

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYRECEIVED
MAR 28 1983

5. DESIGNATION AND SERIAL NO.

14-20-603-734

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

Horseshoe Gallup

8. FARM OR LEASE NAME

Horseshoe Gallup

9. WELL NO.

301

10. FIELD AND POOL, OR WILDCAT

Horseshoe Gallup Unit

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

30-31N-16W

12. COUNTY OR PARISH

San Juan

13. STATE

New Mexico

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

ARCO Oil and Gas Company, Division of Atlantic Richfield Company

3. ADDRESS OF OPERATOR

P. O. Box 5540, Denver, Colorado 80217

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)

At surface

20' FNL & 1520' FWL Unit C

At proposed prod. zone

Approx the same

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

Shiprock, New Mexico approximately 11 miles northeast

15. DISTANCE FROM PROPOSED*
LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)20' to lease line
7979' to unit
boundary

16. NO. OF ACRES IN LEASE

2685? 2760

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

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

786'

19. PROPOSED DEPTH

1560'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, or PL)

5711' GR

DRILLING OPERATIONS AUTHORIZED ARE

SUBJECT TO COMPLIANCE WITH ATTACHED

When appr'd app'l rec'd

23. "GENERAL REQUIREMENTS FOR DRILLING AND CEMENTING PROGRAM" is subject to administrative

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17-1/2"	13-3/8"	48.0#	30'	57 sx (67.26 cu.ft.) C1 "B" + ad
12-1/4"	8-5/8"	24.0#	140'	105 sx (123.9 cu.ft.) C1 "B" + ad
7-7/8"	5-1/2"	14.0#	1560' or 200' below top of Gallup Sand	265 sx (466.6 cu.ft.) C1 "B" + ad

Propose to drill well to sufficient depth to test the Gallup formation, setting surface and intermediate casing as above. Logging and setting production casing, perforate, test and treat if necessary, and fracture as required. Will apply to permit this well as a water injection well if it is not an economically productive oil well.

Pursuant to NTL-6, attached are: Certified Location Plat
Drilling Plan with attachments
Surface Use and Operations Plan with attachments

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

DATE March 21, 1983

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED
AS AMENDED

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

Hold C104 or C108 for NTL
Joint with HGU #48 + 293
chf

MAY 16 1983
JAMES F. SIMS
DISTRICT ENGINEER
Acting Area Manager

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

Form C-107
Revised 10-1-STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

All distances must be from the outer boundaries of the Section

RECEIVED

Operator ARCO OIL & GAS COMPANY			Lease HORSESHOE GALLUP UNIT B		Well No. 301
Unit Letter C	Section 30	Township 31N	Range 16W	County San Juan	
Actual Footage Location of Well: 20 feet from the North line and 1520 feet from the West line					
Ground Level Elev: 5711	Producing Formation Gallup Sand		Pool Gallup		Dedicated Acreage: NA UNIT 40 Acres

OIL CON. DIV.
DIST. 3

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.

1520'	20'	RECEIVED MAR 28 1983 U. S. GEOLOGICAL SURVEY
	Sec.	
	30	

Scale: 1"=1000'

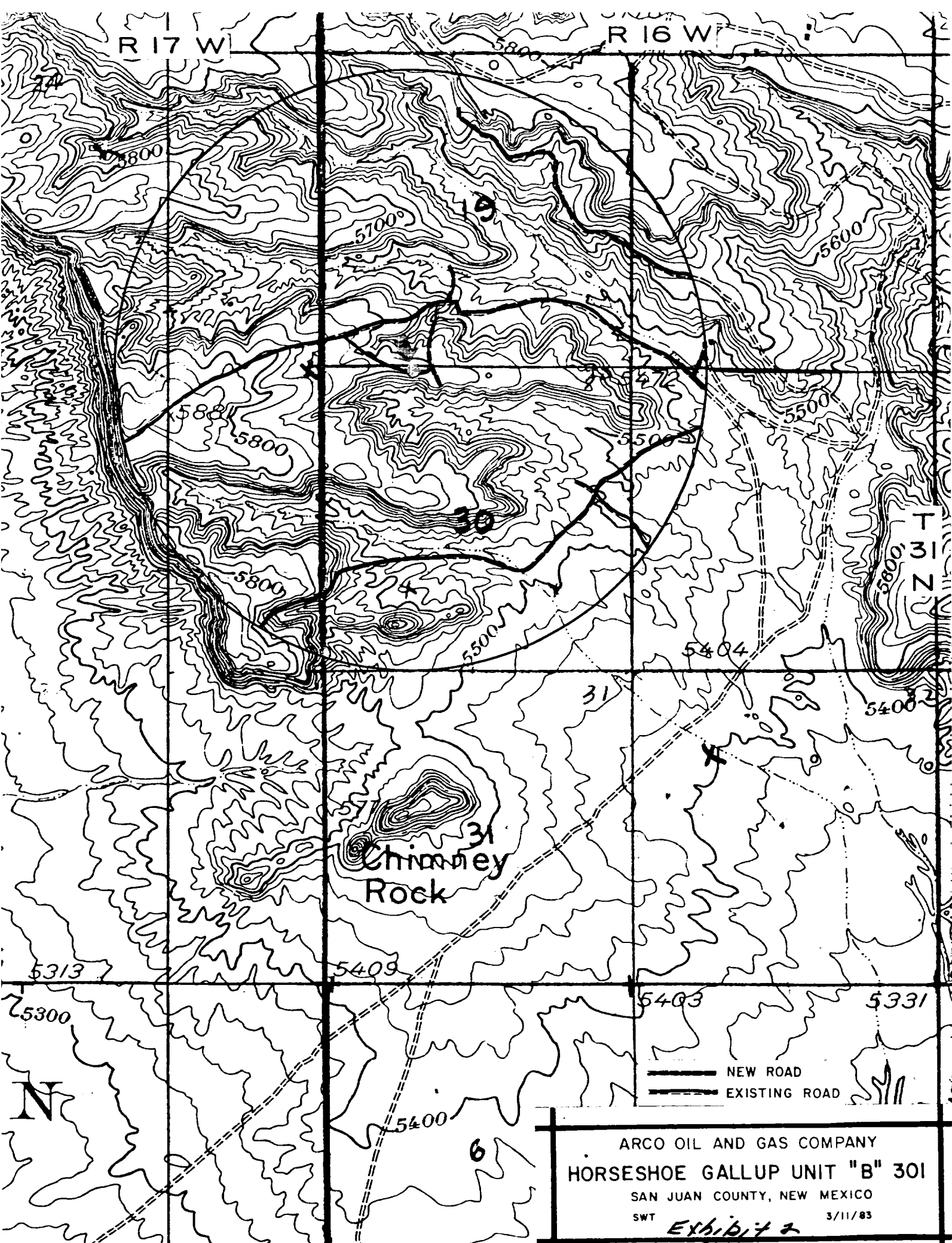
CERTIFICATION

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

W.A. Walther, Jr.
Name W.A. Walther, Jr.
Position Operations Manager
Division ARCO Oil and Gas Company
Company Division of Atlantic Richfield Company
Date March 17, 1983

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 February 18, 1983
Registered Professional Engineer and Land Surveyor
Fred B. Kerr Jr.
Fred B. Kerr Jr.
Certificate No. 2, 2222
3950



ARCO OIL AND GAS COMPANY
HORSESHOE GALLUP UNIT "B" 301

SAN JUAN COUNTY, NEW MEXICO

SWT

3/11/83

Exhibit 2