Form 9-331 C
(May 1963)

API # 30-021-20197

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42 R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.: NM 19714

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WORK: DRILL [X] DEEPEN [ ] PLUG BACK [ ]

b. TYPE OF WELL: OIL WELL [ ] GAS WELL [ ] OTHER — SINGLE ZONE [ ] MULTIPLE ZONE [ ]

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Bravo West

2. NAME OF OPERATOR: AMERADA HESS CORPORATION

9. WELL NO.: 1

3. ADDRESS OF OPERATOR: P. O. Box 2040 Tulsa, OK 74102

10. FIELD AND POOL, OR WILDCAT: Wildcat

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: 1784.1'FNL, 2363.8' FEL
At proposed prod. zone: As above

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FARMINGTON RESOURCE AREA

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: Sec. 33, T19N, R29E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: 6-1/2 miles northeast from Mosquero

12. COUNTY OR PARISH: Harding

13. STATE: New Mexico

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	16. NO. OF ACRES IN LEASE	17. NO. OF ACRES ASSIGNED TO THIS WELL
277'	1519.48	160
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.	**19. PROPOSED DEPTH**	**20. ROTARY OR CABLE TOOLS**
None	3000	Rotary

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 5395

22. APPROX. DATE WORK WILL START*: March 1

This action is subject to administrative appeal pursuant to 30 CFR 290.

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4	9-5/8	32.30#	800'	470 sx
8-3/4	7	20#	3000'	470 sx, tie back to 9-5/8

Procedures: Set 9-5/8" surface pipe @800'+ drill to TD w/low water loss mud. Run electric logs, set 7" production casing @3000' and cement 7" casing with enough cement to tie back to 9-5/8" surface.

Exhibit Attached:

A. Location and Elevation Maps
B. Access Road Topo Map
C. Multi-point Requirement for APD
D. 10 Point Compliance Program
E. Plat Showing Existing Wells
F. Rig Layout
G. BOP Diagram
H. 3 mile road radius map-Nearest town-water source location.

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SANTA FE

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.

SIGNED J. R. Wilson TITLE Supervisor Drlg.Admin. Serv. DATE 2-6-84

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

APPROVED
AS AMENDED
DATE MAR 06 1984
R. A. Lamphere
AREA MANAGER
FARMINGTON RESOURCE AREA

NMOCC SANTA FE

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Exhibit A
1 of 2

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section

Operator	Lease	Well No.
AMERADA HESS CORPORATION	Bravo West	1

Unit Letter	Section	Township	Range	County
G	33	T 19 N	R29 E	HARDING

Actual Footage Location of Well:
1784.1 feet from the NORTH line and 2363.8 feet from the EAST line

Ground Level Elev.	Producing Formation	Pool	Dedicated Acreage:
5395.0	Tubb	Wildcat	160 Acres

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.

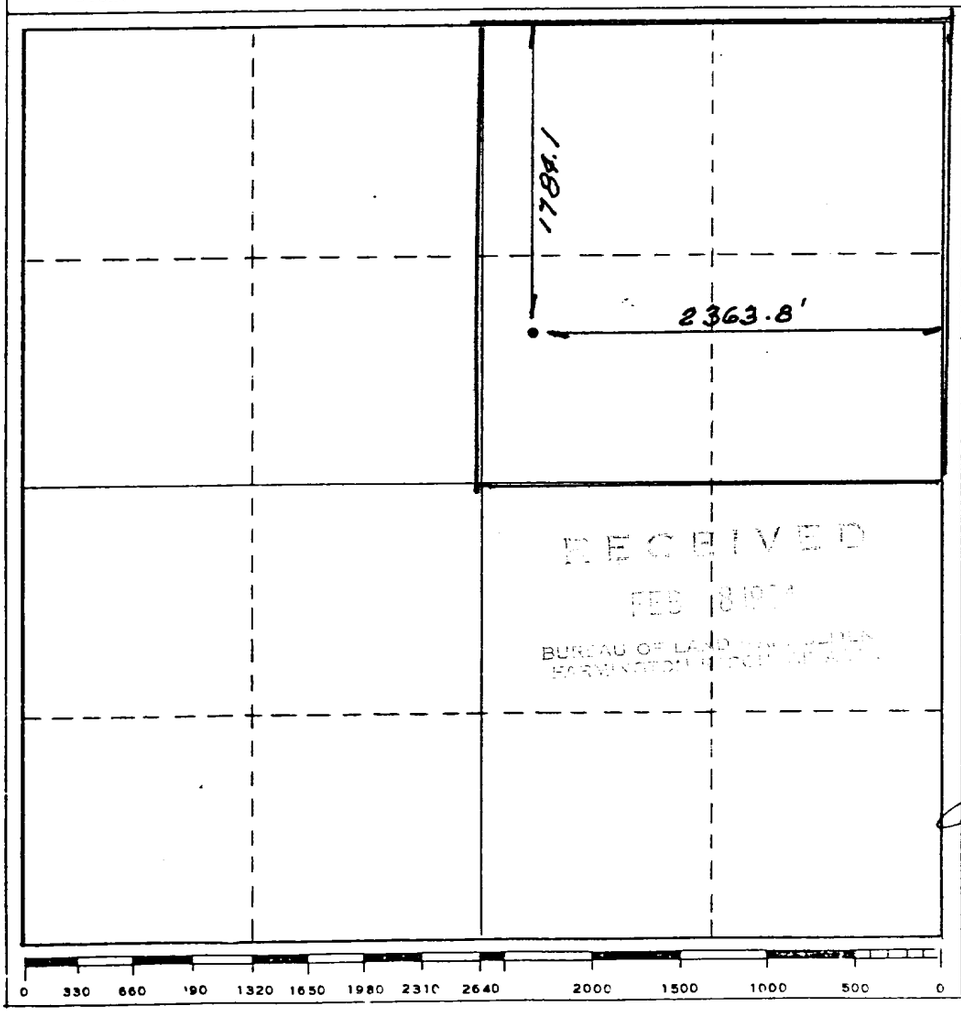
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).

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 ☐ 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.



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FEB 1984
BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

CERTIFICATION

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

J. R. Wilson

Name J. R. Wilson

Position Supervisor Prod Admin Lower

Company Amerada Hess Corp

Date 2-6-84

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 JANUARY 26, 1984

Registered Professional Engineer and/or Land Surveyor

N.M. L.S. No. 5303

Certificate No.

REGISTERED LAND SURVEYOR
STATE OF NEW MEXICO
5303
LEE E. SHIELDS

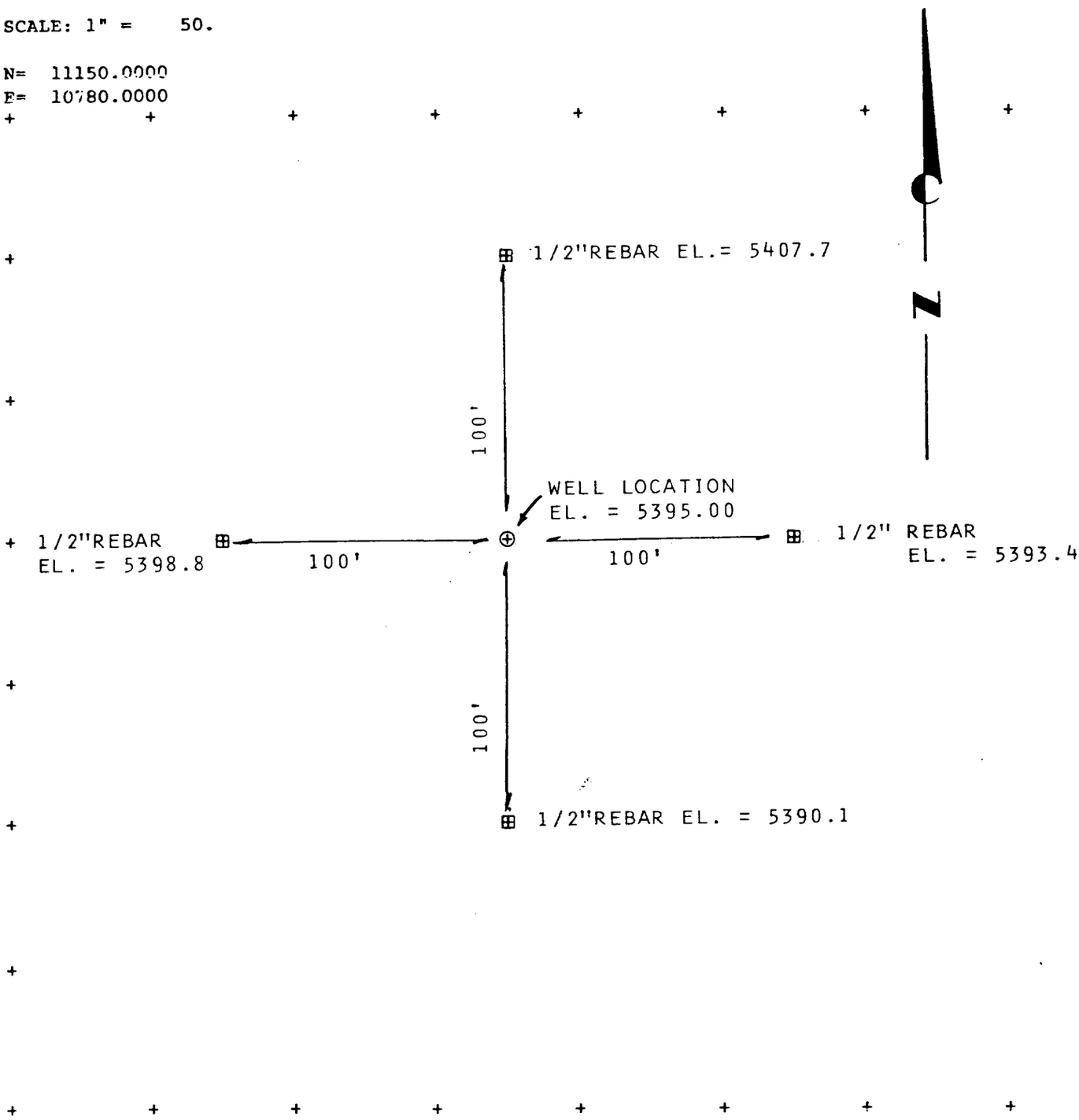
TULSA
1984 JAN 31 AM 3:43
DRILLING SERVICES

SHIELDS SURVEY CO. • Box 59, Clayton, New Mexico 88415 • Telephone (505) 374-8090

AMERADA HESS CORPORATION
WELL LOCATION
TOWNSHIP 19 NORTH RANGE 29 EAST SECTION 33
HARDING COUNTY NEW MEXICO
DATE OF SURVEY: JANUARY 26, 1984

SCALE: 1" = 50.

N= 11150.0000
E= 10780.0000



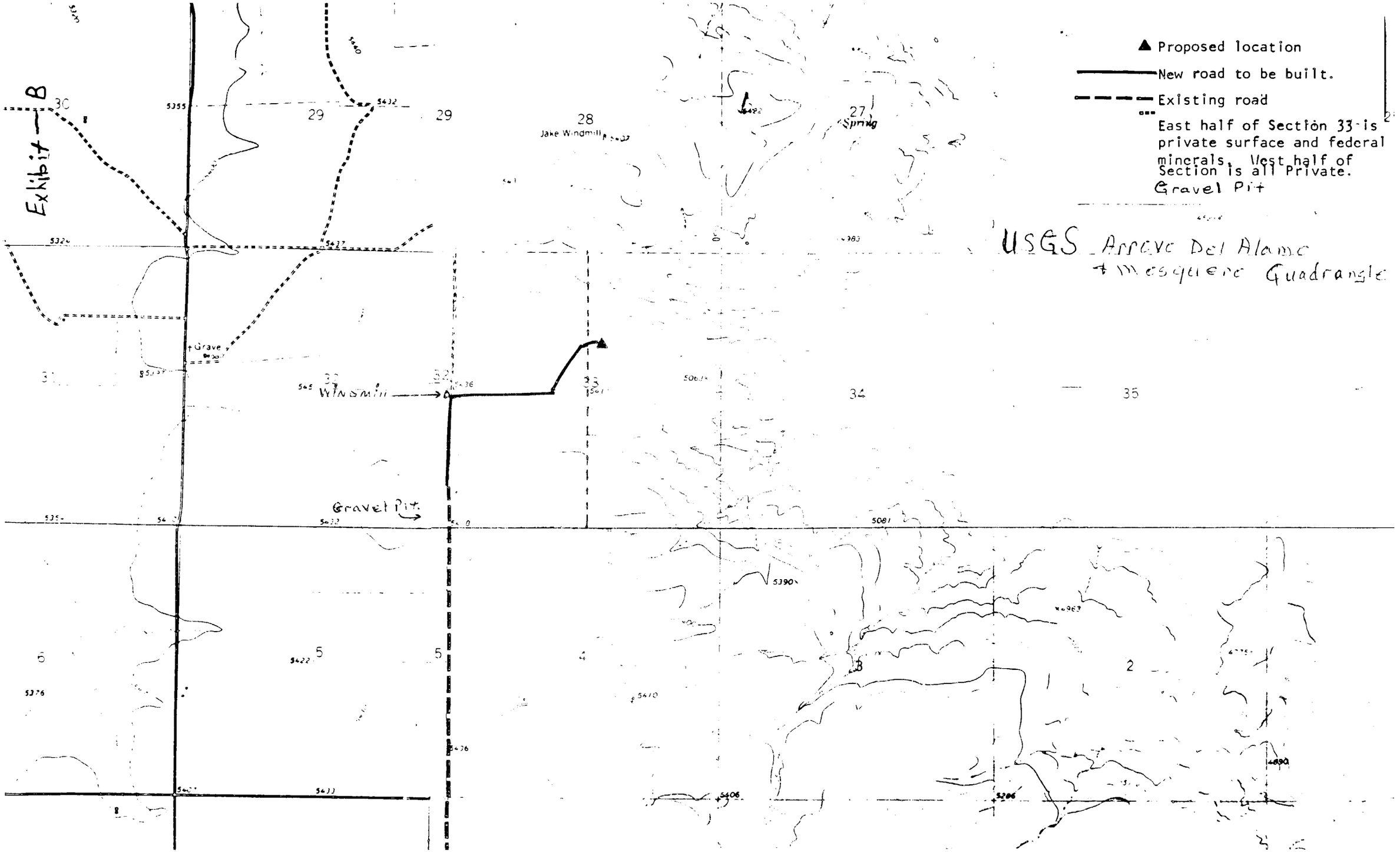


Exhibit B
▲ Proposed location
New road to be built.
Existing road
East half of Section 33 is private surface and federal minerals. West half of Section is all Private.
Gravel Pit
USGS Arroyo Del Alamo & Mesquero Quadrangle
Jake Windmill
Spring
WINDMILL
Gravel Pit
Grave
30
29
28
27
31
32
33
34
35
6
5
4
3
2
1

EXHIBIT C

MULTI POINT REQUIREMENTS FOR APD

COMPANY: AMERADA HESS CORPORATION

WELL: BRAVO WEST #1

WELL LOCATION: 1784.1' FNL & 2363.8' FEL
Section 33, T19N-R29E
Harding County, New Mexico

I. Existing Road
A. The proposed well site and plat is shown on Exhibit A.

B. From Mosquero go 4-1/2 miles east on highway 39 & 65, turn north on graded road 2-1/4 miles, (R. E. Brown's farm house) follow access road 1700' north, 2000' east and 1300' NE to location. See Exhibit B & H.

C. Access roads to location. See Exhibit B.

D. Existing roads within 3 mile radius Exhibit H.

E. NA

F. Grading only if needed.

II. Planned Access Roads
(1) Width 20'
(2) Maximum grade 1°
(3) Turnouts. None
(4) Drainage design. None
(5) Location & size of culverts & brief description of any major cuts and fills. None.
(6) Surface material. Gravel purchased from R. E. Brown's gravel pit. For location of pit see Exhibit B.
(7) Necessary gates, cattleguard, or fence cuts. None.
(8) No new or recondition roads are anticipated.

III. Location of Existing Wells - Exhibit E
(1) Water wells - See Exhibit E
(2) Abandoned wells - None
(3) Temporary abandoned wells - None
(4) Disposal wells - None
(5) Drilling wells - None
(6) Producing wells - None
(7) Shut in wells - See Exhibit E
(8) Injection wells - None
(9) Monitoring or observation wells - None

IV. Location of existing and/or producing facilities

A. None
B. Present drilling pad location of 180' x 140' will be used to install tanks, flowlines, etc. if needed.

C. Plan for rehabilitation of disturbed areas no longer needed for operation after construction completed. Location will be leveled, filled and reseeded as weather permits.

V. Location and type of water supply
A. Water will be hauled from Rose Bud to location, a distance of 23 miles east of location. Exhibit H

B. Water will be hauled by CO_2 In Action over highway 65 and 39 from Rose Bud to location.

C. NA

VI. Source of construction material.

The only construction material needed will be Caliche purchased from R. E. Brown's Caliche pit. See Exhibit B.

VII. Method of handling waste disposal.
A. Cuttings will be disposed of in the reserve pit.

B. Drilling fluids will be allowed to evaporate in the reserve pit until the pit is dry.

C. Produced fluids (oil, water) will be contained in tanks and be disposed of in an approved manner. Oil produced will be stored in tanks until sold, at which time it will be hauled from location.

D. Current laws and regulation pertaining to disposal of human waste will be complied with.

E. Garbage and other waste material will be burned or buried with a minimum of 24" cover. Waste material will be contained to prevent scattering by wind prior to ultimate disposal.

F. After rig moves off location, all disturbed area will be leveled, reseeded and fenced if necessary.

VIII. Ancillary Facilities
None required

P-2-83

IX. Wellsite Layout
A. See Exhibit F
B. Pits will be lined

X. Restoration of Surface
Production Well - all pits will be cut, filled and leveled as soon as practical to original condition with rehabilitation to commence following removal of drilling and completion equipment. Rehabilitation to be completed in 180 days if possible.

Dry Hole - same as above with dry hole marker to be installed and surface reseeded if required.

XI. Other Information
General description of:
(1) Archaeological Report to be sent direct from archaeologist.

(2) Surface ownership is held by R. E. Brown and uses the surface primarily for grazing.

(3) There is a water well approximately 1/2 mile west of location. Mr. Brown's home is approximately 3/4 miles SW of location.

XII. Lease Opeation Representative

Drilling	Mr. Steve Butler Seminole, Texas Home: 915 758-2775 Office: 915 758-6780	Sr. Drilling Engineer
Production	Mr. A. J. Troop Monument, New Mexico Home: 505 392-8809 Office: 505 393-2144	Dist. Supt.

XIII. I hereby certify that the location as herein outlined and the access routes have been inspected. 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 Amerada Hess Corporation and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Dated:

J. R. Wilson
J. R. Wilson
Supervisor Drilling Administrative Services

p. 3 of 3

TEN POINT COMPLIANCE PROGRAM NTL-6
APPROVAL OF OPERATIONS

COMPANY: Amerada Hess Corp.

WELL: Bravo West #1

WELL LOCATION: 1784' FNL 2363.8' FEL, Sec. 33, T19N-R29E

County: Harding State: New Mexico

1. Geological surface formation:

   Tertiary - Ogallala

2. Estimated important geologic markers:

Santa Rosa	1545'	Precambrian	2975'
San Andres	1995'	TD (Estimated)	3000'
Glorieta	2225'		
Tubb	2775'		

3. Estimated depths of anticipated water, oil, gas to be encountered:

Formation	Depth	Remarks
Tubb	2775'	Gas

4. The proposed Casing Program:

Size Hole	Size Csg	Wt/Ft & Grade	Condition	Setting Depth
12-1/4	9-5/8"	32.30 H-40	New	800'
8-3/4"	7"	20# K-55	New	3000'

5. The operator's minimum specifications for pressure:

   Operators minimun specification for pressure control, Exhibit "G", is a schematic diagram of the BOP equipment. The BOP will be hydraulically tested to the full working pressure aftger nippling up and after any use under pressure. Pipe rams will be operationally checked each 24 hour period and blind rams checked each time pipe is pulled out of hole. Drilling string and choke manifold will have pressure rating equivalent to BOP stack.

6. The type and characteristics of the proposed circulating muds:

Depth	Mud Wt		Vis	WL	Remarks
0-800'	8.3-8.5	FW Gel Lime	34	NC	Native Mud
800-2475'	8.6-9.0		30-32	NC-20	6% KCL
2475-3000'	8.9-9.0		45-60	5-10	6% KCL

7. The auxiliary equipment to be used:

   Sub on floor will have full opening valve to be stabbed into DP when kelly is not in string.

8. The Testing, Logging and Coring Programs to be followed:

   A. DST None Anticipated
   B. Cores None Anticipated
   C. Compensated Neutron - Formation Density Gamma Ray, Dual Lateralog Micro - SFL Caliper Gamma Ray

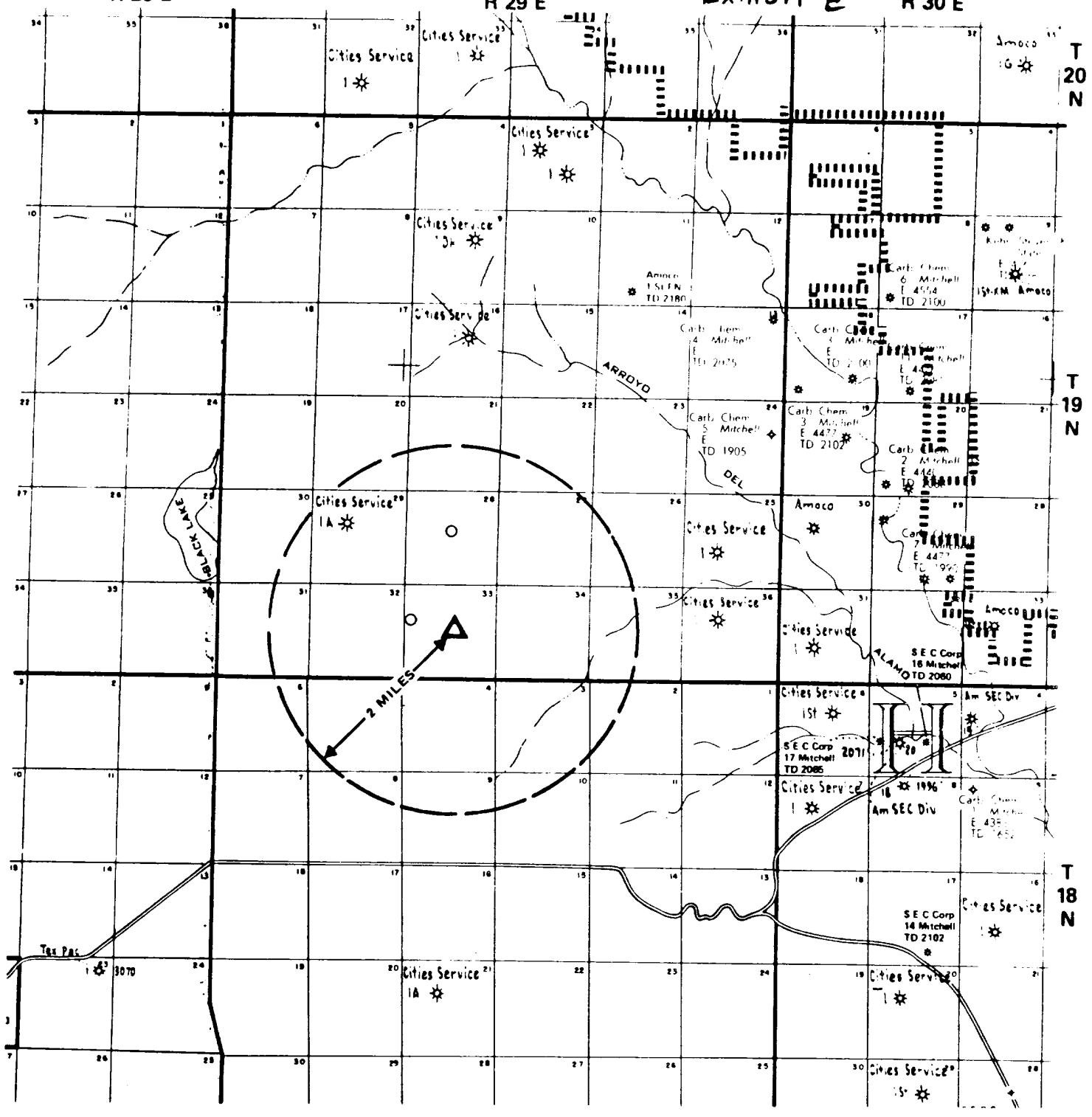
9. Any anticipated abnormal pressures or temperatures expected:

   None anticipated

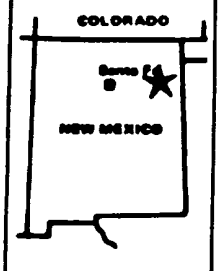
10. The anticipated starting date and duration of the operations:

    Expected spud date is March 1 and take approximately 5-10 days.

Exhibit E



LOCATION MAP



LEGEND

- Proposed Location
- Water Well
- Shut In CO_2
- Bravo Dome CO_2 Gas Unit

TULSA TECHNICAL SERVICES

Harding County, New Mexico

AMERADA HESS

PROPOSED LOCATION

0 1 2 MiNes

Geologist: H. F. Middelton	Date: 2/84	Page No.
Geophysicist:	Prospect No:	Budget No.
Interval:		

Exhibit F

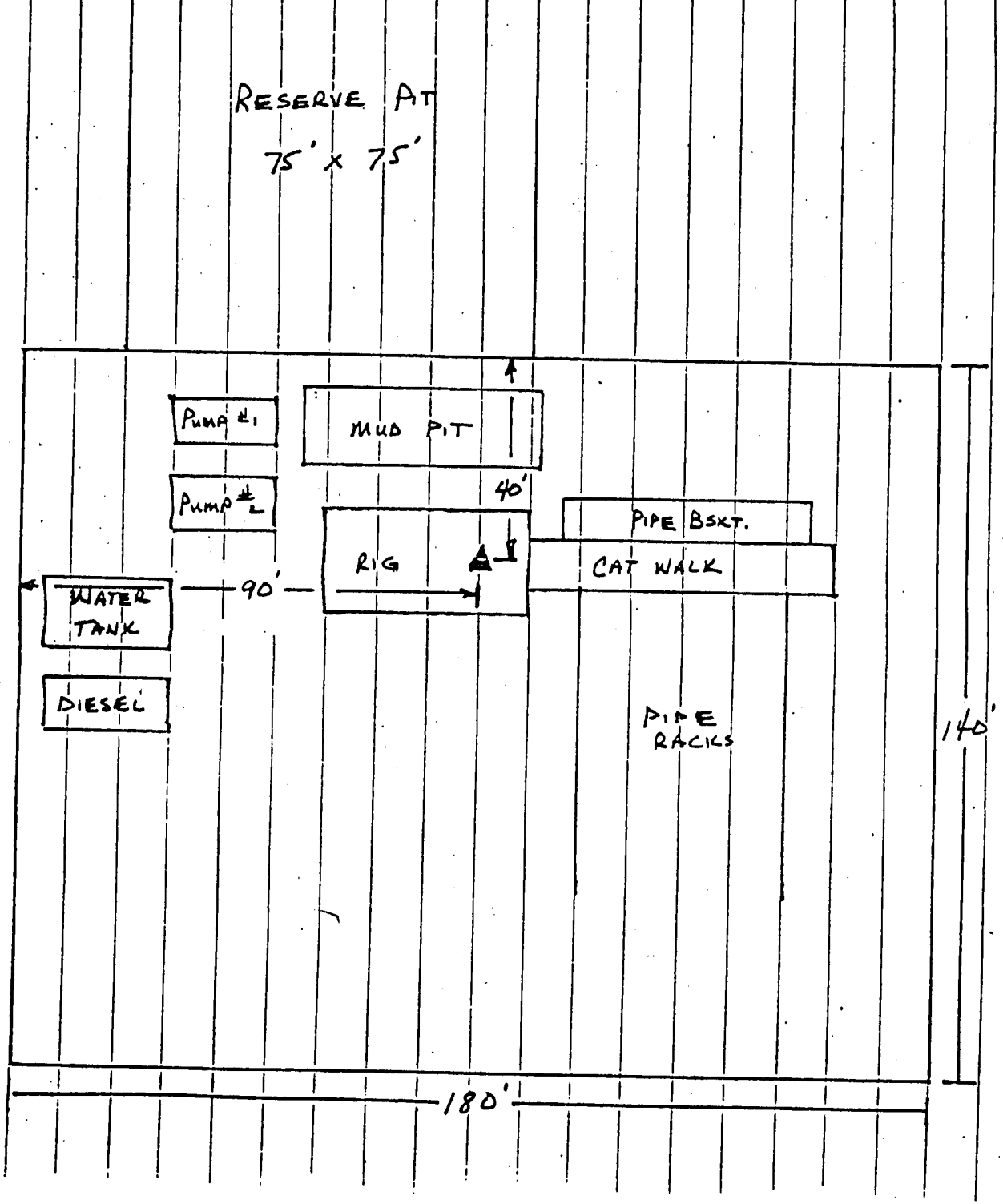

N
RESERVE AT
75' x 75'
PUMP #1
PUMP #2
MUD PIT
40'
PIPE BSKT.
RIG
CAT WALK
90'
WATER TANK
DIESEL
PIPE RACKS
140'
180'

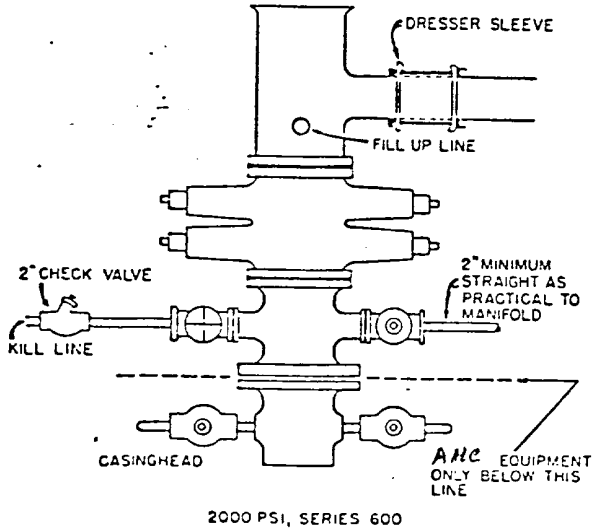
Exhibit G

STANDARD 2000 PSI W.P. BOP STACK

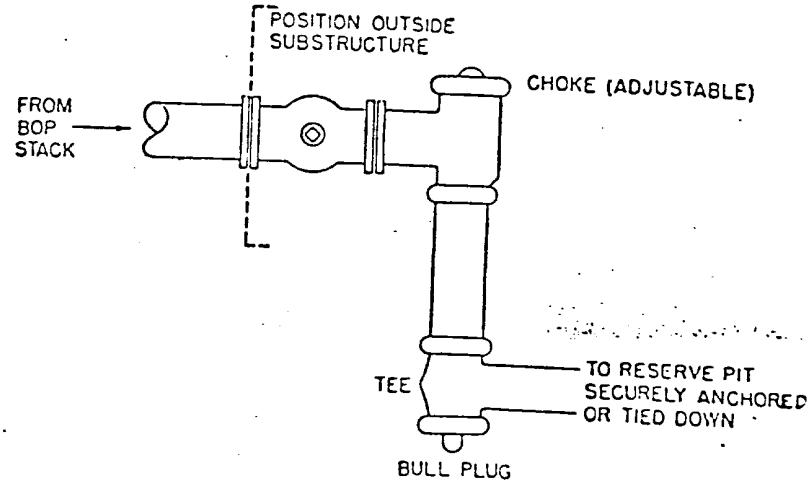
1. Blow-out preventers may be manually operated.
2. All equipment must be in good condition. 2,000 psi W.P. (4,000 psi test) minimum.
3. Bell nipple above blow-out preventer shall be same size as casing being drilled through.
4. Kelly cock to be installed on kelly.
5. Full opening safety valve 2,000 psi w.p. (4,000 psi test) minimum must be available on rig floor at all times with proper connection or subs to fit any tool joint in string.
6. Spool or cross may be eliminated if connections are available in the lower part of the blow-out preventer body.
7. Double or space saver type preventers may be used in lieu of two single preventers.
8. BOP rams to be installed as follows:*

   Top preventer - Drill pipe or casing rams
   Bottom preventer - Blind rams

   * District Superintendent may reverse location of rams.
9. Extensions and hand wheels to be installed and braced at all times.
10. Manifold valves may be gate or plug metal to metal seal 2" minimum.



2000 PSI, SERIES 600



2000 PSI W.P.

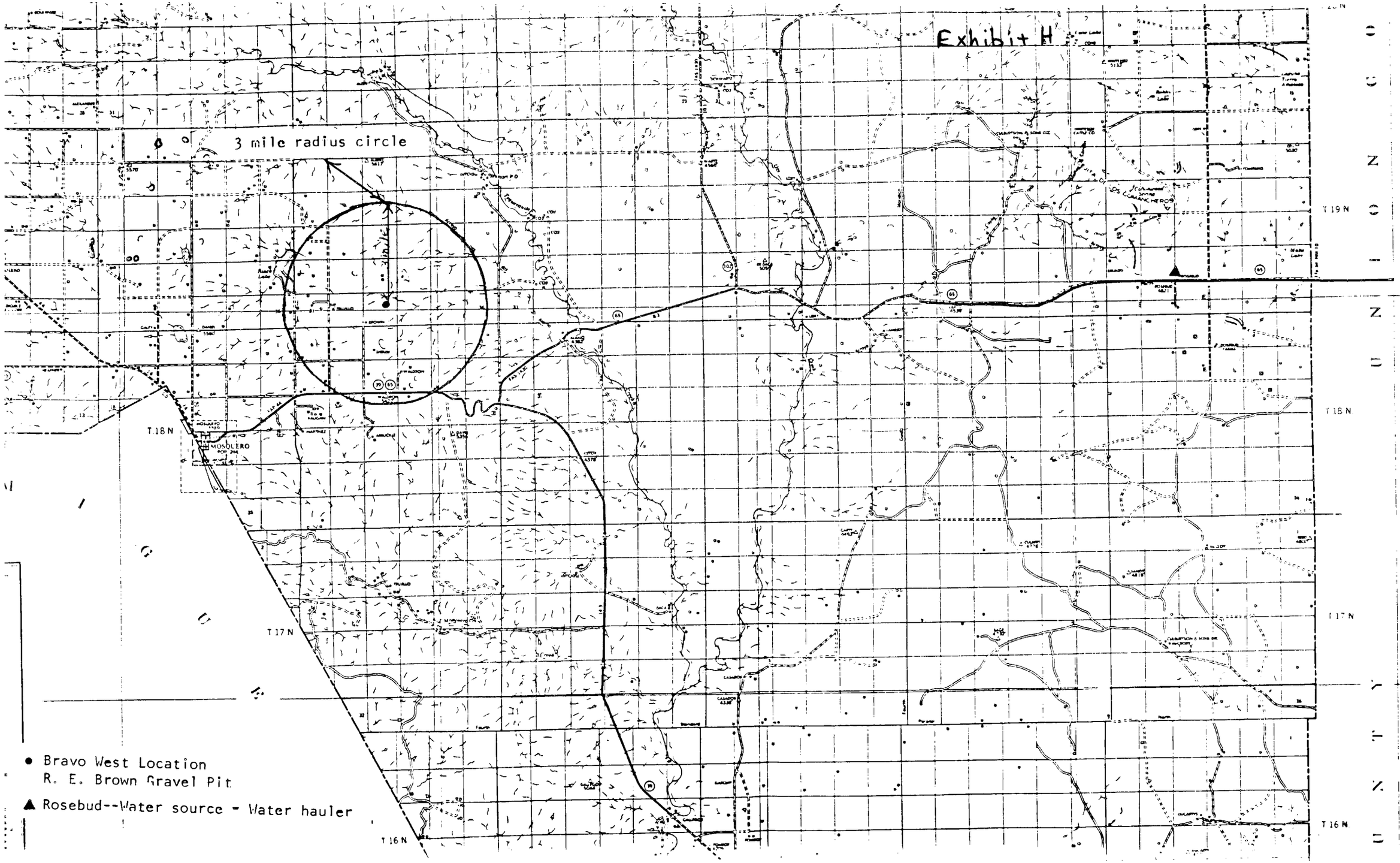
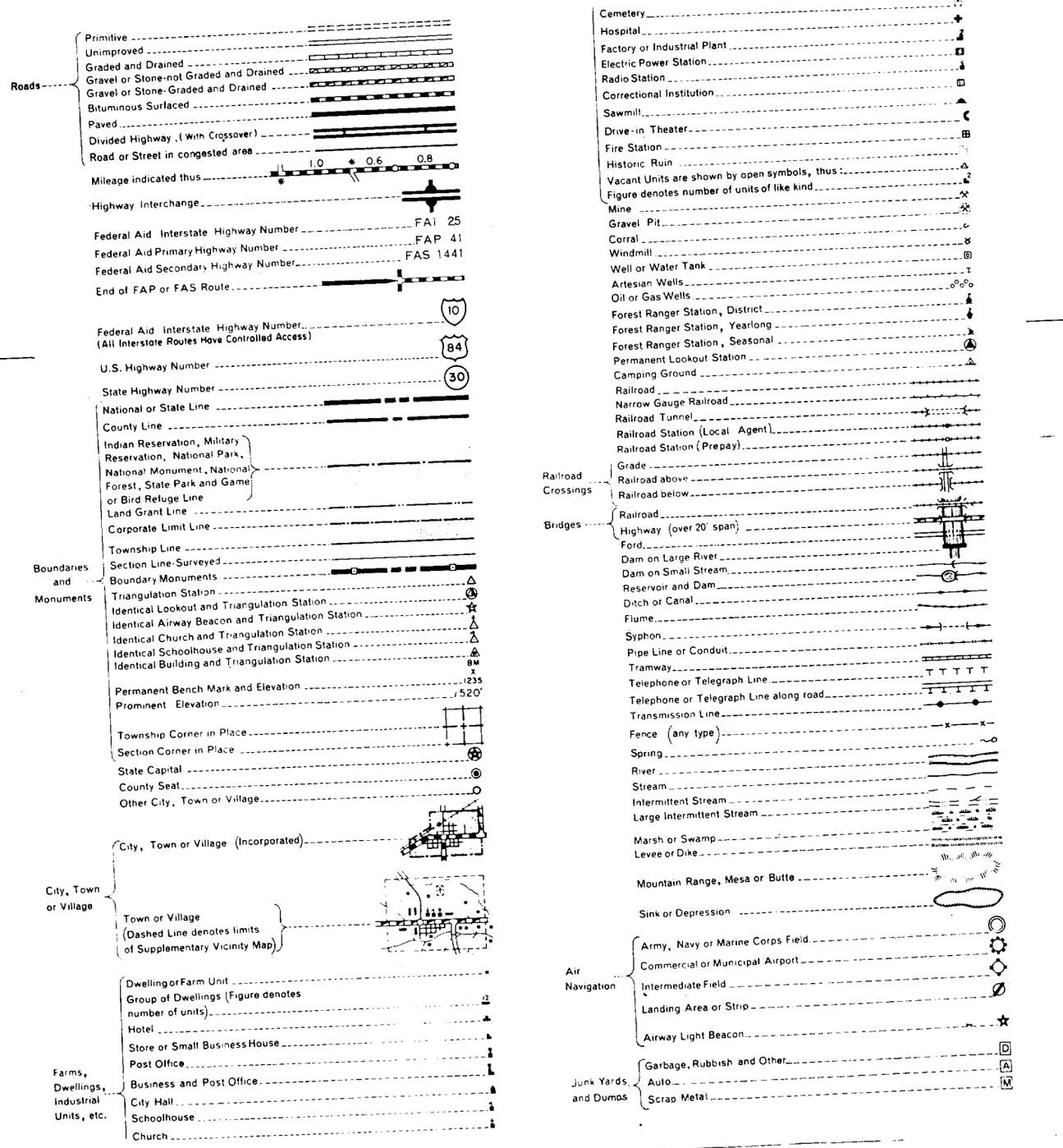


Exhibit H
3 mile radius circle
T 19 N
T 18 N
T 17 N
T 16 N
MONTEZUMA
MONOLERO
● Bravo West Location
R. E. Brown Gravel Pit
▲ Rosebud--Water source - Water hauler

LEGEND



GENERAL HIGHWAY MAP

HARDING COUN

NEW MEXICO

PREPARED BY THE

NEW MEXICO STATE HIGHWAY DEPARTM

PLANNING AND PROGRAMMING DIVISION