

CONFIDENTIAL
Release Date 5-3-68

P-W

Gulf #1 Navajo-Agua Sal 437
NE SE 4-7N-8W NSM Apache County

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**

Federal, State or Indian Lease Number or name of lessor if fee lease: **Navajo-Agua Sal 14-20-0603-661** Well Number: **1** Field & Reservoir: **Wildcat**

Location: **2050' FSL & 600' FEL** County: **Apache**

Sec. TWP-Range or Block & Survey: **Section 4, 7-N, 8-W, N. S. M.** PLEASE CONSIDER THIS INFORMATION CONFIDENTIAL

Date spudded: **10-15-67** Date total depth reached: **11-2-67** Date completed, ready to produce: **P & A** Elevation (DE, RKB, RT, or Gr.): **6552' GL** Elevation of casing hd. range: **---** feet

Total depth: **2656'** P.B.T.D.: **---** Single, dual or triple completion?: **P & A** If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (a) for this completion: **None** Rotary tools used (interval): **0 - 2656'** 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 Induction, GR-Sonic & Density** Date filed: **11-3-67**

CASING RECORD

Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12-1/4"	9-5/8"	36#	265'	300 sacks (Circulated)	

TUBING RECORD

LINER RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft.)
None	in.	ft.	None	in.	ft.	ft.	

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval
None			None	

INITIAL PRODUCTION

Date of first production: **F & A** 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)

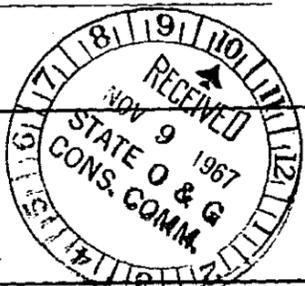
Tubing pressure: **---** Casing pressure: **---** Cal'd rate of Production per 24 hrs.: **---** Oil: **---** bbls. Gas: **---** MCF Water: **---** bbls. Gas-oil ratio: **---**

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.

Date: **November 6, 1967** Signature: *M. I. Taylor*

M. I. TAYLOR, District Production Manager



Permit No. **437** STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Well Completion or Recompletion Report and Well Log Form No. 4 File One Copy

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
COCONINO	140	927	Sandstone, porous, containing fresh water.
ORGAN ROCK	927	1,728	Siltstone, shale and limestone, mostly redbeds, nonporous.
HERMOSA	1,728	2,026	Limestone, shale and sandstone, thin porous, sandstone @ 1,750', and conglomerate @ 2,002'. No shows of oil or gas.
MISSISSIPPIAN	2,026	2,150	Limestone, slightly porous, no shows of oil or gas.
OURAY	2,150	2,220	Limestone.
ELBERT	2,220	2,400	Dolomite and shale, cored 2,261-2,317, porous zones @ 2,269-71, 78-79, 81-84, 85-86, 95-97, 99-2,301'. No shows of oil or gas. Porous zones above and below core had no shows of oil or gas.
MCCRACKEN	2,400	2,505	Sandstone and dolomite. Sandstone porous with no shows of oil or gas.
ANETH	2,505	2,605	Dolomite, porous, no shows of oil or gas.
CAMBRIAN (?)	2,605	2,656	Conglomerate, no shows of oil or gas.
T.D.	2,656		

* 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.

CONFIDENTIAL

Gulf Oil Navajo Agua Sal
Sec. 4-7N-8W
Apache County, Arizona

Core #1 - (2261 -2317'). Cored 56', rec 56' dolomite & shale, some porosity, no show. Reamed core hole in 3½ hrs. Str drlg new hole 9:30 P 31st. Lost 50 bbls mud (50% Circ) at 2360'. Mixed LCM & regained full circ. No show samples, no gas kick.

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437

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*

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

b. TYPE OF COMPLETION: NEW WELL [] WORK OVER [] DEEP-EN [] PLUG BACK [] DHP. RESVR. [] Other Plugged & Abandoned

2. NAME OF OPERATOR Gulf Oil Corporation

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 2050' FSL & 600' FEL, Section 4, 7-N, 8-W, N. S. M.

At top prod. interval reported below At total depth PLEASE CONSIDER THIS INFORMATION CONFIDENTIAL

5. LEASE DESIGNATION AND SERIAL NO. 11-20-0603-661

6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME Navajo-Agua Sal

9. WELL NO. 1

10. FIELD AND POOL, OR WILDCAT Wildcat

11. SEC. T., R., M., OR BLOCK AND SURVEY OF AREA Sec 4, 7-N, 8-W, N. S. M.

12. COUNTY OR PARISH Apache

13. STATE Arizona

14. PERMIT NO. DATE ISSUED

15. DATE SPUDDED 10-15-67 16. DATE T.D. REACHED 11-2-67 17. DATE COMPL. (Ready to prod.) P & A 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 6552' GL 19. ELEV. CASINGHEAD ---

20. TOTAL DEPTH, MD & TVD 2656' 21. PLUG BACK T.D., MD & TVD --- 22. IF MULTIPLE COMPL., HOW MANY* --- 23. INTERVALS DRILLED BY 0 - 2656' ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Did not produce 25. WAS DIRECTIONAL SURVEY MADE No

26. TYPE ELECTRIC AND OTHER LOGS RUN ES Induction, GR-Sonic & Density 27. WAS WELL CORED Yes

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: 9-5/8", 36#, 265', 12-1/4", 300 sacks (Circulated)

29. LINER RECORD Table with columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT*, SCREEN (MD). 30. TUBING RECORD Table with columns: SIZE, DEPTH SET (MD), PACKER SET (MD). All entries are None.

31. PERFORATION RECORD (Interval, size and number) None 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Table with columns: DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED. All entries are None.

33. PRODUCTION DATE FIRST PRODUCTION P & A PRODUCTION METHOD (Flooding, gas lift, pumping—size and type of pump) P & A

Table with columns: DATE OF TEST, HOURS TESTED, CHOKER SIZE, PROD'N. FOR TEST PERIOD, OIL—BBL., GAS—MCF., WATER—BBL., G-S-OIL RATIO, FLOW. TUBING PRESS., CASING PRESSURE, CALCULATED 24-HOUR RATE, OIL—BBL., GAS—MCF., WATER—BBL., VISCOSITY-API (CORR.).

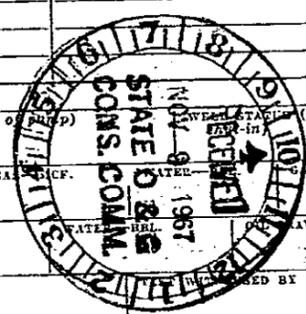
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

35. LIST OF ATTACHMENTS

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

Original signed by M. I. Taylor TITLE District Production Manager DATE November 6, 1967

*(See Instructions and Spaces for Additional Data on Reverse Side)



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 28, below regarding separate reports for separate completions. (Drillers, geologists, sample and core analysts, 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 listed on this form, see Item 33.

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 24, and in Item 24 show the producing interval, or intervals, top(s) and 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 28: "Sacks 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.)

37. SUMMARY OF POROSE ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILLER'S TESTS, INCLUDING DEPTH INTERVAL, GASTON, CEMENTION USED, TIDE TOOL, OPEN, PLACING, AND INTERVAL		38. GEOLOGIC MARKERS			
ELEVATION	TOP	DESCRIPTION, CONTINUED, ETC.	NAME	MEAN DEPTH	INTERVAL DEPTH
COCONINO	140	Sandstone, fresh water.	COCONINO	140	
ELBERT	2,220	Dolomite, water, cored 2,261-2,317.	ORBAN ROCK	927	
MCCRACKEN	2,400	Sandstone, water.	HERNOSA	1,728	
ANETH	2,505	Dolomite, water.	MISSISSIPPIAN	2,025	
		No DST's.	MURRAY	2,150	
			ELBERT	2,220	
			MCCRACKEN	2,400	
			ANETH	2,505	
			CAMBRIAN	2,605	

LOGICAL SURVEY

14-20-0605-061

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 Stratigraphic Test

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Navajo-Agua Sal

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

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

2050' FSL & 600' FEL, Section 4, 7-N, 8-W, N. S. M.

PLEASE CONSIDER THIS INFORMATION CONFIDENTIAL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, CR, etc.)
6552' GL

12. COUNTY OR PARISH
Apache

13. STATE
Arizona

16. 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"/>	FULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SEGOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(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.)*

2656' TD.

Plugged and abandoned as follows:

Spotted 100 sack cement plug No. 1 from 2656' to 2025'; 17 sack cement plug No. 2 from 950' to 850'; 33 sack cement plug No. 3 from 320' to 264' and 10 sack plug No. 4 at surface. Installed dry hole marker. Plugged and abandoned November 4, 1967.

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

ORIGINAL SIGNED BY
SIGNED C. D. BORLAND TITLE Area Production Manager DATE November 6, 1967

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



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Form 5-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-661

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Navajo-Agua Sal

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., E., N., OR BLE. AND
SURVEY OR AREA

Sec 4, 7-N, 8-W, N. S. M.

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 Stratigraphic Test

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
2050' FSL & 600' FEL, Section 4, 7-N, 8-W, N. S. M.

PLEASE CONSIDER THIS INFORMATION CONFIDENTIAL

14. PERMIT NO.

15. ELEVATIONS (Show whether SP, RT, OR, etc.)

6552' GL

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)

FULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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 perti-
nent to this work.)*

2656' TD.

Drilled 8-3/4" hole to TD at 2656'. Ran logs. Obtained verbal permission from
Mr. John Ward with U. S. G. S. in Farmington, New Mexico, and from Mr. Jim Scurlock with
the Arizona Oil & Gas Conservation Commission, in Phoenix, Arizona to plug and abandon as
follows:

Spot 100 sack cement plug No. 1 from 2656' to 2025'; 17 sack cement plug No. 2 from 950'
to 850'; 33 sack cement plug No. 3 from 320' to 264' and 10 sack cement plug No. 4 to surface.
Install dry hole marker.



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

SIGNED C. D. BORLAND

TITLE Area Production Manager

DATE April 6, 1967

(This space for Federal or State office use)

APPROVED BY
CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

*See Instructions on Reverse Side

Telephone: RAD CAGLE (DRILLING Supt.) 11-3-67
Gave verbal permission to plug JS

GULF - AQUA SAL

TOPS

Set 9 5/8 at 267

Top Oregon Rock 925
Top Miss 2025
TOTAL DEPTH 2652

PLUGS

2025 - 2652

925 - 1025

267 - 367

20' plug at surface w/ MARKER pipe

No DST

One core (Miss) 2261-2317

Will skid to #1 Navajo 4 (Sec. 4) probably spud tomorrow.

437

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10-31-67

Mr. Allen, Gulf Oil telephoned

Re: Gulf #1 Navajo Agua Sal
Permit 437

Cored from 2261-2319. Dolomite shale. no shows.
Now drilling ahead.

Re: Gulf #1-11 Navajo
Permit 439

Spud 11-26-67.

Will DST tomorrow, 11-1-67 and will advise results asap.

Top of DST 1190 to ~~2212~~ 1322. Samples: very fine grain silt sand.
Have had a minor gas show on hydrocarbon detector; no encouragement.

Have set surface casing: ~~252~~ 9-5/8" to 267'. Drilling with mud;
therefore can't tell if any water encountered on way down. However,
having some lost circulation so will probably set more pipe.

Gulf #1 Navajo 4 and Gulf #1 Navajo 22 locations have been staked,
roads made. Rig from #1 Agua Sal will move to #1-4 Navajo and
rig from #1-11 Navajo will move to #1-22 Navajo.

He advised all Gulf operations highly confidential; at time we
talked I thought we had so classified. Now find they are not so
classified by us.

WELL SITE CHECK

Contractor CARMACK RIG #10 Person(s) Contacted JACK AHLEN
 Spud date 10-15-67 Date 10-19-67
 Type Rig Rotary Cable
 Samples Cut smpls. will be sent to
Committee Present Operations STUCK DRILL PIPE
 Pipe Set 9 5/8 @ 265' PRESENT DEPTH: 497'
 Water Zones _____ Drilling with Air _____ Mud
 Lost Circ. Zones _____ Size Hole 8 3/4
 Formation Tops De Chelly 125' Size Drill Pipe 3 1/2
 Cores, Logs, DST _____ Type Bit _____
FLYING FROM CORTEZ - No. Bit _____ Drilling Rate 1-1/2" per ft.
CREWS 12 HR. TOWERS Formation DE CHELLE
 Lithology SANDSTONE

REMARKS, PHOTO, MAP

(DIRECTIONS: EAST FROM GREASE WOOD.)

DE CHELLE Top - 125' (APPROX.) - LOST CIRC. @ TOP OF DE CHELLE.

(GULF PLANS 3 MORE SUCH WILDCATS IN THIS SAME AREA. MAY BRING IN ANOTHER RIG.)



16
 WELL NAME GULF #1 NAVAJO AGUA SAL

Permit No. 437
 Confidential: Yes No

DRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Gulf Oil Corporation, P. O. Box 1938, Roswell, New Mexico 88201
 2. OIL WELL GAS WELL OTHER (Specify) Stratigraphic Test
 3. Well Name Navajo-Agua Sal Well No. 1
 Location 2050' FSL 600' FEL Section 4, T-7-N, R-8-W, N.S.M.
 Sec 4 Twp 7N Rge 8W County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease 14-20-0603-661

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) <input type="checkbox"/>	ABANDONMENT <input type="checkbox"/>
(OTHER) <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.)
 Carmack Drilling Company spudded 12 1/4" hole at 4:00 a.m., 10-15-67. Drilled to 275'. Ran 8 jts, 251', 9-5/8" OD 36# J-55 ST&C Class A Csg. Shoe at 265'. Insert float valve at 233'. Cemented with 200 sx Cl. A cement with 2% CaCl2. Bumped plug with 500 psi. Complete 8:30 p.m., 10-16-67. Did not circulate. WOC 1 1/2 hrs. Pumped in annulus w/25 sx Cl. A cmt w/8% CaCl2. WOC 3/4 hrs. Pumped in annulus again w/25 sx Cl. A cmt w/8% CaCl2. WOC 1-3/4 hrs then pumped 35 sx Cl. A cmt w/4% CaCl2 in annulus & cement circulated. Compl 1:30 a.m., 10-17-67. Used total 285 sx cmt. WOC 5 1/2 hrs 7:00 a.m., 10-17-67. Cement settled 20' in annulus. Cemented to surface with 15 sx Cl. A cement w/2% CaCl2. WOC 8 hrs. Released tension on 9-5/8" csg at 11:00 a.m., 10-17-67. NU. WOC total 29 hrs from first cement stage. Tested blind rams, casing and connections with 1300 psi for 30 minutes, OK. Drilled cement, float and shoe. Started drilling 8-3/4" hole at 275' at 8:30 a.m., 10-18-67.

PLEASE CONSIDER THIS INFORMATION CONFIDENTIAL



8. I hereby certify that the foregoing is true and correct.
 Signed L. A. Turner Title Area Petroleum Engr. Date 10-18-67

Permit No. 12 437

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

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 **Stratigraphic Test**
 SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
Gulf Oil Corporation

3. ADDRESS OF OPERATOR
Post Office Box 1936, Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
2,050' FHL, 600' FHL Section 4, T-7-N, R-8-W, N.S.M.
 At proposed prod. zone within 600' of surface location

5. LEASE DESIGNATION AND SERIAL NO.
14-20-0603-661

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Hgrajo-Agua Sal

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 4, T-7-N, R-8-W, N.S.M.

12. COUNTY OR PARISH 13. STATE
Apache Arizona

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
46 miles NNW of Fort Defiance, Arizona

16. NO. OF ACRES IN LEASE
640.00

17. NO. OF ACRES ASSIGNED TO THIS WELL
80

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT. 19. PROPOSED DEPTH
First Well 2,700'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
will report later

22. APPROX. DATE WORK WILL START*
October 13, 1967

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"	36#	230'	Circulate

Program:

- (1) Drill 12-1/4" hole to 30 feet of penetration in BeChally formation.
- (2) Run 9-5/8" casing to bottom, circulate cement.
- (3) Huddle up and test casing and B.O.P.'s.
- (4) Drill out and drill ahead with water - 8-3/4" or 7-7/8" hole.
- (5) Mud up above Mississippian formation with 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. Taylor* TITLE **District Production Manager** DATE **October 12, 1967**

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

437
APPROVED
OCT 13 1967
John L. Ward

*See Instructions On Reverse Side

RECEIVED
OCT 13 1967
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

RECEIVED
OCT 13 1967
STATE OF NEW MEXICO
COMMISSIONER OF LANDS & MINES

Gulf Oil Corporation

EXPLORATION AND PRODUCTION DEPARTMENT—U. S. OPERATIONS
ROSWELL DISTRICT

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

November 10, 1967

P. O. Drawer 1938
Roswell, New Mexico 88201

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

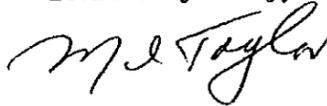
Re: Navajo-Agua Sal No. 1
Apache County, Arizona

Gentlemen:

On our Application for Permit to Drill the subject well, we stated that the elevation would be reported later.

Please be advised that the ground elevation of this well is 6,552 feet.

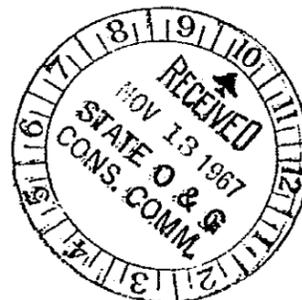
Yours very truly,



M. I. Taylor

JEN:ers

437



APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

Gulf Oil Corporation
NAME OF COMPANY OR OPERATOR

Post Office Box 1938 Roswell New Mexico 88201
Address City State

Carmack Drilling Company
Drilling Contractor
1129 Colorado Avenue, Suite 314, Grand Junction, Colorado 81501
Address

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor 14-20-0603-661	Well number and Name Navajo-Agua Sal No. 1	Elevation (ground) 2152 Will report later
---	--	--

Nearest distance from proposed location to property or lease line: 600 feet	Distance from proposed location to nearest drilling, completed or applied--for well on the same lease: First Well feet
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Number of acres in lease: 640.00	Number of wells on lease, including this well, completed in or drilling to this reservoir: One
--	--

If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address
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Well location (give footage from section lines) 2,050' FSL, 600' FEL	Section--township--range or block and survey Sec. 4, T-7-N, R-8-W, N.S.M.	Dedication (Comply with Sec 105) 80 acres <i>A/2 SE/4</i>
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Field and reservoir (if wildcat, so state) Wildcat	County Apache
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Distance, in miles, and direction from nearest town or post office
46 miles NNW of Fort Defiance, Arizona

Proposed depth: 2,700'	Rotary or cable tools Rotary	Approx. date work will start October 13, 1967
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Bond Status Blanket	Organization Report On file <input checked="" type="checkbox"/> Or attached	Filing Fee of \$25.00 Attached <input checked="" type="checkbox"/>
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Remarks:

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.

M. J. Taylor
Signature

October 13, 1967
Date

Permit Number: **437**
Approval Date: **10-16-67**
Approved By: *John W. Bannister*

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Drill or Re-enter
File Two Copies
Form No. 3



OK

13

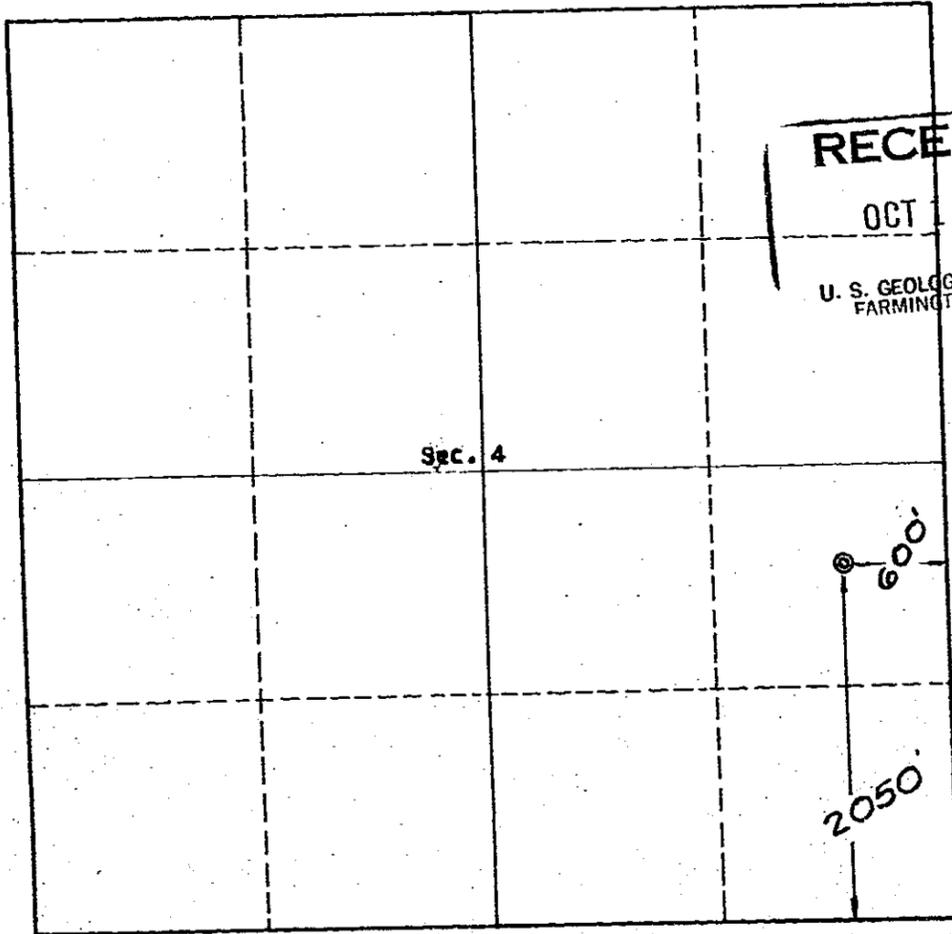
- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.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

Owner	Land Description
Section 4, T-7-N, R-8-W, N.S.M.	
<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Dedication: N/2 SE/4 for oil well Entire Section for gas well</p> </div>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p>Name <u>M. J. Taylor</u></p> <p>Position <u>District Production Manager</u></p> <p>Company <u>Gulf Oil Corporation</u></p> <p>Date <u>October 13, 1967</u></p> <p>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.</p> <p>Date Surveyed _____</p> <p>Registered Professional Engineer and/or Land Surveyor _____</p> <p>Certificate No. _____</p> </div>

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
9-5/8"	36#	J-55 ST&C	0'	230'	230'	Circulate

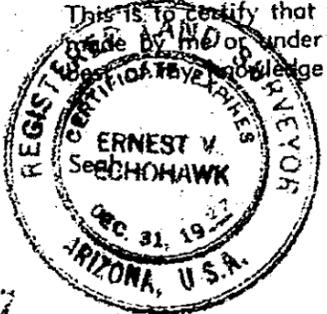
Company Gulf Oil Corporation
 Well Name & No. Navajo Agua Sal, #1 Gulf
 Location 2050 feet from the South line and 600 feet from the East.
 Sec. 4, T. 7 N., R. 8 W., Navajo Special Meridian, Apache County, Arizona.
 Ground Elevation _____



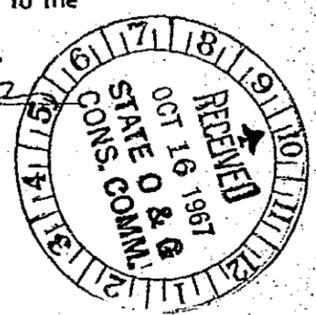
RECEIVED
 OCT 3 1967
 U. S. GEOLOGICAL SURVEY
 FARMINGTON, N. M.

Surveyed October 3, 1967

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.



E. V. Echohawk
 Ernest V. Echohawk
 Registered Land Surveyor
 Arizona Reg. No. 2311





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 AGUA SAL
(WELL NAME)

located 2050' FSL and 600' FEL (NE/4SE/4)

Section 4 Township 7N Range 8W NSM Apache County, Arizona.

The N/2 SE/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 16th day of October, 19 67.

OIL AND GAS CONSERVATION COMMISSION

By John Bonnester
EXECUTIVE SECRETARY

PERMIT **Nº 437**

RECEIPT NO. **9525**

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill

FORM NO. 27

API No. 02-001-20060

OFFICE OF
Oil and Gas Conservation Commission
STATE OF ARIZONA
ROOM 202
1824 WEST ADAMS
Phoenix, Arizona 85007
PHONE: 271-5161

January 11, 1968

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

Attention: Mr. M.I. Taylor, District Production Manager

Gentlemen:

As you are aware, you, as operator, must keep this Commission currently informed as to the progress of any oil or gas well operation anywhere in the State of Arizona and file such data as required or called for by the Commission. For your guidance, a copy of "Forms--when to file" was attached to your permit to drill. For your convenience, a marked copy is enclosed again.

According to our records, the data indicated below has not been submitted. You are requested to submit this data at once in order to bring this operation into compliance with our Rules and Regulations.

<u>Well</u>	<u>Progress Report</u>	<u>Completion Report</u>	<u>Logs</u>	<u>Samples</u>	<u>Other</u>
Gulf Oil:					
#1 Navajo-Defiance				X	
#1 Navajo Agua Sal			X	X	Core Analysis
#1 Navajo 4			X	X	DST report
#1 Navajo 11			X	X	
#1 Navajo 22			X	X	

437

Very truly yours,

John Bannister
Executive Secretary
mr
enc

Gulf Oil Corporation

EXPLORATION AND PRODUCTION DEPARTMENT—U. S. OPERATIONS
ROSWELL DISTRICT

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

November 8, 1967

P. O. Drawer 1938
Roswell, New Mexico 88201

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

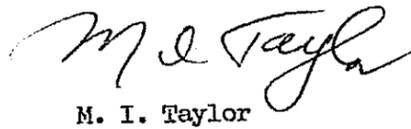
Re: Well Completion Reports
Navajo-Agua Sal No. 1
Apache County, Arizona

Gentlemen:

Attached are State Form No. 4 and copies of U.S.G.S.
Form 9-330, Well Completion Reports, covering the subject well.

It is requested that the information remain confidential
during the entire statutory period.

Yours very truly,



M. I. Taylor

Attachments
JEN:ers



Gulf Oil Corporation

EXPLORATION AND PRODUCTION DEPARTMENT—U. S. OPERATIONS
ROSWELL DISTRICT

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

October 13, 1967

P. O. Drawer 1938
Roswell, New Mexico 88201

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

Re: Application for Permit to Drill
Navajo-Agua Sal No. 1
Apache County, Arizona

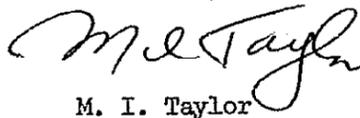
Gentlemen:

With reference to the above subject, we are enclosing for your consideration and approval the following:

- (1) Two copies of Application for Permit to Drill.
- (2) Two copies of Survey Plat.
- (3) Security National Bank of Roswell Cashier's Check No. 80416 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
JEN:dch



437

