## Tenneco Oil Exploration and Production



A Tenneco Company

Eastern Rocky Mountain Division

P.O. Box 3119 Englewood, Colorado 80155 (303) 740-4800

Delivery Address: 6162 South Willow Drive Englewood, Colorado



November 5, 1984

New Mexico Oil Conservation Commission P. O. Box 2088 Santa Fe, NM 87501 Attention: Joe Ramey

State of New Mexico Oil & Gas Conservation Commission 1000 Rio Brazos Road Aztec, NM 87410

> RE: Application for Authorization to Inject Hospah #40 Unit H, Sec. 12, T17N, R9W McKinley County, New Mexico

Gentlemen:

Attached you will find our Application for Authorization to Inject for the purpose of secondary recovery, including supportive information for the referenced well. The offset operators have been notified by mail of this application.

Please contact this office if you require additional information.

Very truly yours,

TENNECO OIL COMPANY

Scott McKinney Sr. Regulatory Analyst

SMc:srp Attachment

cc: Alex McLean

FNER	STALL OF AGE OFFICE GY AND MINERALS DEPARTMENT	OIL CONSERVATION DIVISION Post office box 2048 State land office bunding BANTA FE NEW MEALO 87501	rukm C-108 Revised 7-1-81
APPL70	ATION FOR AUTHORIZATION TO INJE	CT	
1.	Purpose: Secondary Recov Application qualifies for	ery Pressure Maintenance [ administrative approval? @yes	Disposal Storage
11.	Operator: Tenneco Oil E &	P	
	Address: <u>P. O. Box 3249</u>	Englewood, CO 80155	
	Contact party: <u>Alex McLea</u>	nPhone:	740-2582
III.	Well data: Complete the data proposed for inje	required on the reverse side of ection. Additional sheets may be	this form for each well attached if necessary.
IV.	Is this an expansion of an ex If yes, give the Division ord	isting project? 🕅 yes 🔲 Her number authorizing the project	no - <u>R3325</u>
۷.	Attach a map that identifies injection well with a one-hal well. This circle identifies	all wells and leases within two m f mile radius circle drawn around s the well's area of review.	niles of any proposed d each proposed injection
∗ vI.	Attach a tabulation of data o penetrate the proposed inject well's type, construction, da a schematic of any plugged we	in all wells of public record with ion zone. Such data shall includ ite drilled, location, depth, reco ll illustrating all plugging deta	hin the area of review which de a description of each ord of completion, and bil.
VII.	Attach data on the proposed o	peration, including:	
	<ol> <li>Proposed average and</li> <li>Whether the system is</li> <li>Proposed average and</li> <li>Sources and an approp the receiving forma</li> <li>If injection is for d at or within one mi the disposal zone f literature, studies</li> </ol>	maximum daily rate and volume of open or closed; maximum injection pressure; riate analysis of injection fluid tion if other than reinjected pro lisposal purposes into a zone not le of the proposed well, attach a ormation water (may be measured o , nearby wells, etc.).	fluids to be injected; and compatibility with oduced water; and productive of oil or gas a chemical analysis of or inferred from existing
¥VIII.	Attach appropriate geological detail, geological name, thic bottom of all underground sou total dissolved solids concen injection zone as well as any injection interval.	data on the injection zone inclu kness, and depth. Give the geolo rces of drinking water (aquifers trations of 10,000 mg/1 or less) such source known to be immediat	iding appropriate lithologic ogic name, and depth to containing waters with overlying the proposed ely underlying the
IX.	Describe the proposed stimula	tion program, if any.	
€ X.	Attach appropriate logging an with the Division they need n	d test data on the well. (If wel ot be resubmitted.)	1 logs have been filed
* XI.	Attach a chemical analysis of available and producing) with location of wells and dates s	fresh water from two or more fre in one mile of any injection or d amples were taken.	esh water wells (if Hisposal ∾ell showing
XII.	Applicants for disposal wells examined available geologic a or any other hydrologic conne	must make an affirmative stateme nd engineering data and find no e oction between the disposal zone a	ent that they have evidence of open faults and any underground

XIII.	Applicants must	complete the	Proof of	Notice"	section on	the reve	erse side of	this form.

Certification XIV.

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source of drinking water.

I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.

Name:Alex M. McLean	Title Production Engineer
Signature: Alexander M. Mc Gean	Date: <u>October 9, 1984</u>
If the information required under Sections VI, VIII, submitted, it need not be duplicated and resubmitted.	X, and XI above has been previously Please show the date and circumstance
of the earlier submittal. April 19 1983 - Appli	cation for Hospah #18

DISTRIBUTION: Uriginal and one copy to Santa Fe with one copy to the appropriate Division

## III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:
  - (1) Lease name; Well No.; location by Section, Township, and Range; and footage location within the section.
  - (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
  - (3) A description of the tubing to be used including its size, lining material, and setting depth.
  - (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.
  - (1) The name of the injection formation and, if applicable, the field or pool name.
  - (2) The injection interval and whether it is perforated or open-hole.
  - (3) State if the well was drilled for injection or, if not, the original purpose of the well.
  - (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
  - (5) Give the depth to and name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) the intended purpose of the injection well; with the exact location of single wells or the section, township, and range location of multiple wells:
- (3) the formation name and depth with expected maximum injection rates and pressures; and
- (4) a notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, P. O. Box 2088, Santa Fe, New Mexico 87501 within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NDTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them. Form C-108 Application For Authorization to Inject

- VII. 1. Proposed average & max. daily rate of fluids to be injected; Proposed ave. daily rate: Initially, to be limited to 25 BWIPD Max daily rate: 1200 BWIPD
  - 2. System closed
  - Average Inj. Pressure: 650 psi
     Max Inj. Pressure: 800 psi
  - 4. Injected fluid will be produced water from the Hospah field
  - 5. This well is <u>not</u> for disposal purposes.
- IX. Stimulation program will initially consist of nothing, but at a later date, this well may be acidized.
- XII. Not applicable



Form C-108 Application For Authorization to Inject

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## INJECTION WELL DATA SHEET

UT ANTON		LLASC		
Tenneco Oil	E & P	S. HOspah Unit	TOLLOCOTO	
40	2602 FNL, 1580 FFL	12	1 7M	RANGE
		+ 2 	17N	9w
Schemat	ic	<u>1</u> 0	ubular Data	
		Surface Casing	· · · · ·	
		<b>Size</b> 8 5/8 "	Cemented with	) 75 <b>S</b> )
		TOC Surface	feet determined by	circ cmt to s
		Hole size 12 1/4		
		Internadiata Casian	-	
		Size 5 1/2	• • • • • •	
•			Lemented with	<u>    100     </u> s
			feet determined by	<u>calculation</u>
		Hole \$12e ///	8	
23%		Long string - N/A		
	▼	Sizem	Cemented with	
		TOC	feet determined by	
		Hole size	·····	
-		Total depth		
		<b>Injection interval</b> - pe	erforated	
		1576 <b>feet t</b> o	0 1614	feet
		(perforated or open-ho)	le, indicate which)	
Baker "AD-1"				
tension pkr	3 X			
1500'	,			
1576				
1614				
1630				
1636	$\ge$			
			~	
lubina size	2 3/8" linea	d with _		set in a
Baker $\Delta D_{-1} +$	encion	· (mater	ial)	feet
(brand	and model)	packer at	1500	
lor describe a	ny other casing-tubing	g seal).		
<u> Jther Data</u>				
. Name of the	e injection formation	Upper Hospah		
2. Name of Fi	eld or Pool (if applic	cable) <u>S. Hospah N</u>	Init	
3. Is this a	new well drilled for i	injection? <u>/</u> 7 Yes <u>/</u>	/ <u>x</u> 7 No	
If no, for	what purpose was the	well originally, drilled?		
			<u></u>	
A. Has the we	11 ever been perforate	ed in any other zonc(s)?	List all such peri	forsted interval
and give p	lugging detail (sacks	or coment or pridge plug	1/3/ USECI	
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