

New Mexico Oil Conservation Commission P.O. Box 2088 Santa Fe, New Mexico 87501

> Re: Order #R-2807-C Expand Teritory Project by Addition of Hospah Sand Unit Injection Wells

Gentlemen:

Tesoro Petroleum Corporation requests administrative approval to add injection wells to the Hospah Upper Sand Oil Pool, in accordance with Order #R-2807-B.

We seek approval for injection of produced water into the following wells:

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Hospah Sand Unit # 17: 1650' FNL & 330' FEL, Sec 36-T18N-R9W Hospah Sand Unit # 27: 990' FSL & 1650' FEL, Sec 36-T18N-R9W Hospah Sand Unit # 37: 990' FSL & 990' FEL, Sec 36-T18N-R9W Hospah Sand Unit # 71: 1310' FSL & 2000' FWL, Sec 36-T18N-R9W Hospah Sand Unit #100: 1190' FEL & 2505' FNL, Sec 36-T18N-R9W Hospah Sand Unit #101: 600' FEL & 2050' FSL, Sec 36-T18N-R9W Hospah Sand Unit #104: 204' FEL & 1280' FNL, Sec 1-T17N-R9W
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The following data is submitted in support of this application as specified by Order #R-2807-B:

- 1. A plat showing the location of proposed injection wells, and all wells within the project area. Offset operators and land owners will be notified.
- 2. Schematic drawings of the proposed injection wells which describe the casing, tubing, and perforated interval and depth showing that the injection water will be confined to the Upper Hospah Sand.
- 3. A tabular summary of all wells which have been drilled since the submission of the data relating to Order #R-2807-C.

Page 2

4. Form C-108, Application for Authorization to Inject along with "Proof of Notice".

Tesoro Petroleum Corporation requests your early consideration and approval on this application.

Gavino Perez Ji

Sincerely,

Area Production Manager

OIL CONSERVATION DIVISION

FORM C-108 Revised 7-1-81 POST OFFICE BOX 20HB STATE LAND OFFICE BUILDING SANTA FE NEW MEXICO 875U1

APPL *CATION	FOR	AUTHORIZAT	ION	TO	INJECT	
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ī.	Purpose: Secondary Recovery Pressure Maintenance Disposal Storage Application qualifies for administrative approval? Secondary Recovery
II.	Operator: Tesoro Petroleum Corporation
	Address: 8700 Tesoro Drive San Antonio, Texas 78286
	Contact party: Gavino Perez Phone: 512/828-8484
111.	Well data: Complete the data required on the reverse side of this form for each well proposed for injection. Additional sheets may be attached if necessary.
IV.	Is this an expansion of an existing project? X ves \square no If yes, give the Division order number authorizing the project $R-2807~A_{\star}B$.
٧.	Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
VI.	Attach a tabulation of data on all wells of public record within the area of review whic penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
111.	Attach appropriate geological data on the injection zone including appropriate lithologi detail, geological name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such source known to be immediately underlying the injection interval.
IX.	Describe the proposed stimulation program, if any.
х.	Attach appropriate logging and test data on the well. (If well logs have been filed with the Division they need not be resubmitted.)
XI.	Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
XII.	Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.
III.	Applicants must complete the "Proof of Notice" section on the reverse side of this form.
XIV.	Certification
	I hereby certify that the information submitted with this application is true and correcto the best of my knowledge and belief.
	Name: Gavino Perez, Jr. Title Area Production Manager
	Signature: Date: 8/23/85
subm.	ne information required under Sections VI, VIII, X, and XI above has been previously litted, it need not be duplicated and resubmitted. Please show the date and circumstance ne earlier submittal. R-2797, R-2797A: Definition of Hospah Upper Sand Oil Pool.

R-2807, R-2807A, R-2807B: Approval to operate Waterflood. R-2807C: Approval for tertiary recovery project. Tabulation is attached for new wells.

DISTRIBUTION: Original 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.

NOTICE: 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. This information applies to all wells in the application.
 - 1. Proposed average and maximum daily rate of fluids to be injected:

Average daily rate: 975 BWIPD Maximum daily rate = 1200 BWIPD

- 2. System is to be closed.
- Average Inj. pressure = 300 psi.
 Msximum Inj. pressure = 320 psi.
- 4. Injection fluid will be produced water.
- 5. This well is not for disposal purposes.
- IX. No stimulation work is anticipated.
- XII. Not applicable.

Affidavit of Publication

STATE OF NEW MEXICO,				
COUNTY OF McKINLEY				
Cecilia Paiz			being duly swo	rn upon
oath, deposes and says:			0 ,	•
As <u>Legal Clerk</u> Independent, a newspaper publishe McKinley County, New Mexico, an affiant makes this affidavit based up sworn to. That the publication, a clished in said newspaper during the notice was published in the newspap	d in and d in the on perso opy of w e period er proper	I having a City of Ga nal knowled thich is her and time o the and not in	general circula llup, therein: the dge of the facts eto attached w if publication a n a supplement (tion in hat this herein as pub- nd said thereof,
for <u>three times</u>		, the first p	ublication being	g on the
day of	May		, 19 <u>85</u>	the
second publication being on the		3_		_day of
May	, 19_	85	the third pub	lication
on thed	ay of M	ay	, 19 <u>_85</u>	
and the last publication being on the)		_day of
That such newspaper, in whi lished, is now and has been at all tir purpose, and to publish legal notice of Chapter 12, of the statutes of the	nes mate es and a State of	rial hereto, dvertisemer New Mexic	duly qualified f nts within the r	or such neaning ation.
Sworn and subscribed to befor	e me this		·	_day of
May			m Par Notary Public	locke
-		J	Notary Public	
My commission expires				
0 27 05				

UPTRATOR		LLASE		
	roleum Corporation	Hospah Sand Unit		
	FOOTAGE LOCATION	SECTION		RANGE
17	1650' FNL & 330' FEL	Sec. 36 - T18N -		•
Sche	matic	Tabul Surface Casing	ar Data	
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ון הניקף		-		
		TOC 1270 fee	t determined by	VOLUME
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	03	Intermediate Casing		
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		TOC fee	t determined by _	VOTUILE
		Hole size 5 3/8"		· ·
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	1646'			
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	1681'			
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(not comp	pleted as injection yet)	packer at		feet
	any other casing-tubing	seal).		٠
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Other Data		Immor Hoansh		
	the injection formation _		-10 C -	
2. Name of	Field or Pool (if applica	ble) Hospah Upper Sand	Oil Pool	
3. Is this	a new well drilled for in	jection? $/\overline{7}$ Yes $/\overline{X}$	No	
		ell originally drilled?	Oil Producer	
11 110, 1	G. Whee Meshade Car and C			
		()0		
4. Has the	well ever been perforated	in any other zone(s)? ti f cement or bridge plug(s)	st all such perfo used) _	orated intervals
and give	prungang octair (sacks o	. January de landy fra 1997	No.	
			110	·
5. Give the	e depth to and name of any	overlying and/or underlyi	ng oil or gas zo	nes (pools) in
this are				

None

Tesoro Petroleum Corporation WELL NO. FOUTAGE LOCATION 27 990' FSL & 1650' FEL Sec. 36 - T18N - R9W Schematic Surface Casing Size Unknown	sx.
Schematic Surface Casing Size Unknown " Cemented with TOC feet determined by Hole size " Cemented with TOC feet determined by Hole size " Cemented with TOC feet determined by Hole size " Cemented with TOC feet determined by Hole size 100 Feet determined by Hole size 100 Feet determined by Hole size 100 Fe	sx.
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Surface Cosing Size Unknown " Cemented with	sx.
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Size Unknown " Cemented with TOC	sx.
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Hole size Intermediate Casing Size	
Intermediate Casing Size	
Size "Cemented with	
Hole size Long string Size 7" " Cemented with 50 TOC 975 feet determined by Volume Hole size 8 3/4" Total depth 1611' Injection interval 2. 1575' 1611 feet to 1630 feet (perforated or open-hole, indicate which)	
Hole size Long string Size 7" " Cemented with 50 TOC 975 feet determined by Volume Hole size 8 3/4" Total depth 1611' Injection interval 2. 1575' 1611 feet to 1630 feet (perforated or open-hole, indicate which)	sx
Hole size Long string Size 7" " Cemented with 50 TOC 975 feet determined by Volume Hole size 8 3/4" Total depth 1611' Injection interval 2 1575' 1611 feet to 1630 feet (perforated or open-hole, indicate which)	
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Hole size 8 3/4" Total depth 1611' Injection interval 1575' 1611 feet to 1630 feet (perforated or open-hole, indicate which)	sx.
Hole size 8 3/4" Total depth 1611' Injection interval 1575' 1611 feet to 1630 feet (perforated or open-hole, indicate which)	<u>——</u> е
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(perforated or open-hole, indicate which)	
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1630'	
1630'	
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Baker AD-1 (NOC COMPLECED FOR THE PERSON OF	eet.
(or describe any other casing-tubing seal).	•
Other Data	
1. Name of the injection formation Upper Hospah	
2. Name of Field or Pool (if applicable) Hospah Upper Sand Oil Pool	<u></u>
3. Is this a new well drilled for injection? / Yes X7 No	- -
If no, for what purpose was the well originally drilled? Oil Producer	
,	
4. Has the well ever been perforated in any other zone(s)? List all such perforated in	ntervals
and give plugging detail (sacks of cement or bridge plug(s) used)	
No	
5. Give the depth to and name of any overlying and/or underlying oil or gas zones (poot this area.	

None

OP	FARTOR		LLASC			
		oleum Corporation	Hospal	n Sand		
		FOOTAGE LOCATION	_	ION	TOWNSHIP	RANGE
3′	7	990' FSL & 990' FEL	Sec.	36 - T18N - R9	<u>W</u>	•
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	Schema	tie			r Data	
			Surface Cas			
πv	 	1 677		<u> </u>		
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		6	Intermediat	e Casing		
			Size None		Cemented with	s:
			TOC	feet	determined by	· · · · · · · · · · · · · · · · · · ·
		?	Hole size			
			Long string			÷.
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		1685'	-	feet to	1730	S. a.h
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		1710' 5½"				
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		}			•	
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		not completed as inje		(material)		feet.
	(brand	and model)	this date)	_ packer at		
	•	ny other casing-tubing	seal).			
Oth	er Data					•
1.		e injection formation			Oil Deal	
		eld or Pool (if applica	<u> </u>			
3.		new well drilled for i			No Oil Producer	
	If no, for	what purpose was the	well original	ly drilled?	OII Producer	
4.	Has the well and give pl	ll ever been perforate lugging detail (sacks (d in any othe of cement or	r zone(s)? List bridge plug(s) (sall such perfo used)	rated intervals
					No	
					······································	
5.		epth to and name of an	y overlying a	nd/or underlying	oil or gas zon	es (pools) in
	this area.					

OPF WATOR		L	EASE				
	roleum Corporation				•	6.1	
WELL NO.			SECTION			RANGE	
71	1310' FSL & 20	00, FMT	Sec. 36	- T18N -	R9W		
Sche	ematic			Tobula	ır Data		
		Surf	ace Casing				
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$\left\{\cdot\right\}$			size 61	 -	•	,	
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	1717						
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(br	and and model)	th	nis date)				
(or describ	e any other casing-	tubing seal).				
Other Data						•	
1. Name of	the injection form	ation	Upper Hospal	<u>n</u>			
2. Name of	Field or Pool (if	applicable)	Hospah U	oper Sand	Oil Pool	 	
	a new well drilled				No		
. If no,	for what purpose wa	s the well	originally dr	illed?	Oil Produce	r	
4. Has the	well ever been per	forated in	any other zon	ie(s)? Li	st all such per	forated inte	erval
and giv	e plugging detail (sacks of ce	ment or bridg	le bīnd(a)	No No		
					TAC		
	ne depth to and name						

No

OPT WATOR		LEASE
	roleum Corporation	Hospah Sand Unit
WELL NO.	FOOTAGE LOCATION	SECTION TOWNSHIP RANGE
100	1190' FEL & 2505 F	NL Sec 36 - T18N - R9W
Scher	natic	<u>Tabular Data</u>
		Surface Casing
	•	Size 8 5/8 " Cemented with 30 sx
प्रयत् ।।	11 1977	TOC Surface feet determined by Circulated
		Hole size 12 1/4"
0		
		Intermediate Casing
6		Size None "Cemented with s
0.0.0		TOC feet determined by
	40	Hole size
		Long string
		Size 5 1/2 " Cemented with 100 s
		TOC 1150 feet determined by CBL
.		Hole size 7 7/8"
		Total depth 1833
	1150	Total depth 1000
		Injection interval
()	1725	1796 feet to 1819 feet (perforated or open-hole, indicate which)
		typervolutes of open-mole, indicate which,
<u>c</u>	1796	
	1819	
<u> </u>	1833	
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ubina size		d with set in a
	(not completed as inj	(waferiar)
	nd and model)	this date)
or describe	any other casing-tubin	g seal).
Other Data		
l. Name of	the injection formation	Upper Hospah
2. Name of	Field or Pool (if appli	cable) Hospah Upper Sand Oil Pool
. Is this	a new well drilled for	injection? / Yes /K/ No
		well originally drilled? Oil Producer
•		
	well over been perforat	ed in any other zone(s)? List all such perforated interva
Has the	MGIT EAST DESIL DELIGIAC	
Has the	plugging detail (sacks	of cement or bridge plug(s) used/
Has the and give	e plugging detail (sacks	of cement or bridge plug(s) used)NO

No___

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WELL NO	roleum Corporation FUUTAGE LUCATION		TOWNSHIP	041105
	600' FEL & 2050			RANGE
	000 1111 0 2030	100 000 10	1011	
Schen	matic		Tabular Data	
		Surface Casing	-	
			" Cemented with	30
प्रस्त्रज्ञ ।।	11 677		feet determined by	
			-	CITCUIACION
		Hole size 12 1/	4	
		Intermediate Casing		
		Size None	Cemented with	
		TOC	feet determined by _	
	30	Hole size		
		•		
		Long string		7.00
		· ·	Cemented with	
			_ feet determined by _	CBL
		Hole size <u>7 7/8</u>		•
	950	Total depth 1767'		. * *
8		Injection interval		
e X	1675	feet	to 1750	feet
6		(perforated or open-	hole, indicate which)	1661
	1729			
	<u>11</u>			
	1750			
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	1767			
V-9				
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	2 3/8	ined withNon		set in a
uoing Slze _			terial) at 1675	e t
_	(Not completed as	packer	at — ···	
Baker AD-1	(Not completed as	this date)		feet
Baker AD-l (bran				reet
Baker AD-1 (bran or describe	nd and model)			reet
Baker AD-l (bran or describe ther Data	nd and model) any other casing-tu			reet
Baker AD-1 (bran or describe ther Data . Name of (nd and model) any other casing-tu the injection format	bing seal). ion Upper	· Hospah	
Baker AD-1 (bran or describe ther Data . Name of f	nd and model) any other casing-tu the injection format Field or Pool (if ap	ion Upper	Hospah h Upper Sand Oil Pool	
Baker AD-1 (bran or describe ther Data . Name of f . Name of f	nd and model) any other casing-tu the injection format Field or Pool (if ap	ion Upper plicable) Hospa or injection? / 7 Yes	Hospah h Upper Sand Oil Pool	
Baker AD-1 (bran or describe ther Data . Name of f . Name of f	nd and model) any other casing-tu the injection format Field or Pool (if ap	ion Upper	Hospah h Upper Sand Oil Pool	
Baker AD-1 (bran or describe ther Data . Name of f . Name of f . Is this a	nd and model) any other casing-tu the injection format Field or Pool (if ap a new well drilled f or what purpose was	ion Upper plicable) Hospa or injection? / 7 Yes the well originally drille	Hospah h Upper Sand Oil Pool /X/ No ed? Oil Producer	
Baker AD-1 (bran or describe ther Data . Name of f . Name of f . Is this a If no, fo	nd and model) any other casing-tu the injection format Field or Pool (if ap a new well drilled f or what purpose was	ion Upper plicable) Hospa or injection? / 7 Yes	Hospah h Upper Sand Oil Pool /X/ No ed? Oil Producer)? List all such perfo	rated interva
Baker AD-1 (branor describe ther Data Name of fine is this a	nd and model) any other casing-tu the injection format Field or Pool (if ap a new well drilled f or what purpose was	ion Upper plicable) Hospa or injection? / 7 Yes the well originally drille	Hospah h Upper Sand Oil Pool /X/ No ed? Oil Producer)? List all such perfo	rated interva

OPERATOR		LCASC Cond Hotel	
	troleum Corporati		24405
WELL NO.	7001AGE LOCATIO 204' FEL & 12		RANGE .
104	204 FEL & 12	Sec 1 11/1 10W	
Sche	ematic	<u> Tabular Data</u>	
		Surface Casing	-
		· · · · · · · · · · · · · · · · · · ·	30
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 	1 1 (277	Size 85/8 "Cemented	
90		TOC <u>Surface</u> feet determine	ed by <u>Circulation</u>
		Hole size $\frac{12 \frac{1}{4}}{}$	_
		Intermediate Casing	
		Size None " Cemented	i with s
		TOC feet determine	
	39		
711		Hole size	
}		Long string	
		Size 5 1/2 " Cemented	with 100 s
		TOC 800 feet determine	ed by
{.		Hole size 7 7/8"	
		Total depth 1587	-
	800	10car depth	
١		Injection interval	
\c.\X	1475	feet to1548	feet
\c\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		(perforated or open-hole, indicate w	hich)
<u>e</u>	1522		
	1548		
-	1346		•
	1587		
		`	
luhina size	2 3/8	lined with None	set in a
_		(material)	feet
Baker AD-	-l (Not completed and and model)	as inj. well as of packer at 1475 this date)	1660
(or describ	e any other casing	-tubing seal).	•
Other Data			
	the injection for	mation Upper Hospah	
		applicable) Hospah Upper Sand Oil Pool	
			ducer
If no,	for what purpose w	as the well originally drilled? Oil Pro	uucei
_	well ever been pe	rforated in any other zone(s)? List all suc (sacks of cement or bridge plug(s) used)	h perforated interva
4. Has the		(SACKS OI COMONE OF DIIOQUE DIOQ(8) OSCO)	
4. Has the	e plugging detail		No
4. Has the	e plugging detail		

No

TABULATION OF WELLS IN AREA OF REVIEW
POLYMER AUGMENTED WATERFLOOD
HOSPAH FIELD
MCKINLEY COUNTY, NEW MEXICO

						ULVO SKISUS	10	CEREN	כרענאו סטוט				201	WIVE SKIER	
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NUSPER SAND UNIT NO. 104 - 2000/ FULK 1200/ FUL SEC D. 1178, 1891	2000'FEL & 1200' FM. SEC 1, 1178, 889	PRID.	127.82	1588 PS 1574	12-174	8 578 5-172	39 1587	30 160	800	CIPC CEL	1522-1548	U. HOSPAH	1.3/8	1540	Long to the second



CERTIFIED MAIL

Mr. Alex McLean Tenneco Oil P.O. Box 3249 Englewood, Colorado 80155

Re: Application for Approval of Addition Injection Wells at the Hospah Sand Unit

Dear Mr. McLean,

Per New Mexico Oil Conservation Division Rule #701, we are furnishing a copy of our application for additional injection wells at the Hospah Sand Unit.

If you have any questions, please call me at the number below.

Gavino Perez

Area Production Manager



CERTIFIED MAIL

Mr. Norman Witte Celsius Energy Company 79 South State Street Salt Lake City, Utah 84147

Re: Application for Approval of Addition Injection Wells at the Hospah Sand Unit

Dear Mr. Witte,

Per New Mexico Oil Conservation Division Rule #701, we are furnishing a copy of our application for additional injection wells at the Hospah Sand Unit.

If you have any questions, please call me at the number below.

Sincerely yours,

Gavino Perez,/

Area Production Manager



CERTIFIED MAIL

Mr. Roy Graham State Land Office P.O. Box 1148 Santa Fe, New Mexico 87501

Re: Application for Approval of Addition Injection Wells at the Hospah Sand Unit

Dear Mr. Graham,

Per New Mexico Oil Conservation Division Rule #701, we are furnishing a copy of our application for additional injection wells at the Hospah Sand Unit.

If you have any questions, please call me at the number below.

Sincerely yours

Area Production Manager



CERTIFIED MAIL

Mr. Vernon D. Dyer District Landman Santa Fe Energy Company One Security Park 7200 I-40 West Amarillo, Texas 79106

Re: Application for Approval of Addition Injection Wells at the Hospah Sand Unit

Dear Mr. Dyer,

Per New Mexico Oil Conservation Division Rule #701, we are furnishing a copy of our application for additional injection wells at the Hospah Sand Unit.

If you have any questions, please call me at the number below.

Sincerely yours,

Gavino Perez Ji

Area Production Manager

LARGE FORMAT EXHIBIT HAS BEEN REMOVED AND IS LOCATED IN THE NEXT FILE