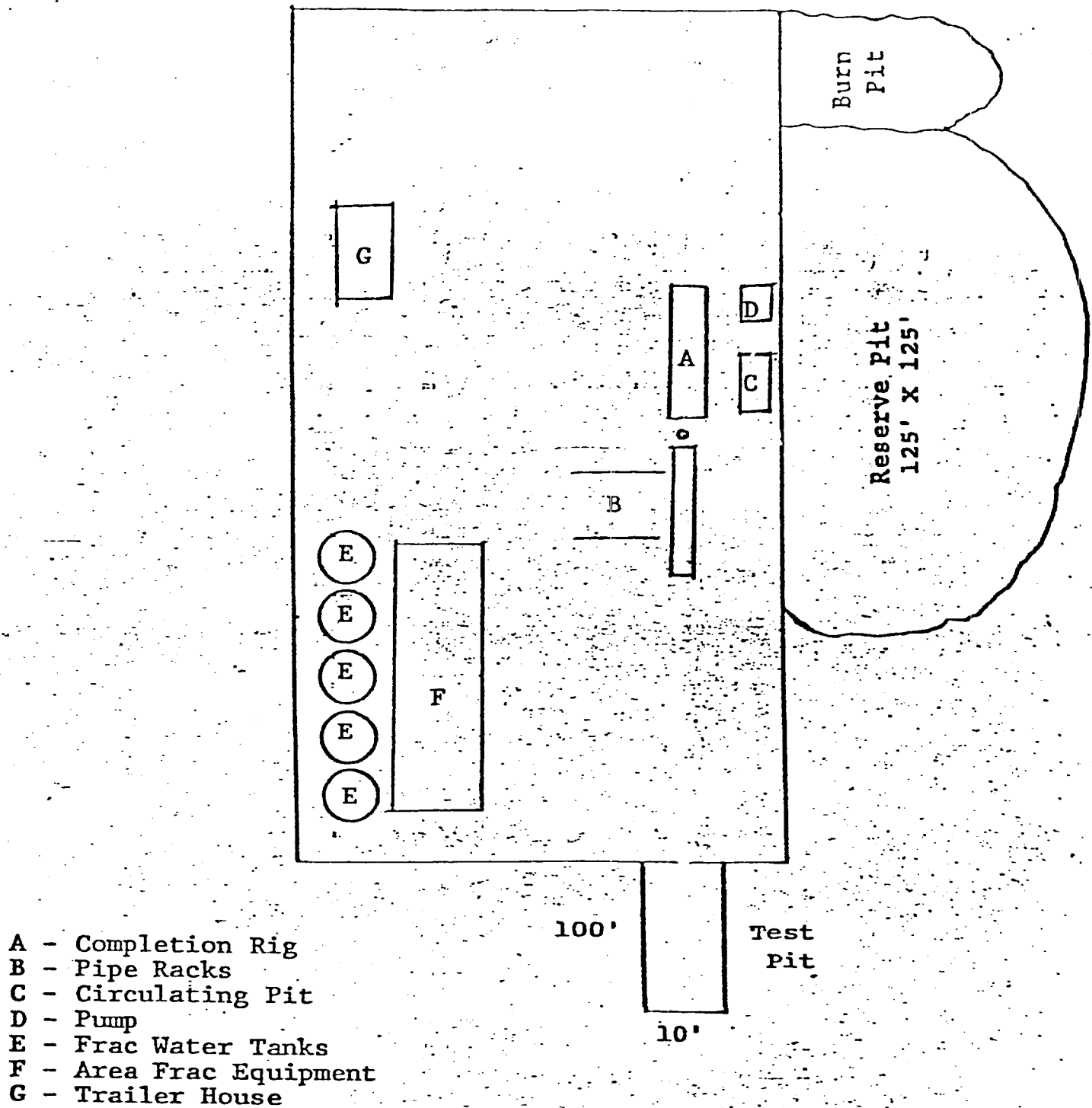


EXHIBIT "I"

