

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-045-25853

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO.  
SF 078482

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
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7. UNIT AGREEMENT NAME  
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8. FARM OR LEASE NAME  
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9. WELL NO.  
Crow Mesa #1

10. FIELD AND POOL, OR WILDCAT  
Wildcat *Wally/Basin #1*

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
D 23-25N-8W

12. COUNTY OR PARISH | 13. STATE  
San Juan | New Mexico

b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER \_\_\_\_\_  
 SINGLE ZONE  MULTIPLE ZONE

2. NAME OF OPERATOR  
ARCO Oil and Gas Company, a Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR  
P.O. Box 5540, Denver, Colorado 80277

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface: 800' FNL & 800' FWL (NW1/4 NW1/4)  
 At proposed prod. zone: Approximately the same

RECEIVED  
NOV 15 1983  
BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREA

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
Approx. 38.3 miles SW of Bloomfield, New Mexico

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)  
800'

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

16. NO. OF ACRES IN LEASE  
2060.65

19. PROPOSED DEPTH  
7135'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
6770' DRILLING OPERATIONS AUTHORIZED ARE

23. SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS" PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH
12-1/4"	8-5/8"	24.0#, K-55, STC	500'
7-7/8"	5-1/2"	17.0#, N-80, LTC	7135'

17. NO. OF ACRES ASSIGNED TO THIS WELL  
40 NW/320  
~~Not Assigned~~

20. ROTARY OR CABLE TOOLS  
Rotary

22. APPROX. DATE WORK WILL START\*  
12-1-83

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

QUANTITY OF CEMENT  
 Cmt to surf. approx. 350 sx  
 1st stage approx. 480 sx  
 2nd stage approx. 465 sx to surf.

Exhibits Attached

- "A" Certified Location Plat
- "B" BOP Design
- "C" Access to Location
- "D" Rig Layout
- "E" Drill pad layout with Cuts & Fills
- "F" Cultural Resource Report

Lease SF 078482 contains 2060.65 acres as follows:  
 T25N-R8W, San Juan County, New Mexico  
 Sec. 21 All  
 Sec. 22 N1/2, SW1/4  
 Sec. 23 NW1/4, S1/2  
 Sec. 24 NW1/4, lots

RECEIVED  
DEC - 7 1983  
OIL CON. DIV.  
DIST. 2

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 *W.A. Walther, Jr.* TITLE Operations Manager  
 (This space for Federal or State office use) *KUX*

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

APPROVED  
AS AMENDED  
DATE 11-14-83  
DEC 05 1983  
*R. D. ...*  
AREA MANAGER  
FARMINGTON RESOURCE AREA

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-100  
Supersedes C-100  
Effective 1-1-67

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

EXHIBIT "A"

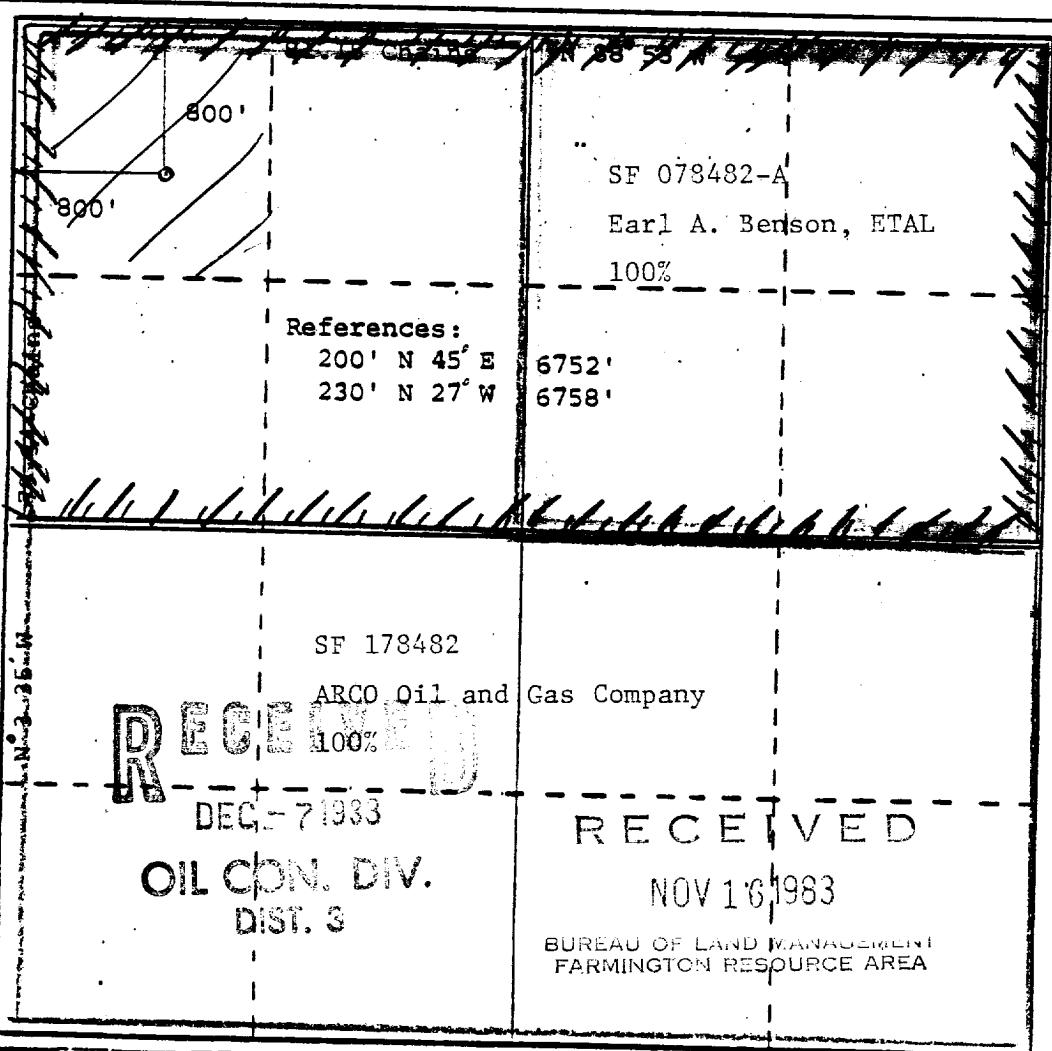
Operator <b>Arco Oil &amp; Gas</b>		Lease <b>SF 078482</b>		Well No. <b>Crow Mesa #1</b>
Unit Letter	Section <b>23</b>	Township <b>25N</b>	Range <b>8W</b>	County <b>San Juan County</b>
Actual Footage Location of Well: <b>800</b> feet from the <b>North</b> line and <b>800</b> feet from the <b>West</b> line.				
Ground Elev. <b>6770'</b>	Producing Formation <b>Gallup-Dakota</b>	Pool <b>Wildcat</b>	Dedicated Acreage: <b>320 N/2 23</b> 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 Communitization

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.

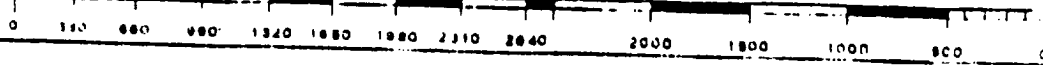
Name W.A. Walther, Jr.  
Operations Manager  
Position ARCO Oil and Gas Company  
Div of Atlantic Richfield Corp  
Company  
11-14-83  
Date

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 complete to the best of my knowledge and belief.

Date Surveyed Nov. 1983  
6844  
*James S. Huddleston*  
Registered Professional Surveyor  
and or Licensed Land Surveyor

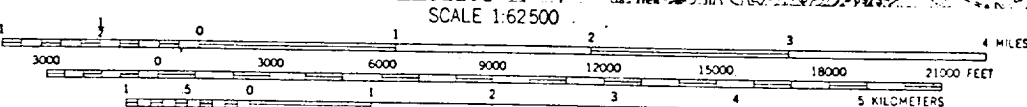
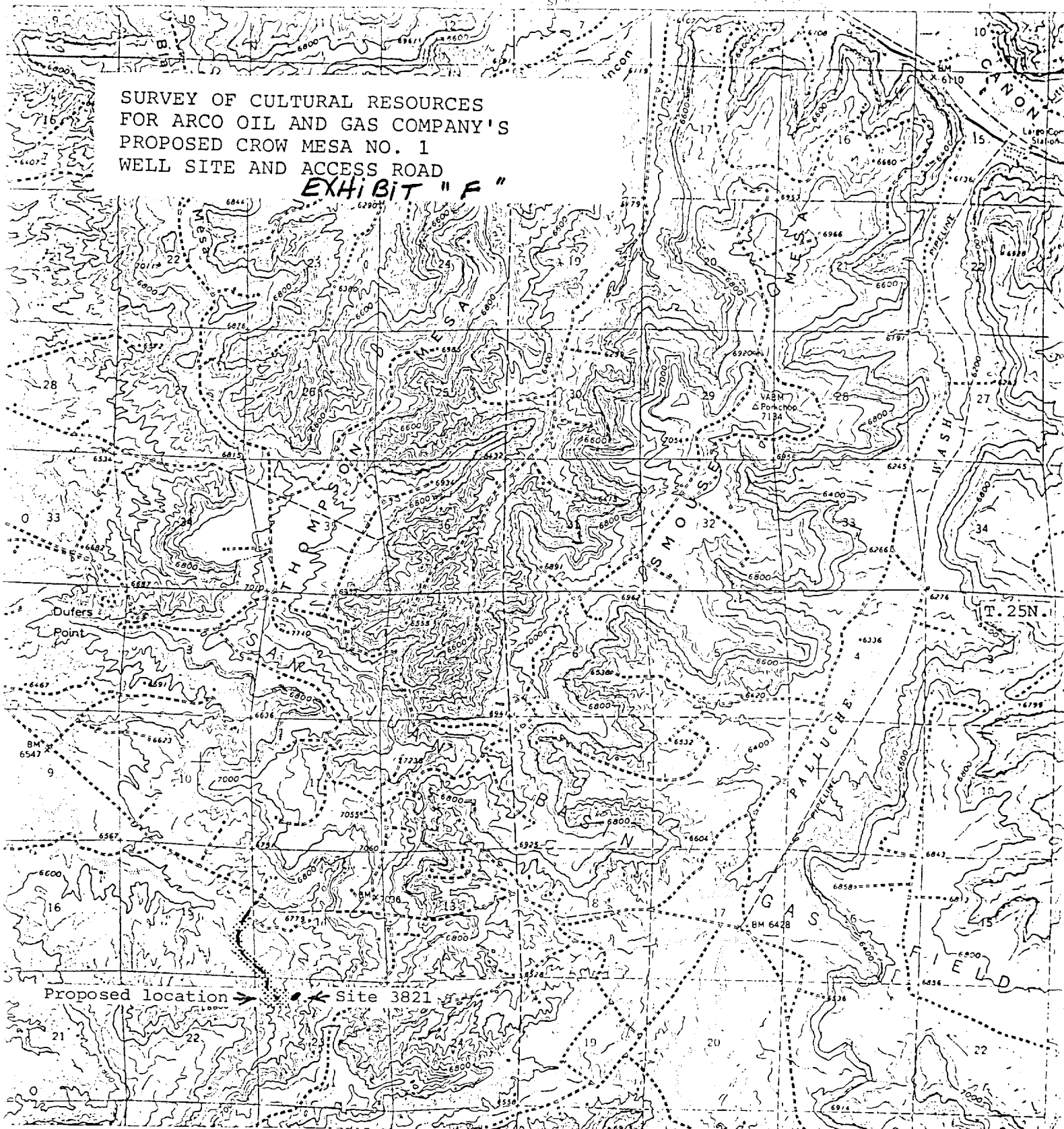
6844

Certificate No.



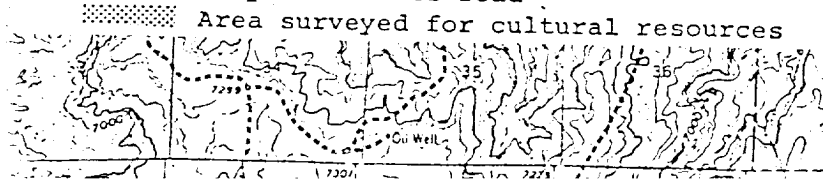
SURVEY OF CULTURAL RESOURCES  
 FOR ARCO OIL AND GAS COMPANY'S  
 PROPOSED CROW MESA NO. 1  
 WELL SITE AND ACCESS ROAD

EXHIBIT "F"



CONTOUR INTERVAL 40 FEET  
 DATUM IS MEAN SEA LEVEL

Proposed access road  
 Area surveyed for cultural resources



NAGEEZI, N. MEX.  
 N3615-W10730/15  
 1959