

CONFIDENTIAL
Release Date 11-2-69

P-W

GULF #1 NAVAJO-BS NW NE 491
Sec. 12-T37N-R29E Apache County

s1

COUNTY Apache AREA 7 mi NWN/Red Rock Trading Post LEASE NO. 14-20-0603-1608

WELL NAME Gulf #1 Navajo- BS

LOCATION NW NE SEC 12 TWP 37N RANGE 29E FOOTAGE 560' FNL 1920' FEL

ELEV 5971 GR 5985 KB SPUD DATE 4-15-69 STATUS PvA TOTAL DEPTH 4145'
COMP. DATE 5-2-69

CONTRACTOR Loffland Brothers Company, P. O. Box 688, Farmington, N M

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	<u>x</u>
<u>8 5/8</u>	<u>368'</u>	<u>200 sx</u>	<u>NA</u>	DRILLED BY CABLE TOOL	
				PRODUCTIVE RESERVOIR	
				INITIAL PRODUCTION	<u>P&A</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
DeChelly	755'	x	x	
Hermosa	2520'			
Barker-Creek	3226'			
Molas	3460'			
Miss.	3530'			
Ouray	3700'			
Elbert	3730'			
Igneous	3840'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG Am Strat
Borehole Compensated Sonic	NA	NA	SAMPLE DESCRP. <u>4-Corners</u>
Log/GR, IE, Sidewall			SAMPLE NO. <u>1574</u>
Neutron Porosity			CORE ANALYSIS
			DSTs <u>x</u>
			Tucson 2591

REMARKS Confidential request per letter 4-15-69.

APP. TO PLUG _____

PLUGGING REP. x

COMP. REPORT x

WATER WELL ACCEPTED BY _____

BOND CO. Federal Insurance Company BOND NO. -

BOND AMT. \$ 25,000 CANCELLED _____ DATE _____

FILING RECEIPT 9572 LOC. PLAT x WELL BOOK x PLAT BOOK x

API NO. 02-001-20096 DATE ISSUED 3-25-69 ORGANIZATION REPORT 3-26-69

DEDICATION W/2 NE/4

PERMIT NUMBER 491

(over)

Release Date 11-2-69

CONFIDENTIAL

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well Work-Over Deepen Plug Back Same Reservoir Different Reservoir Oil Gas Dry

DESCRIPTION OF WELL AND LEASE

Operator **Gulf Oil Corporation** Address **Box 1938, Roswell, New Mexico 88201**

Federal, State or Indian Lease Number or name of lessor if fee lease **Navajo "BS" (Lease No. 14-20-0603-1608)** Well Number **1** Field & Reservoir **Wildcat**

Location **560' FNL & 1920' FEL** County **Apache**

Sec. TWP-Range or Block & Survey **12, 37-N, 29-E**

Date spudded **4-15-69** Date total depth reached **5-1-69** Date completed, ready to produce **P & A** Elevation (DF, RKB, RT or Gr.) feet **---** Elevation of casing hd. flange feet **---**

Total depth **4145'** P.B.T.D. **---** Single, dual or triple completion? **---** If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion **Dry** Rotary tools used (Interval) **0 - 4145'** Cable tools used (Interval) **---**

Was this well directionally drilled? **No** Was directional survey made? **No** Was copy of directional survey filed? **---** Date filed **---**

Type of electrical or other logs run (check logs filed with the commission) **ES Inf., GR-Sonic & Side-Wall Neutron** Date filed **5-5-69**

CASING RECORD

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12-1/4"	8-5/8"	21#	362'	200 Sacks (Circulated)	

TUBING RECORD

LINER RECORD

Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval
			None	

INITIAL PRODUCTION

Date of first production **---** Producing method (Indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:) **Did not Produce - Plugged and Abandoned**

Date of test **---** Hrs. tested **---** Choke size **---** Oil prod. during test **---** Gas prod. during test **---** Water prod. during test **---** Oil gravity **---** ° API (Corr)

Tubing pressure **---** Casing pressure **---** Cal'd rate of Production per 24 hrs. **---** Oil **---** Gas **---** Water **---** Gas-oil ratio **---**

Disposition of gas (state whether vented, used for fuel or sold): **---**

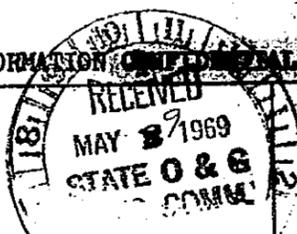
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the **District Production Manager** of the **Gulf Oil Corporation** (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

May 7, 1969
Date

M. I. Taylor
Signature
M. I. TAYLOR, District Production Manager

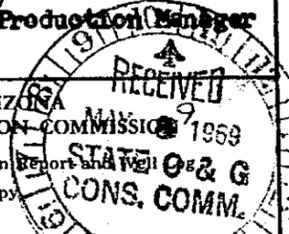
PLEASE CONSIDER THIS INFORMATION CONFIDENTIAL

Permit No. **491**



Form No. 4

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Log
File One Copy



DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
DeChelly	755	1295	Sandstone
Hermosa	2520	3226	Limestone
Barker Creek	3226	3460	Limestone
Molas	3460	3530	Shale
Mississippian	3530	3700	Limestone
Ouray	3700	3730	Limestone
Elbert	3730	3840	Shale and Limestone
Igneous	3840	4145	Igneous Intrusive
<p>DST #1 3200-3325 (Barker Creek) 5" preflow Tool open 1-1/2 hrs. Good blow through out test (nonflammable) Recov. 300' GCM. No show oil. FP 80# - 187# 1 Hr. ISIP 891#, 1 Hr. FSIP 599# HP 1461# (in), 1475# (out)</p>			
<p>DST #2 3570-3703 (Mississippian) 2" preflow. Tool open 1 hr. Tool opened with good blow air decreasing to very weak at end of test. Recov. 390' drilling mud. No show oil or gas. FP 107# - 240# 1 Hr. ISIP 1541#, 1 Hr. FSIP 1501# HP 1754# (in), 1754# (out)</p>			

* Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE (See other instructions on reverse side)

Form approved. Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL [] GAS WELL [] DRY [] Other []

b. TYPE OF COMPLETION: NEW WELL [] WORK OVER [] DEEP-EN [] PLUG BACK [] DIFF. RESVR. [] Other [] Dry Hole

2. NAME OF OPERATOR: Gulf Oil Corporation

3. ADDRESS OF OPERATOR: Box 1938, Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements): At surface 560' FNL & 1920' FNL, Sec 12, 37-N, 29-E

5. LEASE DESIGNATION AND SERIAL NO. 14-20-0603-1608

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME Navajo "B3"

9. WELL NO. 1

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA Sec 12, 37-N, 29-E

12. COUNTY OR PARISH Apache

13. STATE Arizona

15. DATE SPUNDED 4-15-69 16. DATE T.D. REACHED 5-1-69 17. DATE COMPL. (Ready to prod.) P & A 18. ELEVATIONS (DF, RKB, BT, GR, ETC.)* 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 4145' 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* None

25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN ES Induction, GR-Sonic & Side-wall Neutron 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

Table with columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Row 1: 8-5/8", 21#, 362', 12-1/4", 200 sacks (Circulated)

29. LINER RECORD and 30. TUBING RECORD tables with columns for size, depth set, packer set, etc.

31. PERFORATION RECORD (Interval, size and number) and 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. tables.

33. PRODUCTION

Table with columns: DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKER SIZE, PROD'N. FOR TEST PERIOD, OIL-BBL., GAS-MCF.

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED BY M. I. TAYLOR TITLE District Production Manager DATE May 7, 1969



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INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions. (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be marked on this form, see item 36.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments, items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 23: "Stack Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION	TOP		DESCRIPTION, CONTENTS, ETC.	BOTTOM	GEOLOGIC MARKERS	
	MEAS. DEPTH	TRUE VERT. DEPTH			NAME	MEAS. DEPTH
DST #1	3200	3325	(Barber Creek) 5" preflow, tool open 1-1/2 hrs. Good blow throughout test (non-flammable). Recov. 300' GCM. No show oil. IP 80# - 107# 1 hr. ISIP 891#, 1 hr. PSIP 592#, IP 1461# (1a), 1475# (out)	3325	DeChelly Hermosa Barber Creek Molas Mississippian Curray Elbert Igneous	755 2920 3226 3460 3530 3700 3730 3840
	3570	3703	(Mississippian) 2" preflow, tool open 1 hr. Tool opened with good blow air decreasing to very weak at end of test. Recov. 390' drilling mud. No show oil or gas. IP 107# - 240# 1 hr. ISIP 1741#, 1 hr. PSIP 1501# IP 1754# (1a), 1754# (out)	3703		

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE
(Other instructions on reverse side)

Form approved
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

14-20-0603-1608

6. IF INDIAN, ALIEN, OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

9. WELL NO.

10. FIELD AND POOL, OR WILDCAT

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

12. COUNTY, OR PARISH

13. STATE

Apache

Arizona

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL GAS WELL OTHER Dry Hole

2. NAME OF OPERATOR
Gulf Oil Corporation

3. ADDRESS OF OPERATOR
Box 670, Hobbs, New Mexico 88240

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface

560' FNL & 1920' FEL, Section 12, 37-N, 29-E

PLEASE CONSIDER THIS INFORMATION CONFIDENTIAL

14. PERMIT NO.

15. ELEVATIONS (Show whether OF, BT, OR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other) Flugged & Abandoned

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

4145' TD.

Loffland Brothers drilled 7-7/8" hole to TD at 4145'. Ran logs. Plugged and Abandoned as follows:

Spotted 70 sack cement plug No. 1 from 3400' to 3200'; 35 sack plug No. 2 from 2550' to 2450'; 50 sack plug No. 3 from 800' to 700'; 20 sack plug No. 4 from 372' to 305', across bottom of 8-5/8" casing at 362' and 5 sack cement plug No. 5 from 30' to surface. Installed dry hole marker. Plugged and abandoned May 2, 1969.



18. I hereby certify that the foregoing is true and correct

SIGNED ORIGINAL SIGNED BY
C. D. BORLAND

TITLE Area Production Manager

DATE May 5, 1969

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

*See Instructions on Reverse Side

Bulky #5 - Navajo
Telephone Larry Yeager 5-2-69 JLF

TOPS:

- De Chelly 755
 - Ogan Rock 1295
 - Cutler 1800
 - Hermosa 2520
 - Parker Cbk? 3226
 - Molas 3460
 - Miss 3530
 - Quay 3700
 - Elbert 3730
 - Igneous rock (could be granite basement) 3850
- TD 4145

- TD 4145
- Took no cores
- Had no show. (mud logger had no kick)

DST 3200 - 3325 = Rec 300' GCM
DST 3570 - 3703 = Rec 300' Mud; NS.

- Will set plug - top Miss
- ✓ " Hermosa
 - ✓ " De Chelly
 - ✓ surface

Have verbal permission to plug. All OK JLF

201
11/11

SUNDY NOTICES AND REPORTS ON WELLS

1. Name of Operator Gulf Oil Corporation, Box 670, Hobbs, New Mexico 88240

2. OIL WELL GAS WELL OTHER (Specify) _____

3. Well Name Navajo #BS# No. 1
 Location 560' FNL & 1920' FEL,
 Sec. 12 Twp. 37-N Rge. 29-E County Apache, Arizona.

4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-1608

5. Field or Pool Name Wildcat

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) <u>Drill Stem Tests</u>	ABANDONMENT <input type="checkbox"/>
(OTHER) _____			

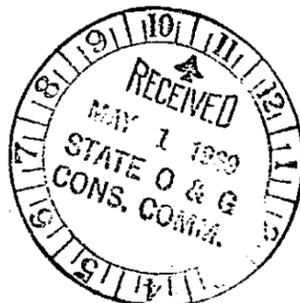
(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

PLEASE CONSIDER THIS INFORMATION CONFIDENTIAL.

DST #1 3200' - 3325' (April 27, 1969)
 HP in 1461#. 5 minute preflow 67 - 80#, 60 minute ISIP 891#, 90 minute second flow 80 - 187#, 60 minute FSIP 600#. HP out 1475#. Fair to good blow of gas thru out test. (Non-combustible). Recovered 300' of drilling mud - slightly gas cut.

^{AL} DST #2 3570' - 3703'. (April 27, 1969).
 HP in 1751#. Open 2 minutes, 30 minute ISIP 1541#, 60 minute second flow 107 - 240#, 60 minute FSIP 1501#. HP out 1751#. Good blow, decreased to very weak blow at end of test. No combustible gas to surface. Recovered 390' of drilling mud. BHT 120° F.



8. I hereby certify that the foregoing is true and correct.

Signed C. E. Mace Title Area Pet. Engineer Date April 29, 1969

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies
 Form No. 25

Permit No. 491

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PROGRESS REPORT

GULF OIL COMPANY NO. 1 NAVAJO "BS"
APACHE COUNTY, ARIZONA

April 28, 1969

Location: 560' FNL & 1920' FEL
Section 12-37N-29E, C&SRM

Elevation: 5971' Gr.
5985' KB

4-15-69 Spudded
4-16-69 Set 8-5/8" casing at 368', circulated cement to surface
4-17-69 1220', drilling
4-18-69 1510', drilling
4-21-69 2560', drilling
4-24-69 3246', drilling
4-28-69 3736', drilling

Sample Tops From Cuttings

Top De Chelly	750'
Top Organ Rock	1290'
Top Cutler	1770'
Top Hermosa	2500'
Top Miss. Ls.	3530'

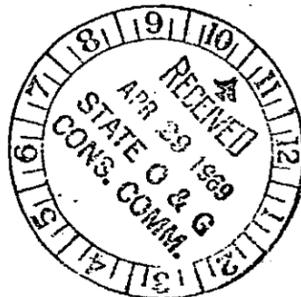
DST No. 1 - 3200' - 3325'
Tool open 1-1/2 hours, recovered 300' gas cut mud.

DST No. 2 - 3570' - 3703'
Tool open 1 hour, recovered 390' drilling mud.

L. R. Marshall
emd.

L. R. Marshall
District Exploration Geologist

Oil and Gas Conservation Commission
Room 202
1624 West Adams
Phoenix, Arizona 85007



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SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Gulf Oil Corporation, P. O. Box 670, Hobbs, New Mexico 88240
 2. OIL WELL GAS WELL OTHER (Specify) _____
 3. Well Name Navajo "BS" No. 1
 Location 560' FNL 1920' FEL Section 12, T-37-N, R-29-E, G&SRM
 Sec. 12 Twp. T-37-N Rge. 29-E County Apache, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease. 14-20-0603-1608, Indian
 5. Field or Pool Name Wildcat

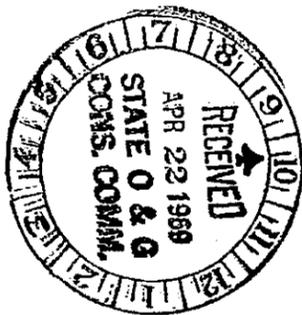
6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) _____	ABANDONMENT <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

AC
 Loffland Brothers Company spudded 12-1/4" hole April 15, 1969. Drilled to 368'. Ran 11 jts, 347', 8-5/8" OD 24# J-55 casing set and cemented at 362' with 200 sacks of Class A cement with 2% CaCl2 plus 4% gel in first 100 sacks. Cement circulated. WOC & NU 17 hours. Tested casing with 1000# 30 minutes, OK. Started drilling 7-7/8" hole at 368'.



8. I hereby certify that the foregoing is true and correct.

Signed CA Borland Title Area Production Mgr. Date 4-21-69

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 File Two Copies
 Form No. 25

Permit No. 2191

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 **Wildcat** SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Gulf Oil Corporation

3. ADDRESS OF OPERATOR
Post Office Box 1938, Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
At surface
560' FNL & 1920' FEL Sec. 12, T-37-N, R-29-E, G&SM
At proposed prod. zone
Within 600' of surface location

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
7 miles WNW of Red Rock Trading Post, Arizona

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) **560'**

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. **First Well 4500'**

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
GR 5971'

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-1608

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME
Black Horse Creek

8. FARM OR LEASE NAME
Navajo "BS"

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC. T. R. M. OR BLK. AND SURVEY OR AREA
Sec. 12, T-37-N, R-29-E, G&SM

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

17. NO. OF ACRES ASSIGNED TO THIS WELL
80

20. ROTARY OR CABLE TOOLS
Rotary

22. APPROX. DATE WORK WILL START*
April 15, 1969

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"	32.3	350'	Circulate

- PROGRAM:
- (1) Drill 12-1/4" hole to 350'
 - (2) Run 9-5/8" casing to bottom, circulate cement
 - (3) Drill out and drill ahead with water 8-3/4" hole
 - (4) Mud up at 3000' with water gel mud

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.

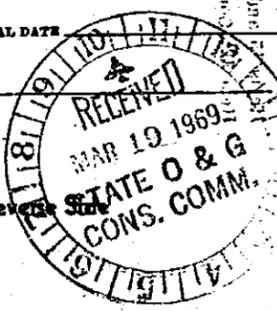
24. SIGNED M. J. Tagg TITLE **District Production Manager** DATE **March 17, 1969**

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY: **491**



*See Instructions On Reverse Side

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1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
3. All distances shown on the plat must be from the outer boundaries of the Section.
4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO X
5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES X NO _____. If answer is "yes," Type of Consolidation Unit Operating Agreement
6. If the answer to question four is "no," list all the owners and their respective interests below:

Owner Odessa Natural Gasoline Company	Land Description 11.13237%
Gulf Oil Corporation	88.86763%

See Attached			

CERTIFICATION

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

M. J. Taylor
Name

Position
District Production Manager
Company
Gulf Oil Corporation

Date
March 18, 1969

I hereby certify that the well location shown on the 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 _____

Registered Professional Engineer and/or Land Surveyor _____

Certificate No. _____

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9-5/8"	32.3	H	0'	350'	350'	Circulate

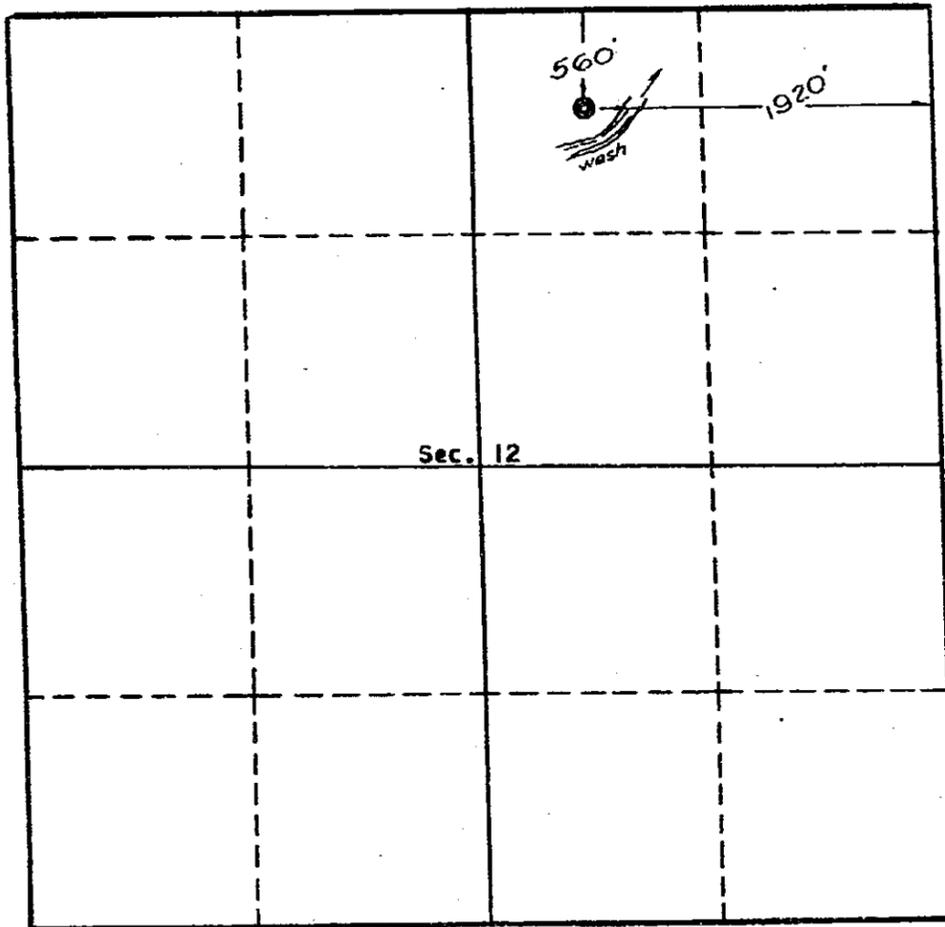
Company GULF OIL CORPORATION

Well Name & No. Gulf Oil Corporation Etal #1 Navajo BS

Location 560 feet from the North line and 1920 feet from the East line.

Sec. 12, T. 37 N., R. 29 E., G. & S. R. M., County Apache, Arizona

Ground Elevation 5971

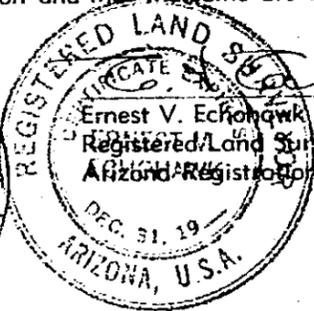


Scale, 1 inch = 1,000 feet

Surveyed March 4, 1969

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:



491



PERMIT TO DRILL

This constitutes the permission and authority from the

OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: GULF OIL CORPORATION
(OPERATOR)

to drill a well to be known as

GULF #1 NAVAJO BS
(WELL NAME)

located 560' FNL - 1920' FNL

Section 12 Township 37N Range 29E, Apache County, Arizona.

The W/2 NE/4 of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 25 day of MARCH, 19 69.

OIL AND GAS CONSERVATION COMMISSION

By John Rannister
EXECUTIVE SECRETARY

PERMIT N^o 491

RECEIPT NO. 9572
API NO. 02-001-20096

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

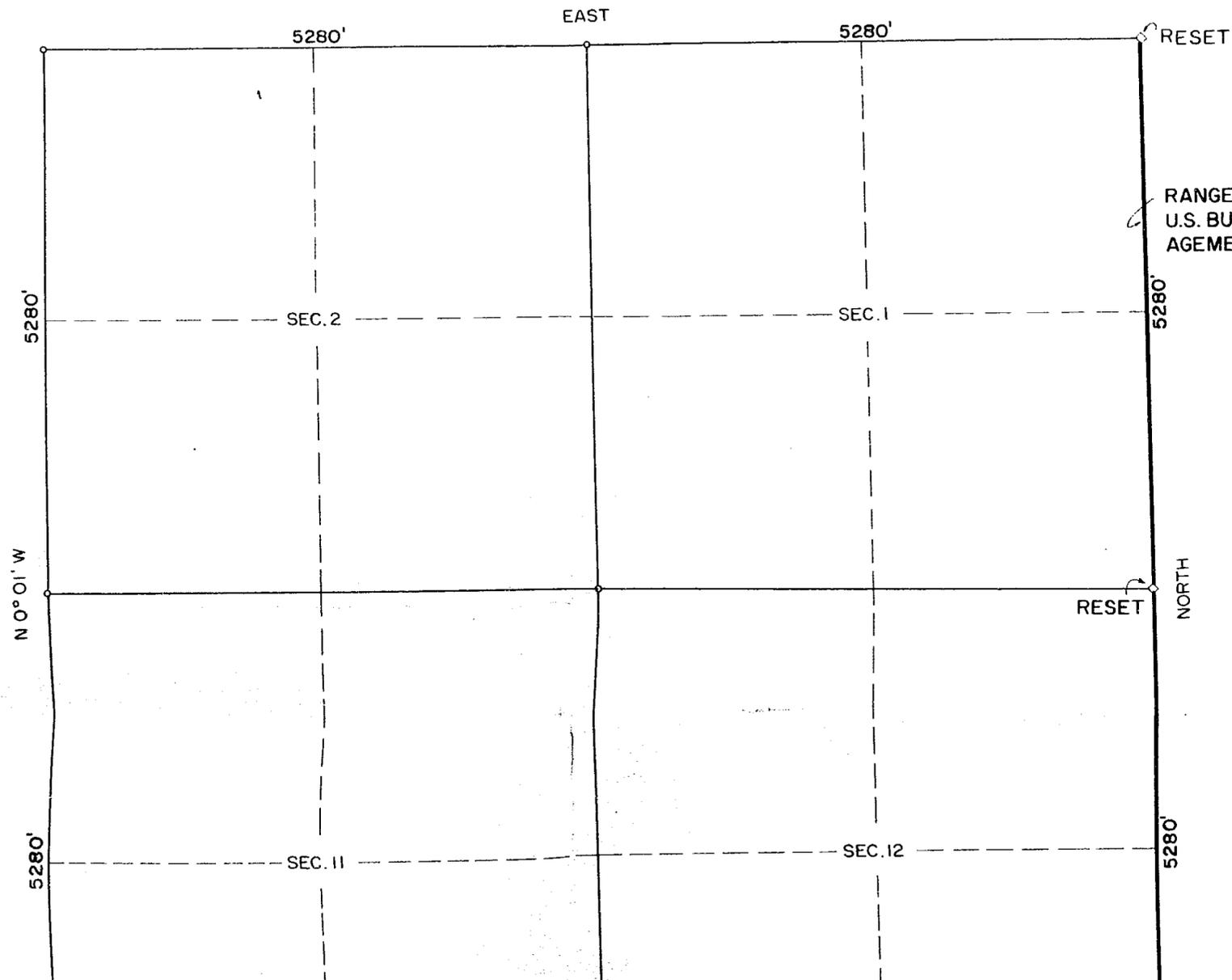
SAMPLES ARE REQUIRED

491



R-29-E

T
37
N



RANGE LINE SURVEYED BY
U.S. BUREAU OF LAND MAN-
AGEMENT, 1951.

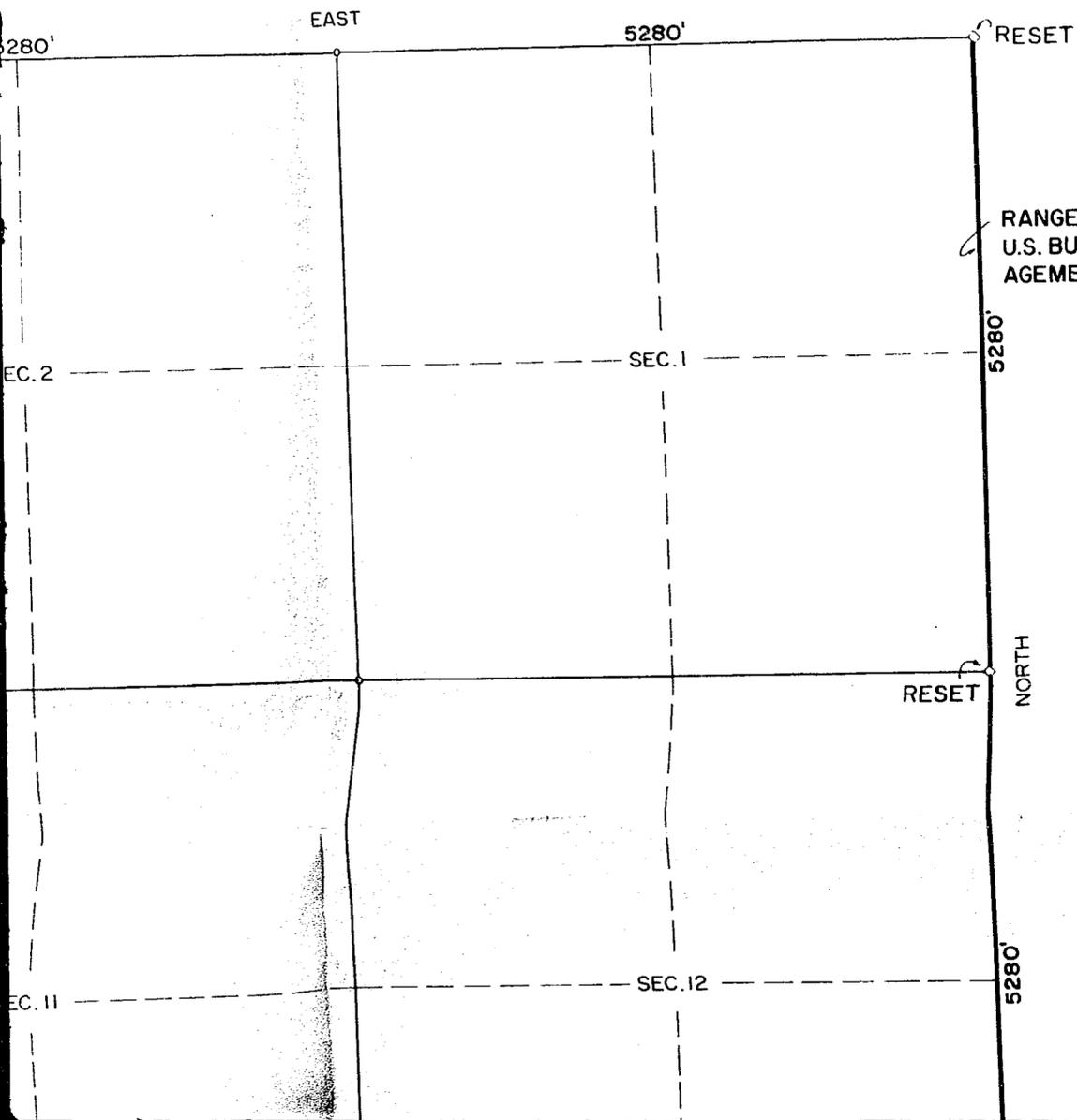
THE HEREON SURVEY WAS MADE IN ACCORDANCE WITH THE PLAN OF SURVEY, ARIZONA PATENT APPLICATION DIAGRAM NO. 38, BUREAU OF LAND MANAGEMENT CADASTRAL ENGINEERING PROTRUDING DIAGRAM APPROVED FEBRUARY 11, 1961.

THIS IS TO CERTIFY THAT THE HEREON SURVEY WAS MADE FROM FIELD NOTES OF ACTUAL SURVEY UNDER MY SUPERVISION AND THAT THE SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

ERNEST
REGISTERED
ARIZONA

N

R-29-E



RANGE LINE SURVEYED BY
U.S. BUREAU OF LAND MAN-
AGEMENT, 1951.

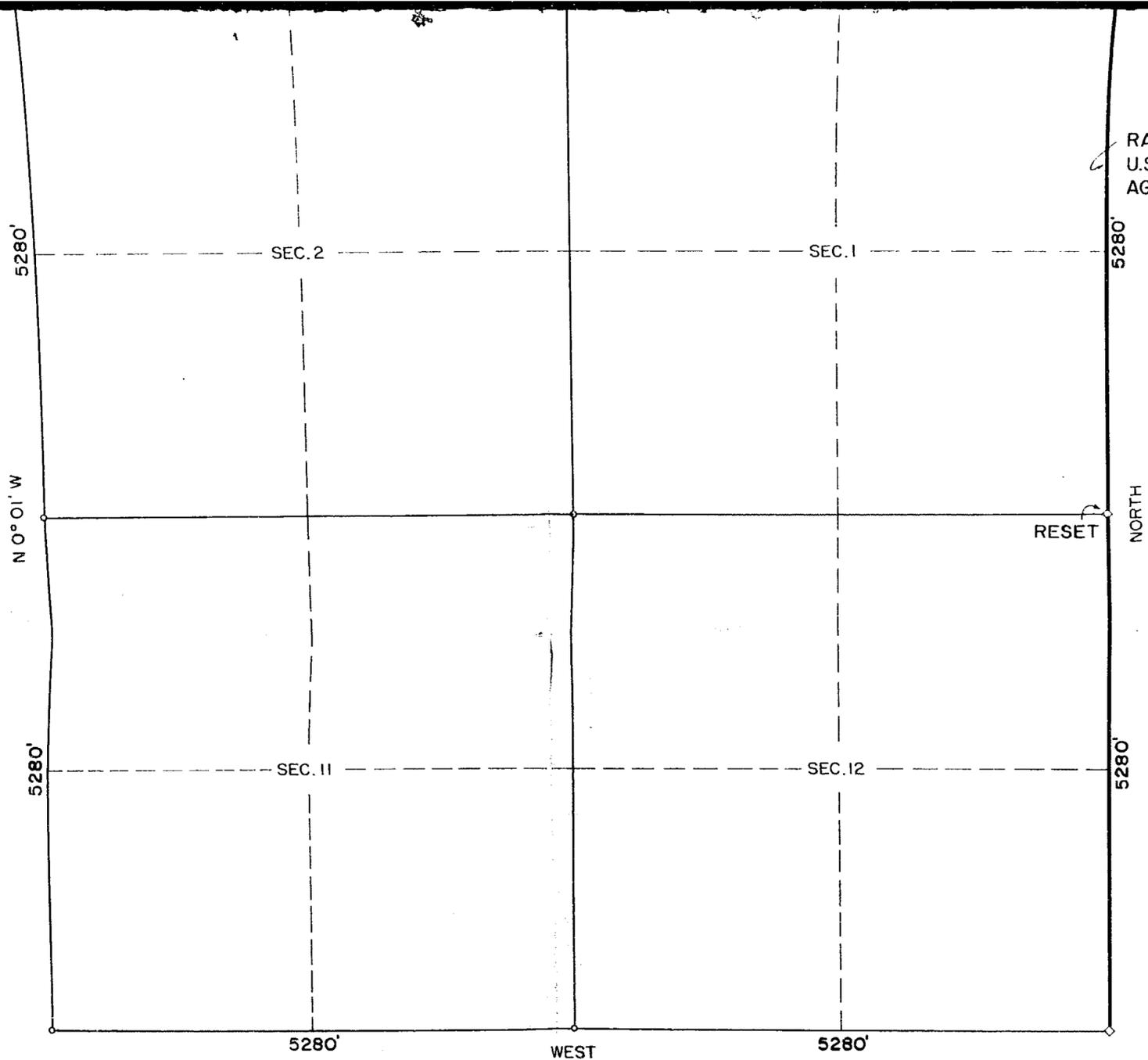
THE HEREON SURVEY WAS MADE IN ACCORDANCE
WITH THE PLAN OF SURVEY, ARIZONA PROTPAC-
TION DIAGRAM NO. 38, BUREAU OF LAND MANAGE-
MENT CADASTRAL ENGINEERING PROTRACTION
DIAGRAM APPROVED FEBRUARY 11, 1960.

THIS IS TO CERTIFY THAT THE HEREON PLAT WAS PREPARED
FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR
UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE
AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Ernest W. Echohawk
ERNEST W. ECHOHAWK
REGISTERED LAND SURVEYOR
ARIZONA REG. NO. 2311

FILE #1 NAVJO-35
S.S. 12-137N-R29E

T
37
N



RANGE LINE SURVEYED BY
U.S. BUREAU OF LAND MAN-
AGEMENT, 1951.

THE HEREON SURVEY WAS MADE IN ACCORDANCE WITH THE PLAN OF SURVEY, ARIZONA PATENT APPLICATION DIAGRAM NO. 38, BUREAU OF LAND MANAGEMENT CADASTRAL ENGINEERING PROTECTION DIAGRAM APPROVED FEBRUARY 11, 1961.

THIS IS TO CERTIFY THAT THE HEREON SURVEY WAS MADE FROM FIELD NOTES OF ACTUAL SURVEY UNDER MY SUPERVISION AND THAT THE SURVEY IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE.

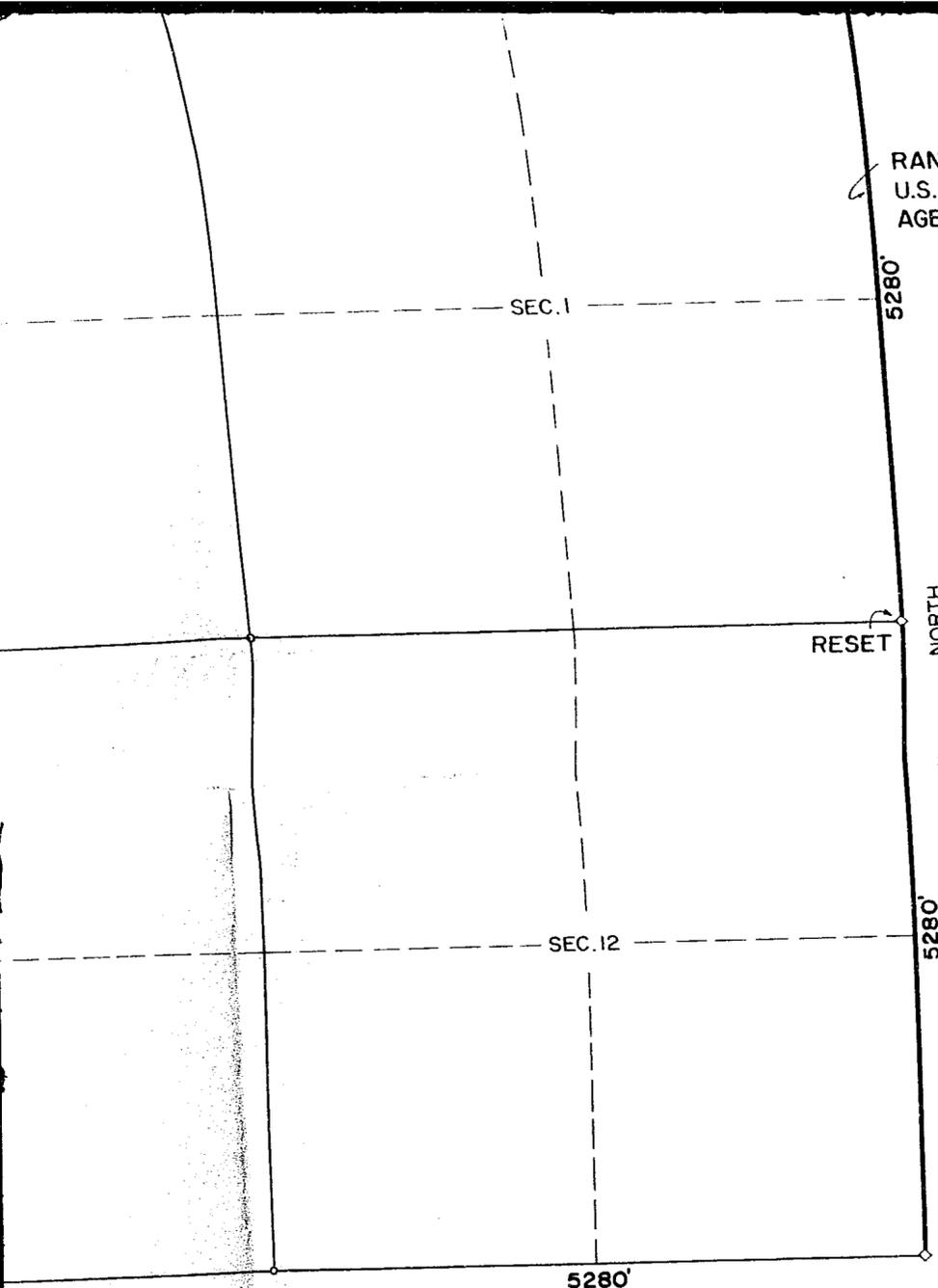
E. V. C.
ERNEST
REGISTERED
ARIZONA



AREA
2560 ACRES
CONTRACT NO.
14-20-0603-1608

G
SURVEY 14-20- i, 2, 11 APACH
MARCH

RANGE LINE SURVEYED BY
U.S. BUREAU OF LAND MAN-
AGEMENT, 1951.



THE HEREON SURVEY WAS MADE IN ACCORDANCE
WITH THE PLAN OF SURVEY, ARIZONA PROTRAC-
TION DIAGRAM NO. 38, BUREAU OF LAND MANAGE-
MENT CADASTRAL ENGINEERING PROTRACTION
DIAGRAM APPROVED FEBRUARY 11, 1960.

THIS IS TO CERTIFY THAT THE HEREON PLAT WAS PREPARED
FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR
UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE
AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Ernest V. Echohawk
ERNEST V. ECHOHAWK
REGISTERED LAND SURVEYOR
ARIZONA REG. NO. 2311



AREA
2560 ACRES
CONTRACT NO.
14-20-0603-1608

GULF OIL CORPORATION

SURVEY OF NAVAJO TRIBAL LEASE, CONTRACT NO.
14-20-0603-1608, COMPRISED OF ALL SECTIONS
1, 2, 11 AND 12, T-37-N, R-29-E, G. & S.R.M.,
APACHE COUNTY, ARIZONA.

MARCH, 1969 DWN: A.E. SCALE 1" = 1000'

FILE #1 NAVAJO-38
12-1378-R29E

RANGE LINE SURVEYED BY
U.S. BUREAU OF LAND MAN-
AGEMENT, 1951.

SEC. I

5280'

RESET

NORTH

SEC. 12

5280'

WEST

5280'

AREA

2560 ACRES

CONTRACT NO.

14-20-0603-1608

THE HEREON SURVEY WAS MADE IN ACCORDANCE
WITH THE PLAN OF SURVEY, ARIZONA PROTRAC-
TION DIAGRAM NO. 38, BUREAU OF LAND MANAGE-
MENT CADASTRAL ENGINEERING PROTRACTION
DIAGRAM APPROVED FEBRUARY 11, 1960.

THIS IS TO CERTIFY THAT THE HEREON PLAT WAS PREPARED
FROM FIELD NOTES OF ACTUAL SURVEY MADE BY ME OR
UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE
AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Ernest V. Echohawk

ERNEST V. ECHOHAWK
REGISTERED LAND SURVEYOR
ARIZONA REG. NO. 2311



GULF OIL CORPORATION

SURVEY OF NAVAJO TRIBAL LEASE, CONTRACT NO.
14-20-0603-1608, COMPRISED OF ALL SECTIONS
1, 2, 11 AND 12, T-37-N, R-29-E, G & S R. M.,
APACHE COUNTY, ARIZONA.

MARCH, 1969 DWN: A.E. SCALE 1" = 1000'

FILE #1 NAVAJO-BS
S. 1. 12-137N-R29E

Gulf Oil Company - U.S.

EXPLORATION AND PRODUCTION DEPARTMENT
ROSWELL DISTRICT

T. W. Kidd
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
P. E. Wyche
DISTRICT EXPLORATION
MANAGER
H. A. Rankin
DISTRICT SERVICES MANAGER

February 27, 1970

P. O. Drawer 1938
Roswell, New Mexico 88201

Oil and Gas Conservation Commission
State of Arizona
1624 West Adams, Room 202
Phoenix, Arizona 85007

Attention: Mr. John Bannister

Re: Gulf No. 1 Navajo "BS"
Section 12, T37N-R29E,
Apache County, Arizona

Gentlemen:

In reply to your letter of February 25, 1970 concerning the whereabouts of samples on the captioned well; please be advised that the Four Corners Sample Cut has informed me by telephone that these samples along with samples from other Gulf wells were shipped via Continental Trailways on January 2, 1970 to the addresses and in the manner prescribed in D-1-68.

If I can be of further assistance in this matter, please do not hesitate to contact me.

Yours very truly,

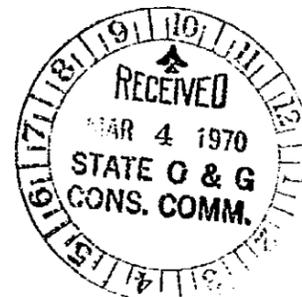
Lester Marshall

Lester Marshall
District Exploration Geologist

LRM:dch



A DIVISION OF GULF OIL CORPORATION



February 26, 1970

Mr. L. R. Marshall
Gulf Oil Company
P. O. Drawer 1938
Roswell, New Mexico 88201

Re: Gulf #1 Navajo BS (1608)
NW/4 NE/4 Sec. 12
T37N, R29E, G & SRM
Apache County
Our File #491

Dear Mr. Marshall:

When the permit was issued on the captioned well, you were given an instruction sheet D-1-68 which tells how samples taken from wells are to be handled. As of this date we have received no notification that samples were shipped to the Arizona Bureau of Mines in Tucson, Arizona, or to the Museum of Northern Arizona in Flagstaff, Arizona. Would you please inform this office as to where the samples for this well are presently located.

Sincerely,

John Bannister
Executive Secretary

jd
Enc.

Gulf Oil Corporation

HOBBS PRODUCTION AREA

May 15, 1969

C. D. Borland
AREA PRODUCTION MANAGER

P. O. Box ~~2000~~ 670
Hobbs, New Mexico

Mr. James A. Lambert
Arizona Oil & Gas Conservation Commission
Room 202
1624 West Adams
Phoenix, Arizona 85007

Dear Sir:

Enclosed is Form 10 on our Navajo "BS" well No. 1, located in the NW/4, NE/4, Section 12, T-37-N, R-29-E, G & SRM, Apache County, which was plugged and abandoned May 2, 1969.

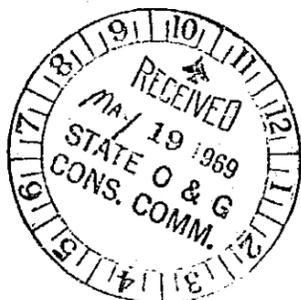
Please furnish this office with additional copies of Form No. 10.

Yours truly,



C. D. BORLAND

lwd:



491

Gulf Oil Company - U.S.

EXPLORATION AND PRODUCTION DEPARTMENT
ROSWELL DISTRICT

T. W. Kidd
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
P. E. Wyche
DISTRICT EXPLORATION
MANAGER
H. A. Rankin
DISTRICT SERVICES MANAGER

P. O. Drawer 1938
Roswell, New Mexico 88201

May 13, 1969

U. S. Geological Survey
Post Office Box 959
Farmington, New Mexico 87401

Attention: Mr. P. T. McGrath

Re: Gulf Oil Company No. 1 Navajo "BS"
Location: 590' FNL & 1920' FEL
Sec. 12, T-37N, R-29E, GSRM,
Apache County, Arizona

Gentlemen:

Enclosed are ^{one} two copies each of all logs run on the
above captioned well; Induction-Electric, Borehole Compensated
Sonic, Gamma Ray and Sidewall Neutron Porosity.

Yours very truly,

L. R. Marshall

L. R. Marshall
District Exploration Geologist

Enclosures
FLY:sz



A DIVISION OF GULF OIL CORPORATION

*Orig sent to McGrath
we kept a set of logs -
they sent only one set*



X-CHRONO
X-LAMBERT

May 7, 1969

Mr. L. R. Marshall
Gulf Oil Company - U. S.
P. O. Drawer 1938
Roswell, New Mexico 88201

Re: Gulf #1 Navajo BS
Sec. 12: NW/4 NE/4
T37N, R29E, G & SRM
Apache County
Permit #491

Dear Mr. Marshall:

We received the U.S.G.S. Report on the captioned well in our office this date. In order to complete our files we request that you submit all logs that were run on this well; also, please handle the samples in accordance with the instruction sheet furnished you when the permit was issued.

We are enclosing our Form 10, Plugging Record, and our Form 4, Well Completion Report. Be sure to complete the Form 4 on both sides. Please return these forms to us as soon as possible.

Yours truly,

recd. 5/19/69
James A. Lambert
Administrative Assistant

jf

Enc.

491

Gulf Oil Company - U.S.

EXPLORATION AND PRODUCTION DEPARTMENT
ROSWELL DISTRICT

T. W. Kidd
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
P. E. Wyche
DISTRICT EXPLORATION
MANAGER
H. A. Rankin
DISTRICT SERVICES MANAGER

P. O. Drawer 1938
Roswell, New Mexico 88201

April 15, 1969

Oil and Gas Conservation Commission
Room 202
1624 West Adams
Phoenix, Arizona 85007

42
Re: Gulf Oil Company No. 1 Navajo "BS"
Location: 560' FNL & 1920' FEL
Sec. 12, T-37N, R-29E, GSRM
Apache County, Arizona
Elevation: 5971' Gr.
5985' KB

Gentlemen:

Please be advised that the above wildcat test well spudded at 6:30 A.M. on April 15, 1969.

It is respectfully requested that information be kept confidential as the well is being drilled tight.

Samples of well cuttings will be handled as prescribed in your Form D-1-68.

Yours very truly,

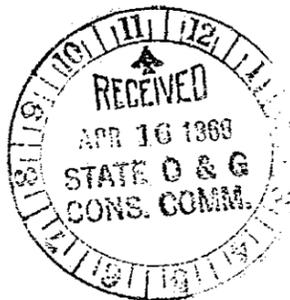
L. R. Marshall
L. R. Marshall
District Exploration Geologist

LRM:sz



A DIVISION OF GULF OIL CORPORATION

491



Gulf Oil Company - U.S.

EXPLORATION AND PRODUCTION DEPARTMENT
ROSWELL DISTRICT

March 26, 1969

P. O. Drawer 1938
Roswell, New Mexico 88201

T. W. Kidd
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
P. E. Wyche
DISTRICT EXPLORATION
MANAGER
H. A. Rankin
DISTRICT SERVICES MANAGER

Oil and Gas Conservation Commission
State of Arizona
Room 202, 1624 West Adams
Phoenix, Arizona 85007

Attention: Mr. James A. Lambert
Administrative Assistant

Gentlemen:

As requested in your letter of March 25, 1969,
enclosed is Organization Report for Gulf Oil Corporation
updated as of March 26, 1969.

Yours very truly,


P. E. Wyche

Enclosure

PEW:bc



DIVISION OF GULF OIL CORPORATION

491

X-Chloro Log
X-Lambert Log

March 25, 1969

Mr. M. I. Taylor
Gulf Oil Corporation
P. O. Drawer 1938
Roswell, New Mexico 88201

Re: Gulf #1 Navajo BS
T37N, R29E, G & SRM
Sec. 12: NW/4 NE/4
Apache County, Arizona
Permit #491

Dear Mr. Taylor:

Enclosed is the Application For Permit To Drill which has been approved, our Receipt #9572, a copy of your plat, and our Permit To Drill #491.

We also enclose miscellaneous instruction sheets pertaining to well samples and reports required by this office.

Yours truly,

James A. Lambert
Administrative Assistant

Jf

Enc.

491

X- Chrono log
X- Lambert
Log

March 25, 1969

Gulf Oil Corporation
P. O. Box 1938
Roswell, New Mexico 88201

Re: Organization Report

Gentlemen:

Enclosed is a photocopy of the Organization Report we have on file for your corporation. This report is dated 9-1-67. We are enclosing a new form to be submitted if there have been any changes since that time. If your original Organization Report is correct, please advise.

Yours truly,

James A. Lambert
Administrative Assistant

jl

Enc.

Gulf Oil Company - U.S.

EXPLORATION AND PRODUCTION DEPARTMENT
ROSWELL DISTRICT

T. W. Kidd
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
P. E. Wyche
DISTRICT EXPLORATION
MANAGER
H. A. Rankin
DISTRICT SERVICES MANAGER

P. O. Drawer 1938
Roswell, New Mexico 88201

March 18, 1969

State of Arizona
Oil and Gas Conservation Commission
1624 West Adams, Room 202
Phoenix, Arizona 85007

Re: Application for Permit to Drill
Navajo "BS" No. 1, Apache County, Arizona

Gentlemen:

Enclosed for your consideration and approval are the following:

- (1) Two copies of Application for Permit to Drill.
- (2) Two copies of Location Plat.
- (3) Security National Bank of Roswell Cashier's Check No. 94520 in the amount of \$25.00, covering permit fee.

If this application meets with your approval, please forward permit to the above address, Attention: District Production Manager.

Yours very truly,



M. I. Taylor

Enclosures
REA:sz



A DIVISION OF GULF OIL CORPORATION

491

Gulf Oil Company - U.S.

EXPLORATION AND PRODUCTION DEPARTMENT
ROSWELL DISTRICT

T. W. Kidd
DISTRICT MANAGER
M. I. Taylor
DISTRICT PRODUCTION
MANAGER
P. E. Wyche
DISTRICT EXPLORATION
MANAGER
H. A. Rankin
DISTRICT SERVICES MANAGER

P. O. Drawer 193B
Roswell, New Mexico 88201

March 17, 1969

U. S. Geological Survey
Post Office Box 959
Farmington, New Mexico 87401

Re: Application for Permit to Drill
Navajo "BB" No. 1, Apache County,
Arizona

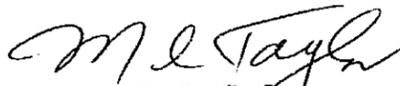
Gentlemen:

Enclosed for your consideration and approval are three copies of
Application For Permit To Drill with three copies of Location Plat for well.

By carbon copy of this letter we are furnishing the Navajo Indian
Tribe copies of the above enclosures.

If this application meets with your approval, please forward
permit to the above address, Attention: District Production Manager.

Yours very truly,


M. I. Taylor

Enclosures
REA:sz

cc: Navajo Area Office
Bureau of Indian Affairs
Window Rock, Arizona 86515
(w/Attachments)

State of Arizona
Oil and Gas Conservation Commission
1624 West Adams, Room 202
Phoenix, Arizona 85007
(w/Attachments)



A DIVISION OF GULF OIL CORPORATION

491