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γφρισαίο	•	C-Down [PC-Po	hole (ol Cor	mmingling] [nal Drilling CTB-Le OLS-Off-Le] [SD-S ase Com ease Stor	imultane mingling rage] [C	ous Dedi] [PLC-F)LM-Off-L	cation] Pool/Leas Lease Me	se Commingling] easurement]
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		Check [B]		Only for [B] or mingling - Sto HC □ cm	rage - Mea		nt PC	□ ora	i@ii s □c	DERVARION DE ASSOCIA
		[C]		tion - Disposa /FX		re Increas SWD	se - Enha	anced Oil	_	•
[2]	NOTIF	ICATIO	ON R	EQUIRED Working, Ro				•		☑ Does Not Apply
		[B]		Offset Opera	ators, Leas	seholders	or Surfa	ice Owne	er	
		[C]		Application i	f One Whi	ch Requi	res Publi	shed Leg	gal Notice	•
		[D]		Notification a						
		[E]		For all of the	above, Pi	roof of No	otification	or Publi	cation is	Attached, and/or,
		[F]		Waivers are	Attached					
INFORMATION / DATA SUBMITTED IS COMPLETE - Statement of Understanding I hereby certify that I, or personnel under my supervision, have read and complied with all applicable Rules and Regulations of the Oil Conservation Division. Further, I assert that the attached application for administrative approval is accurate and complete to the best of my knowledge and where applicable, verify that all interest (WI, RI, ORRI) is common. I further verify that all applicable API Numbers are included. I understand that any omission of data, information or notification is cause to have the application package returned with no action taken.										
Lee R. Wi		<u> </u>	1	Signature		Eng		Manage	er	9/16/99 Date
.	,,. =		[//	2.3		110	-			Date





WWW.APACHECORP.COM [713] 296-6000

September 16, 1999

Attn: David Catanach State of New Mexico – Oil Conservation Division 2040 S. Pacheco

Santa Fe. New Mexico 87505

Re: Application to Amend Downhole Commingle Order R-7537

Southland Royalty A No. 1

Blinebry Oil and Gas (Oil) Pool (06660) Tubb Oil and Gas (Oil) Pool (60240)

Drinkard Pool (19190) Wantz Abo Pool (62700) Lea County, New Mexico

Apache Corporation would like to request administrative approval to amend Downhole Commingle Order No. R-7537, currently consisting of the Blinebry, Tubb and Drinkard pools, to include the Wantz Abo pool in the referenced well.

To support this request we submit the following:

- 1) New Mexico OCD Form C-107A
- 2) New Mexico OCD Form C-102 for Blinebry Oil and Gas Pool
- 3) New Mexico OCD Form C-102 for Tubb Oil and Gas Pool
- 4) New Mexico OCD Form C-102 for Drinkard Pool
- 5) New Mexico OCD Form C-102 for Wantz Abo Pool

- 6) Production curves for the referenced well in the Blinebry-Tubb-Drinkard pools combined and the Wantz Abo pool
- 7) Explanation of method for determining Allocation formula
- 8) Apache Corporation operates all wells within a one-half mile radius of the Southland Royalty A No. 1
- 9) Map of location with one-half mile radius marked
- 10) Well Bore Diagrams of current completion and proposed completion

If you have any questions or require additional information regarding this application, please contact me at 713-296-6338. Thank you.

Sincerely,

APACHE CORPORATION

Debra J. Anderson

Sr. Engineering Technician

Attachments

cc: New Mexico Oil Conservation Division

District I

1625 N. French Drive

Hobbs, New Mexico 88240

1625 N. French Drive, Hobbs, NM 88240

Debra J. Anderson

TYPE OR PRINT NAME

DISTRICT II

P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

State of New Mexico Energy, Minerals and Natural Resources Department OIL CONSERVATION DIVISION

Form	C-107A
New	3-12-96

APPROVAL PROCESS:

P.O. Drawer DD, Artesia, NM 88210 DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410		. Pacheco . Pach	☑ Administrative ☐ Hearing EXISTING WELLBORE ☑ Yes ☐ No		
	APPLICATION FOR DOV	·			
Apache Corporation	2000 Post Oak Blvo	d., Suite 100 - Rm 365A, Houston, Texas	77056-4400		
Operator	Address	and the first three series in the series in			
Southland Royalty A	1 G / 9 / 21S / 37E		Lea		
Lease Well No.	Unit LtrSec-Twp-Rg	gn	County		
OGRID NO. 000873 Property Code	e 23112 API No.	Spacing Unit Lease Type Federal 30-025-06442	es: (one or more) State		
The following facts are submitted in	Upper	Intermediate	Lower		
support of downhole commingling:	Zone	Zones	Zone		
1. Pool Name and					
Pool Code 2. Top and Bottom of Pay	DHC Order R7537- See Attachment A		Wantz Abo (62700)		
Section (Perforations)	5664 - 6660		6822 - 6843		
3. Type of production					
(Oil or Gas)	OII		Gas		
4. Method of Production	A shift of the Little		Flaining		
(Flowing or Artificial Lift) 5. Bottomhole Pressure	Artificial Lift a. (Current)	a.	Flowing a.		
Oil Zones - Artifical Lift:	a. (Garront)	(**	4		
Estimated Current	600				
Gas & Oil - Flowing:					
Measured Current All Gas Zones:	b. (Original)	b.	b.		
Estimated or Measured Original			2925		
6. Oil Gravity (°API) or					
Gas BTU Content	36.3		1000		
Producing or Shut-In? Production Marginal? (Yes or No)	Producing Yes	<u> </u>	Producing Yes		
of Shut-In, give date and oil/gas/	Date:	Date:	Date:		
water rates of last production	Rates:	Rates:	Rates:		
Note: For new zones with no					
production history, applicant shall be required to attach production					
estimates and supporting data	1	\			
o If Producing, give date and oil/gas/	Date: 8/31/99	Date:	Date: 8/31/99		
water rates of recent test	Rates: 7 x 68 x 1	Rates:	Rates: 0 x 127 x 0		
(within 80 days) 8. Fixed Percentage Allocation	Oil: Gas:	Oil: Gas:	Oil: Gas:		
Formula - % for each zone	100% 34%	l control of the cont	0% 66%		
10. Are all working, overriding and royalty int if not, have all working, overriding and ro Have all offset operators been given writing. Will cross-flow occur? 11. Will cross-flow occur? 12. Are all produced fluids from all commingler. 13. Will the value of production be decrease. 14. If this well is on or communitized with standard bureau of Land Management has been in the standard bureau. 15. NMOCD Reference Cases for Rule 303(€). 16. ATTACHMENTS: C-102 for each zone to be a Production curve for each a formula for the standard bureau.	and / or explaining method and providing rate rests identical in all commingled zones? yalty interests been notified by certified mailten notice of the proposed downhole commin No If yes, are fluids compatible, will the elalocation formula be reliable. ed zones compatible with each other? diby commingling? Yes te or federal lands, either the Commissioner notified in writing of this application. C) Exceptions:	ate projections or other required data. Progling? e formations be undamaged, will any cross- Yes	tach explanation)		
 Data to support allocation r 	nethod or formula.				
 Notification list of all offset 	operators.				
 Notification list of working, 	overriding, and royalty interests for uncomm	on interest cases.			
 Any additional statements, 	data, or documents required to support com	imingling.			
I hereby certify that the information above is t	rue and complete to the heat of my knowled-	ge and helief			
Thoroby destring that the information above is t	The and complete to the best of my knowled	ye anu Dellet.			
SIGNATURE CON 1	JULIUM TITLE	Sr. Engineering Technician	DATE 9/16/99		

TELEPHONE NO.

713-296-6338

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 87505

Form C-102 Revised October 18, 1994 Instruction on Back Submit to Appropriate District Office

Certificate Number

State Lease - 4 Copies Fee Lease - 3 Copies

District II PO Drawer DD, Artesia, NM 88210

District III

District III 1000 Rio Brazo	s Rd., Aztec	, NM 87410									MENDED REPORT
District IV 2040 South Pac	heco, Santa	Fe, NM 8750	05	WFII	LOCA	TION AN	ND ACREAGE	DEDI	CATION	, J PLAT	
			² Poo	ol Code 3660	<u> </u>	ID ACKEAGE		³ Poo	l Name and Gas (Oi	D	
⁴ Proper	rty Code 112		<u> </u>		-		erty Name I Royalty A				⁶ Well Number
⁷ OGR						⁸ Opera	ator Name Corporation	···			9 Elevation 3488
							ace Location		·		0.00
UL or Lot No.	Section	Township	Range	Lot Idn	Fee	et from the	North/South line	Feet	from the	East/West line	County
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				11]	Botton	Hole Lo	cation If Differe	ent Fro	m Surfa	ce	
UL or Lot No.	Section	Township	Range	Lot Idn	Fe	et from the	North/South line	Feet	from the	East/West line	County
¹² Dedicated A	cres 13 Joint	or Infill 14	Consolidati	on Code 14	Order No	0.					•
	LOWAB	LE WILL I	BE ASSIC	NED TO	THIS	COMPLET	ON UNTIL ALL	INTER	ESTS HAY	VE BEEN CO	NSOLIDATED
							EEN APPROVED				
16									17 OPEI	ATOR CER	RTIFICATION
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		1		}			4,			Debra J.	Anderson
		1		3			1 980'		Title	Sr. Engineer	ing Technician
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		<u> </u>		3			Ě		18 SURY	VEYOR CE	RTIFICATION
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		!					1			<u>.</u>	
		1					1		Date Sur	veyed	
		i					l		Signature	e and Seal of Profe	essional Surveyor
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State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised October 18, 1994 Instruction on Back

Submit to Appropriate District Office State Lease - 4 Copies

District II PO Drawer DD, Artesia, NM 88210

District III 1000 Rio Brazos Rd., Aztec, NM 87410 OIL CONSERVATION DIVISION 2040 S. Pacheco Santa Fe, New Mexico 87505

AMENDED REPORT

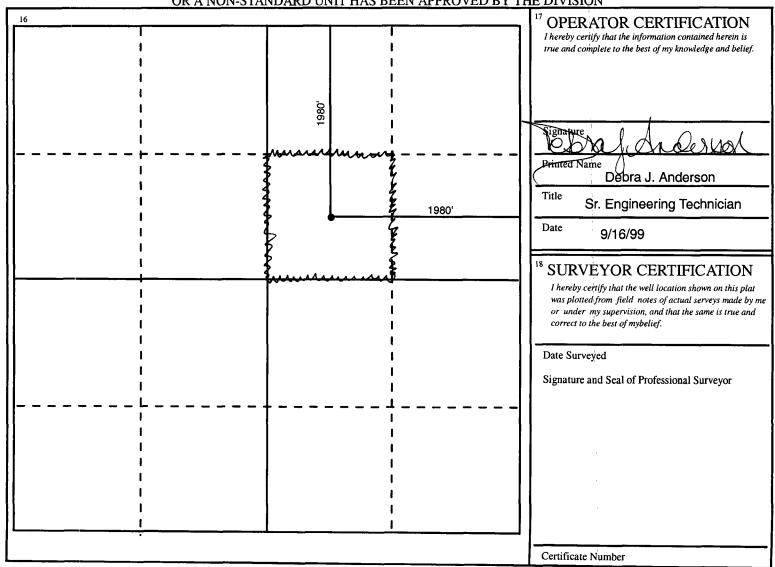
Fee Lease - 3 Copies

12 Dedicated Acres 13 Joint or Infill

District IV 2040 South Pacl	C	C. NIM 975	0.5					: !	
2040 South Paci	ieco, Santa	re, INIVI 873	J.S.	WELL L	<u>OCATION AN</u>	ID ACREAGE	<u>DEDICATION</u>	V PLAT	
¹ API Number 30-025-06442				² Pool 9	_	³ Pool Name Tubb Oil and Gas (Oil)			
4 Property Code 5 Property Name 23112 Southland Royalty A									⁶ Well Number
7 OGRID No. 8 Operator Name Apache Corporation								⁹ Elevation 3488	
					10 Surfa	ace Location			
UL or Lot No.	Section 9	Township 21S	Range 37E	Lot Idn	Feet from the 1980	North/South line North	Feet from the 1980	East/West line East	County Lea
	11 Bottom Hole Location If Different From Surface								
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

14 Consolidation Code 14 Order No.



State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 87505 Form C-102 Revised October 18, 1994

Instruction on Back Submit to Appropriate District Office

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AMENDED REPORT

⁹ Elevation

PO Drawer DD, Artesia, NM 88210

District II

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

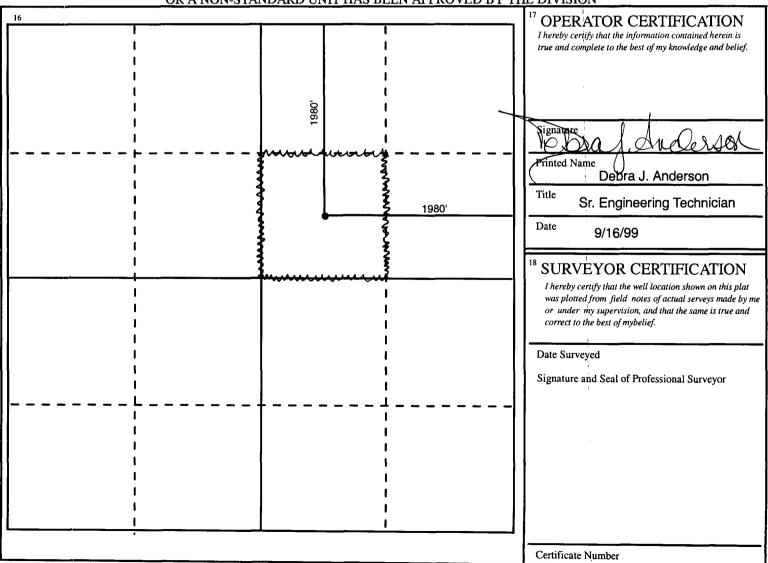
7 OGRID No.

District IV 2040 South Pacheco, Santa Fe, NM 87505	WELL LOCATION AND AC	CREAGE DEDICATION PLAT		
¹ API Number 30-025-06442	² Pool Code 19190	³ Pool Name Drinkard		
⁴ Property Code	⁵ Property Nam Southland Roval	- · · · · · · · · · · · · · · · · · · ·	Well Number	

⁸ Operator Name

3488 000873 Apache Corporation 10 Surface Location North/South line Feet from the East/West line UL or Lot No. Range Lot Idn Feet from the County Section Township G 37E 1980 North 1980 East Lea 9 **21S** ¹¹ Bottom Hole Location If Different From Surface Feet from the North/South line Feet from the County UL or Lot No. Section Township Range Lot Idn East/West line 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco Santa Fe, New Mexico 87505

Form C-102 Revised October 18, 1994 Instruction on Back Submit to Appropriate District Office State Lease - 4 Copies

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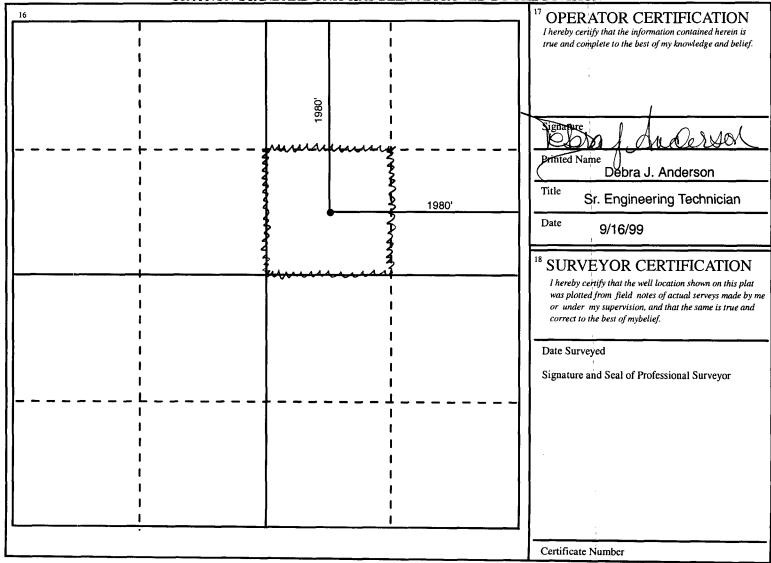
District IV

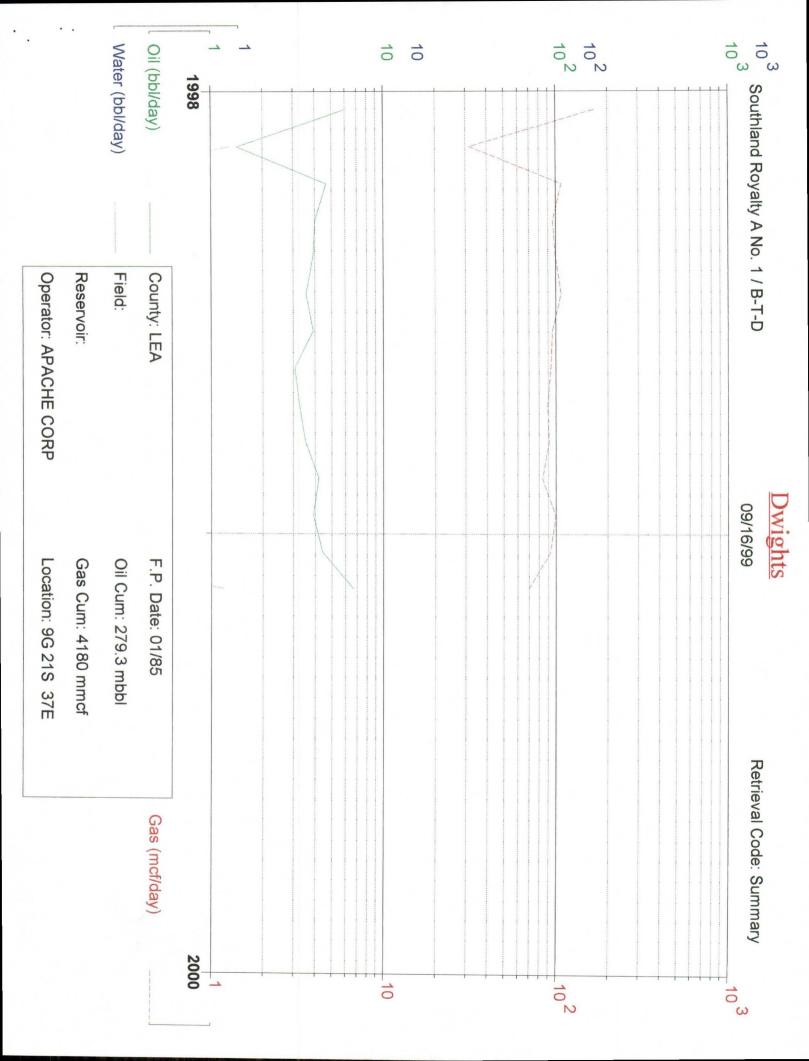
PO Drawer DD, Artesia, NM 88210

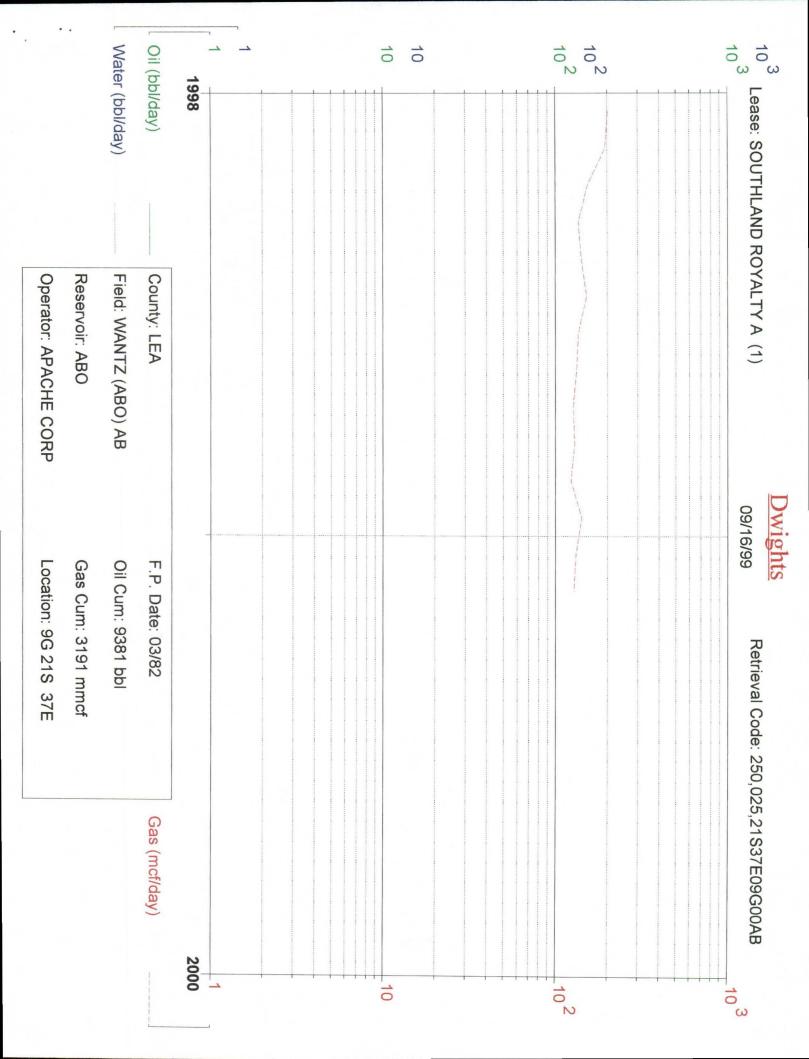
District III 1000

Rio Brazos Rd., Aztec, NM 87410	

2040 South Pack	neco, Santa	Fe, NM 875	05	WELL I	OCATION AN	ND ACREAGE	DEDICATION	N PLAT	
¹ API Number 30-025-06442				² Pool Code				ol Name antz Abo	
	erty Code 5 Property Name 8112 Southland Royalty A							⁶ Well Number 1	
⁷ OGRI	⁷ OGRID No. 000873				•	ator Name Corporation			⁹ Elevation 3488
					10 Surf	ace Location		1	
UL or Lot No.	Section 9	Township 21S	Range 37E	Lot Idn	Feet from the 1980	North/South line North	Feet from the 1980	East/West line East	County Lea
				11 Be		cation If Differe	ent From Surfa	ice	
UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Ac	eres 13 Joint	or Infill 14	Consolidati	ion Code 14 O	Order No.				
NO AL	LOWAB					ION UNTIL ALL I EEN APPROVED			SOLIDATED
16							17 OPE!	RATOR CERT	TIFICATION
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Attachment A Allocation Formula Explanation

The Southland Royalty A # 1 well is currently dually completed. The upper completion consists of the downhole commingling of the Blinebry Oil & Gas (06660), Tubb Oil & Gas (60240) and Drinkard (19190) pools. NMOCD Order R-7537, dated 5/21/84, authorized this downhole commingling. These pools are produced by artificial lift. The lower completion is in the Wantz Abo (62700) pool which is currently flowing. Apache Corporation proposes to add the Wantz Abo pool to the existing downhole commingling order R-7537 and produce by artificial lift

The following is the current allocation formula for the Blinebry-Tubb-Drinkard downhole commingle.

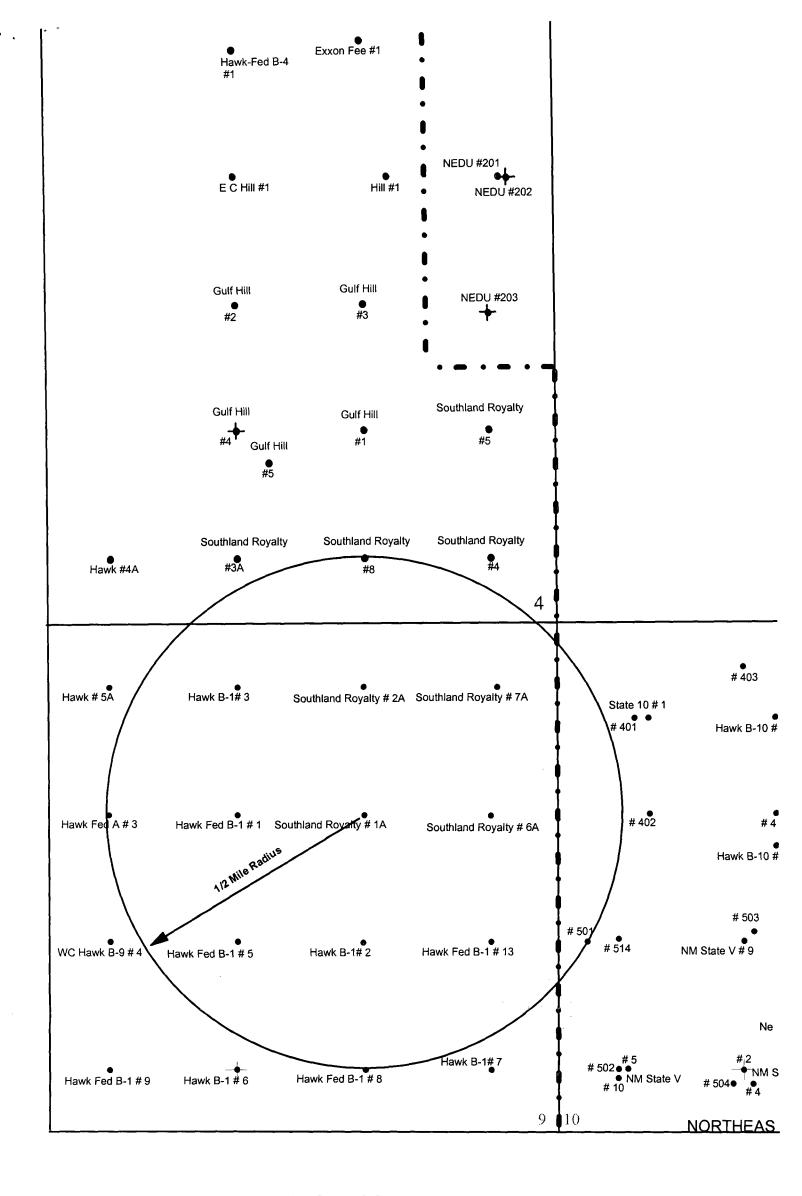
Pool	Oil C	Gas	8,
Blinebry Tubb	44.5% 13.0%	44.8% 33.6%	(B)
Drinkard	42.5%	21.6%	
Total	100.0%	100.0%	

Current Average Daily Production

Pool	Oil	Gas	
Blinebry Tubb Drinkard Wantz Abo	3 BOPD 1 BOPD 3 BOPD 0 BOPD	30 MCFD 23 MCFD 15 MCFD 127 MCFD	Allocated based on original formula Allocated based on original formula Allocated based on original formula
Total	7 BOPD	195 MCFD	

Proposed Allocation Formula to include the Wantz Abo pool

Pool	Oil	Gas
Blinebry	44.09	6 15.0%
Tubb	13.0%	6 12.0%
Drinkard	43.0%	6 7.0%
Wantz Abo	0.0%	66.0%
Total	100.09	6 100.0%



APACHE CORPORATION
Southland Royalty A No. 1 - Downhole Commingle
SEC.9 / T-21S / R-37E
LEA COUNTY, NEW MEXICO

Well:

Southland Royalty A No. 1

Field:

Multiple Completion

Blinebry-Tubb-Drinkard (DHC Order No. R-7537)

Wantz Abo

Location:

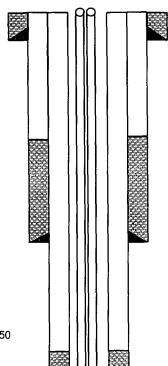
1980' FSL, 1980' FEL

Unit G, Section 9, Township 21S, Range 37E

API#:

30-025-06442

Current Status: Multiple Completion Blinebry-Tubb-Drinkard / Oil & Gas Wantz Abo / Gas



Surface Casing: 17-1/2" Hole 13-3/8" 48# Armco CSA 237' Cement w / 300 sx Circulated to Surface

Intermediate Casing: 12-1/4" Hole 9-5/8" 36# CSA 3860' Cement w / 1500 sx TOC @ 2050' (Temp Svy)

Blinebry Perfs:

1962 5814-16, 38-40, 68-70, 5902-04, 48-50

1972 5664-78, 88-94, 5704-06, 15, 22-24,

36-44, 56-58

1982 Cement squeezed (5664 - 5950) w / 400 sx

1984 5664-78, 88-94, 5704-06, 22-24, 34-44, 56-58

Tubb Perfs:

1984 6150-60, 6210-28, 42-55, 65-75, 92-98,

6347-53, 80-95

Drinkard Perfs:

1947 6555-6610, 40-75

1961 Cement squeezed w / 200 sx

1962 Sandril Slot in Casing @ 6585' & 6660'

1973 6508-32, 60-70, 75-77, 80-90, 94-96, 6600-10

1982 Cement squeezed w / 575 sx

1984 6450-70, 6508-32, 6640-60

Wantz Abo Perfs:

1982 6822-28, 34-43

Parallel Tubing Anchor @ 6300'

Production Casing: 8-3/4" Hole 7" 23# N-80 & J-55, CSA 6683'

Cement w / 600 sx TOC @ 5175' (Temp Svy)

Packer @ 6750'

Production Liner: 6-1/8" Hole 4-1/2" 11.6# K-55, LSA 7000' Cement w / 144 sx

TOL @ 6385'

TD @ 7569' **PBTD** @ 6980' Well:

Southland Royalty A No. 1

Field:

Multiple Completion

Blinebry-Tubb-Drinkard (DHC Order No. R-7537)

Wantz Abo

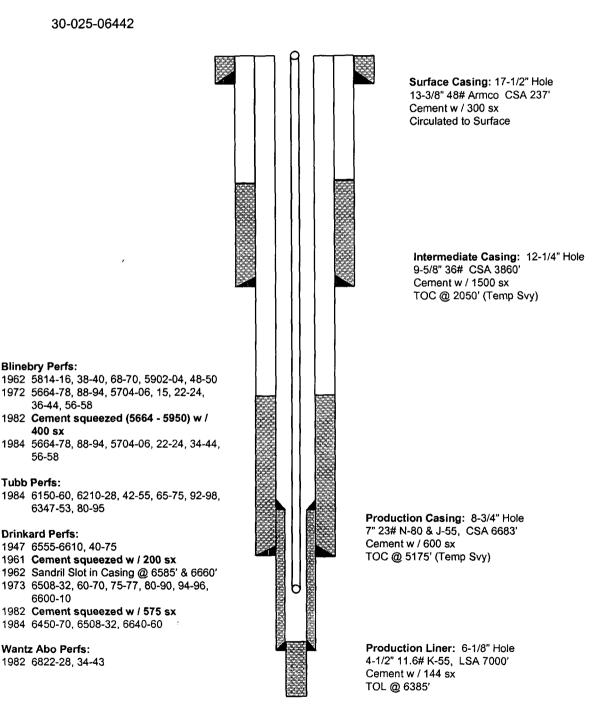
Location:

1980' FSL, 1980' FEL

Unit G. Section 9, Township 21S, Range 37E

30-025-06442

Proposed Status: Downhole Commingle Blinebry-Tubb-Drinkard / Oil & Gas Wantz Abo / Gas



TD @ 7569' PBTD @ 6980'

Blinebry Perfs:

36-44, 56-58

6347-53, 80-95

1961 Cement squeezed w / 200 sx

1982 Cement squeezed w / 575 sx 1984 6450-70, 6508-32, 6640-60

1947 6555-6610, 40-75

6600-10

Wantz Abo Perfs:

1982 6822-28, 34-43

400 sx

56-58

Tubb Perfs:

Drinkard Perfs:

API#: