

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 30-039-21811	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Jicarilla Contract #89	
2. NAME OF OPERATOR Mobil Oil Corporation		7. UNIT AGREEMENT NAME	
3. ADDRESS OF OPERATOR 3 Greenway Plaza-East, Suite 800, Houston, Texas 77046		8. FARM OR LEASE NAME Jicarilla E	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface <input checked="" type="checkbox"/> 1120' FNL & 1065' FWL Sec. 14, T27N, R3W At proposed prod. zone <input type="checkbox"/> Same as surface		9. WELL NO. 2-A	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*		10. FIELD AND POOL, OR WILDCAT Blanco Mesaverde	
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1065'		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 14, T27N, R3W	
16. NO. OF ACRES IN LEASE 2336.80		12. COUNTY OR PARISH 13. STATE Rio Arriba N.M.	
17. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2511'		18. ROTARY OR CABLE TOOLS Rotary	
19. PROPOSED DEPTH 6250		20. APPROX. DATE WORK WILL START* As soon as possible	
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7025' - Ground		22. APPROX. DATE WORK WILL START*	

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" (new)	20# - Misco	0- 300'	(1) Circulate to surface
7-7/8"	4-1/2" (new)	9.5# - K-55	0-6350'	(2) Circulate to surface

CEMENTING PROGRAM

- (1) Class C cement with 2% CaCl₂
- (2) Cement in 2 stages using lite weight filler cement in the upper stage. In the lower stage a lite wieght cement will be used tailed in with 250 sx. neat.

MUD PROGRAM

Depth	Type of Mud	Weight	Viscosity	Water Loss
0'- 300'	Spud	8.8		
300'-6350'	Fresh Water Gel	8.8 - 9.1	30 - 50	10 c.c.

BLOWOUT PREVENTER PROGRAM ATTACHED

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 A.D. Bond A.D. Bond TITLE Regulatory Engr. Coordinator DATE 5/25/78
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

ok Frank

RECEIVED

JUN 1 1978

U. S. GEOLOGICAL SURVEY
DURANGO, COLO.

*See Instructions On Reverse Side

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

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

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

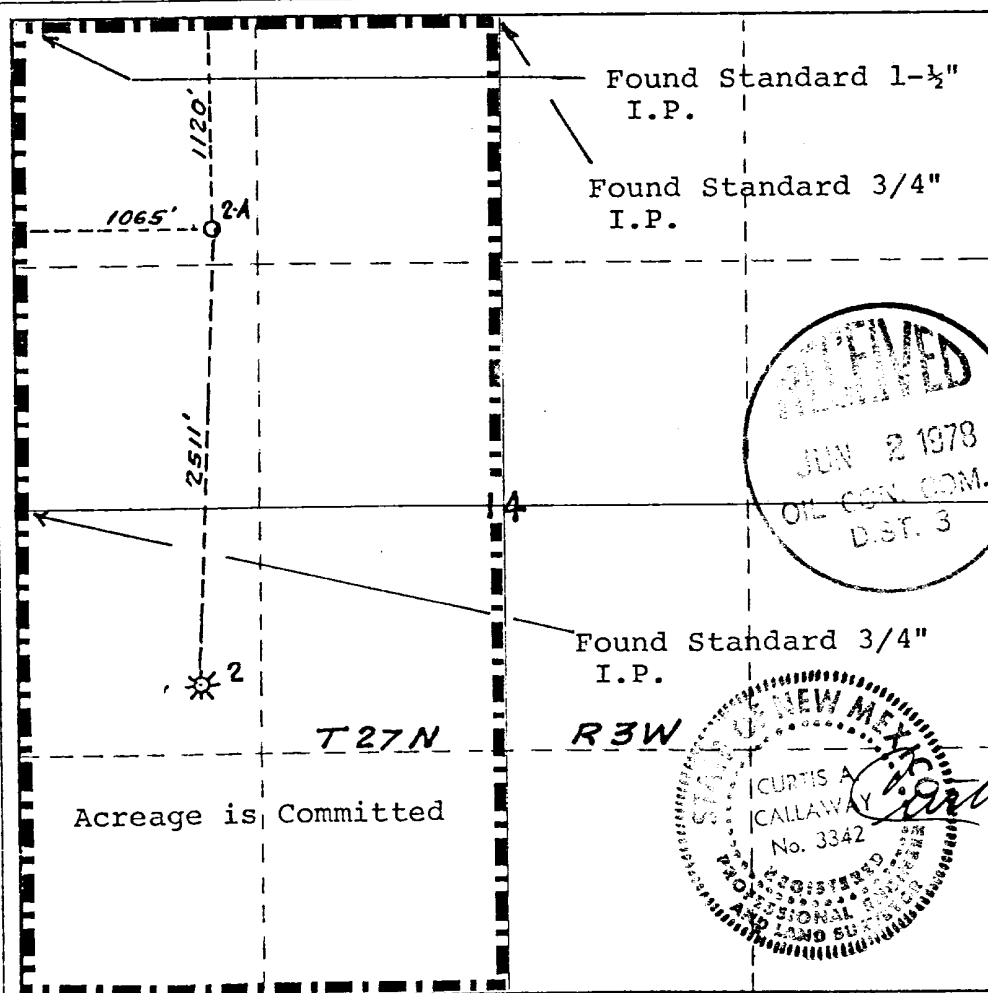
Operator Mobil Oil Corporation			Lease Jicarilla E		Well No. 2A
Unit Letter D	Section 14	Township 27N	Range 3W	County Rio Arriba	
Actual Footage Location of Well: 1120 feet from the North line and 1065 feet from the West line					
Ground Level Elev. 7025	Producing Formation Mesaverde		Pool Blanco Mesaverde		Dedicated Acreage: 320 (2 wells) 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.
S89°59'W - 5266.4



CERTIFICATION

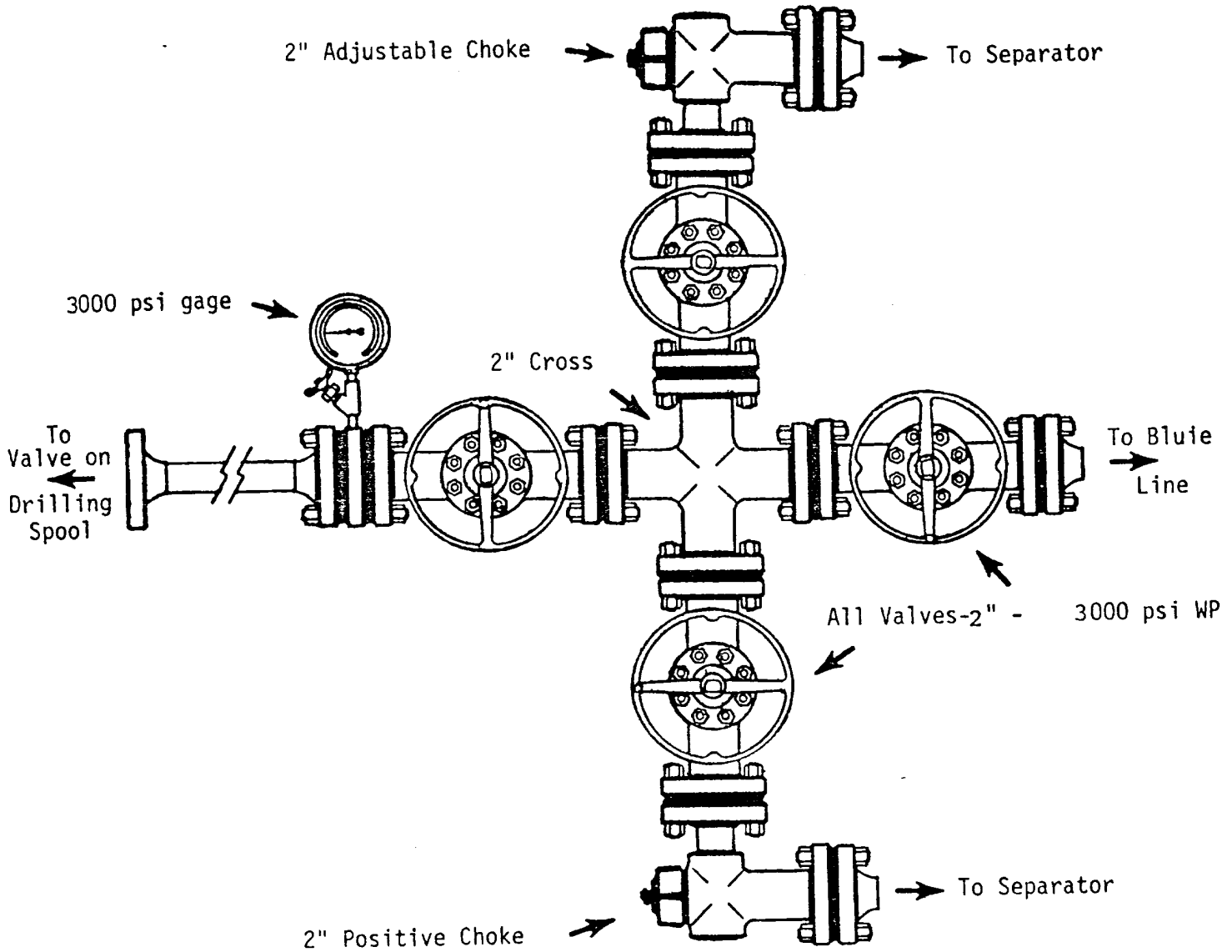
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

A. D. Bond
Name
A. D. Bond
Position
Regulatory Engr. Coord.
Company
Mobil Oil Corporation
Date
May 25, 1978

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.

Curtis A. Callaway
Date Surveyed
February 17, 1978
Registered Professional Engineer and/or Land Surveyor
Curtis A Callaway
Certificate No.
3342

PROPOSED CHOKE MANIFOLD
(MINIMUM REQUIREMENTS)
8-5/8 " CASING STRING



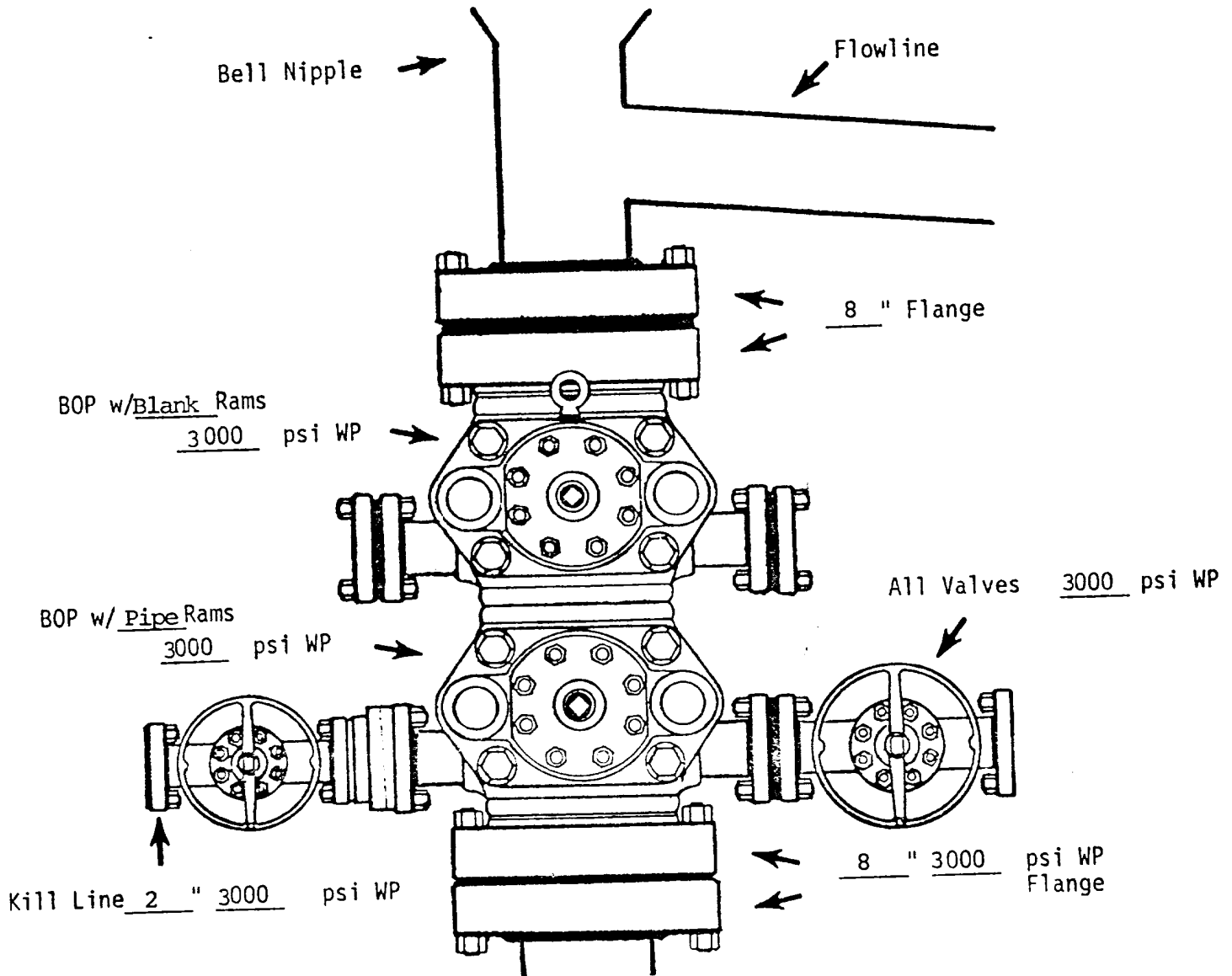
Mobil Oil Corporation
Houston E&P Division

LEASE Jicarilla E

WELL 2-A

COUNTY Rio Arriba STATE N.M.

PROPOSED BOP STACK
8-5/8 " CASING



Mobil Oil Corporation
Houston E&P Division

LEASE Jicarilla E

WELL 2-A

COUNTY Rio Arriba STATE N.M.

MOBIL OIL CORPORATION
SURFACE USE AND OPERATIONS PLAN
JICARILLA "E" WELL #2-A
1120' FNL & 1065' FWL
SECTION 14, T-27N, R-3W
RIO ARriba COUNTY, NEW MEXICO

SURFACE USE AND OPERATIONS PLAN

1. EXISTING ROADS (See attached Map "A")

No improvements will be required to existing roads.

2. PLANNED ACCESS ROADS (See Attached Map "A")

Approximately 0.2 mile of new road 12' wide with 10" borrow ditches is proposed. No surface materials will be hauled in for this road as native material will be utilized.

3. LOCATION OF EXISTING WELLS

See attached map "A"

4. LOCATION OF TANK BATTERIES, PRODUCTION FACILITIES, AND PRODUCTION GATHERING AND SERVICE LINES

Separation facilities as required will be located at the well site.

5. LOCATION AND TYPE OF WATER SUPPLY

Water for drilling purposes will be trucked from off-lease sources.

6. SOURCE OF CONSTRUCTION MATERIALS

Native soils will be utilized for surfacing of proposed location site. This surface will be watered and compacted and no materials will be hauled to the site.

7. METHODS FOR HANDLING WASTE DISPOSAL

Waste will be burned, buried, and/or hauled from the well site. Buried waste will have a minimum cover of 5'. Septic tanks at trailer houses and chemical toilets will be cleaned periodically and that sewage hauled away for disposal at an off-lease location.

8. ANCILLARY FACILITIES

No ancillary facilities will be required at this time.

9. WELL SITE LAYOUT

See attached map "B".

10. PLANS FOR RESTORATION OF THE SURFACE

All excess excavation from construction of road and location site shall be stockpiled off-site. When all drilling and

Surface and Use Operations Plan

Page 2

production activities have been completed, this stockpiled material shall be utilized in the reshaping of the location site to it's original contour. The reserve pit shall be filled and reshaped to it's original contour after pits have dried sufficiently to permit equipment operation.

After restoration activities have been completed, the location site shall be re-seeded with a seed mixture and soil additive as recommended by the BLM Representative. Restoration activities shall begin within 90 days after drilling and production activities cease, and shall be completed within 30 days from that date.

The Lessee further covenants and agrees that all of soil clean-up and restoration activities shall be done and performed in a workmanlike manner and in strict conformity with this surface use plan.

11. OTHER INFORMATION

The well site is located on the south side of a low hill on a slope of about 15%. The area contains dense sage brush and sparse grass. Drainage is northerly into Companero Arroyo and will not be disturbed by this construction.

12. LESSEE'S REPRESENTATIVE

Glen W. Barb
Mobil Oil Corporation
P. O. Box 633
Midland, TX 79702

Telephone 915-684-8211

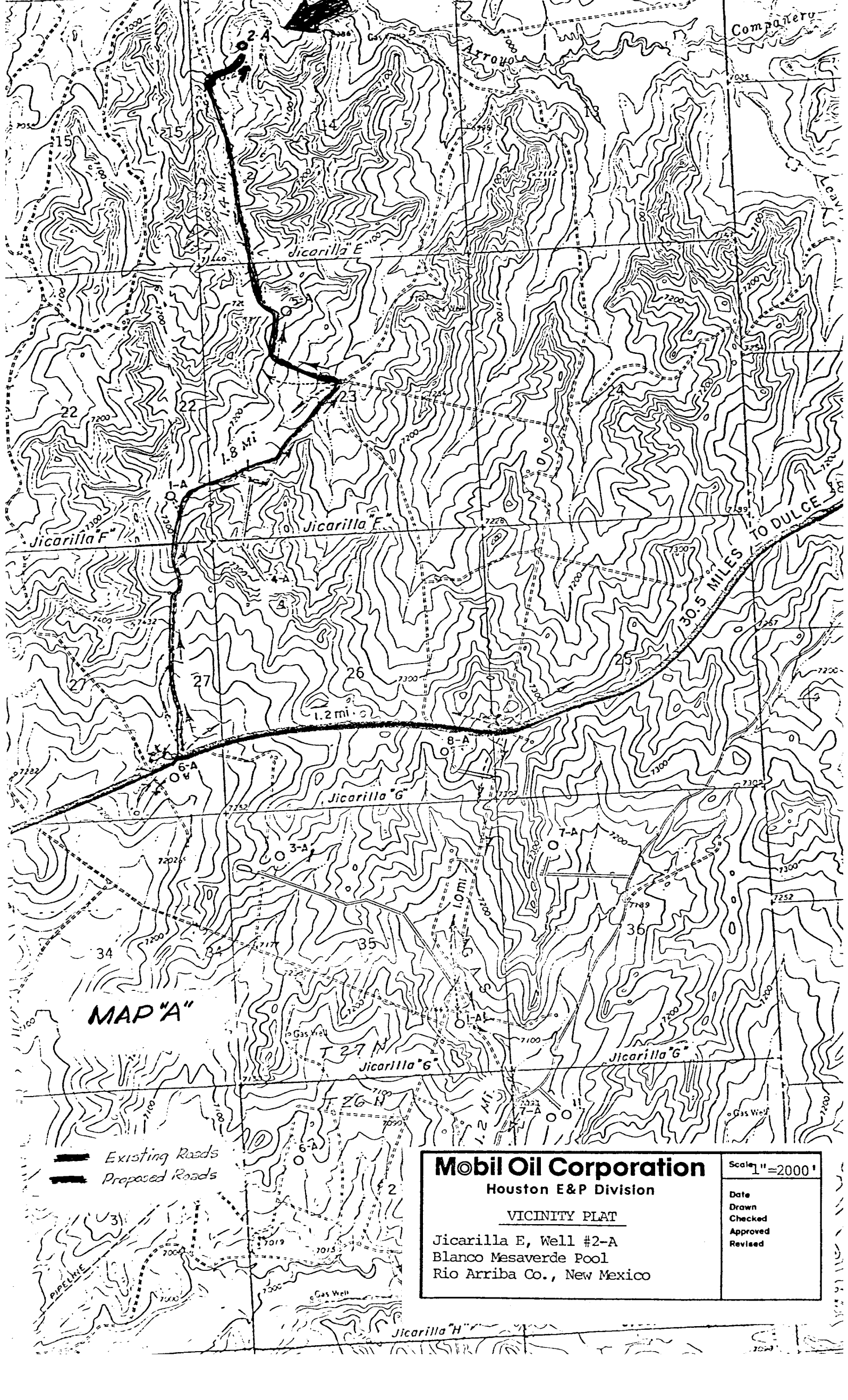
13. CERTIFICATION

I hereby certify that I, or persons directly under my supervision, have inspected the proposed drill-site; that I am familiar with the conditions that 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 a reliable contractor in conformity with this plan and the terms and conditions under which it is approved.

CACallaway/tb
Attachments



Glen W. Barb
Operations Manager



MAP "A"

- Existing Roads
- Proposed Roads

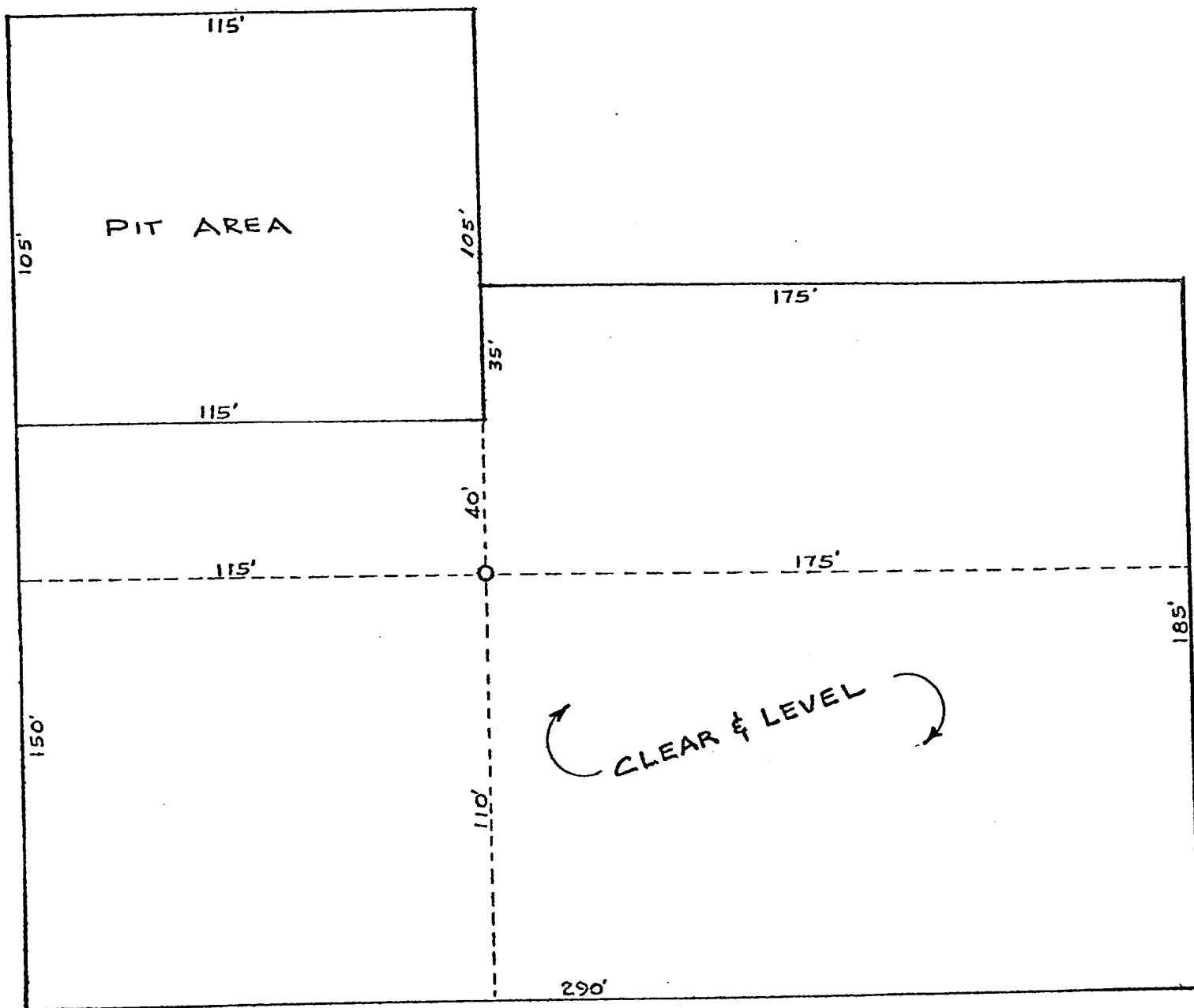
Mobil Oil Corporation
Houston E&P Division

VICINITY PLAT

Jicarilla E, Well #2-A
Blanco Mesaverde Pool
Rio Arriba Co., New Mexico

Scale 1"=2000'

Date
Drawn
Checked
Approved
Revised



MAP "B"

Mobil Oil Corporation

Houston E&P Division

Standard Location Plan
 Jicarilla E, Well #2-A
 Blanco Mesaverde Pool
 Rio Arriba Co., New Mexico

Scale 1"=40'

Date
 Drawn
 Checked
 Approved
 Revised

MOBIL OIL CORPORATION

LEASE: Jicarilla E

WELL: 2-A

FIELD: Blanco Mesaverde

COUNTY: Rio Arriba

STATE: _____

TEN POINT WELL CONTROL & RESOURCE PROTECTION DATA

1. The geologic name of the surface formation San Jose.
2. The estimated tops of important geologic markers.

<u>Formation Name</u>	<u>Depth (Top)</u>
<u>Ojo Alamo</u>	<u>3500'</u>
<u>Pictured Cliffs</u>	<u>3890'</u>
<u>Lewis Shale</u>	<u>3950'</u>
<u>Mesaverde</u>	<u>5600'</u>

3. The estimated depth at which anticipated water, oil, gas or other mineral-bearing formations are expected to be encountered.

<u>Formation Name</u>	<u>Depth (Top)</u>	<u>Type of Mineral</u>
<u>Ojo Alamo</u>	<u>3500'</u>	<u>Water</u>
<u>Pictured Cliffs</u>	<u>3890'</u>	<u>Gas</u>
<u>Mesaverde</u>	<u>5700'</u>	<u>Oil & Gas</u>
_____	_____	_____

4. The proposed casing program, including the size, grade, and weight-per-foot of each string and whether new or used. (Shown on Form 9-331C)
5. The lessee's or operator's minimum specifications for pressure control equipment which is to be used, a schematic diagram thereof showing sizes, pressure ratings (or API series), and the testing procedures and testing frequency. (See attachment)
6. The type and characteristics of the proposed circulating medium or mediums to be employed for rotary drilling and the quantities and types of mud and weighting material to be maintained.

The mud program, giving the type and characteristics of the drilling mud proposed is attached to the Form 9-331-C. A sufficient quantity of mud and chemicals will be maintained at the well site to meet anticipated normal conditions, recognizing the time required to replenish supplies from local sources.

7. The auxiliary equipment to be used, such as (1) kelly cocks, (2) floats at the bit, (3) monitoring equipment on the mud system, (4) a sub on the floor with a full opening valve to be stabbed into drill pipe when the kelly is not in the string.

Auxiliary equipment to be used will include: (1) kelly cock; and (2) a sub with a full opening valve. We do not believe there will be a need for a float at the bit on this unit.

8. Logging, coring & testing program:

<u>Log</u>	<u>Depth</u>
GR-LL-Acoustic	Surface casing to total depth
GR-Neutron-Collar	Surface casing to total depth

No coring will be done and only the Mesaverde will be tested.

9. 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.

None Anticipated

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

Starting Date: July 1, 1978 Duration of Operation 20 days.