

**GTLT - \_\_\_\_\_6\_\_\_\_\_**

**32-3S-1W  
Gulf Oil Corporation  
(Socorro County)**

**S-TG-2(PA) & S-TG-3(PA)**

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## NEW MEXICO OIL CONSERVATION COMMISSION

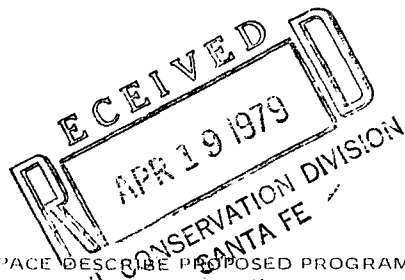
P. O. Box 2088, Santa Fe 87501

APPLICATION FOR PERMIT TO DRILL, DEEPEN,  
OR PLUG BACK---GEOTHERMAL RESOURCES WELL5. Indicate Type of Lease  
STATE ☐ FEE ☐5.a State Lease No.  
N/A7. Unit Agreement Name  
N/A8. Farm or Lease Name  
Armijo9. Well No.  
S-TG-210. ~~XXXXXXXXXX~~ Wildcat  
Socorro12. County  
Socorroa. Type of Work Drill ☒ Deepen ☐ Plug Back ☐  
b. Type of Well Geothermal Producer ☐ Temp Observation ☒  
Low-Temp Thermal ☐ Injection/Disposal ☐c. Name of Operator  
Gulf Oil CorporationAddress of Operator  
1720 South Bellaire Street, Denver, Colorado 80222d. Location of Well UNIT LETTER N LOCATED 100 FEET FROM THE S LINEND 2,350 FEET FROM THE W LINE OF SEC. 32 TWP. 3S RGE. 1W NMPMe. Elevations (Show whether DF, RT, etc.)  
5,340' GL21A. Kind & Status Plug. Bond  
8078 70 4019. Proposed Depth  
500'19A. Formation  
Popatosa20. Rotary or C.T.  
Rotary21B. Drilling Contractor  
Not yet known.22. Approx. Date Work will start  
Apr. 18, 1979

## PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
6"	1½" PVC	½#/ft.	500'	N/A	-1'

1. Drill through colluvium. Set surface casing if needed.
2. Drill 6" hole with mud or air to 500'.
3. Hang 500' of 1½" ID PVC pipe in hole. Pipe to be bull-plugged on bottom and filled with clear water.
4. Hole will set undisturbed for +1 month, then will be temperature-logged.
5. Following logging, hole will be abandoned by digging out around top to depth of 5', casing will be cut off and capped with cement slurry. Hole then will be back-filled with dirt and the location restored to pre-well conditions.

APPROVAL VALID FOR 90 DAYS  
PERMIT EXPIRES 7/22/79  
UNLESS DRILLING UNDERWAY

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. Give blowout prevention program, if any.

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

Signed Glen E. Campbell Title Geothermal SupervisorDate APR 17 1979

(This space for State Use)

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGISTDATE 4/23/79

CONDITIONS OF APPROVAL, IF ANY:

NO. OF COPIES RECEIVED		
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U. S. G. S.	/	
Operator	/	
Land Office		

NEW MEXICO OIL CONSERVATION COMMISSION  
P. O. Box 2088, Santa Fe 87501SUNDRY NOTICES AND REPORTS  
ON  
GEOTHERMAL RESOURCES WELLS5. Indicate Type of Lease  
State ☐ Fee ☒5.a State Lease No.  
Not Applicable

Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Different Reservoir. Use "Application For Permit -" (Form G-101) for Such Proposals.)

1. Type of well	Geothermal Producer <input type="checkbox"/>	Temp. Observation <input checked="" type="checkbox"/>
	Low-Temp Thermal <input type="checkbox"/>	Injection/Disposal <input type="checkbox"/>
2. Name of Operator	Gulf Oil Corporation	
3. Address of Operator	1720 South Bellaire Street, Denver, CO 80222	
4. Location of Well	Unit Letter <u>N</u> <u>200</u> Feet From The <u>south</u> Line and <u>2650</u> Feet From The <u>west</u> Line, Section <u>32</u> Township <u>3</u> South Range <u>1</u> West NMPM.	

7. Unit Agreement Name  
Not Applicable8. Farm or Lease Name  
Armijo9. Well No.  
210. Field and Pool, or Wildcat  
Wildcat

15. Elevation (Show whether DF, RT, GR, etc.)

5,340 GL

12. County  
Socorro

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

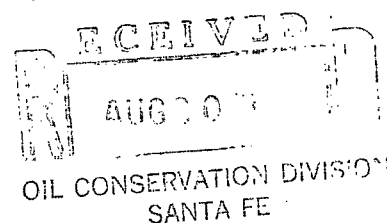
## NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐  
TEMPORARILY ABANDON ☐  
PULL OR ALTER CASING ☐ CHANGE PLANS ☐OTHER ☐

## SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
COMMENCE DRILLING OPNS. ☐ PLUG & ABANDONMENT ☐  
CASING TEST AND CEMENT JOB ☐OTHER ☒Well turned over to land owner for  
conversion to a water well.

17. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 203.

This well to be turned over to the Land Owner, E. B.  
Armijo, in its present condition for him to convert  
to use as a water well.

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

SIGNED G. E. Campbell TITLE Geothermal Supervisor DATE 8-16-79APPROVED BY Carl Nevo TITLE SENIOR PETROLEUM GEOLOGIST DATE 10-26-79

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

AFFIDAVIT OF RESPONSIBILITY  
CONVERSION TO WATER-WELL

STATE OF COLORADO )  
County of Denver ) ss.

G. E. Campbell, being first duly sworn according to law, upon his oath deposes and says:

1. That he is geothermal supervisor of Gulf Oil Corporation  
(Title) (Operator)  
whose address is 1720 South Bellaire Street, Denver, Colorado 80222.

2. That Gulf Oil Corp. is the operator of a well drilled on land be-  
(Operator)  
longing to E. B. Armijo, whose address is 300 6th S.E.,  
(Landowner)  
Socorro, New Mexico, said well/ ~~being~~ <sup>having been</sup> drilled to test for <sup>temperatures and</sup> hydrocarbons and/or  
carbon dioxide gas and described as the Armijo No. 2, being located 200  
feet from the south line and 2650 feet from the west line of Section 32,  
Township 3 South, Range 1 West, NMPM, Socorro  
County, New Mexico.

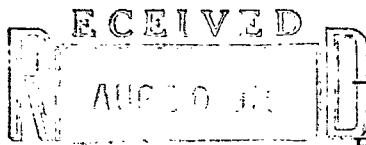
3. That said well was drilled to a total depth of 500 feet, and that cas-  
ing has been set and cemented as follows:

None

4. That operator and landowner have made an agreement whereby operator  
(~~is~~) (is not) to back fill pits, level location, and clear it of all junk. The agreement  
further provides that operator is to ~~plug said well back to a plugged back total depth of~~  
~~xxxxxxxxxxxx feet and~~ transfer well to landowner for his use as a water-well. Operator will  
leave casing in the well as follows:

No casing in the hole

5. That when operator has complied with the provisions of Paragraph 4 above  
it will so notify the Oil Conservation Commission of the State of New Mexico on Com-  
mission Form C-103, together with a signed statement from the landowner that the  
provisions of Paragraph 4 above have been complied with to his satisfaction.



Gulf Oil Corporation  
(Operator)

By Glen E. Campbell

Subscribed and sworn to before me this 16th day of August, A. D. 19 79.

OIL CONSERVATION DIVISION  
SANTA FE

R. C. Brittain  
Notary Public in and for the County of Denver

My Commission expires September 5, 1982

STATE OF New Mexico )  
County of Socorro ) ss.

E. B. Armijo, being first duly sworn according to law, upon  
his oath deposes and says that when the provisions of Paragraphs 4 and 5 above have been  
complied with, he will accept the above-described well for his use as a water-well, and  
that he will assume all responsibility for the well, the location, and the conversion of the  
well to a water-well.

E. B. Armijo  
(Landowner)

Subscribed and sworn to before me this 8th day of August, A. D. 19 79.

Charlie B. Parker  
Notary Public in and for the County of Socorro

NEW MEXICO OIL CONSERVATION COMMISSION  
SANTA FE, NEW MEXICO

AFFIDAVIT OF RESPONSIBILITY  
CONVERSION TO WATER-WELL

STATE OF COLORADO )  
County of Denver ) ss.

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longing to E. B. Armijo, whose address is 300 6th S.E.,  
(Landowner)  
Socorro, New Mexico, said well ~~being~~ <sup>having been</sup> drilled to test for temperatures and  
carbon dioxide gas and described as the Armijo No. 2, being located 200  
feet from the south line and 2650 feet from the west line of Section 32,  
Township 3 South, Range 1 West, NMPM, Socorro  
County, New Mexico.
3. That said well was drilled to a total depth of 500 feet, and that cas-  
ing has been set and cemented as follows:

None

4. That operator and landowner have made an agreement whereby operator  
(is) (is not) to back fill pits, level location, and clear it of all junk. The agreement  
further provides that operator is to ~~plug said well back to a plugged-back total depth of~~  
~~xxxxxxxxxx feet and~~ transfer well to landowner for his use as a water-well. Operator will  
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No casing in the hole

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it will so notify the Oil Conservation Commission of the State of New Mexico on Com-  
mission Form C-103, together with a signed statement from the landowner that the  
provisions of Paragraph 4 above have been complied with to his satisfaction.

RECEIVED Gulf Oil Corporation  
AUG 16 1979 (Operator)  
By Glen E. Campbell  
Subscribed and sworn to before me this 16th day of August, A. D. 19 79.  
OIL CONSERVATION DIVISION  
SANTA FE  
R. C. Brittain  
Notary Public in and for the County of Denver  
My Commission expires September 5, 1982

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County of Socorro ) ss.

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that he will assume all responsibility for the well, the location, and the conversion of the  
well to a water-well.

E. B. Armijo  
(Landowner)  
Subscribed and sworn to before me this 16th day of August, A. D. 19 79.  
Charles B. Pugh  
Notary Public in and for the County of Socorro

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U.S.G.S.	1
Operator	1
and Office	1
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## NEW MEXICO OIL CONSERVATION COMMISSION

P. O. Box 2088, Santa Fe 87501

APPLICATION FOR PERMIT TO DRILL, DEEPEN,  
OR PLUG BACK--GEOTHERMAL RESOURCES WELL

5. Indicate Type of Lease

STATE ☐FEE ☐

5.a State Lease No.

N/A

7. Unit Agreement Name

N/A

8. Farm or Lease Name

Armijo

9. Well No.

S-TG-3

10. ~~XXXXXXXXXX~~ Wildcat

Socorro

12. County  
Socorro

a. Type of Work Drill ☒ Deepen ☐ Plug Back ☐

b. Type of Well Geothermal Producer ☐ Temp Observation ☒  
Low-Temp Thermal ☐ Injection/Disposal ☐

c. Name of Operator  
Gulf Oil Corporation

d. Address of Operator  
1720 South Bellaire Street, Denver, Colorado 80222

e. Location of Well UNIT LETTER M LOCATED 1,150' FEET FROM THE S LINE  
AND 1,200' FEET FROM THE W LINE OF SEC. 32 TWP. 3S RGE. 1W NMPM

19. Proposed Depth

500'

19A. Formation

Popatosa

20. Rotary or C.T.

Rotary

21. Elevations (Show whether DF, RT, etc.)

5,380' GL

21A. Kind &amp; Status Plug. Bond

8078 70 40

21B. Drilling Contractor

Not yet known.

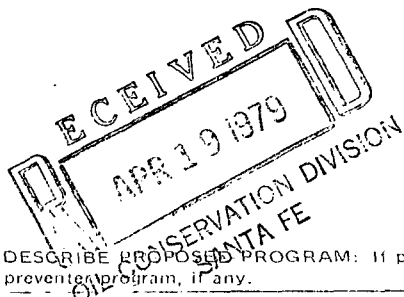
22. Approx. Date Work will start

Apr. 18, 1979

## PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
6"	1½" PVC	½#/ft.	500'	N/A	-1'

1. Drill through colluvium. Set surface casing if needed.
2. Drill 6" hole with mud or air to 500'.
3. Hang 500' of 1½" ID PVC pipe in hole. Pipe to be bull-plugged on bottom and filled with clear water.
4. Hole will set undisturbed for +1 month, then will be temperature-logged.
5. Following logging, hole will be abandoned by digging out around top to depth of 5', casing will be cut off and capped with cement slurry. Hole then will be back-filled with dirt and the location restored to pre-well conditions.

APPROVAL VALID FOR 90 DAYS  
PERMIT EXPIRES 7/22/79  
UNLESS DRILLING UNDERWAY

ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. Give blowout prevention program, if any.

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

By Alan E. Campbell Title Geothermal Supervisor

Date

APR 17 1979

(This space for State Use)

APPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST

DATE

4/23/79

CONDITIONS OF APPROVAL, IF ANY:

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NEW MEXICO OIL CONSERVATION COMMISSION  
P. O. Box 2088, Santa Fe 87501SUNDRY NOTICES AND REPORTS  
ON  
GEOTHERMAL RESOURCES WELLS

5. Indicate Type of Lease
State <input type="checkbox"/> Fee <input checked="" type="checkbox"/>
5.a State Lease No.
N/A

Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Different Reservoir. Use "Application For Permit --" (Form G-101) for Such Proposals.)

1. Type of well	Geothermal Producer <input type="checkbox"/>	Temp. Observation <input checked="" type="checkbox"/>	7. Unit Agreement Name
	Low-Temp Thermal <input type="checkbox"/>	Injection/Disposal <input type="checkbox"/>	
2. Name of Operator	Gulf Oil Corporation		8. Farm or Lease Name
			Armijo
3. Address of Operator	1720 So. Bellaire St., Denver, Colo. 80222		9. Well No.
			3
4. Location of Well	Unit Letter M 1,150 Feet From The S Line and 1,200 Feet From		10. <del>Water</del> or Wildcat
	The W Line, Section 32 Township 3S Range 1W NMPM.		Socorro
15. Elevation (Show whether DF, RT, GR, etc.)			12. County
5,380' GL			Socorro

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

## NOTICE OF INTENTION TO:

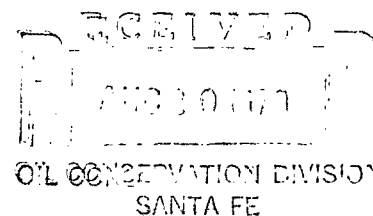
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	
PULL OR ALTER CASING <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
OTHER <input type="checkbox"/>	

## SUBSEQUENT REPORT OF:

REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
COMMENCE DRILLING OPNS. <input type="checkbox"/>	PLUG & ABANDONMENT <input type="checkbox"/>
CASING TEST AND CEMENT JOB <input type="checkbox"/>	
OTHER <input type="checkbox"/>	

17. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 203.

Dirt was dug out around top of hole with a backhoe to a depth of 5', the 2" PVC pipe was cut off at 5' and capped with cement slurry. Hole was back-filled with dirt and the surface was restored to near pre-well conditions.



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

SIGNED Allen E. Campbell TITLE Geothermal Supervisor DATE 8-16-79  
G. E. CampbellAPPROVED BY Carl Ulvog TITLE SENIOR PETROLEUM GEOLOGIST DATE 10-26-79

CONDITIONS OF APPROVAL, IF ANY: