

October 24, 1994

New Mexico Oil Conservation Commission P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Attention: Ben Stone

Re: Application for Expansion of Waterflood

Order R-5530

Central Vacuum Unit, Vacuum Grayburg San Andres

Texaco Exploration and Production Inc.

T-17/18-S, R-34/35-E, Lea County, New Mexico

Gentlemen:

Texaco Exploration and Production Inc. respectfully requests administrative approval for the expansion of the waterflood on the Central Vacuum Unit. As part of the 10 acre infill program, one temporarily abandoned well will be converted to water injection. This work will help recover additional secondary reserves that would otherwise be left in place. Administrative approval is requested so that the necessary work can be commenced as soon as possible. If there are any questions, please contact Robert McNaughton at 505- 397-0428.

Yours very truly,

Terry L. Frazier Hobbs Area Manager

TLF/rtm

attachment

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT

OIL CONSERVATION DIVISION POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING

FORM C-108 Revised 7-1-81

				SANTA FE. NEW MEXIC	CD 97501	Ce	entral Vacuum Unit
PPLICA	ATION FOR AUT	HORIZATION	TO INJECT				
ı.	Purpose: Applicat	Secondar ion qualifi	y Recovery es for admin	X Pressure	Maintenance	Disposal	Storage
II.	Operator:			Production	_	· 🗀	
	Address:			s, New Mexic			
	_	ty: Rober				505-397-	-0428
III.	Well data:	Complete t	he data requ	uired on the		of this form	for each well
IV.	Is this an If yes, giv	expansion o e the Divis	f an existinion order n	ng project? umber authori	xx yes zing the proj	no ect <u>R-553(</u>). September 20, 19
٧.	injection w	ell with a	one-half mi	wells and lea le radius cir well's area	ses within two cle drawn arou of review.	o miles of an und each prop	ny proposed posed injection
VI.	penetrate t well's type	he proposed , construct	injection : ion, date d:	zone. Such d rilled, locat		lude a descri	ea of review which ption of each pletion, and
VII.	Attach data	on the pro	posed opera	tion, includi	ng:		
	2. Whe 3. Pro 4. Sou t 5. If a	ther the sy posed avera rces and an he receivin injection i t or within he disposal	stem is oper ge and maxing appropriate g formation s for dispose one mile of zone formation	n or closed; mum injection e analysis of if other tha sal purposes f the propose	injection floor reinjected of into a zone need well, attacked by the measure	uid and compa produced wate ot productive h a chemical	atibility with er; and e of oil or gas
/111.	detail, geo bottom of a total disso	logical nam ll undergro lved solids one as well	e, thickness und sources concentrate	s, and depth. of drinking ions of 10,00	ction zone in Give the ge water (aquife O mg/l or les n to be immed	ologic name, rs containing s) overlying	waters with the proposed
IX.	Describe th	e proposed	stimulation	program, if	any.		
х.				st data on th e resubmitted	e well. (If	well logs hav	e been filed
XI.	available a	nd producin	g) within or	sh water from ne mile of an es were taken	two or more y injection o	fresh water w r disposal we	rells (if ll showing
XII.	examined av	ailable geo	logic and en c connection	ngineering da	irmative stat ta and find n disposal zon	o evidence of	open faults
III.	Applicants	must comple	te the "Pro	of of Notice"	section on t	he reverse si	de of this form.
XIV.	Certificati	on					
		ertify that of my know			ed with this a	pplication is	true and correct
					Title	10/24/94	- OPERATING CAUT WE
	Signature	Cana .	Fran.		Date:	10/24/94	- OPERATING CALIF Mea

of the earlier submittal. R-5530. September 20, 1977, Commission Hearing

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.

- 3. 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.

NEW MEXICO OIL CONSERVATION DIVISION - Form C-108

Application for Water Flood Expansion

Unit Name: Central Vacuum Unit- Lea County, New Mexico

Conversion Well Number and Location:

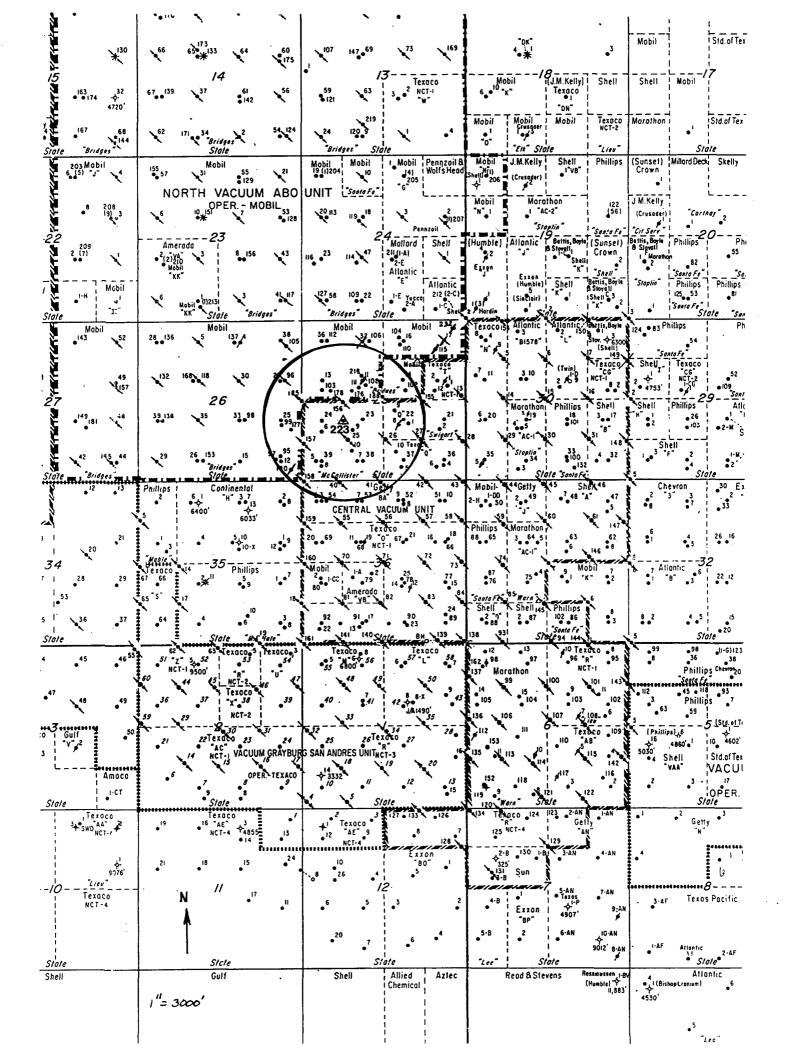
223 - Unit Letter K, 1821 FSL & 1330 FWL, Section 25, T-17S, R-34E

- III. All pertinent well data is included on the schematic sheets.
- IV. Data for sections VI, VIII, X and XI has been previously submitted under NMOCD Order R-5530 dated September 20, 1977.
- V. A lease map of wells within a 2 mile radius is attached. A 1/2 mile radius circle is drawn around the subject well, which constitutes the area of review. A second detail map shows all Grayburg/ San Andres wells and the locations of all P&A wells in the area of review (AOR). With the permission of the NMOCD, the Bridges State No. 11 will remain a Salado monitor well for the near future. Pressures will be monitored monthly and submitted each Quarter with the Vacuum Waterflow Technical Committee report.
- VI. This part of the Vacuum field was also covered by AORs for two other waterflood projects. NMOCD Order R-4412, dated October 10, 1972, authorized the North Vacuum Abo Unit which is operated by Mobil Oil Corp. NMOCD Order R-9714, dated September 3, 1992, authorized the Vacuum Glorieta West Unit which is operated by Texaco E&P Inc.
 - An attached map shows the locations of the recently drilled Glorieta injection wells. A schematic showing typical construction is included. On all 13 wells in the AOR, cement was circulated on both casing strings.
- VII. Proposed average daily injection rate per well is 1000 Bbls per day and anticipated maximum rate is 1500 Bbls per day. Maximum pressure will not exceed 1450 psi system working pressure. The initial injection pressure will be limited to about 860 psi (.2 psi/ft). Step rate tests will be run to establish higher limits with the authorization of the NMOCD. The system will be closed.
- IX. The subject well will be stimulated in stages with 5000 gallons 15% NEFE and surfactants as needed. Rock salt blocks and ball sealers will be used for diversion.

NEW MEXICO OIL CONSERVATION DIVISION - Form C-108

Central Vacuum Unit- Vacuum Grayburg San Andres

- XII. Based on current geological and engineering data, there is no evidence of natural or artificially induced open faults within unitized interval or above. There is no known communication between the injection zone and any subsurface source of drinking water.
- XIII.A Copy of the Legal Notice is attached.



PROPOSED CONVERSION to WATER INJECTION

T-17-S, R-34E Central Vacuum Unit #223 Sec./Twn/Rng: Unit K, Sec 25, WELL: OPERATOR: Texaco Exploration & Production Inc FOOTAGE LOCATION: 1821 FSL, 1330 FWL

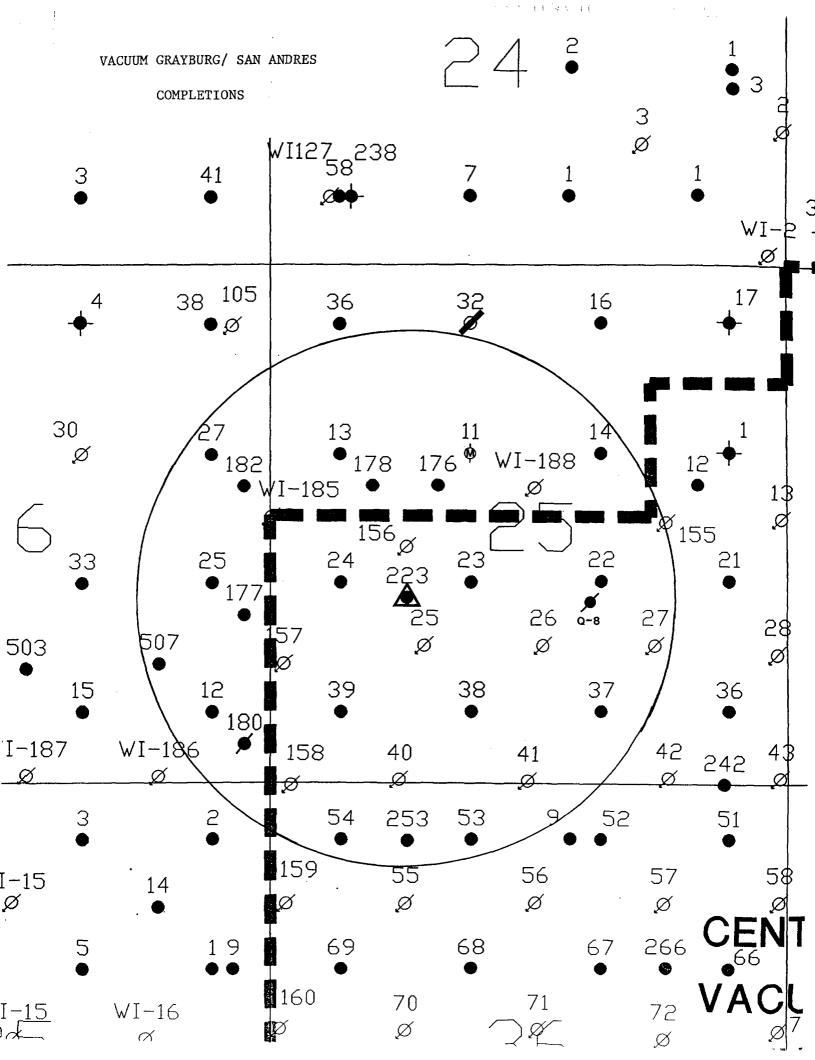
County, New Mexico Lea CIBP @ 4275' TA'd on 2-17-92, SX.

determined by <u>circulated</u> 3-10-88 determined by <u>circulated</u> Hole Size 12-1/4", reduced to 8-3/4" @ 2800' determined by <u>circulated</u> 4330 54.5# Cemented with 1600 sx. Cemented with 2050 sx. 1550 3501 800 open hole Set at: Comp. Date Set at: Set at: Cemented with TABULAR DATA 4330 ' to 4730 ' through: Intermediate Casing: Hole Size 17-1/2" Producing Interval Production Casing: #46 23# Surface Casing surface surface Size 13-3/8", surface Hole Size 20", Size 7", Size TOC TOC TOC sx, cement circulated 13-3/8", 54.5#, 1600 7", 23#, 2050 sx, cement circulated cement circulated 20", 94#, 800 sx, injection packer TD- open hole 3977' GL (KB=12') 1660'-2830' SCHEMATIC 37361 41021 Grayburg 42801 43301 4730 Queen 1550' TOPS: Salt 3501

Hole Size 6-1/4"

4373

San Andres



WELL DATA SHEET

R-35E Mobil Bridges State #11 Sec./Twn/Rng: Unit A, Sec 30, T-17-S, OPERATOR: Texaco Exploration & Production Inc WELL: FOOTAGE LOCATION: 330 FNL, 990 FEL

County, New Mexico P&A 1/75, reentered and converted to CVU monitor well, 7/78 Lea

Size 4-1/2", 9.5# Hole Size 8-3/4" Production Liner: TOC T/liner <4-1/2", 10.5#, 225 sx. CIBP, 10 sx cement T/ Blinebry perfs <4-1/2", 9.5#, 475 sx, cement circulated <10-3/4", 33#, 210 sx, TOC @ surf., calc. 24#, 210 sx, @ 2615', calc. T/ casing stub 4013 GL SCHEMATIC ®C 1013 63501 6412 3976 4150' 6800 820 g

TOPS: (estimated from offset logs)
Salt 1690'-2680'
San Andres 4445

Glorieta 5995' Blinebry 6350'

XX _' determined by <u>calculated</u> determined by <u>calculated</u> 2-10-63 8201 4150' 210 210 Size 10-3/4", 32,75# Cemented with Set at: Set at: Comp. Date __ Cemented with TABULAR DATA Intermediate Casing: Hole Size 12-1/4" Surface Casing: TOC surface 7", 24# 26151 Size TOC

Producing Interval: Vacuum Blinebry 6412 to 6563 through: perfs

Hole Size 6-1/4"

475 SX.

Cemented with _

6800

Set at:

determined by circulated

4-1/2" tie-back liner @ surface run 7/78

R-34-E County, New Mexico T-17-S, New Mexico Q State #8 Unit J, Sec 25, Lea Sec./Twn/Rng: WELL: OPERATOR: Texaco Exploration & Production Inc. P&A 10/26/93; pumped 435 sx down both strings 2100 FEL 1800 FSL, FOOTAGE LOCATION:

SX SX circulated Spud Date: 6-26-64 1611 900 Set at: Set at: determined by Cemented with Cemented with TABULAR DATA Intermediate casing: 24# Surface Casing: surface 8-5/8", Hole Size Size TOC

图

4009

Gr

SCHEMATIC

Size 2x2-7/8, 6.5# Cemented with Production Casing: Hole Size TOC Size TOC 600 sx, 2-7/8", 6.5#, 900 sx, cement circulated casing SQZD, circ T/ Glorieta perfs T/ Blinebry perfs 2 CIBPs, 35 sx 24#, 8-5/8", 65307 1611' 65637 6850 1630 6018

1665'-2720' 3710' 4355 5878 6570' San Andres Glorieta Blinebry Queen Tops: Salt

surf. TOC @ 2860'/

900 sx.

determined by CBL/ SQZ

2860'/surf.

8/80

Hole Size 7-7/8, csng SQZD w/ 520 sx,

6846' / 6841'

Set at:

' determined by

Vacuum Glorieta Production Intervals: 6018 to 6050 : 6563 ' to 6759 ': Vacuum Blinebry

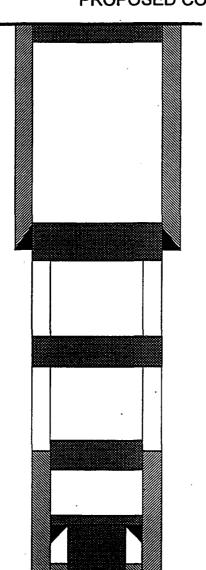
BRIDGES STATE WELL # 32 WIW

VACUUM GRAYBURG (SAN ANDRES) FIELD LEA COUNTY, NEW MEXICO PROPOSED COMPLETION c.

C, 25, T 17-S, R 34-E, 660' FNL, 1980' FWL

KB = 4013'

GL = 4002°



15 SX CLASS C NEAT CMT PLUG FROM SURFACE-30'

70 sx 920'-765'

70 SX CLASS C NEAT CMT PLUG FROM ±900-765' ACROSS 7" CSG STUB @ ±850 & 10-3/4" CSG SHOE @ 815' PLUG MUST BE TAGGED!

50 SX CLASS C NEAT CMT PLUG FROM 1770-1670'
PERFED & SQZ'D ACROSS SALT TOP @ 1720'
PLUG MUST BE TAGGED!

TOC @ 2735' (CALCULATED)

10-3/4" 35.75# L.W. CSG @ 815"

CMTD W / 257 SX CIRC.

TOL @ 4045'

TOC @ 4065' (TS)

7" 24# SL CSG @ 4210' CMTD W / 217 SX

5580

6580° 6600° 40 SX CLASS C NEAT CMT PLUG FROM 2895-2685' ACROSS SALT BASE 0 2845' AND TOC 0 2735'

CIBP @ 4445'

CIBP @ 4450' W/ 40 SX CLASS C NEAT CMT CAP FROM 4500-3995' ACROSS 7" CSG SHOE @ 4210' & 4-1/2" TOL @ 4045'

SAN ANDRES PERFS 4481-4843'

GLORIETA PERFS 5975-6000' (SQZ'D W/ 100 SX)

4-1/2" BAKER CIBP @ 6600' W/ 20' CMT CAP

BLINEBRY PERFS 6663-6712

4-1/2" 9.5# J-55 LINER 4045-6800' CMTD W / 400 SX

PBTD=5580'

BS32P.PRE ALS 09/27/93

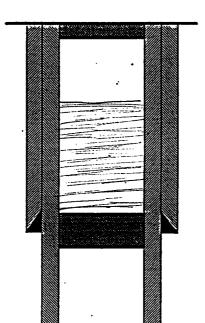
BRIDGES STATE

WELL # 180

VACUUM GRAYBURG (SAN ANDRES) FIELD LEA COUNTY, NEW MEXICO PROPOSED COMPLETION

P. 26, 17-S, 34-E, 330 FSL, 330 FEL

GL = 4003'



30 CLASS C NEAT CMT PLUG FROM 30'-SURFACE

50 sx from 417' - 100'

*.7'8" 36# 8RD ST&C CSG @ 367" "D W / 400 SX CIRC. 100 CLASS C NEAT CMT PLUG ACROSS CSG SHOE @ 367 FROM 417-317

100 ' CLASS C NEAT CMT PLUG ACROSS SALT TOP (1707) FROM 1757-1657

25 sx

100 $^{\circ}$ CLASS C NEAT CMT PLUG ACROSS YATES TOP (2850) FROM 2900-2800 $^{\circ}$ 2.5 $_{\odot}$ SX

CIBP @ 4260' w/ 25 sx CIBP @ 4262 W/35' CLASS C NEAT CMT CAP

SAN ANDRES PERFS 4292-4362

SAN ANDRES PERFS 4428-4736*

7" 24# 10V CSG @ 4850" CMTD W / 1600 SX CIRC.

PL2.

TD=4850

BS180P.PRE ALS 05/27/93

Central Vacuum Unit #253 OPERATOR: Texaco Exploration & Production Inc WELL:

Sec./Twn/Rng: Unit C, Sec 36, T-17-S, R-34-E Lea County, New Mexico FOOTAGE LOCATION: 675 FNL, 1330 FWL

SX. 43251 ' determined by <u>circulated</u> 3-04-88 determined by <u>circulated</u> 2050 sx. temp. srv. 360 Set at: 1570' 850 Size 13-3/8", 54.5# Cemented with 1600 Set at: Comp. Date Cemented with _ Set at: Cemented with determined by TABULAR DATA Intermediate Casing: Producing Interval: Hole Size 17-1/2" Production Casing: Hole Size 6-1/8" surface Hole Size 24" Surface Casing: surface 20", 94# Size 7", 23# 50 Toc Size TOC Toc sx, cement circulated 23#, 2050 sx, @ 50', temp.srvy. 13-3/8", 54.5#, 1600 20", 94#, 850 sx, cement circulated TD- open hole 4006' GL (KB=12') 1650'-2650' 7", TOC SCHEMATIC FOPS: (estimated) 4720i 1570' 43251 3601

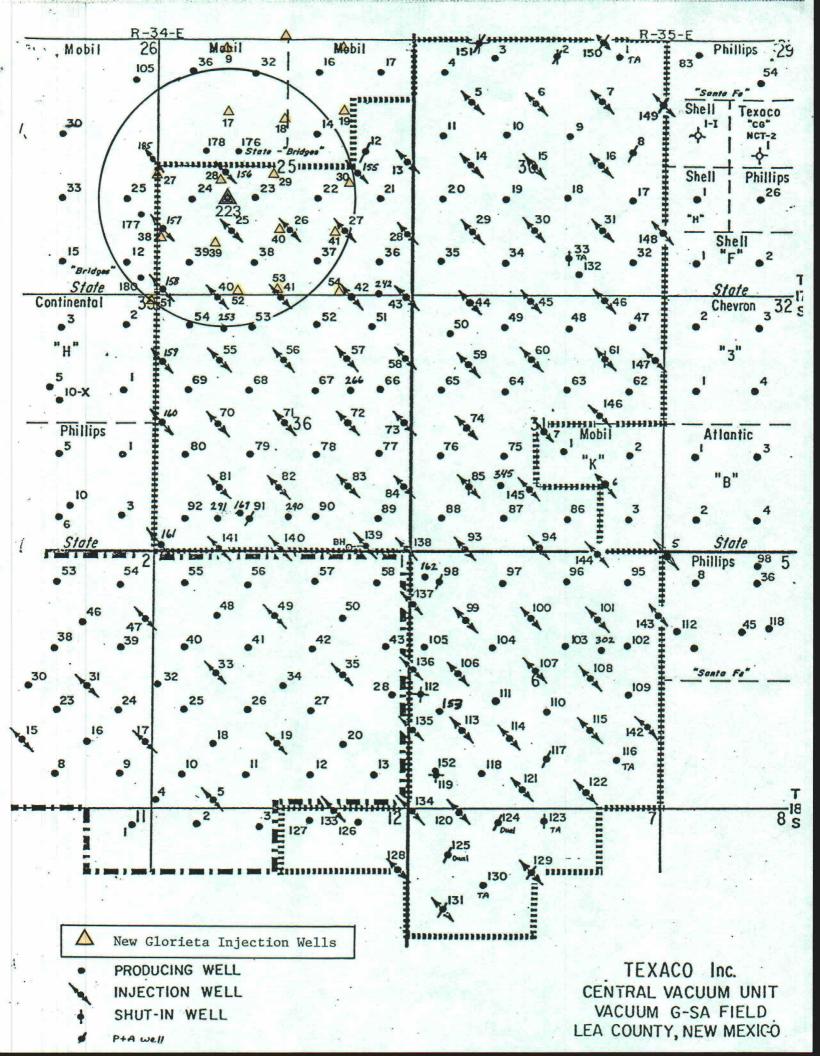
open hole

4325 ' to 4720 ' through:

3683° 4003°

Queen

Grayburg San Andres



TYPICAL VACUUM GLORIETA WEST UNIT WATER INJECTION WELL

WELL: Vacuum Glorieta West Unit No. 17 FOOTAGE LOCATION: 1228 FNL, 1399 FWL Sec./Twn/Rng: Unit C, Sec 25, T-17-S, R-34-E OPERATOR: Texaco Exploration & Production Inc

determined by <u>circulated</u> determined by circulated Comp. Date 12-29-92 62901 Cemented with 650 sx. SX. Size <u>5-1/2",15.5&17#</u> Cemented with <u>1450 s</u>x. 15481 County, New Mexico 160 perfs Set at: AD-1 injection packer set at 5927' Set at: Set at: Cemented with Hole Size 7-7/8", DV Tool @ 4955' determined by TABULAR DATA 5994 ' to 6084 ' through: Lea Intermediate Casing: Injecting Interval: Production Casing: Size 8-5/8", 24# Hole Size 11" TOC surface Surface Casing: TOC surface Hole Size Size TOC 5-1/2", 15.5&17#, 1450 AD-1 injection packer sx, cement circulated 8-5/8", 24#, 650 sx, cement circulated Glorieta perfs 4008 GL (KB=14') DV tool 1690'-2705' PBTD SCHEMATIC 4585° 5875° 6000 San Andres Glorieta Paddock 62001 TOPS: 1548 49551 5927 59941 62901 Salt Gr

State of New Mexico Energy, Minerais and Natural Resources Department

Form C-105

Submit to Appropriate District Office

Revised 1-1-89

State Lease — 6 copies: Fee Lease — 5 copies: DISTRICT I		OII	CONS	SERVA"		DIVI	SION	J `	/ELL API N 0-025-3		 -	
P.O. Box 1980, Hobbs, 1	NM 8824U	i da	a . =.	P.O. Box		704 000	10 ft	ļ		ype of Lease		
DISTRICT II P.O. Drawer DD, Artoni	L, NM 8821	10	Santa	新罗拉	acotto (/202-20					ATE 🛚] FEE .
DISTRICT III 1000 Rio Brazos Rd., A				VI					6. Sime Oil B—1520—	& Gas Leaso I 1	No.	
WELLC	OMPLET	TON OR RE	COMPLE	ETION RE	PORT		7.5-5-5-6-6-6					
la. Type of Well: OIL WELL	GAS	WELL [DRY 🗌	OTHER W						me or Unit Ag		
b. Type of Completion: NEW WORK WILL COURT	Des			DETE RESVR [] O	THER.			-				
2. Name of Operator									L Well No.			
TEXACO EXPLO		AND PRODUC	TION INC.						17	e or Wildcet		
P. O. Box 310		and, Texas	79702			·				GLORIETA		
4. Well Location		1228 Fee		MODTU			49		. .	\	VECT	
Unit Letter	 : -	1220 Fee	t From The	IVONIA		Line s	<u>13</u>	99	Feet	From The	MESI	
Section	25	To	veship 17-	-SOUTH	Range	34-EA	ST	NM	IPM L	.EA		County
10. Date Spudded	11. Date T.I). Reached	12. Data C	ompi. (Ready i	o Prod.)			•	L RKB, RT.	GR, etc.)	14. Elev.	Casinghead -
12-08-92	12-16-		12-29-				-4008				4008'	
15. Total Depth 6290'	620			17. If Multiple Many Zon	es?	How	11. Dri	evals lied By	Rotary To) '	Cable T	
19. Producing Interval(s), 5994' - 6084': G			lottom, Name). 						20. Was Dire YES	ctional S	arvey Made
21. Type Electric and Oth GR-DLL-MSFL, G			<u>L</u>						22. Was V	Vell Cored		-
23.		CA	SING R	ECORD	Reno	rt all str	inos se	t in t	vell)			
CASING SIZE	WEIC	HT LB/FT.		TH SET		OLE SIZE			MENTING	RECORD	AN	OUNT PULLE
8 5/8	24#		1548'		11				CIRC 13			
5 1/2	15.5#	& 17#	6290'		7 7/8				K, TOC @			
			 			······	DV	1001	<u>. @ 4955</u>			
			 								- -	
24.		LIN	ER RECO	RD				25.	T	UBING RE	CORD	
SIZE	TOP	BC	MOTTO	SACKS CE	MENT	SCRE	EN		SIZE .	DEPTH		PACKER SET
				ļ				2 3/	8	5927'		5927'
26. Perforation reco	nd (interv	el eize end:	number)	<u> </u>		27 A	<u>CID 61</u>	IOT I	ED ACTI	DE CENTEN	Tr so	UEEZE, ETC.
5994' - 6084' 2			ишиже у				INTER					TERIAL USED
						5994-6	5084			5000 GAL		
				55051								
28. Date First Production		Dandardi	on Method //	PRODU Flowing, gas 4			d one n			Well Co.	/B /	or Shu-in)
										SHUT-IN	-	,
Date of Test	Hours Te	eted	Choke Size	Prod'n Fo		160 V	9 10776	~~ <u>~</u>		Water - Bbl.		Gas - Oil Ratio
Flow Tubing Press.	Casing Pr	LC SOUTH	Calculated 24- lour Rate	Oil - Bbl.	12,5	1	1993	We	BbL	Oil Grav	rity - AP	l - (Corr.)
29. Disposition of Gas (Sc	old, used for	fuel, vented, etc	:.)		37	14)	ceive	d	-41	Witnessed By SEBASTAI	······································	-
30. List Attachments				<u></u>	18		Hopps V.	63	\$		·	
DEVIATION SURVEY		one T		<u> </u>	/6	7	Hopps	4				
31. I hereby certify that	the inform	ation shown a	m both side:	s of this form	is true	and comp	lese so th	e per	of my know	ledge and be	lief	
						-35	52 42 P					

Signature C.P. Basham CwH Printed Name C. P. BASHAM Title DRLG. OPER. MGR. Date 12-31-92

Submit to Appropriate District Office State Lease — 6 copies For Lease — 5 copies

-6-11 Way

State of New Mexico Energy, Minerais and Natural Resources Department

OIL CONSERVATION DIVISION WELLAPING.

Form C-105
Revised 1-1-89

P.O. Box 1980, Hobbe	L NM 88240)	OIL	COINS	DEKYA	7 3081	נת או	. A 127.	OI.	3	0-025-	317	82			
DISTRICT II P.O. Drawer DD, Arte				SantaFe	BO B	dico 8	7504	2088			i. Indicate	Туре		ATE X] F	ee 🗌
DISTRICT III 1000 Rio Brazos Rd.,	Aziec, NM	17410								- 1	Sum 0 3-1520		ias Lanco I	ia.	-	
WELL	COMPLE	TION	OR RE	COMPLI	ETION RE	EPORT	AND	LOG							//////	
ia Type of Well: OIL WELL		S WELL		DRY 🗌	OTHER \					7			or Unit Ag LORIETA			
b. Type of Completio	K ()	PRENT [] BACK		DUT RESVR [OTHER _										
2. Name of Operator TEXACO EXPL	ORATION	AND P	RODUC	TION INC.	•					1	L Well N	O				
P. O. Box 31	or 109, Mid	land,	Texas	79702							ACUUM					
4. Well Location Unit Letter	F:	1651	Foot	From The	NORTH		1	ine and	25	43		st Fro	m The _\	NEST		·Line
Section	25		To	raship 17-	-SOUTH	Rase	3 4	-EAST		NM		LEA			(County
10. Date Spudded 11-29-92	11. Date T. 12-06-	92		12-16-				GR-40	000	, KB-	RKB, RT -4014'	GR,		14. Elev. 4000'	. Casingly	ad.
15. Total Depth 6306'	62	Plug Ba 23'			17. If Multip Many Zo	sie Compi mes?	L How	18	- Inte	rvais lied By	Rotary 1 0-630	6'		Cable T		
19. Producing Interval(-	- Top, B	ottom, Name	• ,								Was Dire	ctional S	urvey Ma	še .
6020' - 6070': 21. Type Electric and C GR-DLL-MSFL,	Other Logs Ru	133			<u> </u>		-				22. ₩ss	Well				.
23.					FCODE	\ (P										
CASING SIZE	WEI	GHT LI			ECORD TH SET		OLE S		<u>s 80</u>		IENTINO	DE	mpn .	T AT	MOUNT	DITT I DI
8 5/8	24#			1550'		11			65		CIRC 1				100111	10111
5 1/2	15.5#	& 17#	<u> </u>	6306'	_	7 7/	8		_		, CIRC		SX			
				 	····	 			DV	TOOL	<u>@ 498</u>	<u>6'</u>				
······································				-		+	·		╁╾							
24.			LIN	ER RECO	RD					25.	•	TUB	ING RE	CORD		
SIZE	TOP		BC	MOTTO	SACKS C	EMENT		CREEN			SIZE		DEPTH	SET	PAC	KER SET
					ļ		<u> </u>			2 3/8	3	٤	964'		5964'	
			L		1			4.077	~						<u> </u>	
6. Perforation rec	ord (interv	781, \$176 00 HO	e, end i	iumber)				ACID					CEMEN			
0020 - 0070 2		00 110						0-607		<u>~</u>			AND KE			SED
							90.				AOID	000		1500	, 500, .	
													/.%		*	57
28.		.,			PRODU								1.		***	Ş
Date First Production				<u> </u>	Flowing, gas								SHUT-IN	٠, ١	1992	
Date of Test	Hours To			boks Size	Prod'a F Test Per	riod	Oil - B		<u> </u>	as - MC		Wa	ter - Bbl.	Hab	exaco	c c
Flow Tubing Press.	Casing P		Ĥ	Calculated 24- lour Rate	- Oil - Bb			u - MCF	j	Wat	er - Bbl.		1	Q.	1'- (C&A.)	
9. Disposition of Gas (Sold, used for	r fuel, ve	ried, eic.	<i>)</i>									MORE	~.LI	gi gi	
O. List Attachments															•	
EVIATION SURVE	Y		h	ما المام المام	e of this for	io rese	م امیری	neerlasa s	0 16	how a	f may be a		a and h-	li ad		
1. I hereby certify the	as the injorn	nasion s	nown o	ı UKR BACI	i oj uis jon	n ij il'ill	una C	лтұны І	<i></i>	· vest O	, my ichoi	wie a g	e una de	-1 9		İ
Signature	D 8.	a h	1/ch	. 	Printed Name C.	P. BA	SHAM	ì		Tiot.	. DRI G	OPI	ER. MGF	₹	te 12-2	2-92
Signature	-1. Da	AN AW	77 70	:"	Manue 🙃	•••	J. 5719	<u> </u>		11IN	<u> </u>	J/- 1	-11. MOI	: D#	IC 14-2	

30. List Attachments DEVIATION SURVEY

- Habbs ___ WELL FILEOTH C-105 State of New Mexico Submit to Appropriate District Office Energy, Minerals and Natural Resources Department **Revised 1-1-89** State Lease — 6 copies Fee Lease — 5 copies WELL API NO. OIL CONSERVATION DIVISION 30-025-31869 P.O. Box 1980, Hobbs, NM 88240 P.O. Box 2088 5. Indicate Type of Lease DISTRICT II P.O. Drawer DD, Artesia, NIM 88210 Santa Fe, New Mexico 87504-2088 FEE STATE X 6. State Oil & Gas Lease No. DISTRICT III 1000 Rio Brazos Rd., Aztec, NM \$7410 B-1520-1 WELL COMPLETION OR RECOMPLETION REPORT AND LOG 1s. Type of Well: 7. Lease Name or Unit Agreement Name OTHER WATER INJECTION DRY 🗌 GAS WELL OIL WELL VACUUM GLORIETA WEST UNIT b. Type of Completion: RESVE OTHER WELL 🛛 DEBPEN 2. Name of Operator 8. Well No. TEXACO EXPLORATION AND PRODUCTION INC. 27 Address of Operator P. O. Box 3109, Midland, Texas 79702 9. Pool name or Wildcat **VACUUM GLORIETA** Well Location Unit Letter 1 : 2359 Feet From The SOUTH Line and 64 Feet From The EAST ·Line Township 17-SOUTH Range 34-EAST NMPM LEA Section 26 County 10 Date Soudded IL Date T.D. Reached 12. Date Charol. (Ready to Frod.) 13. Elevations (DF & RKB, RT, GR, etc.) 14 Elev. Citilebill 06-24-93 05-20-93 GR-4012', KB-4026' 4012' 05-12-93 15. Total Depth 17. If Multiple Compl. How Many Zones? 16. Plug Back T.D. 18. Intervals | Rotary Tools Drilled By Cable Tools 6370' 6300' [0 - 6370' 19. Producing Interval(s), of this completion - Top, Bottom, Name 20. Was Directional Survey Made 5975' - 6123'; GLORIETA YES 21. Type Electric and Other Logs Run 22. Was Well Cored GR-DLL-MSFL, GR-DSN-SDL-CAL 23 CASING RECORD (Report all strings set in well) **CASING SIZE** HOLE SIZE WEIGHT LB/FT. **DEPTH SET** CEMENTING RECORD **AMOUNT PULLED** 8 5/8 1580' 24# CL-C 650 SX, CIRC. 58 SXS 5 1/2 CL-H 1470 SX, TOC @ 1700 15.5# & 17# 6370' 7 7/8 BY T.S., TOP OUT W/ 200 SX CL-H 24 LINER RECORD TUBING RECORD SIZE BOTTOM TOP SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SET 2 3/8 5908' 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. 26. Perforation record (interval, size, and number) 5975-6006, 6115-6123; 2 JSPF, 78 HOLES. **DEPTH INTERVAL** AMOUNT AND KIND MATERIAL USED ACID - 1800 GAL, 15%-HCL 5975' - 6123' **PRODUCTION** Date First Production Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shut-in) SHUT-IN Oil - Bbl. Gas - MCF Water - Bbl. Date of Test Hours Tested Prod's For Gas - Oil Ratio Choke Size Test Period Calculated 24-Hour Rate Oil - BbL Gas - MCF Water - Bbl. Flow Tubing Press. Casing Pressure Oil Gravity - API - (Corr.) Tost Witnessed By 29. Disposition of Gas (Sold, used for fuel, vented, etc.) HARVEY STEPHENS

31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief

Name C.P. BASHAM

Title DRLG. OPER. MGR. Date 06-29-93

Printed

Submit to Appropriate District Office State Lease — 6 copies Fee Lease — 5 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-105

Revised 1-1-89 WELL APLNO.

DISTRICT I P.O. Box 1980, Hobbs,	NM 88240		CONS	P.O. Box	2088			N	30	-025-31	785			
DISTRICT II P.O. Drawer DD, Artes	in NIM 88210		Santa Fe,	New Mex	dco_87	7504	2088	26		morement th	pe or Lease S	TATE 🗵	7 PEE	
DISTRICT III 1000 Rio Brazos Rd., A	•		Santa Fe,	MF		45.44			6. B	Sime Oil & -2706				
	OMPLETION	OP PE	COMBI E		MI ME	ANID		1 12/2						
In Type of Well: OIL WELL			DRY [OTHER W						Lease Nam VACUUM				
b. Type of Completion NEW WORK WELL OVER] PLUS BACK		ESSVR O	ner									
2. Name of Operator TEXACO EXPLO	ORATION AND P	RODUC	TION INC.						2	Well No. 9		· · · · · · · · · · · · · · · · · · ·		
3. Address of Operator P. O. Box 31	09. Midland,	Texas	79702						1	Pool BATTS ACUUM GI				
4. Well Location														
Unit Letter _	K: 2522	Foot	From The	SOUTH		u	ine and _	228	3	Foot P	rom The	WEST		·Line
Section	25		mahip 17-				-EAST	-41	NMF			144 554		sty ·
10. Date Spudded 11-30-92	11. Date T.D. Read 12-07-92		12-22-9	mpi. (Ready s)2	o Proa.)		GR-40			<i>RKB, RT, G.</i> 4015 '	K, #C.)	4001°	. Casinghead	
15. Total Depth 6300'	16. Plug Ba 6200°	ck T.D.		7. If Multiple Many Zon	Compl. es?	How	18.	Interv Dalle	als d By	Rotary Tool 0-6300'		(Cable T	cols	
19. Producing interval(s)	•	- Top, B	ottom, Name									ectional S	urvey Made	,
5968' - 6068': (-		YES		 -	
21. Type Electric and Ot GR-DLL-MSFL, G	_	R-CCL								NO Was We	NI Cored	·		
23.		CA	SING RI	ECORD	(Repo	rt all	strings	sct	in w	ell)				
CASING SIZE	WEIGHT L		DEPT			OLE S				ENTING R	ECORD	A	MOUNT PU	ILED
8 5/8	24#		1550'		11		·			CIRC 65				
5 1/2	15.5# & 17	*	6300'		7 7/8					CIRC 18	8 SX			
								UV		<u> </u>				·
24.	<u> </u>	LINI	ER RECOR	SD					25.	ו דר	BING RE	CORD.		
SIZE	TOP		MOTTO	SACKS CE	MENT	S	CREEN	$\neg \vdash$		SIZE		H SET	PACKE	P CET
								2	3/8		5928'		5928'	-
26. Perforation reco	ord (interval, siz	e and n	number)		<u></u> 1	77.	ACID.	SHO	π. F	RACITIRI	CEME	NT SO	UEEZE, E	TC
5968' - 5974', 6				OLES			PTH INT						TERIAL USE	
•						596	8-6068			ACID - 40	000 GAL	15% H	CL	
											<u> </u>	363.	<u> </u>	
				DDODII	CTIO	NAT					<u> </u>	A.	- <u></u>	
28. Date First Production		Productio	a Method (F	<u>PRODU</u> Iowine, eas li			se and they	r Dlane		· · · · · · · · · · · · · · · · · · ·	Well St		d. or Shud-in	
	ŀ			4, 4 , 4 , 5	,	•			,		SHUT		ुः।	
Date of Test	Hours Tested	C	hoke Size	Prod's Fo Test Perio	-	0ii - B	Ы. 	Gas	- MCI	7	Vator Bbi.	evec	Gas - (Oil	Rutio
Flow Tubing Press.	Cazing Pressure		alculated 24- lour Rate	Oil - Bbl.		G	s - MCF	1	Wate	r - BbL	OiliG		1-(Con.)	
29. Disposition of Gas (S	old, used for fuel, w	rued, etc.	.)	1 -,						Tost W	itnessed By		<i>2</i> 2	
30. List Attachments														
DEVIATION SURVEY		• • • • • • • • • • • • • • • • • • • •	- hash = 1	of this fam.	. ia	- d -	molete *	2 1 L -	h	Franchiscon II	dag and L	مرزاء		
31.: I hereby certify tha	i ine injormation .	snown o	n ooun siaes	oj uus jorm	is it we	una Cl	мприесе И	, ute	vesi oj	INY KNOWIE	uge anu D	ruej		1
Signature	P. Basher	n/cu		Printed C.	P. BAS	SHAM			_ Title	DRLG. 0	PER. MO	iR. D	te 12-23	-92

State of New Mexico is and Natural Resources Department

	THE SECOND SECOND		Fo	- C	-11		
ELL API NO.	28.2	13:31	200	. 23	1	E	180
0-025-317	B6		÷ .			, ,	

State Lease — 6 copies For Lease — 5 copies DISTRICT I P.O. Box 1980, Hobbs,		OTI	L CONS		TION	N DIVI	SIO	ina i	ELL API N 0-025-3	in 1786	भ अक्टा म	
DISTRICT II	estile?	·5· _ ·.	Santa Fe.	P.O. Boi New Mea			18	3	i. Indicate 7	Type of Lases	TATE X	T PER T
P.O. Drawer DD, Arter DISTRICT III 1000 Rio Brasos Rd., A								1 -	State Oil 3-1056-	& Gas Lases		_ res-t
			RECOMPLE	TION RE	PORT	AND LO	<u> </u>					
ia. Type of Well: OIL-WELL	GAS	WELL.	DRY [INJECTIO				me or Unit A		
b. Type of Completion NEW WORK WILL OVER		BH- DAG	2 🗆	RESVE O	ner _		انست					· •
2. Name of Operator TEXACO EXPL	ORATION A	AND PRODU	CTION INC.						i. Well No. 30			of the
P. O. Box 31	•							l l		e or Wildcat GLORIETA		7. 3.3.2.
4Well Location	,	0905				75	• • •	204	•		CAST	e Callebraia La Callebraia
Unit Letter	<u></u> : -		et Prom The		<u> </u>			1391	Foot	From The	EASI	Line
Section	25		waship 17-			34-EA		NM	2.642	.EA		County
10. Date Spudded 12-10-92	11. Date T.D 12-19-9		12. Date Co 01-05-5	ompi. (Ready i 93	so Prod.)			tions (DF&	-4001'	GR, etc.)	14 Elev.	Casinghead
15. Total Depth 6340'		ing Back T.D.		17. If Multiple Many Zon	e Compl.			ntervals	Rotary To	ole)*	Cable T	
19. Producing Interval(s 6034' - 6097':	-	•	Bottom, Name							20. Was Din YES	ectional S	arvey Made
21. Type Electric and Or GR-DLL-MSFL, G	ther Logs Run		 X.						22. Was V	<u> </u>		
23.			ASING RI	ECORD	Repo	nt all str	ings	set in w				
CASING SIZE		HT LBATT.	DEPT	TH SET	H	OLE SIZE		CEM	ENTING		A	MOUNT PULLET
8 5/8	24#	- 45#	1540'		11				CIRC 65			
5 1/2	15.5# 8	& 17#	6340'		7 7/8	<u></u>			(, CIRC 2 @ 5026			
	<u> </u>		1								士	
					Г							
SIZE	TOP		NER RECOI		PENT	SCRE	TOM .	25.	SIZE	UBING RE		
3124	101		OIIOM.	SACKS CE	ME		EIN	2 3/8		5972'	1 361	PACKER SET
										<u> </u>		
26. Perforation rec 6034'- 6058', 60				ES		DEPTH						UEEZE, ETC. TERIAL USED
		· ·	• • •			6034-6				3000 GAL		
			 -	PRODU	CTTC)N			L			
Date First Production		Product	tion Method (F				d sype	purp)		Well Su SHUT-I	•	d. or Shot-in)
Date of Test	Hours Tes	ited	Choke Size	Prod'n Fo Test Perio		Oil - BЫ.		Gas - MC	F 1/	Water Boli	27 25 26	Gas - Oil Ratio
Flow Tubing Press.	Casing Pro		Calculated 24- Hour Rate	Oil - Bbi.		Gas - M	(CF	Wat	er - Bbl / 2	Oildon		21-18 (7.)
29. Disposition of Gas (S	iold, used for	fuel, vented, el	ic.)						Mike	Witness By	,	303
30. List Attachments									18			- ;;/
DEVIATION SURVEY								of the section	150	Hoph	ps Mica	3/
31. I hereby certify tha	st the informa	ation shown			i is true	ana compu	ele 10 (ihe best o	f my renow	101 6 8	elief 1.95%	% //
Signature	C.P.Bo	esham/	CWH	Printed C.	P. BAS	SHAM		Tick	DRLG.	OPER. MG		ate 01-14-93

Submit to Appropriate District Office State Lease — 6 copies Fee Lease — 5 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-165 Revised 1-1-89

X11 6

WELL APP NO.

DISTRICT I P.O. Box 1980, Hobbs	NM \$2240	OIL CONS	SERVA'	LION	IDI	VISIC	N 3	0-025-31	699			
DISTRICT II	,	Santa Pe	P.G. Box	200 8.	7504-	2088		5. Indicate Ty	pe of Lease	57		$\overline{}$
P.O. Deswer DD, Arte	nia, NM 88210	Outil 20	W T					State Oil &		TATE X] FEE	
DISTRICT III 1000 Rio Brazos R4., A	Aziec, NM 87410						777 778	3-2706	، بسک			
WELL	COMPLETION	OR RECOMPLE	ETION REI	PORT	AND	LOG						
la. Type of Well: OIL WELL	GAS WELL	DRY [OTHER W	ATER	NJEC	TION		VACUUM				
b. Type of Completion	_							YACCOM (SLOME 17	(WES!	CHI	
MET OAR	· ~ ~	PEUG	DOFF RESVE [] OF	Gent.								
2. Name of Operator								L Well No.	·	, ,		
	RATION & PROD	UCTION INC.						38				
3. Address of Operato P. O. Box 31	e 09. Midland,	Texas 79702						ACUUM GI			1	
4. Well Location		<u></u>					1					
Unit Letter	M : 1217	Feet From The	SOUTH		Ľ	isi <u>2</u>	4	Foot F	rom The W	/EST	·	·Line
Section 25		Township 17-	SOUTH		34-	FAST	10/	PM LEA				
10. Date Spudded	11. Date T.D. Read		ompl. (Ready t				بر نسور و سور	RKB, RT, G	P. etc.)	14 Flow	Cou	 _
09-22-92	09-29-92	10-08-	•			GR-400)5'. KB-	-4019'	į	4005'		
15. Total Depth	16. Ping Ba	ck T.D.	17. If Makiple Many Zon	Compl.	How	18.	stervels billed By	Rotary Tool	8	Cable To	ools	
6270°		- Top, Bottom, Name	1 44					10 - 62/0	0. Was Dies	ctional Si	arvey Made	
5958' - 6127':			e se .					1	/ES			
21. Type Electric and O GR-DLL-MSFL-C		DL, GR-CCL						22. Was We NO	M Cored			
23.		CASING R	ECORD	(Repo	rt all	strings	set in v	vell)				
CASING SIZE	WEIGHT L	B/FT. DEPI	TH SET	H	DLES	ZE	CEN	ENTING R			OUNT PU	ILED
8 5/8	24#	1550'		11				T.S. @ 20 ACE W/1		INCH	TO	
5 1/2	15.5 & 17#	6270'		7 7/1	8			(, D.V. e		CIRC	. 45 SX	1ST
								VO STG. D	D NOT	CIRC	. TOC e	
24.		LINER RECO	מפ			l`	1000' B		BING RE			
SIZE	TOP	BOTTOM	SACKS CE	MENT		CREEN		SIZE	DEPTH		PACKE	R SET
							2 3/	3			5892'	
26. Perforation rec	ord (interval, siz	e and number)	<u> </u>		27.	ACID.	SHOT. I	RACTURI	CEME	T SO	IRRZE E	mc
5958-70', 5978-	-6004', 6096-	6127' W/2 JSF	PF (138 HC	OLES)		PTH INTE					ERIAL USE	
					595	3 – 612	7'	ACID - 60	000 GAL	15% NE	FE	
						 	· ·	 				
28.			PRODU	CTIO	N							
Date First Production		Production Method (/	Towing, gas li	ft, pu mp i	ng - Sis	e and type	bruch)		Well Sta		. or Sheein)	
Date of Test	Hours Tested	Choke Size	Prod'n Fo Test Peric	-	01 - Bi	<u>t.</u>	Gas - MC	₹ V	ater - Bbl.		Ges - Oil	Ratio
Flow Tubing Press.	Casing Pressure	Calculated 24 Hour Rate	Oil - Bbi.		Ga	- MCP	Wed	er - Bbl.	Oil Ora	vity - API	[- (Corr.)	
29. Disposition of Gas (Sold, used for fieel, w	med, etc.)						1	tacced By			
30. List Attachments								B. D.	WISEMAI	*		
DEVIATION SURVE												- 1
31. I hereby certify the		shown on both side	s of this form	is true	and co	mplese so	the best o	of my knowle	dge and be	lief		
17)	QQ . 0	1/000	Printed	_								1
Signature 🗹	Kysha	myruc	Name C.	P. BAS	MAH		Tiu	e DRLG. O	PN'S. MC	<u>₩.</u> Da	te 10-20-	-92

Hobbs ar Manager

Submit to Appropriate District Office State Lease — 6 copies Fee Lease — 5 copies

State of New Mexico Energy, Minerals and Natural Resources Department

W	18.00	1. Sept. 1.	
4-5			



DISTRICT I P.O. Box 1980, Hobb	L NM 2224	O	IL CON	SERVAT		DIVI	SIC		0-025-31	•		
DISTRICT II	4.4	• ,	Sente P	P.O. Box e, New Mex		504-208	R	5	, ladicate Ty	pe of Lease		, –
P.O. Dower DD, Arte	sia, NM 88	210	Oalka I	ci Tacka Tairee	~ ·	J0 1 200	•	<u> </u>			TATE X	FEE _
DISTRICT III	4-4 577							"	i. Suma Oil A 1—2706	Gas Lease	No.	
1000 Rio Brazos Rd.,									7777777	mm	mm.	mmm
	COMPLE	TION OR	RECOMPL	ETION REP	ORT	AND LO	<u> </u>					
la. Type of Well: OIL WELL] G/	S WELL	DRY 🔲	OTHER W	ATER I	NJECTIO	N	′	. Leese Nam	S OF UMR A	hactress (Courties
b. Type of Completio	·								VACUUM (GLORIETA	A WEST	r unit
MEN NOR	K ()		28 □	DET RESVE OT				·				
2. Name of Operator		MEN M	<u> </u>						. Well No.			
TEXACO EXPL	ORATION	& PRODUC	TION INC.					1 -	. waa n a. :9			
3. Address of Operate	×							9	. Pool same	or Wildcat		·
P. O. Box 31	109, Mid	dland, Tex	as 79702					V	ACUUM G	LORIETA		
4. Well Location				······································								
Unit Letter	<u>M:</u>	1194	ect From The	SOUTH		Line a	1	055	Foot F	rock The V	VEST	Line
			47	0011771		04 546			154			
Section 25		7	Cownship 17-	-5001H	Respo	34-EAS) 	NM	M LEA			County
10. Date Spudded	1	D. Reached		Compi. (Ready to	Prod.)			-	RKB, RT, G	R, esc.)		Cacingheed
10-02-92	10-11-		10-19-		O1 1			02', KB-			4002'	
15. Total Depth 6280'		. Plug Back T.J 200'	۸.	17. If Multiple Many Zone	Compr. 1	ENOW	16.	Daillad Da	Rotary Tool 0 - 628		Cable To	DOMS ·
19. Producing Interval		·	Bottom, Nam	l			Щ.			0. Was Din	ectional Si	rowy Made
5980' - 6154':			,							YES	~	
21. Type Electric and C						-		·	22. Was We	al Cored		
GR-DLL-MSFL-	CAL, GR-	DSN-SDL-	CSNG, GR-	CCL					NO	···		
23.		C	ASING F	RECORD (Repor	rt all stri	ings	set in w	rell)			
CASING SIZE	WE	IGHT LB/FI		TH SET		LE SIZE			ENTING R	ECORD	AN	OUNT PULLED
8 5/8	24#		1550'		11			850 SX,	CIRC. 5 S	X		
5 1/2	17#		6280'		7 7/8	3			, CIRC. 1			· · · · · · · · · · · · · · · · · · ·
								D.V. TOO	L @ 4989),,		
												
24.	<u> </u>	11	NER RECO	ORD			1	25.	ווד	BING RE	CORD	i
SIZE	TO		BOTTOM	SACKS CEN	/ENT	SCRE	EN		SIZE	DEPTI		PACKER SET
								2 3/8	<u> </u>			5908'
26. Perforation rec	ord (inter	val, size, an	d number)									UEEZE, ETC.
5980 - 6026', 6	116' - 6	5154° W/2	JSPF (15	B HOLES)		DEPTH 5980' -						ERIAL USED
						5980 -	- 01	54	ACID - 62	200 GAL	15% NE	ere .
												
28.				PRODUC	CTIO	N						
Date First Production												
		<u> </u>								SHUT I		
Date of Tool	Hours T	l'ested	Choke Size	Prod'n For Test Perio	_	XI - B61.	1	Gas - MC	₽ ¥	ater - Bbi.		Gas - Oil Ratio
	0.1	D.,	Calculated 2			Gas - N	<u> </u>	Was	r - BbL	Oil G	uiou A D	1 - (Corr.)
Flow Tubing Press.	Canng	Pressure	Hour Rate	Out-Du.				1	4 - DVL	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	itay - Aci	· (Cary
29. Disposition of Gas (Sold used fo	or fuel, worded.	esc.)	i	 	<u></u>		l. <u>.</u>	Tost W	inessed By		
	, /-			•						SEBASTA	UN	
30. List Attachments									-			
DEVIATION SURVE	Υ								 _	·;		
31. I hereby certify th	at the infor	mation show	on both side	es of this form	is true a	ind compl	ese 10	the best o	my knowle	age and be	: ार्च	
MI)/Q	//	Vana	Printed Name C. F					nn:	D. (10	20	10 00 00
Cianata V	4-15.1	Is and	I K DU	Name C. F	. BAS	HAM		Titk	, DHLG, O	LN.2. W(ын. D∎	te 10-28-92

Submit to Appropriate District Office State Lease -- 6 copies Fee Lease -- 5 copies DISTRICT I

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-106 Revised 1-1-89

OIL CONSERVATION DIVISION WELLAPING

P.O. Box 1980, Hobb	4, NM 88	240	OIL	CONS	P.O. Box			V IDIC	<i>)</i> ! \		<u> 25–31</u>				
District II Company Name Name 27504-2022 3. Indiana Type of Lease															
DISTRICT III 1000 Rio Brazos RA	Aziec, Ni	M 87410			W					A S.		Gas Lases	Na.		
			OR RE	COMPLE	TION RE	PORT	AND	LOG							
la. Type of Well: OIL WELL		GAS WELL		DRY 🗌	OTHER W					7. La VA	as Nem	or Unk A	WES	Name T UNIT	
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J _ 110065 _ [

Signature C. P. Bashem/cwt

State of New Mexico

Submit (2) Appropriate District Office State Lease or 6 copies	Energy, Minerals and Natural Resources Departmen
Cate Lease — 6 copies de Lanse — 5 copies DISTRICTI - O. Box 1980, Hobbs, NM \$8240	OIL CONSERVATION DIVISION
~ 200 1340' 10000' LAM 40540	P.O. Box 2088
DISTRICT II	Sente Fe New Mexico 87504-2088

Title DRLG. OPER. MGR. Date 03-26-93

P.O. Box 1940, Hobbs.	, NM 88240	OE C	J. 102	P.O. Box	2088			31	J-025-3	1838		· · · · · · · · · · · · · · · · · · ·	-
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2. Name of Operator TEXACO EXPL	ORATION AND I	PRODUCTION	I INC.						Well No.				
3. Address of Operato										or Wildow GLORIETA	<u></u>		
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30. List Attachments								\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.\.	300	bs Area	73/		_
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31. I hereby certify the	st the information	shown on both	h sides of	this form i	s true a	им сотр	HEIE 10	ine best of	my unique	61817	juq		1

Printed Name C. P. BASHAM

State of New Mexico Submit to Appropriate Form C-105 Energy, Minerals and Natural Resources Department District Office Revised 1-1-10 State Lease — 6 copies Fee Lease — 5 copies WELL API NO. OIL CONSERVATION DIVISION DISTRICT 30-025-31728 P.O. Box 1980, Hobbs, NM \$240 P.O. Box 2088 S. Indicate Type of Lease Santa Fe, New Mexico 87504-2088 DISTRICT II P.O. Drawer DD, Artonia, NM 88210 STATE X FEE 6. State Oil & Gas Leage No. DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410 B#3196 WELL COMPLETION OR RECOMPLETION REPORT AND LOG ses Name or Unit Agreement N la. Type of Well: OTHER WATER INJECTION OIL WELL DRY 🗌 GAS WELL VACUUM GLORIETA WEST UNIT b. Type of Completion: MERT NOWE (RESVR (OTHER E Well No. Name of Operator TEXACO EXPLORATION & PRODUCTION INC. 51 Address of Operator 9. Pool mame or Wildow P. O. Box 3109, Midland, Texas 79702 **VACUUM GLORIETA** 4 Well Location _: _24 Unit Letter A Post From The NORTH Line and _ 101 Feet From The EAST Rase 34-EAST Township 17-SOUTH LEA Section 35 NMPM 13. Elevations (DF4 RKB, RT, GR, etc.) 10. Date Spudded 11. Date T.D. Reached 12. Date Compl. (Ready to Prod.) 14. Elev. Creing GR-4009', KB-4023' 11-10-92 10~23-92 10-30-92 4009' 17. If Multiple Compl. How Many Zones? Rotary Tools 15. Total Depta 16. Plug Back T.D. 18. Interveis Orilled By Cable Tools 6255 6200 0 - 6255' 19. Producing Interval(s), of this completion - Top, Bottom, Name 5980' - 6142': GLORIETA YES 21. Type Electric and Other Logs Rus 22. Was Well Corné GR-DLL-MSFL, GR-DSN-SDL-CSNG, GR-CCL NO CASING RECORD (Report all strings set in well) HOLE SIZE CASING SIZE WEIGHT LB/FT. DEPTH SET CEMENTING RECORD

مطا County 20. Was Directional Survey Made AMOUNT PULLED 8 5/8 24# 1550' 650 SX, CIRC. 119 SX 6255' 7 7/8 5 1/2 15.5 & 17# 2175 SX, CIRC. 50 SX ON 1ST STG. D.V. TOOL @ 5036' TOC @ 1150' BY TS 24 LINER RECORD TUBING RECORD 25. BOTTOM SIZE TOP SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SET 2 3/8 5939' 26. Perforation record (interval, size, and number) 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. 5980 - 6018', 6104' - 6142' W/2 JSPF (152 HOLES) DEPTH INTERVAL AMOUNT AND KIND MATERIAL LISED 5980' - 6142' ACID - 6000 GAL 15% NEFE PRODUCTION Production Method (Flowing, gas lift, pumping - Size and type pump) Well Status (Prod. or Shed-in) Data First Production SHUT IN Date of Test House Tested Choke Size Prod's For Oil - BbL Ges - MCF Water - BbL Gas - Oil Ratio **Test Period** Gas - MCF Calculated 24-Hour Rate Oil - BbL Water - BbL Oil Gravity - API - (Corr.) Casing Pressure Flow Tubing Press. Test Witnessed By 29. Disposition of Gas (Sold, used for fuel, vented, etc.) M. D. ELMORE 30. List Attachments DEVIATION SURVEY 31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief Printed Signature OBasham Name C. P. BASHAM /RDC Title DRLG, OPN'S. MGR. Date 11-17-92

Hobbs are Manager

Submit to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

State Lease - 6 copie	3	•	TTT 671 1.7								- Aev	
Fee Lease - 5 copies DISTRICT I	44		OIL CONS	SERVAT	ION	DIVI	SIO		BLL API NO	-		
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Signature	Bas	char	n/ROC	Printed Name C. P	. BAS	HAM		Title	DRLG. O	PN'S. MC	R. Da	11-20-92

Hobbs frea Manage

Submit to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-105 Revised 1-1-19

State Lease - 6 copies Fee Lease - 5 copies DISTRICT

Signature

OIL CONSERVATION DIVISION

WELL API NO.	
30-025-31703	
C Indicate Two of I age	

P.O. Box 1980, Hobbs, NM 82240. P.O. Box 2088 Santa Fe, New Mexico 87504-2088 DISTRICT II P.O. Drawer DD, Artesia, NM 88210 STATE X PEE 6. State Oil & Gas Lease No. B-2706 1000 Rio Brazos Rd., Aziec, NM 87410 WELL COMPLETION OR RECOMPLETION AEPORTAND LOG la. Type of Well: 7. Lease Name or Unit Agreement Name OTHER WATER INJECTION GAS WELL DRY 🗌 OIL WELL VACUUM GLORIETĂ WEST UNIT b. Type of Completion: DAY RESVR OTHER 2. Name of Operator & Well No. TEXACO EXPLORATION & PRODUCTION INC. 9. Pool same or Wildest P. O. Box 3109, Midland, Texas 79702 **VACUUM GLORIETA** 4 Well Location 215 Feet From The SOUTH Line and 2350 Unit Letter N Feet Prom The WEST ·Line Township 17-SOUTH Rame 34-EAST Section 25 NMPM LEA County 12. Date Compl. (Ready to Prod.) 13. Elevations (DF& RKB, RT, GR, etc.) 14. Elev. Casinghead 10. Date Soudded 11. Date T.D. Reached GR-4003', KB-4017' 11-09-92 11-18-92 11-30-92 4003 15. Total Depth 18. Intervals | Rotary Tools
Deliled By 16. Plug Back T.D. 17. If Multiple Compl. How Many Zones? Cable Tools 6300' 6250 0 - 6300" 19. Producing Interval(s), of this completion - Top, Bottom, Name 20. Was Directional Survey Made 6012' - 6170': GLORIETA YES 21. Type Electric and Other Logs Run 22. Was Well Cored GR-DLL-MSFL, GR-CNL-FDC NO CASING RECORD (Report all strings set in well) **CASING SIZE** WEIGHT LB/FT. **DEPTH SET** HOLE SIZE **CEMENTING RECORD** AMOUNT PULLED 8 5/8 24# 1550' 11 650 SX, CIRC, 100 SX 6300' 7 7/8 1900 SX, CIRC. 225 SX 15.5 & 17# 5 1/2 D.V. TOOL @ 5024' 24 LINER RECORD TUBING RECORD SIZE TOP BOTTOM SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SET 2 3/8 5919' 27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. 26. Perforation record (interval, size, and number) 6012 - 19', 6028 - 70', 6150 - 70' W/2 JSPF (138 DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED HOLES) 6012' - 6170' ACID - 5000 GAL 15% NEFE PRODUCTION Production Method (Flowing, gas lift, pumping - Size and type pump) **Date First Production** Well Status (Prod. or Shut-in) SHUT IN Prod'a For Gas - MCF Water - Bbl. Choke Size Gas - Oil Ratio Hours Tested Date of Tost **Test Period** Calculated 24-Hour Rate Oil - BbL Gas - MCP Water - BbL Oil Oravity - API - (Corr.) Flow Tubing Press. Casing Pressure Tost Witnessed By 29. Disposition of Gas (Sold, used for fuel, vented, etc.) JOHN VANCE 30. List Attachments DEVIATION SURVEY 31. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief Printed Name C. P. BASHAM Title DRLG. OPN'S. MGR. Date 12-08-92

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 6008 Order No. R-5530

APPLICATION OF TEXACO INC., FOR A PRESSURE MAINTENANCE PROJECT, LEA COUNTY, NEW MEXICO..

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 17, 1977, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 20th day of September, 1977, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

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- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That by Commission Order No. R-5496 dated August 9, 1977, statutory unitization was approved for the Central Vacuum Unit Area, Lea County, New Mexico.
- (3) That the applicant herein, Texaco Inc., seeks authority to institute a pressure maintenance project on the aforesaid Central Vacuum Unit Area, Vacuum Grayburg-San Andres Pool, Lea County, New Mexico, by the injection of water into the San Andres formation through the 55 wells described on Exhibit A attached to this order.
- (4) That to permit an efficient injection pattern, the unorthodox locations of the 54 new injection wells as reflected on said Exhibit λ should be approved.
- (5) That the applicant further seeks the designation of a project area and the promulgation of special rules and regulations governing said project including special allowable provisions.
- (6) That the project area should consist of those proration units within the boundary of said Central Vacuum Unit upon which is located an injection well and any directly or diagonally offsetting proration unit which contains a producing well.

- (7) That the total project area allowable should be equal to the sum of the basic project area allowable plus the water injection credit allowable, and said total project area allowable should be limited to 80 barrels of oil per day times the number of developed 40-acre proration units in the project area times two.
- (8) That the basic project area allowable should be equal to 80 barrels of oil per day times the number of developed 40-acre proration units in the project area.
- (9) That the water injection credit allowable should be based on the following formula:

and should be calculated as follows:

Water Injection Credit Allowable
$$\frac{W_i - W_p}{BPAA \left[\beta_O + \left(\frac{R_p - R_s}{1000}\right)\beta_g\right]} - 1$$

where W_i = Average daily water injection during previous month, project area

Wp = Average daily water production during previous
 month, project area

BPAA = Basic Project Area Allowable = 80 x number of 40acre tracts in project area

β_O = Oil formation volume factor, reservoir barrels per stock tank barrel, as determined from Exhibit B, for latest available project area reservoir pressure

Rp = Producing gas-oil ratio, cubic feet per barrel,
during previous month, project area

R_s = Solution gas-oil ratio, cubic feet per barrel, as determined from Exhibit B, for latest available project area reservoir pressure

βg = Gas formation volume factor, reservoir barrels per MCF, as determined from Exhibit B, for latest available project area reservoir pressure

In no event should the Water Injection Credit Allowable be less than zero.

-3-Case No. 6008 Order No. R-5530

- (10) That the project area allowable should be produced from the wells within the project area in any proportion provided that any proration unit situated on the boundary of said Central Vacuum Unit which proration unit is not directly or diagonally offset by a San Andres injection well outside the unit should not be permitted to produce in excess of 80 barrels of oil per day.
- (11) That each of the newly drilled injection wells in the project should be equipped with surface casing and production casing set at approximately 350 feet and 4800 feet, respectively, and cemented to the surface.
- (12) That injection should be accomplished through 2 3/8-inch plastic coated tubing installed in a packer which should be set approximately 50 feet above the uppermost perforation in the case of newly drilled wells and at approximately 4376 feet in the one well to be converted to injection.
- (13) That the casing-tubing annulus in each injection well should be filled with an inert fluid and that a pressure gauge or approved leak detection device should be attached to the annulus in order to determine leakage in the casing, tubing, or packer.
- (14) That the injection wells or system should be equipped with a pop-off valve or acceptable substitute which will limit the surface injection pressure to no more than 0.2 pounds per foot of depth to the uppermost perforation unless the Secretary-Director of the Commission should administratively authorize a higher pressure.
- (15) That there are 15 wells, as set out on Exhibit C to this order, which are located within or immediately accept to the boundaries of said Central Vacuum Unit which are completed or plugged in such a manner that will not assure that they will not serve as channels for injected water to migrate from the San Andres formation to other formations or to the surface.
- (16) That to prevent migration of injected water from the San Andres formation, formation injection pressure at wells offsetting the wells identified on said Exhibit C should be limited to hydrostatic pressure until such time as the wells on said Exhibit C have been repaired or it shall otherwise be demonstrated to the satisfaction of the Secretary-Director of the Commission that the same will not serve as avenues for escape of such waters.

-4-Case No. 6008 Order No. R-5530

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- (17) That the wells within the project should be equipped to facilitate periodic testing of the annular space between strings of production and surface casing.
- (18) That the operator should take all other steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface from injection, producing, or plugged and abandoned wells.
- (19) That approval of the subject application should result in the recovery of additional volumes of oil from the Central Vacuum Unit Area, thereby preventing waste.
 - (20) That the application should be approved.

IT IS THEREFORE ORDERED:

- (1) That the applicant, Texaco Inc., is hereby authorized to institute a pressure maintenance project in the Central Vacuum Unit Area, Vacuum-Grayburg-San Andres Pool, Lea County, New Mexico, by the injection of water into 55 wells at orthodox and unorthodox locations as set out on Exhibit A attached to this order and by reference made a part hereof.
- (2) That each of the newly drilled injection wells shall be equipped with surface casing and production casing set at approximately 350 feet and 4800 feet, respectively, and cemented to the surface.
- (3) That injection shall be accomplished through 2 3/8-inch plastic coated tubing installed in a packer set approximately 50 feet above the uppermost perforation in the case of newly drilled wells and at approximately 4376 feet in the one existing well converted to injection.
- (4) That the casing-tubing annulus in each injection well shall be filled with an inert fluid and a pressure gauge or approved leak detection device shall be attached to the annulus in order to determine leakage in the casing, tubing, or packer.
- (5) That the injection wells or system shall be equipped with a pop-off valve or acceptable substitute which will limit the surface injection pressure to no more than 0.2 pounds per foot of depth to the uppermost perforations.

-5-Case No. 6008 Order No. R-5530

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- (6) That the Secretary-Director of the Commission may administratively authorize a pressure limitation in excess of that set out in Order No. (5) above upon a showing by the operator that such higher pressure will not result in fracturing of the confining strata.
- (7) That the applicant shall not inject water into the formation of any well located on a 40-acre tract that has on it, or that directly or diagonally offsets a tract that has on it, one of the 15 wells identified on Exhibit C attached hereto and by reference made a part hereof, at a pressure greater than hydrostatic until such well has been repaired or it has been shown to the satisfaction of the Secretary-Director of the Commission that such well will not serve as an avenue of escape for waters injected into the San Andres formation and he has authorized a higher than hydrostatic pressure.
- (8) That the wells within the project area shall be equipped with risers or in another acceptable manner such as to facilitate the periodic testing of the bradenhead for pressure or fluid production.
- (9) That the operator shall immediately notify the supervisor of the Commission district office at Hobbs of the failure of the tubing or packer in any of said injection wells, the leakage of water or oil from or around any producing well, the leakage of water or oil from or around any plugged and abandoned well within the project area, or any other evidence of fluid migration from the injection zone, and shall take such timely steps as may be necessary or required to correct such failure or leakage.
- (10) That the pressure maintenance project shall be designated the Texaco Inc. Central Vacuum Unit Pressure Maintenance Project.
- (11) That the project area of said Central Vacuum Unit Pressure Maintenance Project shall consist of those proration units within the boundary of the Central Vacuum Unit upon which is located an injection well and any directly or diagonally offsetting proration unit which contains a producing well.
- (12) That those wells within the Central Vacuum Unit Area that are not included within the project area as defined above shall be prorated in accordance with the Rules and Regulations of the Commission.

-6-Case No. 6008 Order No. R-5530

- (13) That the project area shall receive a project area allowable, and said project area allowable shall be the sum of the basic project area allowable plus the water injection credit allowable, and shall be limited to 80 barrels of oil per day times the number of developed 40-acre project area times two.
- (14) That the basic project area allowable shall be equal to 80 barrels of oil per day times the number of developed 40-acre proration units in the project area.
- (15) That the water injection credit allowable shall be based on the following formula:

and should be calculated as follows:

where:

W_i = Average daily water injection during previous month, barrels per day, project area only

Wp = Average daily water produced during previous month.

barrels per day, project area only

BPAA = Basic Project Area Allowable = 80 x number of 40acre tracts in project area

β_O = Oil formation volume factor, reservoir barrels per stock tank barrel, as determined from Exhibit B (attached hereto and by reference made a part hereof), for the latest available project area reservoir pressure

Rp = Producing gas-oil ratio, cubic feet per barrel,
 for previous month, project area only

R_S = Solution gas-oil ratio, cubic feet per barrel, as determined from Exhibit B, for the latest available project area reservoir pressure

βg = Gas formation volume factor, reservoir barrels per MCF, as determined from Exhibit B, for latest available project area reservoir pressure

In no event shall the Water Injection Credit Allowable be less than zero, i.e., negative numbers derived from application of the above formula shall be ignored.

-7-Case No. 6008 Order No. R-5530

- (13) That the average project area reservoir pressure shall be determined prior to the commencement of injection of water into the reservoir and at least annually thereafter. The average project area pressure shall be the average of the pressures in at least ten representative wells selected by the operator of the unit and the Supervisor of the Hobbs District Office of the Commission at an agreed upon datum.
- (14) That the project area allowable may be produced from any well within the project area in any proportion provided, however, that any proration unit situated on the boundary of the Central Vacuum Unit which proration unit is not directly or diagonally offset by a San Andres injection well outside said Central Vacuum Unit shall not be permitted to produce in excess of 80 barrels of oil per day.
- (15) That each month the project operator shall submit to the Commission a Pressure Maintenance Project Operator's Report, on a form prescribed by the Commission, outlining thereon the data required, and requesting allowables for each of the several wells in the Project as well as the total project area allowable. The aforesaid Pressure Maintenance Project Operator's Report shall be filed in lieu of Form C-120 for the Project.
- (16) That the Commission shall, upon review of the report and after any adjustments deemed necessary, calculate the allowable for the wells in the Project for the next succeeding month in accordance with these rules. The sum of the allowables so calculated shall be assigned to the Project and, except as provided under Order (14) above, may be produced from the wells in the Project in any proportion.
- (17) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

SEAL

dr/

EMERY CARNOLD Monwer

OE D. RAMEY, Member & Secretary

CENTRAL VACUUM UNIT Authorized Injection Wells

54 new wells to be drilled at the following locations:

WELL NO.	LOCATION	SECTION	TOWNSHIP SOUTH	RANGE EAST
5	1310' FNL & 1310' FWL	30	17	35
6	1310' FNL & 2630' FWL	30	17	35
7	1310' FNL & 1330' FEL	30 ·	17	35
13	2630' FNL & 10' FEL	25	17	34
14	2630 FNL & 1310 FWL	30	17	35
15	2630 FNL & 2630 FWL	30	17	35
16	2630' FNL & 1330' FEL	30	17	35
25	1330' FSL & 1310' FWL	25	17 .	34
26 27	1330' FSL & 2630' FWL 1330' FSL & 1330' FEL	25	17	34
28	1330' FSL & 1330' FEL 1330' FEL	25 25	17	34
29	1330 FSL & 1310' FWL	25 30	17 17	34
30	1330' FSL & 2630' FWL	30	17	35 35
31	1330' FSL & 1330' FEL	30	17	35 35
40	10' FSL & 1310' FWL	25 .	17	34
41	10' FSL & 2630' FWL	25	17	34
42	10' FSL & 1330' FEL	25	17	34
43	10' FSL & 10' FEL	25	17	34
44	10' FSL & 1310' FWL	30	17	35
45	10' FSL & 2630' FWL	30	17	35
46	10' FSL & 1330' FEL	30	17 '	35
55	1310' FNL & 1319' FWL.	36	17	34
56	1310' FNL & 2630' FWL	36	17	34
57 · 58	1310' FNL & 1330' FEL 1310' FNL & 10' FEL	36	17	34
59 .	1310' FNL & 10' FEL 1310' FWL	36	17	34
60	1310' FNL & 2630' FWL	31 31	17	35
61	1310' FNL & 1330' FEL	31	17 17	35 35
70	2630' FNL & 1310' FWL	36	17	33 34
71	2630' FNL & 2630' FWL	36	17	34
72	2630 FNL & 1330 FEL	36	17	34
73	2630' FNL & 10' FEL	36	17	34
74	2630' FNL & 1310' FWL	31	17	35
81	1330' FSL & 1310' FWL	36	17	34
82	1330' FSL & 2630' FWL	36	17	34
83	1330' FSL & 1330' FEL	36	17	34
84	1330' FSL & 10' FEL	36	17	34
85 0.3	1330' FSL & 1310' FWL 10' FSL & 1310' FWL	31	17	35
93 94	_	31	17	35
99	10' FSL & 2630' FWL 1310' FWL	31	17	35
100	1310 FNL & 2630' FNL	6 6	18 18	35 35
101	1310' FNL & 1336' FEL	6	18	35 35
106	2520' FNL & 1040' FWL	6	18	35 35

Case No. 6008 Order No. R-5530 Exhibit "A"

54 new wells to be drilled at the following locations continued

WE	LL NO.		LOC	TTK	<u>on</u>		SI	CTION	TOW:	ISHIP UTH	RANC EAST	
	107	2450'	FNL	€ 2	630	FWL		6	18	3	35	
	108	2630'	FNL	£ 1	480	FEL		6	18	3	35	
	113	1620'	FSL	& 1	1004	FWL		6	18	3	35	
	114	1460'	FSL	& 2	100	FWL		. 6	. 18	3	35	
	115	1600'	FSL	£ 1	500	FEL		6	18	8	35	
	120	60'	FNL	£ 1	100	FWL		7	18	8	35	
	121	400	FSL	& 2	380	FWL		6	18	В	35	
	122	3501	FSL	& 1	560	FEL		6.	18	В	35	
	128	1310'	FNL	٤	200	FEL		12	. 18	8	34	
	129	1310'	FNL	& 2	630	FWL		7	10	В	35	
One	existing	well,	Sun	<u>0i</u> 1	Com	pany	Lea	State	"B" I	No. 7	loca	ted

One existing well, Sun Oil Company Lea State "B" No. 7 located as follows:

131 2119' FNL & 918' FWL 7 18 35

Case No. 6008 Order No. R-5530 Exhibit "A"

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Order No. R:
Exhibit ") i ŧ i ı RI i Ĭ 1 1 i 1 ł |.. | IGOO 'n í 1 1 : 1 1 ٠ . ı 1 400 i : . 1 . 6008 R-5530 1 1 1 1 T - 1 : 1 ! 1 ſ CAS-OIL HATIO - CU. FT. noL ŧ 1 1 1 1 i 1 ı 1 1 ! 1 ! 1

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OPERATOR	LEASE .	NO.	<u>01.</u>	SEC.	1116.	RGE.
Continental Oil Co.	State H 35	9	H	35	17S	34E .
Getty Oil Company	State AN	8	P	7	185	35E
Getty Oil Company	State AN	9	I	7	185	35E
Getty Oil Company	State BA	6.	D	36	175	34E
Marathon Oil Co.	Warn State A/c 2	6	ĸ	6	185	35E
Marathon Oil Co.	Warn State A/c 2	10	ĸ	6	185	35E
Mobil Oil Corp.	Bridges State	11	F	25	17S	34E
Mobil Oil Corp.	State DD	1	D	31	175	35E
Phillips Petroleum Co.	Santa Fe	87	L	31	175	35E
Texaco Inc.	New Mexico "AB" State	5	J	6	185	35E
Texaco Inc.	New Mexico ."AE" State	4	F	12	185	34E
Texaco Inc.	New Mexico ."O" State NCT-1	14	J	36	17s	34E
Texaco Inc.	New Mexico "O" State NCT-1	18	н	36	17S	34E
Texaco Inc.	New Mexico "P" State	i	J	7	185	35E
Texaco Inc.	New Mexico "Q" State	4	P	25	175	34E

Case No. 6008 Order No. R-5530 Exhibit "C"

VACUUM-GRAYBURG-SAN ANDRES POOL (Central Vacuum Unit) Lea County, New Mexico

Order No. R-5496, Approving for Statutory Unitization the Central Vacuum Unit, Vacuum-Grayburg-San Andres Pool, Lea County, New Mexico, August 9, 1977.

Application of Texaco Inc. for Statutory Unitization and Pressure Maintenance, Vacuum-Grayburg-San Andres Pool, Lea County, New Mexico.

> CASE NO. 5970 Order No. R-5496

ORDER OF THE COMMISSION

BY THE COMMISSION: This cause came on for hearing at 9 a.m. on June 22, 1977, at Santa Fe, New Mexico, before Examiner Richard L. Stamets.

NOW, on this 9th day of August, 1977, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Texaco Inc., seeks the statutory unitization, pursuant to the "Statutory Unitization Act," Sections 65-14-1 through 65-14-21, NMSA, 1953 Compilation, of 3,046.2 acres, more or less, of State and fee lands, being a portion of the Vacuum-Grayburg-San Andres Pool, Lea County, New Mexico, and approval of the plan of unitization and the proposed operating plan.
- (3) That the proposed unit area would be designated the Central Vacuum Unit Area; that the vertical limits of said unit area would be the subsurface formation commonly known as the Grayburg-San Andres formation identified between the depths of Grayburg-San Andres formation identified between the depths of 3858 feet (plus 144 feet sub-sea) and 4858 feet (minus 856 feet sub-sea) on the Welex Acoustic Velocity Log, run on November 15, 1963, in Texaco's State of New Mexico "O" (NCT-1) Well No. 23, located in the SW/4 SE/4 of Section 36, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, and is to include all subsurface points throughout the Unit area correlative to those identified depths, and that the unit area would comprise the following described lands:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM Section 25: S/2 and SE/4 NE/4 Section 36: All

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM Section 30: All Section 31: N/2, SW/4, and SW/4 SE/4

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM Section 12: N/2 NE/4

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM Section 6: All Section 7: NW/4 and NW/4 NE/4

- (4) That the portion of the Vacuum-Grayburg-San Andres Pool proposed to be included in the aforesaid Central Vacuum Unit Area has been reasonably defined by development.
- (5) That the applicant proposes to institute a pressure maintenance project for the secondary recovery of oil and gas in the proposed unit area.
- (6) That the unitized management, operation and further development of the subject portion of the Vacuum-Grayburg-San Andres Pool, as proposed, is reasonably necessary in order to effectively carry on secondary recovery operations and to substantially increase the ultimate recovery of oil from the pool.
- (7) That the proposed unitized method of operation as applied to the Central Vacuum Unit Area is feasible, will prevent waste, and will result with reasonable probability in the increased recovery of substantially more oil from the pool than would otherwise be recovered.
- (8) That the estimated additional costs of such operations will not exceed the estimated value of the additional oil so recovered plus a reasonable profit.
- (9) That such unitization and adoption of the proposed unitized method of operation will benefit the working interest owners and royalty owners of the oil and gas rights within the Central Vacuum Unit Area.
- (10) That the applicant has made a good faith effort to secure voluntary unitization within the Vacuum Grayburg-San Andres
- (11) That the participation formula contained in the unitization agreement allocates the produced and saved unitized hydrocarbons to the separately owned tracts in the unit area on a fair, reasonable and equitable basis, and protects the correlative rights of all owners of interest within the unit area.
- (12) That applicant's Exhibits Nos. 8 and 9 in this case, being the Unit Agreement and the Unit Operating Agreement should be incorporated by reference into this order.
- (13) That the Statutory Unitization of the Central Vacuum Unit Area, in conformance to the above findings, will prevent waste and protect correlative rights and should be approved.

- IT IS THEREFORE ORDERED:
 (1) That the Central Vacuum Unit Agreement, covering 3,046.2 acres, more or less, of State and fee lands in the Vacuum-Grayburg-San Andres Pool, Lea County, New Mexico, is hereby approved for statutory unitization pursuant to the Statutory Unitization Act, Sections 65-14-1 through 65-14-21, NMSA, 1953 Compilation Compilation.
- (2) That the lands covered by said Central Vacuum Unit Agreement shall be designated the Central Vacuum Unit Area and shall comprise:

TOWNSHIP 17 SOUTH, RANGE 34 EAST, NMPM Section 25: S/2 and SE/4 NE/4 Section 36: All

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM Section 30: All Section 31: N/2, SW/4, and SW/4 SE/4

TOWNSHIP 18 SOUTH, RANGE 34 EAST, NMPM Section 12: N/2 NE/4

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM Section 6: All Section 7: NW/4 and NW/4 NE/4

(VACUUM-GRAYBURG-SAN ANDRES (CENTRAL VACUUM UNIT) POOL - Cont'd.)

- (3) That the vertical limits of the Central Vacuum Unit Area shall be the Grayburg-San Andres formation identified between the depths of 3858 feet (plus 144 feet sub-sea) and 4858 feet (minus 856 feet sub-sea) on the Welex Acoustic Velocity Log, run on November 15, 1963, in Texaco's State of New Mexico "O" (NCT-1) Well No. 23, located in the SW/4 SE/4 of Section 36, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico, and is to include all subsurface points throughout the Unit area correlative to those identified depths.
- (4) That applicant's Exhibit No. 8 in this case, being the Central Vacuum Unit Agreement, is hereby incorporated by reference into this order.
- (5) That applicant's Exhibit No. 9 in this case, being the Central Vacuum Unit Operating Agreement, is hereby incorporated by reference into this order.
- (6) That the Central Vacuum Unit Agreement and the Central Vacuum Unit Operating Agreement provide for unitization and unit operation of the subject portion of the Vacuum-Grayburg-San Andres Pool upon terms and conditions that are fair, reasonable and equitable and include:
- an allocation to the separately owned tracts in the unit area of all the oil and gas that is produced from the unit area and is saved, being the production that is not used in the conduct of operations on the unit area or not unavoidably lost;
- a provision for the credits and charges to be made in the adjustment among the owners in the unit area for their respective investments in wells, tanks, pumps, machinery, materials and equipment contributed to the unit operations;
- a provision governing how the costs of unit operations including capital investments shall be determined and charged to the separately owned tracts and how said costs shall be paid including a provision providing when, how, and by whom the unit production allocated to an owner who does not pay the share of the costs of unit operations charged to such owner, or the interest of such owner, may be sold and the proceeds applied to the payment of such costs;
- a provision for carrying any working interest owner on a limited, carried or net-profits basis, payable out of production, upon such terms and conditions determined by the Commission to be just and reasonable, and allowing an appropriate charge for interest for such service payable out of such owner's share of production, provided that any nonconsenting working interest owner being so carried shall be deemed to have relinquished to the unit operator all of its operating rights and working interest in and to the unit until his share of the costs, service charge and interest are repaid to the unit operator;
- a provision designating the unit operator and providing for the supervision and conduct of the unit operations, including the selection, removal or substitution of an operator from among the working interest owners to conduct the unit operations;
- a provision for a voting procedure for the decision of matters to be decided by the working interest owners in respect to which each working interest owner shall have a voting interest equal to its unit participation; and

the time when the unit operation shall commence and the manner in which, and the circumstances under which, the operations shall terminate and for the settlement of accounts upon such termination;

and are therefore hereby adopted.

- (7) That this order shall not become effective unless and until the appropriate ratification provisions of Section 65-14-8, NMSA, 1953 Compilation, are complied with.
- (8) That if the persons owning the required percentage of interest in the unit area as set out in Section 65-14-8 NMSA, 1953 Compilation, do not approve the plan for unit operations within a period of six months from the date of entry of this order, this order shall cease to be of further force and effect and shall be revoked by the Commission, unless the Commission shall extend the time for ratification for good cause shown.
- (9) That when the persons owning the required percentage of interest in the unit area have approved the plan for unit operations, the interests of all persons in the unit are unitized whether or not such persons have approved the plan of unitization in writing.
- (10) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

CENTRAL VACUUM UNIT OLD WELL NO. - NEW WELL NO. CROSS REFERENCE

OLD WELL NO.	· · · · · · · · · · · · · · · · · · ·	NEW WELL NO.
AMERADA State "VB" State "B 1578" State "B 1578" State "IDE"	1 1 2 1	Central Vacuum Unit 79 10 3 2
BETTIS, BOYLE & STOVALL State "E"	. 1	1
GETTY State "AN" State "BA" State "BA" State "BA" State "BA" State "J"	11 2 & 9-183 3 4 1	123 51 51 54 53 49
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SHELL State "A" State "A" State "A" State "B" State "B" State "D" State "E" Swigart SOHIO	1 2 3 4 1 2 1 1	48 63 62 47 32 17 88 87 21
Numble State Humble State	1 2	127 126
SUN "B Lee" State "B Lee" State	6 7	130 131

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New Mexico "O" State (NCT-1) 3
New Mexico "O" State (NCT-1) 4
New Mexico "O" State (NCT-1) 5
New Mexico "O" State (NCT-1) 6
New Mexico "O" State (NCT-1) 7
New Mexico "O" State (NCT-1) 8
New Mexico "O" State (NCT-1) 9
New Mexico "O" State (NCT-1) 10
New Mexico "Q" State (NCT-1) 10

New Mexico "O" State (NCT-1)

New Mexico "Q" State 1
New Mexico "Q" State 2
New Mexico "Q" State 3
New Mexico "R" State (NCT-1) 1
New Mexico "R" State (NCT-1) 2
New Mexico "R" State (NCT-1) 3

New Mexico "R" State (NCT-4) 1 New Mexico "R" State (NCT-4) 2 New Mexico "T" State (NCT-1) 3

New Mexico "R" State (NCT-1)

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Shell Western E&P Inc. P.O. Box 576 Houston, Texas 77001-0576

Postage	\$.75
Certified Fee	\$.75 2.00
Special Delivery Fee	
Restricted Delivery Fee	
Return Receipt Showing to Whom & Date Delivered	
Return Receipt Showing to Whom, Date, and Addressee's Address	
TOTAL Postage & Fees	\$ 2.75
Postmark or Date	-

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Roy Pearce, Jr. Trust 1717 S. Jackson St. Pecos, Tx 79772

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Conoco, Inc. 10 Desta Drive W. Suite 100 Midland, Texas 79705

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	Certified Fee	7.00
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	Restricted Delivery Fee	
1993	Return Receipt Showing to Whom & Date Delivered	
rch T	Return Receipt Showing to Whom, Date, and Addressee's Address	
J, Mg	TOTAL Postage & Fees	\$ 2.75
PS Form 3800, March 1993	Postmark or Date	
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Mobil Oil Corp. P.O. Box 633 Midland, Texas 79702

	Postage	\$,75
	Certified Fee	\$,75
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1993	Return Receipt Showing to Whom & Date Delivered	
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ž	TOTAL Postage & Fees	\$ 2.75
PS Form 3800, March 1993	Postmark or Date	

AFFIDAVIT OF PUBLICATION

State of New Mexico, County of Lea.

I, Kathi Bearden

General Manager

of the Hobbs Daily News-Sun, a daily newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published once a week in the regular and entire issue of said paper, and not a supplement thereof for a period.

of
two weeks. Beginning with the issue dated
September 29 , 19 94 and ending with the issue dated
October 6 ,19 94
General Manager Sworn and subscribed to before
me this day of
Notary Public.

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937, and payment of fees for said publication has been made.

My Commission expires

March 15; 1997

(Seal)

LEGAL NOTICE September 29, October 6, 1994

Notice is hereby given of the application of Texaco Exploration & Production Inc., Attention: Terry L. Frazier, Area Manager, P.O. Box 730, Hobbs, New Mexico, 88240, Telephone (505) 393-7191, to the New Mexico Oil Conservation Commission, Energy and Minerals Department, for approval to convert one producing well to water injection for the purpose of pressure maintenance.

Unit Name: Central Vacuum Unit, Lea County, New Mexi-

Conversion Well Number and Location: 223 - Unit Letter K, 1821 FSL & 1330 FWL, Section 25, T14S, R35E

The injection formation is Vacuum Grayburg San Andres at a depth of 4300 feet below the surface of the ground. Expected maximum injection rate is 1500 barrels per day, and expected maximum initial injection pressure is 900 pounds per square inch. Interested parties must file objections or requests for hearing with the Oil Conservation Division, P.O. Box 2088, Santa Fe, New Mexico, 87501, within fifteen (15) days of this publication.

