

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

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

AMERADA HESS CORPORATION

3. ADDRESS OF OPERATOR

P. O. Box 2040 Tulsa, OK 74102

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

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

6-1/2 miles northeast from Mosquero

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

277'

16. NO. OF ACRES IN LEASE

1519.48

17. NO. OF ACRES ASSIGNED
TO THIS WELL

160

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

None

19. PROPOSED DEPTH

3000

20. ROTARY OR CABLE TOOLS

Rotary

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

5395

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

22. APPROX. DATE WORK WILL START*

March 1

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

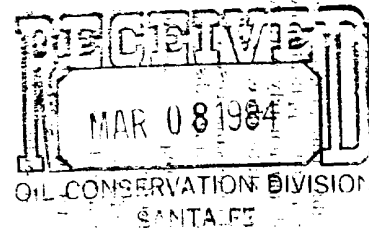
23. PROPOSED CASING AND CEMENTING PROGRAM

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.



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

J. R. Wilson TITLE Supervisor Drlg. Admin.

SIGNED DATE 7-6-84

(This space for Federal or State office use)

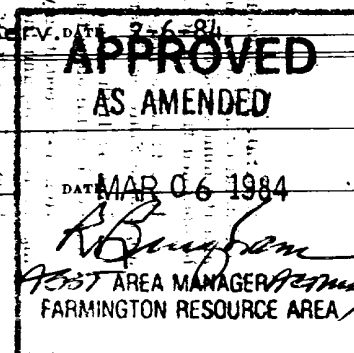
PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:



NMOCC SANTA FE

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Exhibit A
1062

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

All distances must be from the outer boundaries of the Section

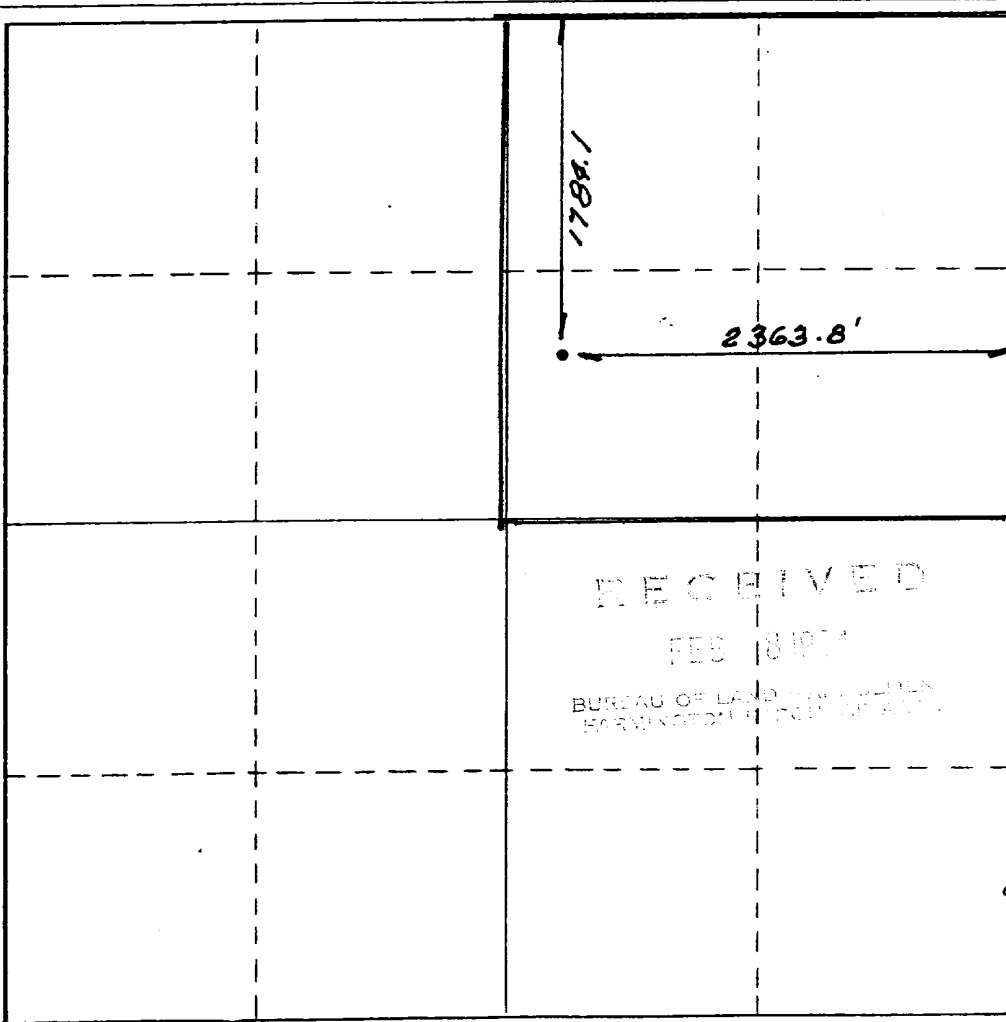
Operator AMERADA HESS CORPORATION			Lease Bravo West		Well No. 1
Unit Letter G	Section 33	Township T 19 N	Range R 29 E	County HARDING	
Actual Footage Location of Well: 1784.1 feet from the NORTH line and 2363.8 feet from the EAST line					
Ground Level Elev. 5395.0	Producing Formation Tubb	Pool Wildcat	Dedicated Acreage: 160 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.



CERTIFICATION

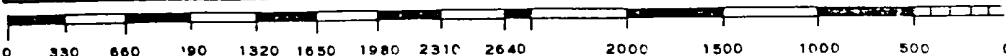
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

J. R. Wilson

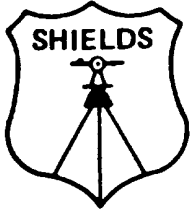
Name
J. R. Wilson
Position
Supervisor Drilling Admin. Serv.
Company
Amerada Hess Corp.
Date
2-6-84

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.

JAN 31 1984
Date Surveyed
REGISTERED LAND SURVEYOR
N.M. 5103
N. M. L. S. E. SHIELDS
Certificate No.



TULSA
1984 JAN 31 AM 3:43
DRILLING SERVICES

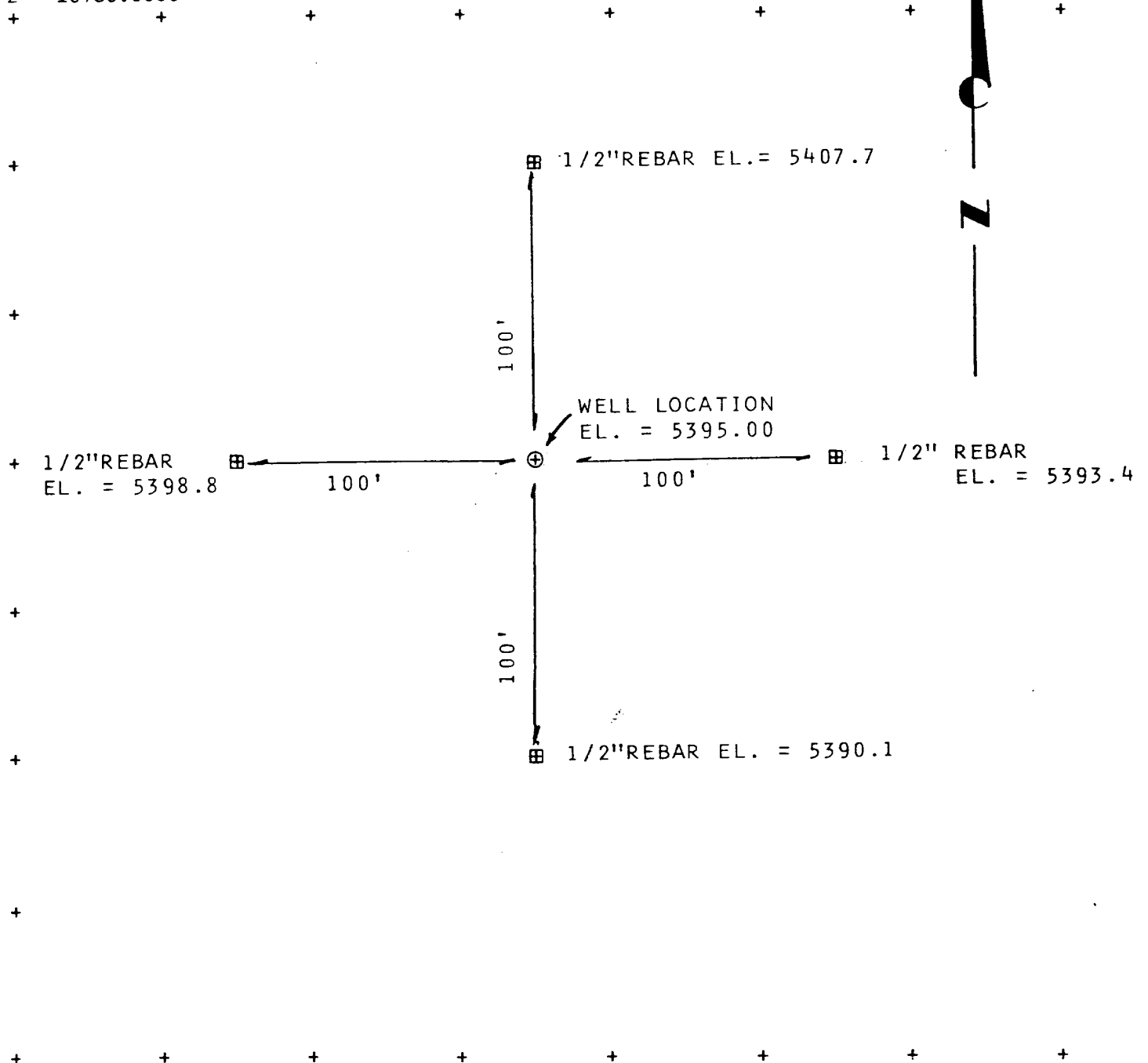


SURVEY CO. • Box 59, Clayton, New Mexico 88415 • Telephone (505) 374-8090

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

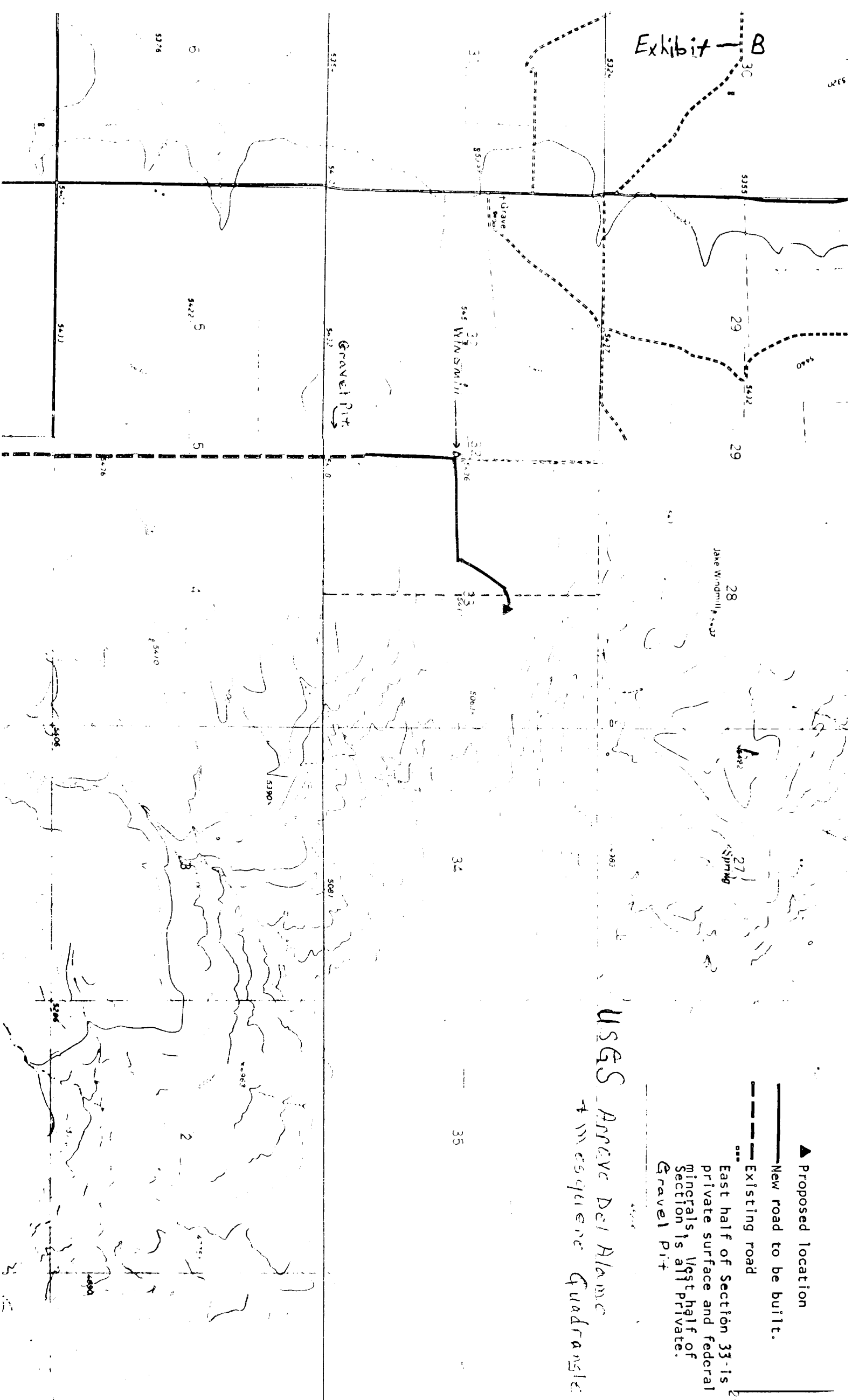
SCALE: 1" = 50.

N= 11150.0000
E= 10780.0000



TULSA
1984 JAN 31 AM 3:43
DRILLING SERVICES

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

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

P-1063

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 CO₂ 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 Operation Representative

Drilling Mr. Steve Butler Sr. Drilling Engineer
Seminole, Texas
Home: 915 758-2775
Office: 915 758-6780

Production Mr. A. J. Troop Dist. Supt.
Monument, New Mexico
Home: 505 392-8809
Office: 505 393-2144

- 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 minimum 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 after nipping 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.

TPC PROGRAM NTL-6
Page Two

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:

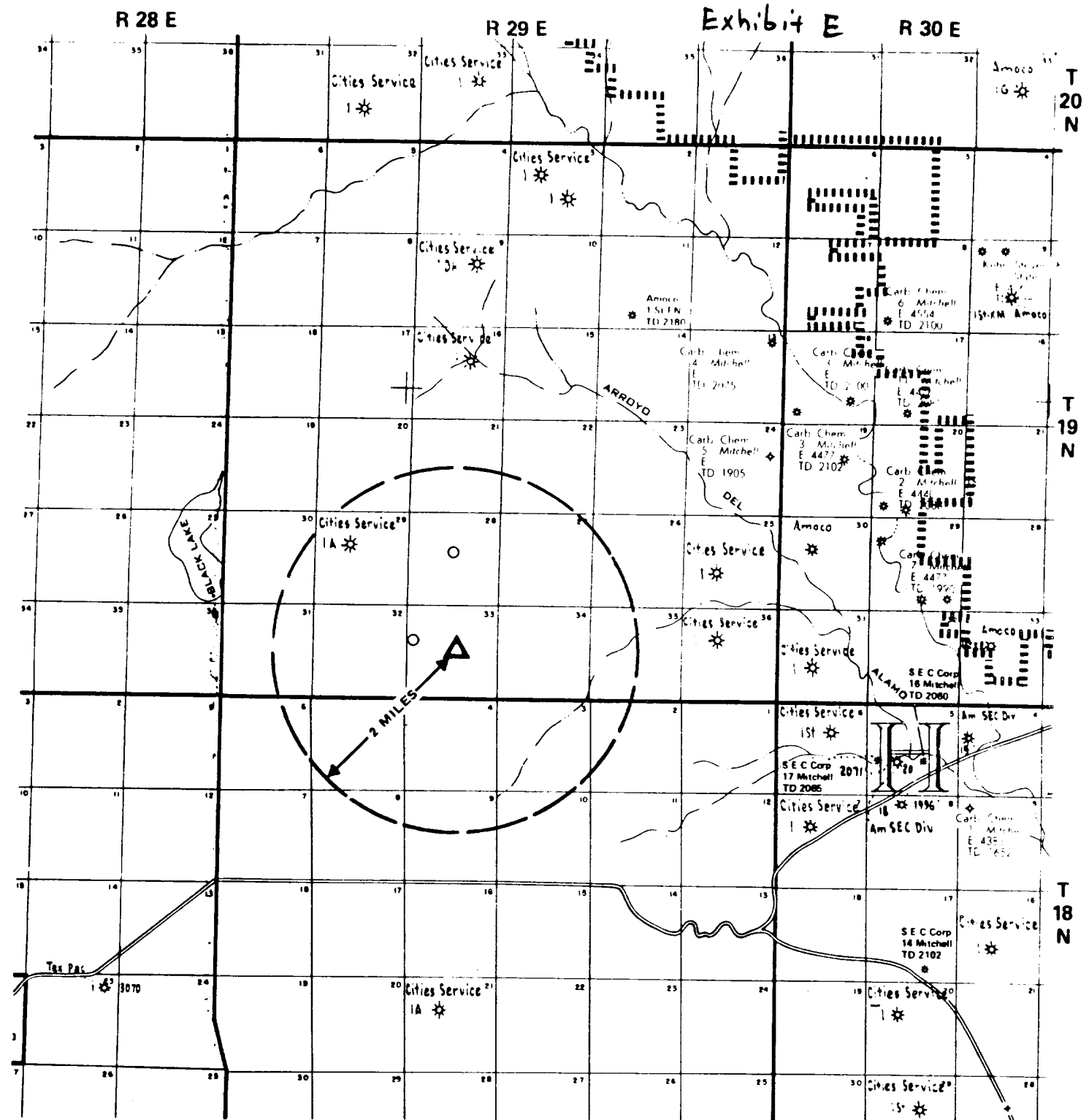
- A. DST None Anticipated
- B. Cores. None Anticipated
- C. Compensated Neutron - Formation Density Gamma Ray, Dual
Lateralog Micro - SFL Caliper Gamma Ray

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.



LOCATION MAP COLORADO NEW MEXICO	LEGEND Proposed Location Water Well Shut In CO₂ Bravo Dome CO₂ Gas Unit	TULSA TECHNICAL SERVICES Harding County, New Mexico PROPOSED LOCATION 0 1 2 MILES <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Geologist: H. F. Middleton</td> <td style="width: 25%;">Date: 2/84</td> <td style="width: 25%;">Page No.</td> </tr> <tr> <td>Geophysicist:</td> <td>Prospect No:</td> <td>Budget No.</td> </tr> <tr> <td>Interval:</td> <td></td> <td></td> </tr> </table>	Geologist: H. F. Middleton	Date: 2/84	Page No.	Geophysicist:	Prospect No:	Budget No.	Interval:		
Geologist: H. F. Middleton	Date: 2/84	Page No.									
Geophysicist:	Prospect No:	Budget No.									
Interval:											

RESERVE AT
75' x 75'

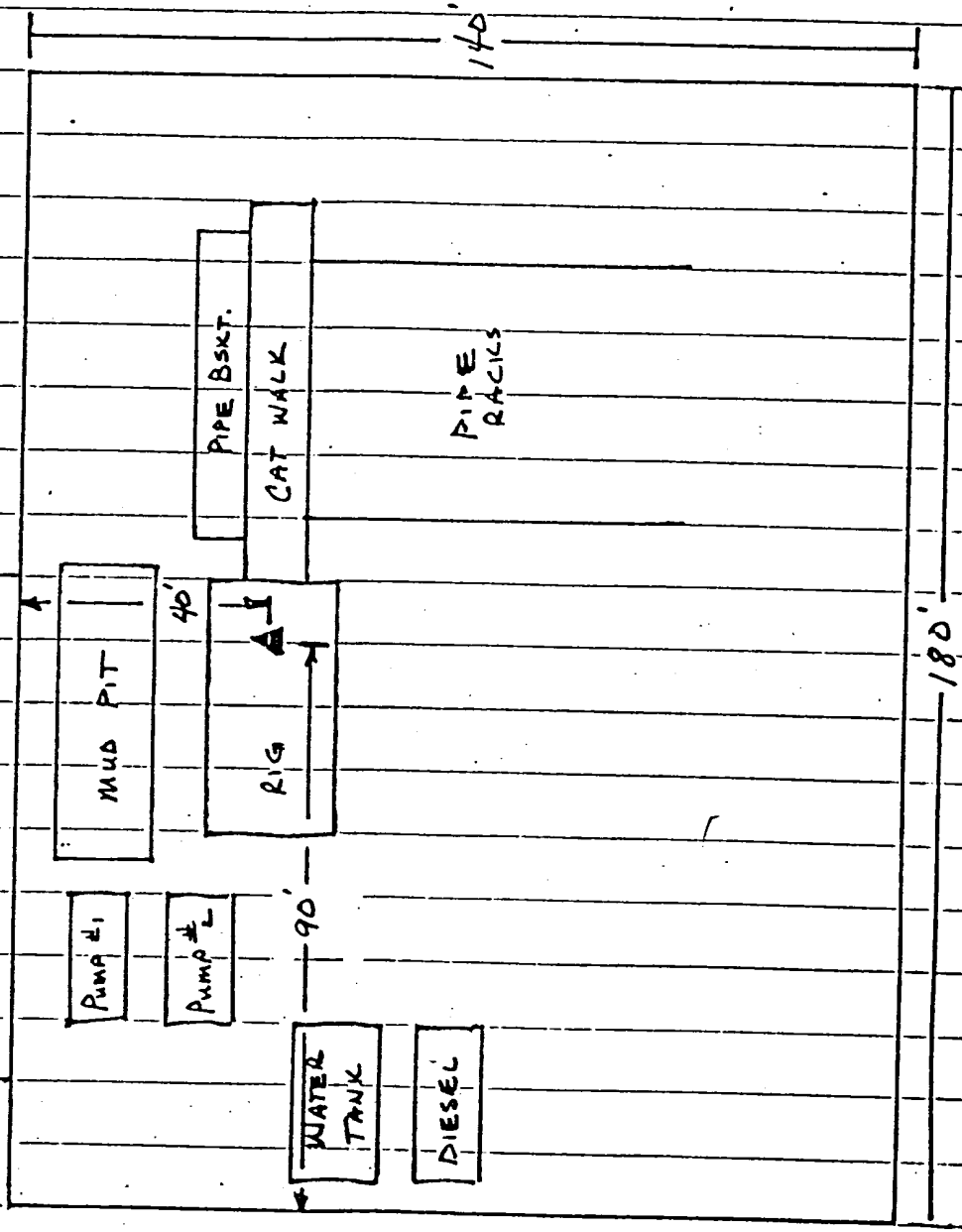


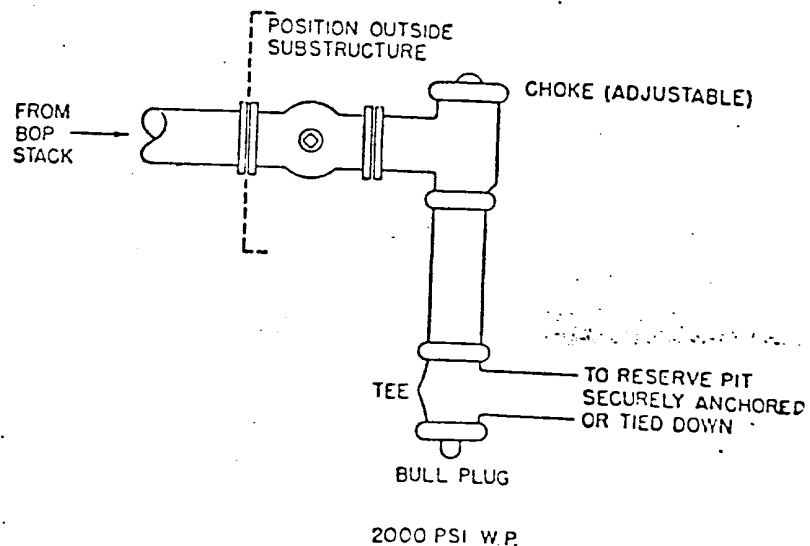
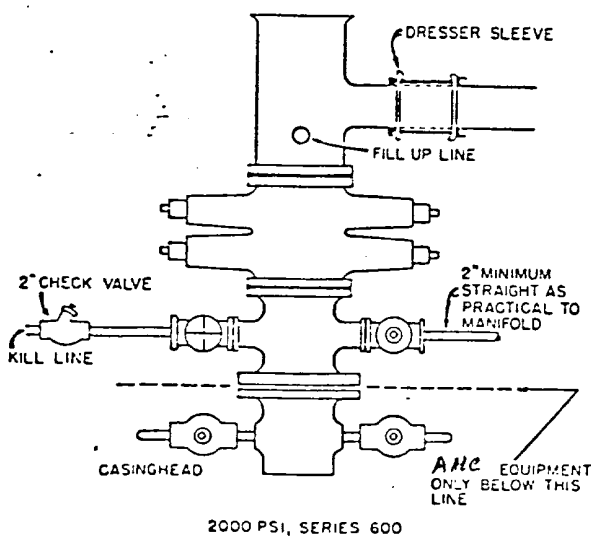
Exhibit F

STANDARD 2000 PSI W.P. BOP STACK

Exhibit G

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.



3 mile radius circle

- Bravo West Location
R. E. Brown Gravel Pit
- ▲ Rosebud--Water source - Water hauler

LEGEND

Roads	Primitive	
	Unimproved	
	Graded and Drained	
	Gravel or Stone-not Graded and Drained	
	Gravel or Stone-Graded and Drained	
	Bituminous Surfaced	
	Paved	
	Divided Highway (With Crossover)	
	Road or Street in congested area	
	Mileage indicated thus	1.0 * 0.6 0.8
Highway Interchange	FAI 25	
	FAP 41	
	FAS 1441	
	End of FAP or FAS Route	
	Federal Aid Interstate Highway Number	10
	(All Interstate Routes Have Controlled Access)	
	U.S. Highway Number	84
	State Highway Number	30
	National or State Line	
	County Line	
Boundaries and Monuments	Indian Reservation, Military Reservation, National Park, National Monument, National Forest, State Park and Game or Bird Refuge Line	
	Land Grant Line	
	Corporate Limit Line	
	Township Line	
	Section Line-Surveyed	
	Boundary Monuments	
	Triangulation Station	
	Identical Lookout and Triangulation Station	
	Identical Airway Beacon and Triangulation Station	
	Identical Church and Triangulation Station	
City, Town or Village	Identical Schoolhouse and Triangulation Station	
	Identical Building and Triangulation Station	
	Permanent Bench Mark and Elevation	1235
	Prominent Elevation	520'
	Township Corner in Place	
	Section Corner in Place	
	State Capital	
	County Seat	
	Other City, Town or Village	
	City, Town or Village (Incorporated)	
Farms, Dwellings, Industrial Units, etc.	Town or Village (Dashed Line denotes limits of Supplementary Vicinity Map)	
	Dwelling or Farm Unit	
	Group of Dwellings (Figure denotes number of units)	
	Hotel	
	Store or Small Business House	
	Post Office	
	Business and Post Office	
	City Hall	
	Schoolhouse	
	Church	

Cemetery	Cemetery	
	Hospital	
	Factory or Industrial Plant	
	Electric Power Station	
	Radio Station	
	Correctional Institution	
	Sawmill	
	Drive-in Theater	
	Fire Station	
	Historic Ruin	
Vacant Units are shown by open symbols, thus:	Vacant Units are shown by open symbols, thus:	
	Figure denotes number of units of like kind	
	Mine	
	Gravel Pit	
	Corral	
	Windmill	
	Well or Water Tank	
	Artesian Wells	
	Oil or Gas Wells	
	Forest Ranger Station, District	
Forest Ranger Station, Yearlong	Forest Ranger Station, Yearlong	
	Forest Ranger Station, Seasonal	
	Permanent Lookout Station	
	Camping Ground	
	Railroad	
	Narrow Gauge Railroad	
	Railroad Tunnel	
	Railroad Station (Local Agent)	
	Railroad Station (Prepay)	
	Grade	
Railroad Crossings	Railroad above	
	Railroad below	
	Railroad	
	Highway (over 20' span)	
	Ford	
	Dam on Large River	
	Dam on Small Stream	
	Reservoir and Dam	
	Ditch or Canal	
	Flume	
Bridges	Syphon	
	Pipe Line or Conduit	
	Tramway	
	Telephone or Telegraph Line	
	Telephone or Telegraph Line along road	
	Transmission Line	
	Fence (any type)	
	Spring	
	River	
	Stream	
Intermittent Stream	Intermittent Stream	
	Large Intermittent Stream	
	Marsh or Swamp	
	Levee or Dike	
	Mountain Range, Mesa or Butte	
	Sink or Depression	
	Army, Navy or Marine Corps Field	
	Commercial or Municipal Airport	
	Intermediate Field	
	Landing Area or Strip	
Air Navigation	Airway Light Beacon	
	Garbage, Rubbish and Other	
	Auto	
	Scrap Metal	
	Junk Yards and Dumps	

GENERAL HIGHWAY MAP HARDING COUN NEW MEXICO

PREPARED BY THE
NEW MEXICO STATE HIGHWAY DEPARTM
PLANNING AND PROGRAMMING DIVISION