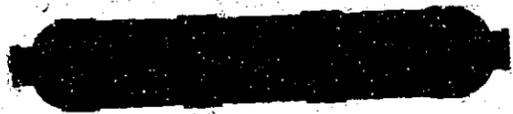


Gulf Oil 1 Garnet Ridge-Navajo  
NE/4-NE/4 Sec 16- 41N-24E  
Apache, C ounty

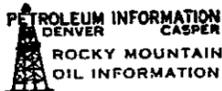


P-W

248

ARIZONA  
APACHE CO.  
WILDCAT (W)

248



Twp 41n-24e  
Section 16  
ne ne  
660 s/n 660 w/e

OPR: Gulf Oil  
ELEV: 5175 DF.  
TOPS: Log-Samples

WELL #: 1 Garnet Ridge-Navajo

Shinarump 1636  
DeChelly 1960  
Organ Rock 2475  
Hermosa 4057  
Ismay zone 4790  
Desert Creek 4901  
Molas 5568  
Redwall 5738  
Ouray 6095  
Elbert 6214  
McCracken 6510  
Aneth 6595  
Lynch 6742

DSTS. & CORES:  
Crd 6647-58, rec 11  
dolo, finely crys, dark  
brown, low to no poro,  
bleeding oil on fract  
6653-57. DST 6602-  
58, SI 1 hr 48 mins,  
open 1 hr, SI 1 hr, rec  
90 mud, FP 98-98#,  
SIP 2215-2215#, HP  
3096-3096#.

SPUD: 10-11-63  
TD: 6769  
CSG: 13-3/8" @ 118 w/125  
8-5/8" @ 1000 w/275

COMPL: 12-20-63

PB:

PERF:

PROD. ZONE:

INIT. PROD: Drl'd w/air to 1914 ft.

Contr: Aspen

Ariz. 1-464110

Spl Tops:  
Kayenta 320  
Wingate 430  
Chinle 790  
Moenkopi 1820

sl

COUNTY Apache AREA 40 mi. NE Kayenta LEASE NO. 14-20-0603-7749

WELL NAME Gulf 1 GARNET RIDGE-NAVAJO

LOCATION NE NE SEC 16 TWP 41N RANGE 24E FOOTAGE 660 FNL 660 FEL

ELEV 5175 DFOR 5176 KB SPUD DATE 10-11-63 STATUS Am Strat TOTAL DEPTH 6769'  
COMP. DATE 1-3-64

CONTRACTOR Aspen Drilling Co., Farmington, N. M.

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
<u>13 3/8"</u>	<u>108</u>	<u>125 circ.</u>		<u>x</u>
<u>8 5/8</u>	<u>1000</u>	<u>275 circ.</u>		
				DRILLED BY CABLE TOOL
				PRODUCTIVE RESERVOIR
				INITIAL PRODUCTION <u>P&amp;A</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
<u>Navajo</u>	<u>Surface</u>		<u>x</u>	<u>Am Strat differs</u>
<u>Kayenta</u>	<u>320'</u>			
<u>Wingate</u>	<u>430'</u>			
<u>Chinle</u>	<u>790'</u>			<u>Lynch 6742'</u>
<u>Shinarump</u>	<u>1636'</u>			
<u>Moenkopi</u>	<u>1810'</u>			
<u>DeChelly</u>	<u>1960'</u>			
<u>Organ Rock</u>	<u>2475'</u>			
<u>Hermosa</u>	<u>4057'</u>			
<u>Molas</u>	<u>5568'</u>			
<u>Redwall</u>	<u>5738'</u>			
<u>Ouray</u>	<u>6095'</u>			
<u>Elbert</u>	<u>6214'</u>			
<u>McCracken</u>	<u>6510'</u>			
<u>Aneth</u>	<u>6595'</u>			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
<u>GR Sonic; Microlog;</u>			<u>Am Strat</u>
<u>IE, SRS Velocity Survey</u>	<u>NA</u>	<u>NA</u>	<u>SAMPLE DESCRP.</u>
			<u>SAMPLE NO. <del>1264</del> 1264*</u>
			<u>CORE ANALYSIS x</u>
			<u>DSTs x</u>
			<u>*Tucson 1678</u>

REMARKS	APP. TO PLUG
	<u>PLUGGING REP. x</u>
	<u>COMP. REPORT x</u>

WATER WELL ACCEPTED BY \_\_\_\_\_

BOND CO. Federal Insurance Company BOND NO. 8002-80-39  
 BOND AMT. \$ 10,000 CANCELLED 9-23-65 DATE 9-20-63  
 FILING RECEIPT 9347 LOC. PLAT x WELL BOOK x PLAT BOOK x  
 API NO. \_\_\_\_\_ DATE ISSUED 9-25-63 DEDICATION E/2 NE/4

PERMIT NUMBER 248



### 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 Post Office Box 1938, Roswell, New Mexico			
Lease Name Garnet Ridge Navajo		Well Number 1	Field & Reservoir Wildcat		
Location 660' FNL & 660' FEL Section 16, T-41-N, R-24-E					Sec.—TWP-Range or Block & Survey
County Apache	Permit number 248	Date Issued 9-23-63	Previous permit number	Date Issued	
Date spudded 10-11-63	Date total depth reached 12-17-63	Date completed, ready to produce	Elevation (DF, RKB, RT or Gr.) 5175.6 DF feet	Elevation of casing hd. flange 5167' feet	
Total depth 6769'	P.B.T.D.	Single, dual or triple completion? Dry		If this is a dual or triple completion, furnish separate report for each completion.	
Producing interval (s) for this completion		Rotary tools used (interval) Surface to TD		Cable tools used (interval)	
Was this well directionally drilled? No	Was directional survey made?	Was copy of directional survey filed?	Date filed		
Type of electrical or other logs run (check logs filed with the commission) Schlumberger SGR ML SRS Velocity Survey			Date filed 12-26-63		

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	17-1/2"	13-3/8"	48#	108'	125 - Circ.	None
Intermediate	11"	8-5/8"	24#	1000'	275 - Circ.	None

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	

INITIAL PRODUCTION

Date of first production Dry		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)				
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)
Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	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.

January 3, 1964

Date

Signature

*M. I. Taylor*  
M. I. Taylor

STATE OF ARIZONA OIL & GAS  
CONSERVATION COMMISSION  
Well Completion or Recompletion Report and Well Log  
Form No. P-7 File two copies

2  
948

**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
Jurassic Navajo	Surface	320	
Jurassic Kayenta	320	430	
Jurassic Wingate	430	790	
Triassic Chinle	790	1636	
Triassic Shinarump	1636	1810	
Triassic Moenkopi	1810	1960	
Permian DeChelly	1960	2475	
Permian Organ Rock	2475	4057	
Penn Hermosa	4057	5568	
Penn Molas	5568	5738	
Miss. Redwall	5738	6095	
Devonian Ouray	6095	6214	
Devonian Elbert	6214	6510	
Devonian McCracken	6510	6595	
Devonian Aneth	6595	6742	Dol.-crm., dns-xln., dk brn., dns.-med.xln, some anhydrite as stringers and porosity filling.
Cambrian Lynch (Bright Angel)	6742	6763	Dol.-crm.-H.gy., dns, w/floating qtz grains.  Diamond cored 6647-6658', recovered 11' dense black dolomite w/white dolomite crystals in fractures, stain and odor in fracture and bedding planes.  DST #1 6620-6658'. Opened 2 min., faint blow air. Closed for 108 min. Opened for 1 hr. (bypassed tool, no results). CI 1 hr., rec. 90' drlg mud, no shows oil or gas. IHP 3096#, FHP 3096#. 108 min. ISIP 2215#. 60 min. ISIP 2215# IFP 98#, FFP 98#  Plugged and abandoned. 40 sx plug 6670', 65 sx plug 6250', 40 sx plug 5813', 40 sx plug 4100', 40 sx plug 2035', 30 sx plug 1046', 35 sx plug 50' to surface. Installed 4" pipe marker.

\* 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.

Form 9-351b  
(April 1952)


(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.2  
Approval expires 12-31-65.

Indian Agency Navajo  
Window Rock, Ariz.  
Allottee Gulf Oil-Cal.  
Lease No. TR No. 38  
Contr. 14-20-0603-7749

### SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

October 14, 1963, 1963

NAVAJO-CARRIET RIDGE  
Well No. 1 is located 660 ft. from N line and 660 ft. from E line of sec. 16  
NE/4, NE/4, Sec. 16 41-N 24-W 660R  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wildcat Apache, Arizona  
(Field) (County or Subdivision) (State or Territory)

RECEIVED

The elevation of the derrick floor above sea level is 5175.6 ft.

#### DETAILS OF WORK

U. S. GEOLOGICAL SURVEY

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Drilling Contractor, Aspen Drilling Co., Farmington, N. Mex.
2. Well Spudded 9:00 AM October 11, 1963
3. Conductor Pipe: 13-3/8 in., 48 Lb., New Csg. set @ 118 Ft. in 17 1/2 in. hole. Cemented w/125 Sx (50% excess) Ideal "C" Cem & 2% CaCl<sub>2</sub> by Dowell. Circul. 40 Sx Cem. 10-11-63.
4. Drilled 11 in. hole to 1,002 Ft. Cemented 32 Jts. 8-5/8 in., 24 Lb. J-55 new Csg w/shoe @ 1,000'. Dowell emtd w/275 Sx. (40% excess) Ideal "C" cement & 2% CaCl<sub>2</sub>. Circulated 30 Sx. Compl. 7:30 PM, 10-14-63. Tested w/600 PSI cold water.
5. Propose to test csg & conn w/2,000 PSI then empty hole and drill ahead with air as far as possible or to top of Nolas.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Gulf Oil Corporation  
Address P. O. Box 1938,  
Roswell, N. Mexico  
ZIP-88201

By Carl O. Van Slyke, Eng.  
District Drilling Eng.  
Title \_\_\_\_\_

3248

Form 9-331B  
(April 1952)

			X

(SUBMIT IN TRIPPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Form approved.  
Budget Bureau No. 42-R329.4.

Indian Agency Navajo  
Window Rock, Arizona  
Allottee Gulf Oil of Calif.  
Lease No. Tr No. 38  
Cont 14-20-0603-7749

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

September 19, 1963

Well No. 1 is located 660 ft. from N line and 660 ft. from E line of sec. \_\_\_\_\_  
NE/4 NE/4 16 41N 24E Gila & Salt River  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Wildcat Apache Arizona  
(Field) (County or Subdivision) (State or Territory)

The elevation of ~~the surface~~ above sea level is 5167 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

1. Conductor Pipe - 13 3/8" H-40 48# csg. cemented at 120' in 17 1/2" hole. Circulate cement.
2. Surface Casing - 8-5/8" 24# J-55 csg. cemented approximately 1000' in 11" hole. Cement circulated to surface.
3. Air drill 7-7/8" hole as deep as possible but not to exceed top of Molas formation at approximately 5350'.
4. Drill with mud through Devonian formation. Any shows of oil or gas will be drill stem tested and possibly cored.
5. If production is found, casing will be run, either 5 1/2" or 4 1/2" (subject of supplementary report.)
6. Run IE-S, CR-Sonic and Microlog survey and perform velocity survey at total depth.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Gulf Oil Corporation

Address P. O. Box 1938

Roswell, New Mexico

By Carl C. Von Ehr  
Carl C. Von Ehr

Title District Drilling Engineer

### DESIGNATION OF OPERATOR

**Bureau of Indian Affairs**

The undersigned is, on the records of the ~~Department of the Interior~~, holder of lease

DISTRICT LAND OFFICE: **Window Rock, Arizona**  
SERIAL NO.: **Havasupai Tribal Lands - Contract No. 14-20-0603-7749**

and hereby designates

NAME: **Gulf Oil Corporation**  
ADDRESS: **P. O. Box 1938, Newell, New Mexico**

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Operating Regulations with respect to (describe acreage to which this designation is applicable):

**ALL - SEE OTHER**  
Section 15: **ALL**  
Section 16: **ALL**  
Section 21: **ALL**  
Section 22: **ALL**  
**Apache County, Arizona**

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the supervisor of any change in the designated operator.

**GULF OIL CORPORATION OF CALIFORNIA**

ACCEPTED:

*Joseph Van Buren* *A. H. Hall, Jr.*  
**Joseph Van Buren, Assistant Sec.** **A. H. Hall, Jr. (Signature of lessee, Vice-President)**

**September 12, 1963**

**P. O. Box 2077, Denver, Colorado**

(Date)

(Address)

248

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL  DEEPEN  PLUG BACK

NAME OF COMPANY OR OPERATOR **Gulf Oil Corporation** DATE **September 19, 1963**  
**P. O. Box 1938** **Roswell** **New Mexico**  
 Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease <b>Garnet Ridge-Navajo</b>	Well number <b>1</b>	Elevation (ground) <b>5167'</b>
Well location <b>660' FNL &amp; 660' FEL</b>	Section—township—range or block & survey <b>16 41N 24E G&amp;SR Meridian</b>	
Field & reservoir (If wildcat, so state) <b>Wildcat</b>	County <b>Apache</b>	
Distance, in miles, and direction from nearest town or post office <b>40 NE from Kayenta</b>		
Nearest distance from proposed location to property or lease line: <b>660'</b>	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: <b>None</b>	
Proposed depth: <b>6600'</b>	Rotary or cable tools <b>Rotary</b>	Approx. date work will start <b>10-1-63</b>
Number of acres in lease: <b>2560</b>	Number of wells on lease, including this well, completed in or drilling to this reservoir: <b>None One</b>	
If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address

Status of bond  
**\$10,000 bond applied for**

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

\* Fill in Proposed Casing Program on other side

District Drilling Engineer

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the \_\_\_\_\_ 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.

**September 19, 1963**  
Date

*Carl C. Von Elm*  
Signature **Carl C. Von Elm**

Permit Number: **248**  
 Approval Date: **SEP 25 1963**  
 Approved By: *[Signature]*  
 Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.  
 See Instruction on Reverse Side of Form

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

Application to Drill, Deepen or Plug Back

Form No. P-1

File two copies

Effective Feb. 28, 1962.

INSTRUCTIONS

READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
13-3/8"	48#	H-40	0'	120'	120'	Circulate
8-5/8"	24#	J-55	0	1000'	1000'	Circulate

COMPANY Gulf Oil Corporation

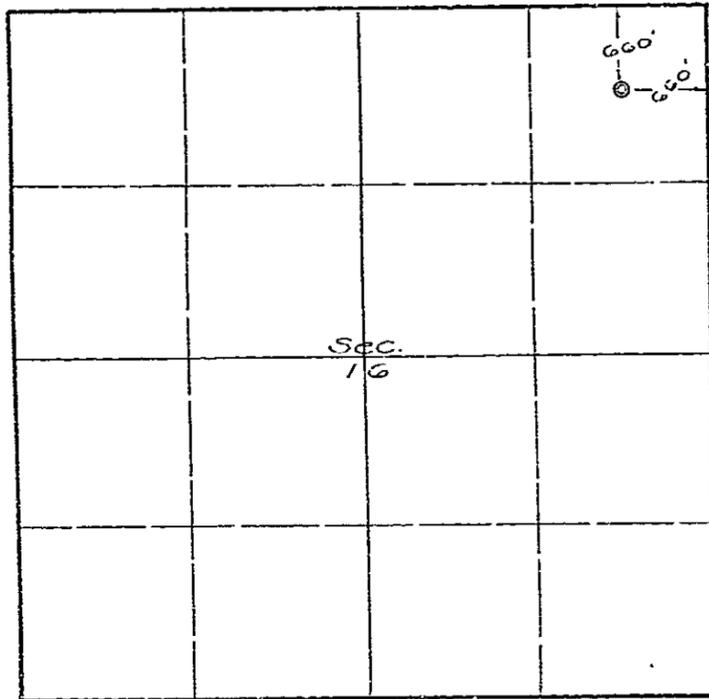
Well Name & No. Gulf Garnet Ridge Navajo No. 1 Lease No. \_\_\_\_\_

Location 660 feet from the North line and 660 feet from the East line.

Being in NE1/4

Sec. 16, T 41N., R 24<sup>EAST</sup> ~~WEST~~, Gila and Salt River Meridian, Apache County, Arizona.

Ground Elevation 5167



Surveyed August 29, 19 63

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.

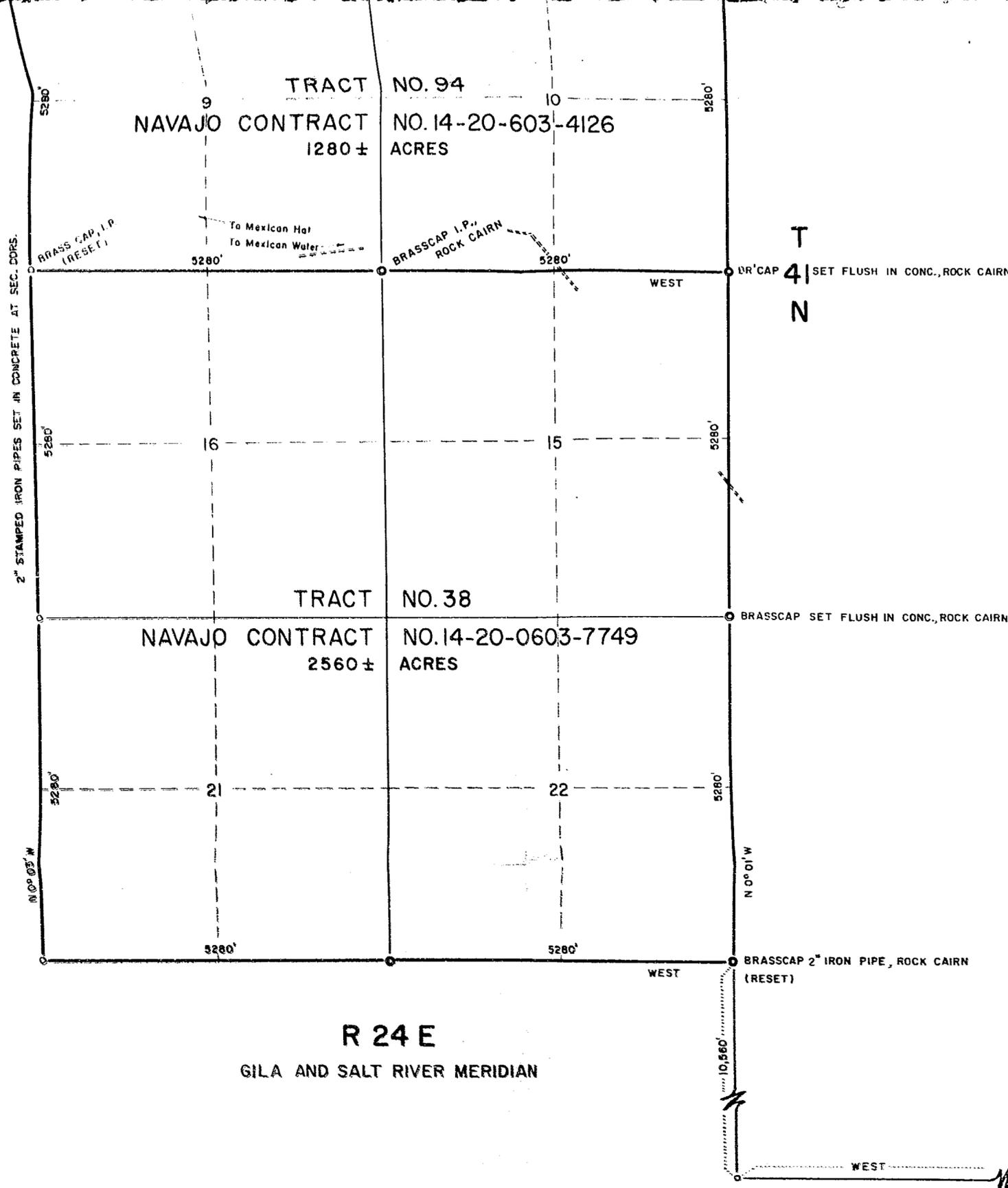


Ernest V. Echohawk  
Ernest V. Echohawk  
Registered Land Surveyor  
~~N. M. Reg. #1545~~  
Arizona Reg. No. 2311

248



PAN AMERICAN TRACT NO. 99 SECS. 17-18-19-20 SURVEYED BY E.V. ECHOHAWK, OCTOBER 1958



T  
4  
N



R 24 E  
GILA AND SALT RIVER MERIDIAN

T 41 N
R 26 E   R 27 E
S 35   S 31
T 40 N
1353

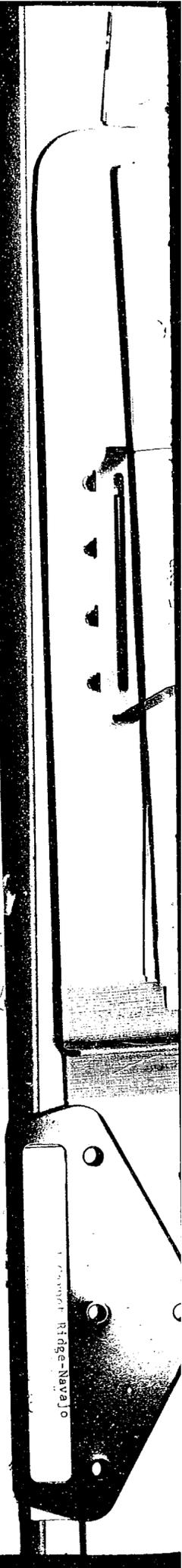
U.S. D.L.M. STD. CORNER

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 IS TRUE AND CORRECT TO  
THE BEST OF MY KNOWLEDGE AND BELIEF.

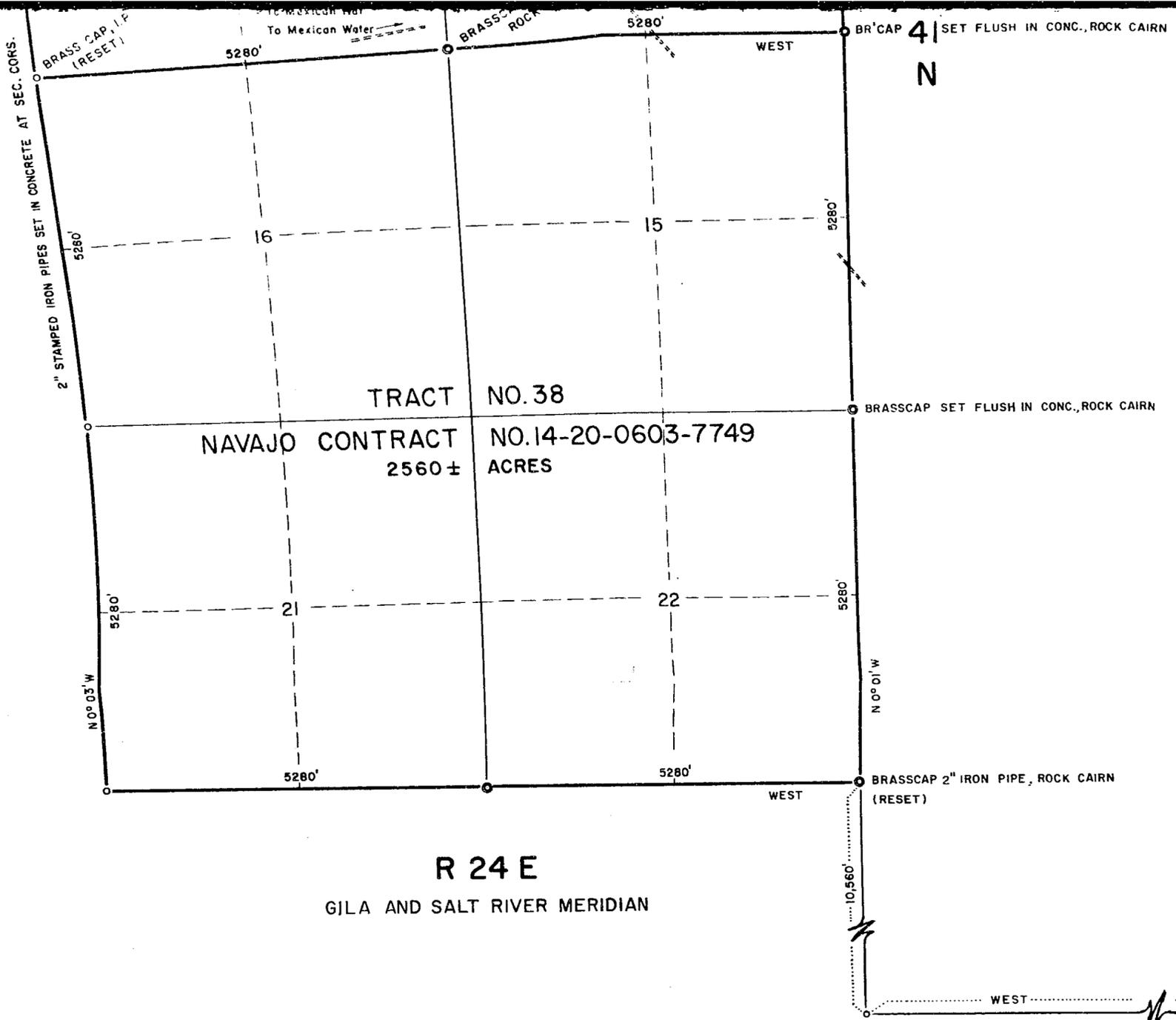


*Ernest V. Echohawk*  
 ERNEST V. ECHOHAWK

GULF OIL CORPORATION  
 NAVAJO TRACT LEASES



PAN AMERICAN TRACT NO. 99 SECS. 17-18-19-20 SURVEYED BY E.V. ECHOHAWK, OCTOBER 1958



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 IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.



*Ernest V. Echohawk*  
 ERNEST V. ECHOHAWK  
 REGISTERED LAND SURVEYOR  
 ARIZONA REG. NO. 2311  
 ERNEST V. ECHOHAWK  
 PETROLEUM CLUB PLAZA  
 FARMINGTON, N. MEX.

**GULF OIL CORPORATION**

NAVAJO TRIBAL LEASES  
 TRACT NO. 94 SECTIONS 9 AND 10  
 TRACT NO. 38 SECS. 15-16-21-22  
 T 41 N, R 24 E, G. & S. R. M.  
 NAVAJO INDIAN RESERVATION  
 APACHE COUNTY ARIZONA

SURVEYED BY E.V. ECHOHAWK, AUG. 1963  
 SCALE 4 INCHES = 1 MILE

248

KNOW ALL MEN BY THESE PRESENTS

8002-80-59

BOND SERIAL NO. \_\_\_\_\_

That we: Gulf Oil Corporation, a Pennsylvania corporation,

of the Allegheny County in the Pennsylvania State of:

as principal, and Federal Insurance Company, a New Jersey corporation,

of New York, New York AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to wit:

(May be used as blanket bond or for single well)

Blanket Bond

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of Ten Thousand Dollars (\$10,000.00)

Witness our hands and seals, this 20th day of September, 1963

Form Approved Law Dept. W

By: [Signature] Attorney-in-Fact Principal  
[Signature] Secretary

Witness our hands and seals, this 21st day of September, 1963

CANCELLED

DATE 9-23-65  
(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved \_\_\_\_\_ Date \_\_\_\_\_

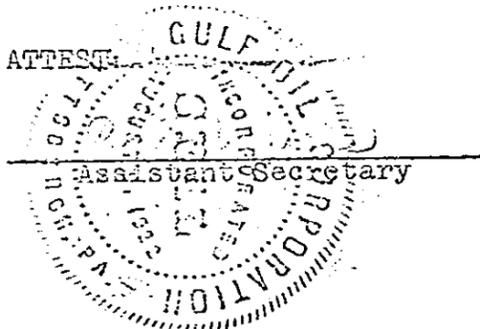
STATE OF ARIZONA OIL AND GAS CONSERVATION COMMISSION 248

POWER OF ATTORNEY

Gulf Oil Corporation, a corporation duly organized and existing under the laws of the Commonwealth of Pennsylvania, does hereby make, constitute, and appoint W. B. HOPKINS its true and lawful Attorney in Fact, and he is hereby authorized and directed for and in its name, place, and stead from time to time to do and perform such acts and to execute and deliver in the name and under the seal of the Corporation, and for and on its behalf all such contracts, agreements, bonds, affidavits, and other instruments as may be incident and necessary in the operation of the Corporation's business, it being intended that the authority hereby conferred shall include the power to buy, sell, or exchange real estate and personal property; to grant and acquire mineral leases and surface leases and execute assignments, subleases, and releases thereof; and to execute contracts of joint adventure, drilling contracts, and other contracts for the exploration and development of minerals; and likewise to execute in the name and under the seal of the Corporation all such bonds and assurances as may be required for the due and faithful performance of each and every such contract, agreement, or other instrument entered into in the name of the Corporation. The Power of Attorney herein granted shall continue until revoked and it shall have the same force and effect as though special authority was granted to said W. B. HOPKINS to do each such act and to execute each such contract or bond or other instrument separately for each and every such act so done or contract or bond or instrument so entered into.

Executed at Houston, Texas, this 6th day of September, 1962.

ATTEST:



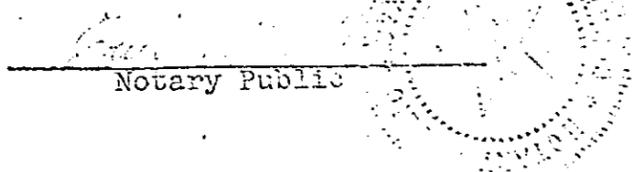
GULF OIL CORPORATION

By H. F. Beardmore  
H. F. Beardmore, Vice President

THE STATE OF TEXAS  
COUNTY OF HARRIS

On this the 23rd day of September, 1962, before me, EVELYN M. FOSTER, the undersigned officer, personally appeared H. F. BEARDMORE, who acknowledged himself to be the Vice President of GULF OIL CORPORATION, a corporation, and that he as such Vice President, being authorized to do so, executed the foregoing instrument for the purposes therein contained by signing the name of the Corporation by himself as Vice President.

In witness whereof, I hereunto set my hand and official seal.



**CANCELLED**

DATE 9-23-65

244

7350

RESOLVED, that H. F. Beardmore, Vice-President, acting with the Secretary or any Assistant Secretary, of this Corporation, be and they hereby are authorized to execute for and in behalf of this Corporation Powers of Attorney in the following form:

Gulf Oil Corporation, a corporation, herein called "Principal," duly organized and existing under the laws of the Commonwealth of Pennsylvania, does hereby make, constitute, and appoint \_\_\_\_\_ its true and lawful Attorney in Fact, and he is hereby authorized and directed for and in its name, place, and stead, from time to time, to execute and file in the name and under the seal of the Principal, and for and on its behalf, all instruments authorized or required by the Mineral Leasing Act of 1920 (41 Stat. 437) as amended or supplemented, and the regulations heretofore or hereafter issued pursuant thereto, subject to the following limitations and conditions, to wit:

1. The authority to execute and file all of the instruments referred to above, including offers to lease for oil and gas, either competitively or noncompetitively, shall be for the sole and exclusive benefit of the Principal and not in behalf of any other person in whole or in part.

2. The above-named Attorney in Fact is hereby granted specific authority to execute all statements of interest and of holdings in behalf of the Principal and to execute all other statements required, or which may be required, by the above-mentioned Act and regulations.

3. The Principal agrees to be bound by all representations of the above-named Attorney in Fact which may be made in connection with the execution and filing of any of the instruments authorized by this Power of Attorney, and the Principal hereby waives any and all defenses which may be available to it to contest, negate, or disaffirm the actions of the Attorney in Fact under this Power of Attorney.

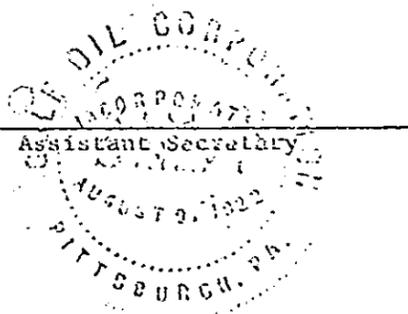
4. The Power of Attorney herein granted shall continue until revoked.

In witness whereof, Gulf Oil Corporation has executed this Power of Attorney by its duly authorized Vice-President, attested by its \_\_\_\_\_ Secretary and with the corporate seal affixed, this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_.

\* \* \* \* \*

I, C. J. SQUYRES, Assistant Secretary of Gulf Oil Corporation, do hereby certify that the above and foregoing is a full, true and correct copy of Resolution adopted by the Board of Directors of said Gulf Oil Corporation, at Meeting duly called and held at Pittsburgh, Pennsylvania, July 25, 1961, as the same appears of record in the Minute Books of said Corporation.

In Witness Whereof, I have hereunto set my hand and affixed the seal of said Gulf Oil Corporation, at Houston, Texas, this 21st day of August, 1961.



Copy of  
**POWER OF ATTORNEY**

Know all Men by these Presents, That the FEDERAL INSURANCE COMPANY, 90 John Street, New York, New York, a New Jersey Corporation, has constituted and appointed, and does hereby constitute and appoint

Geo. H. Amos, Albert W. Gibson, Esther M. Hiseox and Howard H. Tench of Tucson, Arizona

each its true and lawful Attorney-in-Fact to execute - - - - - under such designation in its name and to affix its corporate seal to and deliver for and on its behalf as surety thereon or otherwise, bonds of either of the following classes, to-wit:

1. Bonds on behalf of contractors in connection with bids, proposals or contracts to do with the United States of America, any State or political subdivision thereof or any person, firm or corporation.
2. Surety Bonds to the United States of America or any agency thereof, including those required or permitted under the laws or regulations relating to Customs or Internal Revenue; License and Permit bonds or other indemnity bonds under the laws, ordinances or regulations of any State, City, Town, Village, Board or other body or organization, public or private; bonds to Transportation Companies; Lease bonds; bonds to Sheriffs, Workmen's Compensation bonds, Miscellaneous Surety bonds and bonds on behalf of Notaries Public, Sheriffs, Deputy Sheriffs and similar public officials.
3. Bonds and Undertakings required or permitted by law to be given or filed in any suit, matter or proceeding in any Court of the United States, or any State or other Court, or given to or filed with any Sheriff or Magistrate within any State, for the doing or not doing of anything specified in such Bond or Undertaking, in which the penalty of the bond or liability incurred under such undertaking does not exceed with respect to Fiduciary Bonds the sum of One-hundred Thousand - - - - - Dollars (\$100,000.00), and with respect to all other types of Court Bonds the sum of Fifty Thousand - - - - - Dollars (\$50,000.00).

In Witness Whereof, the said FEDERAL INSURANCE COMPANY has, pursuant to its By-Laws, caused these presents to be signed by its Vice President and Assistant Secretary and its corporate seal to be hereto affixed this 6th day of June 1957

FEDERAL INSURANCE COMPANY  
By



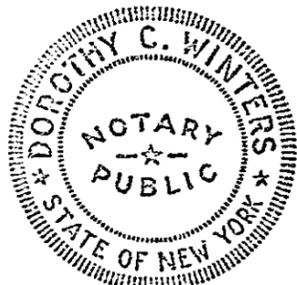
*Thos. R. Dew*  
Thos. R. Dew  
Vice President

*Frederick C. Gardner*  
Frederick C. Gardner  
Assistant Secretary

STATE OF NEW YORK }  
County of New York } ss.:

On this 6th day of June 1957, before me personally came Frederick C. Gardner, to me known and by me known to be Assistant Secretary of the FEDERAL INSURANCE COMPANY, the corporation described in and which executed the foregoing Power of Attorney and the said Frederick C. Gardner being by me duly sworn, did depose and say that he resides in the City of New York, in the State of New York; that he is Assistant Secretary of the FEDERAL INSURANCE COMPANY and knows the corporate seal thereof; that the seal affixed to the foregoing Power of Attorney is such corporate seal and was thereto affixed by authority of the By-Laws of said Company and that he signed said Power of Attorney as Assistant Secretary of said Company by like authority; that he is acquainted with Thos. R. Dew and knows him to be Vice President of said Company, and that the signature of said Thos. R. Dew subscribed to said Power of Attorney is in the genuine handwriting of said Thos. R. Dew and was thereto subscribed by authority of said By-Laws and in deponent's presence.

Acknowledged and Sworn to before me  
on the date above written.



*Dorothy C. Winters*  
Notary Public  
DOROTHY C. WINTERS  
Notary Public State of New York  
No. 31-9709315  
Qualified in New York County  
Commission Expires March 30, 1958

248

January 28, 1966

Federal Insurance Company  
Chubb & Son Inc., Manager  
Oliver Building  
Pittsburgh, Pennsylvania 15222

Re: Gulf Oil - Garnet Ridge #1 Navajo well  
NE/4NE/4 16-41N-24E, Apache County, Arizona  
Our File 248

Federal Insurance Company Bond 8002-80-39

Gentlemen:

Inasmuch as captioned well has been plugged and abandoned and all information has been filed with this Commission in accordance with our Rules and Regulations, this letter constitutes authority from this Commission to terminate captioned bond as of September 23, 1965.

Very truly yours,

John Bannister  
Executive Secretary  
nr

cc: Gulf Oil Corporation  
Gulf Building  
Pittsburgh 30, Pennsylvania

Telephone: COurt 1-4151

# FEDERAL INSURANCE COMPANY

CHUBB & SON INC., Manager



Oliver Building, Pittsburgh, Pennsylvania 15222

January 27, 1966

AIR MAIL

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Mr. John Bannister, Executive Secretary  
Oil and Gas Conservation Commission  
State of Arizona  
Room 202 - 1624 West Adams  
Phoenix, Arizona 85007

Dear Mr. Bannister:

Re: Gulf Oil - Garnet Ridge #1 Navajo Well NE/4NE/4 16-41N-24E,  
Apache County, Arizona - Your File 248  
Our Bond No. 8002-80-39- \$10,000 - Eff. 9/23/63

Gulf Oil Corporation referred your letter of January 7th to them to  
this office for attention.

They advise that they have not been operating in the State of Arizona  
since September 23, 1965, the last premium anniversary of this bond.

In view of the above, we would appreciate your confirmation that our  
bond may be terminated as of September 23, 1965.

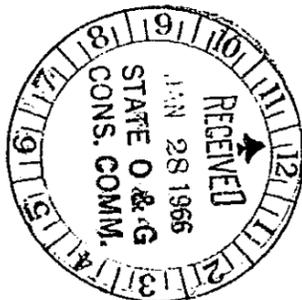
May we hear from you in due course? Thank you.

Very truly yours,

*B. Karnbauer*

(Miss) B. Karnbauer  
Bond Dept.

bk



#248

January 7, 1966

Gulf Oil Corporation  
Gulf Building  
Pittsburgh 30, Pennsylvania

Re: Gulf Oil - Garnet Ridge #1 Navajo well  
NE/4NE/4 16-41N-24E, Apache County, Arizona  
Our File 248

Gentlemen:

Our letter of October 28, 1965 to you requested that you take steps necessary to increase your state-wide bond covering your Arizona operations to conform with the recent change in our Rules and Regulations.

However, in reviewing our records we note that the captioned well is the only well drilled under this bond. This well was plugged and abandoned and all necessary information has been filed with this Commission.

Therefore, if you desire, and so request it by letter, Federal Insurance Company Bond 8002 80 39 may be terminated.

Your earliest cooperation is requested.

Very truly yours,

John Bannister  
Executive Secretary  
mf

October 21, 1965

Gulf Oil Corporation  
Gulf Building  
Pittsburgh 30, Pennsylvania

Re: Federal Insurance Company Bond 8002 80 39

Gentlemen:

As you are aware, the captioned bond in the amount of \$10,000 is on file with this Commission to cover bonding requirements of this Commission.

As a result of the public hearing held September 22, 1965 in Phoenix, Arizona concerning the Rules and Regulations of this Commission, the bonding requirements have been increased to \$5,000 for a single well and to \$25,000 for a state-wide blanket bond.

As required by law, a certified copy of the new Rules and Regulations was filed with the Secretary of State on October 1, 1965, and consequently the new Rules became effective on that date.

This letter is to request that at your earliest convenience you take the necessary steps to increase your statewide bond to \$25,000. Upon receipt of your new bond your old bond of course may be released.

Your earliest cooperation will be appreciated.

Yours very truly,

John Bannister  
Executive Secretary  
mr

XXXXXXXXXX  
XXXXXXXXXX

January 9, 1964

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

Dear Mr. Taylor:

Re: Garnet Ridge Navajo Well No. 1  
Section 16 - T41N - R24E., Apache County

Thanks for yours of January 6th. This will  
acknowledge receipt of your Well Completion forms  
and record of work as well as your log.

Hoping you'll drill more successfully in all your  
other undertakings and that you will begin another  
operation in Arizona, I am,

Sincerely,

John K. Petty  
Acting Executive Secretary

JKP:akc

Encl. - Well Completion Report approved by J.K.P. 1/9/64

# Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

January 6, 1964

P. O. Drawer 1938  
Roswell, New Mexico 88201

W. B. Hopkins  
DISTRICT MANAGER  
M. I. Taylor  
DISTRICT PRODUCTION  
MANAGER  
F. O. Mortlock  
DISTRICT EXPLORATION  
MANAGER  
H. A. Rankin  
DISTRICT SERVICES MANAGER

Oil & Gas Conservation Commission  
of the State of Arizona  
1624 West Adams  
Phoenix 7, Arizona

Gentlemen:

Attached are two copies of the well completion and well log report Form P-7 of the Gulf Garnet Ridge Navajo No. 1, Apache County, Arizona. Also attached are copies of the electrical surveys run on the well.

We have requested the United States Geological Survey office at Farmington to forward to you an approved copy of the report covering completion and plugging operations on the well.

Yours very truly,

*M. I. Taylor*  
M. I. Taylor

Attachments  
JTV:ers



248

September 27, 1963

Mr. H. A. Rankin  
District Service Manager  
Gulf Oil Corporation P  
P. O. Box 1938  
Roswell, New Mexico

Re: Gulf Oil Corporation #1 Garnet Ridge Navajo  
Section 16 - T12N - R24E, Apache County, Arizona

Gentlemen:

Attached find your approved Application for Permit to Drill. Everything is in order as far as our Commission requirements are concerned.

We are very glad you're going to open a new oil field in Arizona and wish you the best of luck on this project.

Please save for this Commission a regular size cloth sample bag of well cuttings at 5 or 10 foot intervals, whichever interval your geologist uses. Since you are in the Four Corners Area drilling this well, I would like for you to leave our samples with the Four Corners Sample Cut, 841 West Broadway, Farmington, New Mexico, when you finish the well or whenever you wish. Some majors take them by the cut from the well a few hundred feet at a time. Others wait until the well is finished and still others will hold them for a while after that. I just wish to have the samples deposited at the cut for distribution, so please label each bag so they can identify it.

Please send us a copy of all your reports to the U.S.G.S. at Farmington. This is not mentioned in our rules, but it is always done by operators drilling on the Reservations and on Federal land.

We thank you for your cooperation and if there's any way we can be of service to you, contact this office.

Attached find appropriate forms for your present well.

Sincerely,

JKP:mkc  
Encl.

John K. Petty  
Acting Executive Secretary

248  
Receipt mailed 10/1/63

# Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. B. Hopkins  
DISTRICT MANAGER  
M. I. Taylor  
DISTRICT PRODUCTION  
MANAGER  
F. O. Mortlock  
DISTRICT EXPLORATION  
MANAGER  
H. A. Rankin  
DISTRICT SERVICES MANAGER

September 25, 1963

P. O. Drawer 1938  
Roswell, New Mexico

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

Re: Gulf Oil Corporation No. 1 Navajo-Garnet Ridge  
NE/4 Section 16-41N-24E, Apache County, Arizona

Gentlemen:

Please furnish this office with a supply of the various forms required by the Oil and Gas Conservation Commission in sufficient quantity to drill and complete the above well in the State of Arizona.

Yours very truly,

*H. A. Rankin*  
313-

H. A. Rankin

BB:dch



248

# Gulf Oil Corporation

ROSWELL PRODUCTION DISTRICT

W. B. Hopkins  
DISTRICT MANAGER  
M. J. Taylor  
DISTRICT PRODUCTION  
MANAGER  
F. O. Mortlock  
DISTRICT EXPLORATION  
MANAGER  
H. A. Rankin  
DISTRICT SERVICES MANAGER

September 20, 1963

P. O. Drawer 1938  
Roswell, New Mexico

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

Re: Gulf Oil Corporation No. 1 Navajo-  
Garnet Ridge, NE/4 NE/4 Section 16-  
41N-24E, Apache County, Arizona

Gentlemen:

Attached hereto please find the following forms, etc., in connection with Gulf's drilling the above subject wildcat:

- (1) Application for Permit to Drill in triplicate.
- (2) Plat of location in triplicate.
- (3) Check in the amount of \$25.00.
- (4) Organization Chart.
- (5) Photostats of U.S.G.S. Notice of Intention to Drill in duplicate.
- (6) Designation of Operator in duplicate.
- (7) Survey of Gulf's lease.

Please advise if any additional information is needed.

Yours very truly,

*H. A. Rankin*  
H. A. Rankin

Attachments  
BB:sz



248

# Gulf Oil Corporation

LAW DEPARTMENT

Booth Keilough  
DIVISIONAL ATTORNEY  
MIDLAND, TEXAS  
ATTORNEY, ROSWELL  
William V. Kastler

P. O. Box 1938  
Roswell, New Mexico

September 20, 1963

Oil and Gas Conservation Commission  
of the State of Arizona  
1624 West Adams  
Phoenix 7, Arizona

Attention: Mr. John K. Petty  
Acting Executive Secretary

Re: Blanket Drilling Bond

Gentlemen:

In furtherance of our proposed well in Section 16, T-41-N, R-24-E, Apache County, Arizona, I am transmitting through our surety's agency the original executed copy of our \$10,000 Blanket Drilling Bond. Since both the principal and the surety have executed by attorneys-in-fact you will find powers of attorney to support each party's execution.

Under separate cover we are in the process of transmitting to you our Application for Permit to Drill together with the \$25.00 filing fee, a plat of the proposed location and our Organization Report. We are most anxious to get started with the well in order to complete it if possible before any severe cold weather sets in.

Very truly yours,

*William V. Kastler*  
William V. Kastler

WVK:ejj

