

TESORO PETROLEUM CORPORATION

8520 CROWNHILL

512-824-0261

SAN ANTONIO, TEXAS 78209

May 9, 1972

Mr. A. L. Porter, Jr.
Secretary-Director
New Mexico Oil Conservation Commission
PO Box 2088
Santa Fe, New Mexico 87501

WFX-368
No Waiting Period

ATTN: Mr. J. E. Kepteina

SUBJ: Administrative Approval for Two Tesoro Injection Wells
Hospah Sand Unit
McKinley County, New Mexico

Dear Sir:

Attached in triplicate are copies of Forms C-101 and C-102 covering Tesoro's application to drill its Hospah Sand Unit Wells No. 70 and No. 84. These wells are to be utilized for water injection service in the Hospah Sand Unit waterflood project. Also attached in triplicate is a map of the immediate area showing all wells completed in the Hospah Upper Sand Pool together with schematic diagrams of the two proposed injection wells.

Rule R-2807-B provides that the Secretary-Director may approve orthodox or unorthodox locations in this Unit so long as said locations are not closer than 330' to the outer boundary of the Unit nor closer than 10' to any quarter quarter section or subdivision inner boundary.

As shown by the schematic diagrams attached, injection will be into the unitized Hospah Upper Sand Pool. Injection will be through tubing into open hole. Inasmuch as this is a unitized project, there are no offset operators to be notified.

Fluid to be injected is a combination of produced water and make-up water from the Morrison Water Supply Well, Hospah Sand Unit No. 53-Y.

It is believed that the foregoing information together with the attachments complies with the requirements of Rule 701-B and if any further information is desired, please advise the undersigned at the letterhead address.

Best regards.

Yours very truly,

R. H. Denman

R. H. Denman

Manager of Production Engineering

RHD/rw

Attachments

cc: Emery Arnold - Aztec (without attachments)

BAKER OIL TOOLS, INC.

SERVING THE WORLD

DATE April 27 1972 WELL NO. 70 LEASE HUSPAIN Unit POOL NOSPAN FIELD NOSPAN (H.P.D.) SAN

PROPOSED INJECTION WELL *
1800' FWL and 800' FSL
SECT 36, 18N, 9W
McKINLEY County

8 5/8" Surface to be set @ 60' KB -
use 50 SX cement to surface

Est. Tip of cement 650'

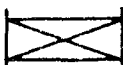
2 3/8" OD Tbg

Baker Model D or equivalent @ est. 1620'

4 1/2" OD Recovery STRING to be set and cemented
@ 1650' KB (approximate) with 170 SX

* Water Injection to be through tubing into open hole
in Nospah Upper Sand Pool.

Est. T.D. 1675' KB



BRIDGE PLUG



PACKER



CENTRALIZER



SCRATCHER



BASKET



PERFORATION

BAKER OIL TOOLS, INC.

SERVING THE WORLD

DATE April 27 1972 WELL NO. 84 LEASE HOSPAN UNIT POOL HOSPAN UPPER SAND FIELD

PROPOSED INJECTION WELL *
2600' FWL and 1425' FNL
SECT. 1 T17N R 9W.
MCKINLEY COUNTY

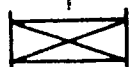
8 5/8" O.D. SURFACE to be set @ 60' KB - 115P
50 SX - cement to Surface

Est. Top of cement 650'

Baker Model D or equivalent @ est. 1620'

1 1/2" O.D. PRODUCTION STRING to be set and cemented
@ 1650' KB (Approximate) Top of upper Hospah.
w/ 140 SX.

* WATER INJECTION to be through tubing in to
open hole in Hospah Upper Sand pool.
Est. T.D. 1675' KB



BRIDGE PLUG



PACKER



CENTRALIZER



SCRATCHER



BASKET

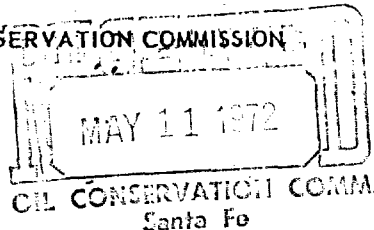


PERFORATION

(Use reverse side for additional remarks & sketches.)

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OPERATOR		

NEW MEXICO OIL CONSERVATION COMMISSION



Form C-101
Revised 1-1-65

5A. Indicate Type of Lease
STATE ☐ FEE ☒
5. State Oil & Gas Lease No.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Injection DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		7. Unit Agreement Name Hospah Sand Unit
2. Name of Operator Tesoro Petroleum Corporation		8. Farm or Lease Name
3. Address of Operator 8520 Crownhill, San Antonio, Texas 78209		9. Well No. 84
4. Location of Well UNIT LETTER <u>F</u> LOCATED <u>1425</u> FEET FROM THE <u>North</u> LINE AND <u>2600</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>1</u> TWP. <u>17N</u> RGE. <u>9W</u> NMPM		10. Field and Pool, or Wildcat Hospah
		12. County McKinley
		19. Proposed Depth 1650
		19A. Formation Hospah
		20. Rotary or C.T. Rotary
21. Elevations (Show whether DT, RT, etc.) 6934' GL	21A. Kind & Status Plug. Bond Blanket	21B. Drilling Contractor Allison Drilling Co.
		22. Approx. Date Work will start May, 1972

23.

PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	24#	60'	50 sx	Surface
7-7/8"	4-1/2"	9.5#	1650'	140 sx	650'

Propose to drill 12-1/4" surface hole and set 60' of 8-5/8" surface casing. Plan to drill to 1650' and run Induction Electric Log. Will run and cement 4-1/2" casing in top of Upper Hospah. Will deepen through Upper Hospah and evaluate for completion as injection well in the Unit Waterflood.

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, GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed R. H. Newman Title Manager of Prod. Engineering Date April 27, 1972

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION

PLAT MAY 11 1972

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

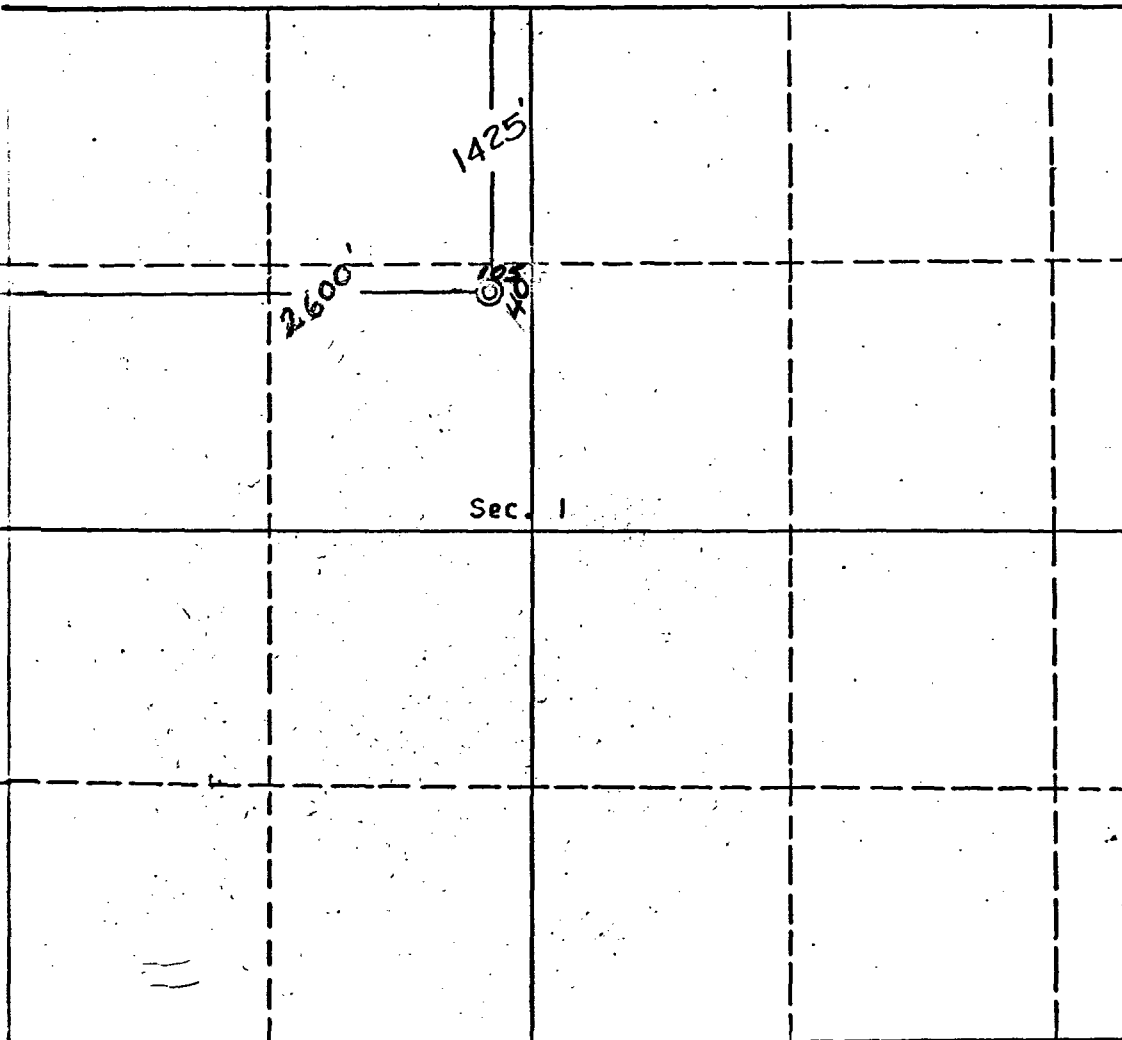
Operator Tesoro Petroleum Corporation		Lease Hospah Sand Unit		Well No. 84
Unit Letter F	Section 1	Township 17 North	Range 9 West	County McKinley
Actual Footage Location of Well: 1425 feet from the North line and 2600 feet from the West line				
Ground Level Elev. 6934	Producing Formation Hospah	Pool Upper Hospah	Dedicated Acreage Injection Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☒ Yes ☐ No If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



CERTIFICATION

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

R. H. Denman

Name

R. H. Denman

Position

Manager of Prod. Engineering

Company

TESORO PETROLEUM CORPORATION

Date

April 27, 1972

E. V. Echowhawk
I, *E. V. Echowhawk*, certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed

April 20, 1972

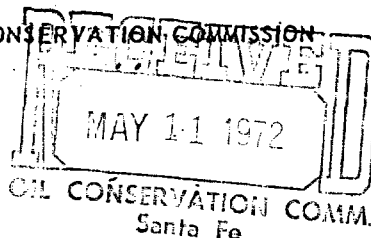
Registered Professional Engineer and/or Land Surveyor

E. V. Echowhawk

Certificate No. **3603** E. V. Echowhawk LS

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NEW MEXICO OIL CONSERVATION COMMISSION



Form C-101
Revised 1-1-65

5A. Indicate Type of Lease

STATE ☒ FEE ☐

5. State Oil & Gas Lease No.
662 Unitized

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work		7. Unit Agreement Name	
b. Type of Well OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> Injection SINGLE ZONE <input checked="" type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/>		Hospah Sand Unit	
2. Name of Operator Tesoro Petroleum Corporation		8. Farm or Lease Name State	
3. Address of Operator 8520 Crownhill, San Antonio, Texas 78209		9. Well No. 70	
4. Location of Well UNIT LETTER <u>N</u> LOCATED <u>800</u> FEET FROM THE <u>South</u> LINE AND <u>1800</u> FEET FROM THE <u>West</u> LINE OF SEC. <u>36</u> TWP. <u>18N</u> RGE. <u>9W</u> NMPM		10. Field and Pool, or Wildcat Hospah	
		12. County McKinley	
		19. Proposed Depth 1650'	
		19A. Formation Hospah	
		20. Rotary or C.T. Rotary	
21. Elevations (Show whether DF, RT, etc.) 6999' GL		21A. Kind & Status Plug. Bond Blanket	
		21B. Drilling Contractor Allison Drilling Co.	
		22. Approx. Date Work will start May 1, 1972	

25. PROPOSED CASING AND CEMENT PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	SACKS OF CEMENT	EST. TOP
12-1/4"	8-5/8"	24#	60'	50 sx	Surface
7-7/8"	4-1/2"	9.5#	1650'	140 sx	650'

Propose to drill 12-1/4" surface hole and set 60' of 8-5/8" surface casing. Plan to drill to 1650' and run Induction Electric Log. Will run and cement 4-1/2" casing in top of Upper Hospah. Will deepen through Upper Hospah and evaluate for completion as injection well in the Unit Waterflood.

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. GIVE BLOWOUT PREVENTER PROGRAM, IF ANY.

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

Signed R. H. Denman Title Manager of Prod. Engineering Date April 27, 1972

(This space for State Use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACERAGE DEDICATION PLAT

RECEIVED
MAY 11 1972
OIL CONSERVATION COM.

All distances must be from the outer boundaries of the Section

Operator Tesoro Petroleum Corporation			Lease Hospah Sand Unit		Well No. 70
Unit Letter N	Section 36	Township 18 North	Range 9 West	County McKinley	
Actual Footage Location of Well: 800 feet from the South line and 1800 feet from the West line					
Ground Level Elev. 7860 6999	Producing Formation Hospah		Pool Upper Hospah	Dedicated Average: Injection Acres	

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty),
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

(X) Yes () No If answer is "yes," type of consolidation Unitization

If answer is "no," list the owners and tract descriptions which have actually consolidated. (Use reverse side of this form if necessary.)

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non standard unit, eliminating such interests, has been approved by the Commission.

CERTIFICATION

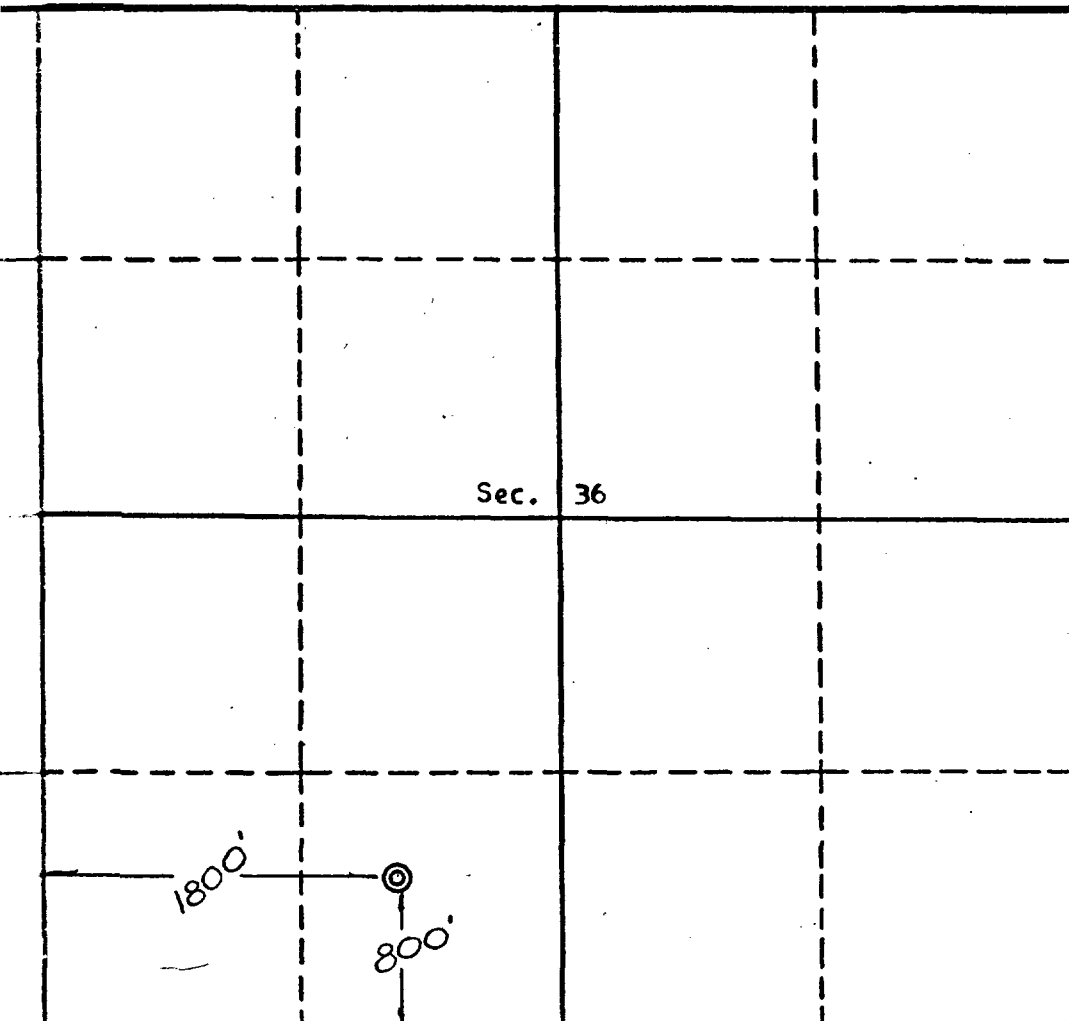
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Name _____
R. H. Denman
Position _____
Manager of Prod. Engineering
Company _____
TESORO PETROLEUM CORPORATION
Date _____
April 27, 1972

STATE OF NEW MEXICO
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

DATE SIGNED _____
April 20, 1972
Registered Professional Engineer
and/or Land Surveyor

E. V. Echhawk
Certificate No. **3602** **E. V. Echhawk LS**



Scale, 1 inch = 1,000 feet