

American Exploration Company

RECEIVED

MAY 1 6 1989

OIL CONSERVATION DIV.

May 10, 1989

Re: Application for Downhole Commingling of the

Blinebry/Abo/Drinkard Pools

GPS Federal No. 1 Sec. 6, T22S, R38E Lea County, New Mexico

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

Attn: Mr. David Catanach

Gentlemen:

American Exploration Company respectfully requests administrative approval for amending DHC-78 under the provisions of Rule 303-C to downhole commingle the Blinebry/Abo/Drinkard pools in the GPS Federal No.1 Well. This well is presently completed in the Blinebry/Abo Pools and produces 3 BOPD, 0 MCFPD and 7 BWPD. We recently tested the Drinkard for 20 BOPD, 5 MCFPD and 9 BWPD. Producing only the Blinebry/Abo is economically marginal due to the low rates, but commingling the three zones should return the well to profitability.

A summary of information required for commingling is attached. Additionally, American has a 100% interest in this lease and the royalty interests of each zone are common. Based on the information we have gathered, we believe the request to commingle is justified in the interest of conservataion.

If there are any questions, please contact the undersigned as soon as possible.

Very truly yours,

AMERICAN EXPLORATION COMPANY

Marty B. McClanahan

Sr. Production Analyst

MBM:mm Encl.

cc: Mr. J. T. Sexton

New Mexico Conservation Division

P. 0. Box 1980

GPS Federal No.1 Information for Downhole Commingling

- a. Operator: American Exploration Company 2100 RepublicBank Center Houston, Texas 77002
- b. Lease, Well Location and Pools: GPS Federal No. 1 1980' FEL & 660' FSL of Sec. 6, T22S, R38E Lea County, New Mexico Blinebry/Abo/Drinkard Pools
- c. Acreage Dedication (40 acres) Form C-102 is attached. Offset operators are listed on schedule attached.
- d. 24 hour productivity test Form C-116 attached.
- e. Commingling Computations Attached.
- f. Allocation of Production based on latest production tests.

	<u>0 i 1</u>	<u>G a s</u>	Water
Blinebry	11%	0 %	27%
Abo	2 %	0 %	23%
Drinkard	87%	100%	50%

- g. Notification to Offset Operators.
 A copy of the notice sent to offset operators.
- h. A complete resume of the well's completion history.
- i. Fluid Compatibility See attached water analysis.



American Exploration Company

May 11, 1989

Re: Notification of Intent to

Commingle the Blinebry/

Drinkard Pools GPS Federal No. 1

1980' FEL & 660' FSL of

Sec. 6, T22S, R38E Lea County, New Mexico

OFFSET OPERATORS
GPS FEDERAL NO. 1

Gentlemen:

In accordance with New Mexico Oil Conservation Division regulations, you are hereby notified of American Exploration Company's application to downhole commingle production from the Blinebry/Drinkard pools in the GPS Federal No. 1 Lease.

Very truly yours,

AMERICAN EXPLORATION COMPANY

Marty B. McClanahan Sr. Production Analyst

MBM:mm

LIST OF OFFSET OWNERS GPS FEDERAL NO. 1 LEASE

SE/4 SW/4-6, T22S, R38E

D.M. Royalties, Ltd. (15% N/2 SE/4, SE/4 SE/4-6 P. O. Box 1716 Fort Worth, Texas 76101

Exxon Corp. (All-NE/4 NE/4-7)
P. O. Box 1600
Midland, Texas 79701

Zachary Oil Operating (SE/4-6) 1212 Commerce Building Fort Worth, Texas 76102

Neville G. Penrose Estate (85% N/2 SE/4, SE/4 SE/4-6) 201 Main Street Fort Worth, Texas 76102

Bureau of Land Management P. O. Box 1778 Carlsbad, New Mexico 88220

MEMORANDUM

TO WHOM IT MAY CONCERN:

Pursuant to Rule 303 (C) (2) (i) of the rules and regulations of the State of New Mexico for downhole commingling, the following formula should apply as to the production allocation for the new zone added to the following well:

GPS Federal No. 1 (NM 029029) located in Unit C; 1980' FEL and 660' FSL of Section 6, T22S, R38E, Lea County, New Mexico.

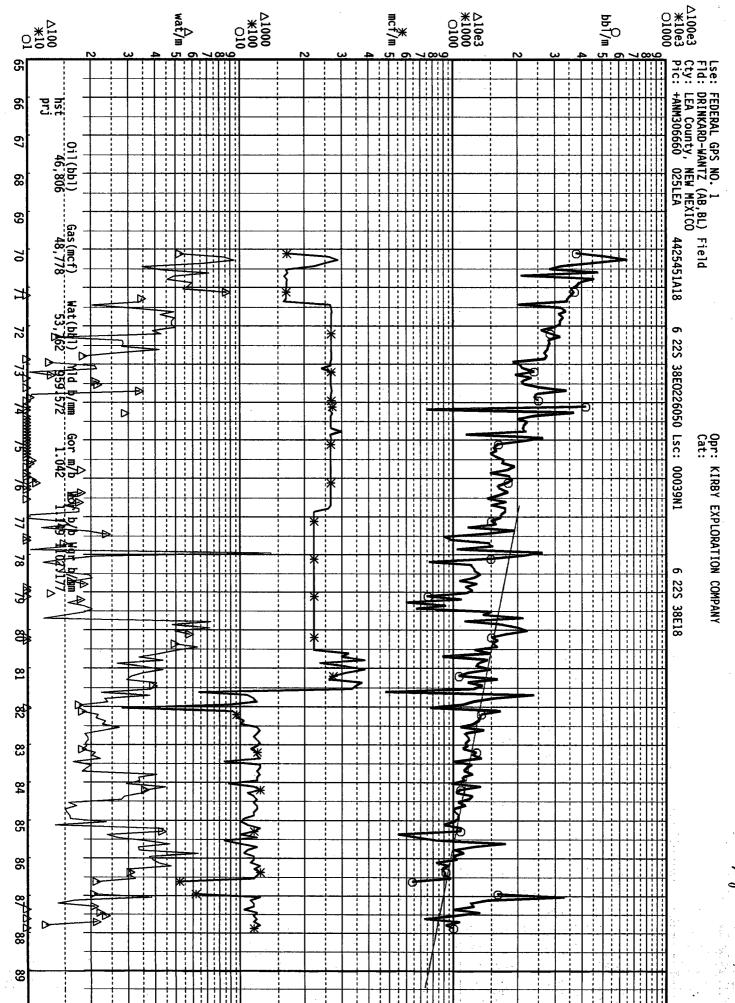
Prior Production (Before Recent Workover)

°100 BOPM @ 10% Decline

$$\frac{(100-30)}{-1}$$
 = °8,000 B0 3.3 BOPD (IP)
1.0 BOPD (E.L.)
10% decline

Current Production (After Workover)

30 MBO - 8MBO = 22 MBO for new zone (Drinkard)



Decline = 10%/yr.

HISTORICAL PRODUCTION DATA

Property No.: 1943709 1 2 Lease Name: FEDERAL GPS #1

Мо	Yr	Oil (Bbls)	Cumulative Oil	Gas (MCF)	Cumulative Gas	GOR (SCF/Bbl)
5	88	10	10	58	58	580
6	88	10	20	10	68	100
7	88	10	30	10	78	100

HISTORICAL PRODUCTION DATA

Property No.: 1943709 1 0 Lease Name: FEDERAL GPS #1

Мо	Yr	Oil (Bbls)	Cumulative Oil	Gas (MCF)	Cumulative Gas	GOR (SCF/Bbl)
5	88	93	93	58	58	62
6	88	88	181	94	152	106
7	88	88	269	94	246	106

Submit 2 copies to Appropriate
District Office.
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240
DISTRICT II
P.O. Drawer DD, Artesia, NM 88210
DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-116 Revised 1/1/89

OIL CONSERVATION DIVISION

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

GAS - OIL RATIO TEST

Operator						Pool	Ì					S	County			
American Exploration Company	nv .					rinkard							EB .			
Address	4						¥	TYPE OF]			3		·	
2100 RepublicBank Center, Houston,	Housto	p. T	Texas 77002	7700	2		TES	TEST - (X)	Scheduled		δ	Completion	×	Ş	Special	
	WELL		LOCATION	N N		DATE OF	TUS.	CEOKE	180	DAILY	HENGTH.	PR	PROD. DURING TEST	IG TEST		GAS - OIL
LEASE NAME	Š	c	ဖ	4	20	TEST	STAT		PRESS.	ALLOW- ABLE	TEST HOURS	WATER BBLS.	GRAV. OIL	OIL BBLS.	GAS M.C.F.	RATIO CU.FT/BBL.
GPS Federal	H	0	6	22	38	2/05/89	ਚ	2"	18	M	24	9	39	20	υı	2500
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Instructions:

order that well can be assigned increased allowables when authorized by the Division. which well is located by more than 25 percent. Operator is encouraged to take advantage of this 25 percent tolerance in During gas-oil ratio test, each well shall be produced at a rate not exceeding the top unit allowable for the pool in

Specific gravity base will be 0.60. Gas volumes must be reported in MCF measured at a pressure base of 15.025 psia and a temperature of 60° F.

Report casing pressure in lieu of tubing pressure for any well producing through casing.

(See Rule 301, Rule 1116 & appropriate pool rules.)

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

Signature

Marty B. McClanahan, Sr. Production Analyst Printed name and title

4/11/89

713-237-0800

Date

Telephone No.

Submit to Appropriate
District Office
State Lease - 4 copies
Fee Lease - 3 copies

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I P.O. Box 1980, Hobbs, NM 88240 DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

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Operator								Lea	96							Well N	Vo.	
American	Exp.	lora [.]	tion	Contr	oany			I	edera	al G	PS					1		
Unit Letter	Section			Town				Ran			~~				County			
0	6			22	95				38E									
Actual Footage Loca	_	Well							201				NM	II.M				
1980			_	4														
Ground level Elev.	feet fi	rom the		ast .	•!		line and		660				feet f	ЮШ	the Sout		line	
				g Forma	HOE			Poo	1							Demo	nted Acre	age:
3358.5			rinka					Ш.	-	Dri	nkar	<u>d</u>				40)	Acres
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Submit 5 Copies
Apprepriase District Office
DISTRICT I
P.O. Box 1980, Hobbs, NM 88240

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-104
Revised 1-1-89
See Instructions
at Bottom of Page

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT III 1000 Rio Brazos Rd., Aziec, NM 87410

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

REQUEST FOR ALLOWABLE AND AUTHORIZATION

Operator		OTRA	NSP	ORT OIL	AND NA	TURAL G		A DV A I				
American Exploration	Compan	y			-		Well	API No.				
Address 2100 RepublicBank Ce			n. Те	exas 77	002							
Reason(s) for Filing (Check proper box)		<u> </u>	,			et (Please expl	ain)					
New Weii		Change in	Transpo	eter of:		-104 fil	od to a	dd Drinka	m +0	+he		
Recompletion	Oil		Dry Ga		Form C-104 filed to add Drinkard to the Blinebry-Wantz Abo							
Change in Operator	Casinghead	Gas 🗍	Conden		DITHED.	ry-warrez	, AU					
If change of operator give name and address of previous operator												
II. DESCRIPTION OF WELL	ANDIEA	CE										
Lease Name		Well No.	Pool N	ame Includi	ng Formation		Kind	of Lease	1 1	ease No.		
GPS Federal		1		Drinkar	-			Federal or Fee	1 -			
Location			1 <u></u>	TITIVAL	.9		<u>-</u>	F'ederal	I NIV	029029		
Unit Letter0	:198	0	. Feet Fr	om The _E	astLine	and <u>660</u>	Fe	et From The _S	outh	Line		
Section 6 Township	, 22S		Range	3 8 E	, NI	ирм,	Lea			County		
III. DESIGNATION OF TRANS				D NATU								
Name of Authorized Transporter of Oil Phillips Petroleum C		or Condez	sate					copy of this form , Texas 7		int)		
Name of Authorized Transporter of Casing			or Dry	Address (Give	address to w	hich approved	copy of this form	t is to be se	int)			
If well produces oil or liquids,	Unit	Sec.	Twp.	Is gas actually	connected?	When	?					
give location of tanks.	i											
If this production is commingled with that f	rom any othe	r lease or	pool, giv	e commingl	ing order numb	er:						
IV. COMPLETION DATA												
Designate Type of Completion -	· (X)	Oil Well	1	New Well	Workover ×	Deepen	Plug Back Sa	me Res'v	Diff Res'v X			
Date Spudded	Date Compi	. Ready to	Prod.	Total Depth			P.B.T.D.					
9/18/69	11/20	/68		7375	1		73351					
Elevations (DF, RKB, RT, GR, etc.)	Name of Pro		rmation	Top Oil/Gas P	² ay		Tubing Depth					
3355.8	ł .	ıkard		6546			6311					
Perforations							Depth Casing S	hoe				
6546-676	9						7375					
0320 070		JBING.	CASI	CEMENTIN	NG RECOR	D						
HOLE SIZE		JBING S		DEPTH SET		SA	CKS CEMI	ENT				
13-3/4	85	0		400								
	13-3/4 10-3/4 9-7/8 7-5/8							800				
					737							
V. TEST DATA AND REQUEST FOR ALLOWABLE												
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OIL WELL (Test must be after re			of load o	oil and must					<u> 141 24 MORE</u>	rs.)		
Date First New Oil Run 10 Tank	Date of Test 2-05/			Producing Method (Flow, pump, gas lift, etc.) PURID								
Length of Test	Tubing Pres		Casing Pressu	re	···	Choke Size						
24	18					Gas- MCF						
Actual Prod. During Test	Oil - Bbls.		Water - Bbis.			5						
20	L	20		9	9 5							
GAS WELL									-			
Actual Prod. Test - MCF/D	Bbls. Condens	nate/MMCF		Gravity of Condensate								
				- 1 - 1 - 1								
Testing Method (pitot, back pr.)	Tubing Pres	aure (Shut	-in)		Casing Pressu	re (Shut-in)		Choke Size				
VI. OPERATOR CERTIFICA	ATE OF	COMP	LIAN	CE			10551	A TION: 5				
I hereby certify that the rules and regula					(DIL CON	1SEHV	ATION D	IVISIC	N		
Division have been complied with and t	hat the inform	nation give										
is true and complete to the best of my k	nowledge and	i belief.		_	Date	Approve	d					
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Signature Narty B. McClanahan	Sr.	Prod	uctio	on Anal	By_		•		<u> </u>			
Printed Name			Title		Title_							
2/20/89	71	.3-237										
Date		Tele	phone N	o. 	11							

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
- 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

Allocation of production

Allocaturas per Dole-78 Bluby - 10%

Abo 90%. Current And. 3BOD ONCE/6 7BUPD

. 3 Both - Blinky

27 3010 - Also.

Demkord Prod-

20 BORD SIMPE GBURD

Total Alscotu

Cos Also Durkins 12.0%

100% 87.%