DHC 1/6/98

PECOS PETROLEUM ENGINEERING, Inc. 200 W. FIRST ST., SUITE 536 **P.O. BOX 2885 ROSWELL, NEW MEXICO 88202** 505-624-2800

December 11, 1997

Mr. David Catanach New Mexico Oil Conservation Division 2040 South Pacheco Santa Fe, New Mexico 87505-6429

Re: Armstrong Energy Corporation Mobil "24" Federal #1 Section 24, T19S-R34E Lea County, New Mexico

SERVATION DIVISION

Dear Mr. Catanach:

Armstrong Energy Corporation has attempted a completion of a Delaware zone in the Mobil "24" Federal #1. This zone tested at 11 BOPD and 93 BWPD from a depth of 8,130'-8,156'. Because of high costs associated with water disposal and lifting fluid from over 8,000', this zone was determined to have marginal economics.

230 BOPT

To improve the economics of this project and maximize recovery, we have decided to make an application to commingle the new Delaware zone and the existing Bone Spring zone. Total production from the combined zones is anticipated to be 19 BOPD, 115 BWPD and gas volumes to small to measure.

Attached is a copy of Form 3106-5, Sundry Notice and Reports on Wells, outlining the workover on the well, Form 3106-4, Well Completion or Recompletion Report and Log, for the completion in the Delaware zone, Form C-102, Well Location and Acreage Dedication Plat, showing the acreage dedicated to the Delaware zone, and a Form C-107-A, Application for Downhole Commingling.

Notification and a copy of the C-107-A has been sent to the Bureau of Land Management office in Roswell, New Mexico, three copies have been mailed to Mr. Chris Williams at the Hobbs, New Mexico OCD office and notification with copies of the application have been sent to the offset operators.

Should you require any additional information concerning this project, please contact me at your convenience.

Sincerely,

Bruce A. Stubbs

Form 3160-4						CONTACT R	DC DI VIIVO		<u></u>	BLM Ros	Well District
Form 3100-4 (July 1989)			UNITED ST.	ATES		OFFICE FOR		1	_		Form No.
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3. ADDRESS OF OPE		P. O. BOX 1							<u> </u>		
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26. TYPE ELECTRIC CND W/GF 28. CASING SIZE 13 3/8"	AND OTHER LOG	s RUN V/Micro IGHT, LB/FT. 54.5#	CASING DEPTH SET (MD) 406'	RECORD HOLE SIZ	E /2"	CEMEN 42	5 sacks			WELL CO	AMOUNT PULLE CIRC.
26. TYPE ELECTRIC CND W/GF 28. CASING SIZE 13 3/8" 8 5/8"	AND OTHER LOG	s RUN V/Micro 1947, LB/FT. 54.5# 32#	CASING D DEPTH SET (MD) 406' 3591'	RECORD HOLE SIZ 17 1 12 1/	<u>-</u> /2" /4"	семен 425 1900	5 sacks) sacks			WELL CO	AMOUNT PULLE Circ. Circ.
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26. TYPE ELECTRIC CND W/GF 28. CASING SIZE 13 3/8" 8 5/8" 5 1/2" 29. SIZE 31. PERFORATION New 8130'-8	AND OTHER LOOK R & DLL V WE TOP (MD) RECORD 156'; 11 St	S RUN V/Micro GHT, LBAFT. 54.5# 32# 17# LINER RECOR BOTTOM (MD) (Interval, Size and Nots	CASING J DEPTH SET (MD) 406' 3591' 10797' D SACKS (Number)	RECORD HOLE SIZ 17 1 12 1/ 7 7	E /2" /4" //8" //8" //8" //8" //8" //8" //8"	CEMER 42: 1900 1550 34. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 sacks 5 sacks 5 sacks 5 sacks 7/8" 7/8" 1750 g	TUBING DEPTH CEMENT AMOUNT / Jals. 12	RECO SET (MI 9387' SQUEE ND KDS 1/2%	RD BZE, ETC D OF MAT	AMOUNT PULL Circ. Circ. TOC 125 PACKER SET () C. C. C. C. C. C. C. C. C. C. C. C. C.
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24. TYPE ELECTRIC CND W/GF 28. CASING SIZE 13. 3/8" 8. 5/8" 5. 1/2" 29. SIZE 31. PERFORATION New 8130'-8 Existing 9548 Abandoned Abandoned 33. * De DATE FIRST PRODI 10/2 DATE OF TEST 11/14 FLOW. TUBING PRE	AND OTHER LOOK R & DLL W WE TOP (MD) RECORD 156'; 11 St 6'-9689'; P. 10241; 2 S 10397'-104 Isware \$130-815 UCTION 5/97 I/97 ISS.	S RUN V/Micro GHT, LB/FT. 54.5# 32# 17# LENER RECOR BOTTOM (MD) (Interval, Size and N Nots B. to 9590', 9 S hots, 9751' & S 37'; 14 Shots 56' PRODUC HOURS TESTED 24 CASINO PRESSURE 30#	CASING J DEPTH SET (MD) 406' 3591' 10797' D SACKS (Vumber) Shots 9755' 1 Shot TION METHOD CHOKE SIZE CALCULATED 24 - HOUR RATE	RECORD HOLB SIZ 17 1 12 1/ 7 7 CEMENT • CEMENT • PROD'N FOR TEST PERIOD	E /2" /4" /8" SCREEN (MD) 32. ACI DEPTH INTE 8130' DEPTH INTE	CEMEN 42: 1900 1550 30. 51 0, SHOT, FT RVAL (MD) -8156' and type of 7 /2" X 20' GAS- TS	5 sacks 5 sacks 5 sacks 5 sacks 5 sacks 7 sachs 7 s	TUBING DEPTH CEMENT AMOUNT / Jals. 12 // 20,000) 10 BPM WELL STA WAT R - BBL. 93	RECOJ SET (MC 9387' 9387' SQUEE ND KDM 1/2% gals. 8 1 TUS Shi ER - BBL. 93	NO NO RD DOF MAT FE AA & 40,00 (Produc It-in	AMOUNT PULLI Circ. Circ. TOC 125 PACKER SET (1 C. TERIAL USED Cid W/ balls 20 lbs. 16/30 Of Ang or Shul-In) GAS - OIL RATT 0
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Title IS U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fruadulent statements or representations as to any matter within its jurisdiction.

wcmpltn.wk3

DISTRICT III 1000 Rio Brazos Rá	Lesis, NM 58210 , Azioc, NM 57410		AND ACREAGE DEDICA is from the outer boundaries of t		
Operator	ong Energy (Corporation	Mobil Feder	al 24	Weil No.
Unit Letter	Section	Township	Range	County	
K Actual Footage Loca	24 tion of Well:	19 South	34 East	NMPM	Lea
1650	•	South line and	2310	for from the West	line
Ground level Elev.		g Formation	Pool	· · ·	Dedicated Acreage:
3798.6		The second s	Undesignated encil or bechure merics on the plat b		40 Ac
this form No allows	if neccessary		re actually been consolidated. (Use been consolidated (by communitize pproved by the Division.		ing, or otherwise)
	 	·		Signature Robert Printed Name Presid Position	
				Company <u>March</u> Date	ong Energy 6, 1990 YOR CERTIFICAT
				1 1 1 1 1 1	ify that the well location was plotted from field
		00.5	PROFESSION	actual survey supervison, a	
	310'-	00.5	ND SUAL SIGNAL AND SUAL SIGNAL AND SUAL AND SUAL	actual survey supervison, a correct to th belief. Date Surveyor	nd their the same is he best of my browle bruary 15, 199 eal of

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Form 3160-5		
(IITED STATES	FORM APPROVED
	ENT OF THE INTERIOR	BUDGET BUREAU NO. 1004-0135
BUREAU O	F LAND AMANGEMENT	EXPIRES: MARCH 31, 1993
		5. Lease Designation and Serial No.
SUNDRY NOT	CES AND REPORTS ON WELLS	NM-0381550-C
Do not use this form for proposals to drill or	to deepen or reentry to a different reservoir.	5. If Indian, Allottee or Tribe Name
	VIT-" for such proposals	
	SUBMIT IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well	' ' '	
Oil Gas		
X well Well Other		8. Well Name and No.
2. Name of Operator		Mobil 24 Federal
Armsrtrong Energy	Corporation	9. API Well No.
3. Address and Telephone No. P.O. Box 1973	· ·	#1
Roswell, New Mexic	o 88202-1973 505-623-8726	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Description)		Undesignated
4. Localion of Weil (roonge, see, 1, R, M, at survey Description) 1650' FSL & 2310' FWL		11. County or Parish, State
Section 24, T19S-R34E	NINDICATE NATURE OF NOTICE REPORT OR OTHER D	Lea
12. CHECK APPROPRIATE BOX(S) TO TYPE OF SUBMISSION	D INDICATE NATURE OF NOTICE, REPORT, OR OTHER DA	
1 IPB OF SUBMISSION		
Notice of Intent	Abandonment	Change of Plans
	X Recompletion	New Construction
X Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	OTHER	Dispose Water
·····	_	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

10-15-97 Set CIBP at 9446', dumped 50' of cement on top of CIBP. PBTD 9396'.

10-17-97 Perforate Delaware at 8130, 31, 37, 38, 46, 47, 49, 50, 54, 55, and 56, 11 shots

10-18-97 Acidize with 1750 gallons 12 1/2% FE acid with ballsealers. Formation broke at 3140 psi, avg. pressure 2700 psi, balledout, Rate 3 BPM, ISIP 2055 psi, 15 min. 1915 psi. 91 BLTR. Swab back load and test.

10-22-97 Frac with 20,000 gais. Deita Frac "20" carrying 40,000 lbs. 16/30 Ottawa Sand. Avg. rate 10 BPM, Avg. pressure 2700 psi. ISIP 1986 psi, 15 min. 1931 psi. 610 BLTR.

10-23-97 TIH with tubing and pumipng assembly, Total of 256 joints 2 3/8" N-80 tubing, SN, perforated sub, and mud anchor.

10-24-97 Set TAC at 7731.84', SN at 7984', ran rods and pump. Started pumping at 5:00 pm.

11-14-97 Testing 11 BO and 93 BW in 24 hours, gas TSTM.

12-5-97 TIH and cleanout to 9461'.

12-6-97 Drilled out CIBP and cleaned out to 9590', PBTD 9590'.

12-7-97 SD, waiting on commingling application to commingle production from the Delaware and Bone Spring zones.

14. [hereby certi Signed	ity that the successing is true successive for the successive	Title	Engineer		Date	12-11-97
(This space for F	ederal or State use)			<u> </u>		<u></u>
Approved by		Title		l	Date	
Conditions of app	roval, if any:					
Title 18 U.S.C. S or representations	ection 1001, makes it a crime for any person to knowingly and willfully to m a sto any matter within its jurisdiction.	ake to any o	department or agency of the United S	tates any false, fictitious or fraudulent stateme	nts	

	State of N Energy, Minerals and Nati	ew Mexico ural Resource Department		Form C New	
P.O. Box 1980, Hobbs, NM 88240 DISTRICT II	OIL CONSERVA			APPROVAL PR	
811 South First St., Artesia, NM 88210	2040 S.		<u>X</u> Administrative H EXISTING WELLE		
<u>DISTRICT III</u> 1000 Rio Brazos Rd., Aztec, NM 87401	Santa Fe, New M APPLICATION FOR DOV		<u>X</u> Yes		
Armstrong Energy Corporation	n P.O. Bo		New Mex	ico 88202	
perator	Addre 1		19S-34E	Lea	
Mobil "24" Federal	Well No.		c - Twp - Rge	County	
GRID NO. 001092 Proper	ty Code 018462 API NO	30-025-30839	• •	Init Lease Type: (Check 1 or mol X, State, (And/or) Fe	
The following facts are submitted	Upper	Intermediate		Lower	
in support of downhole commingling:	Zone	Zone		Zone	
1. Pool Name and Pool Code	Undesignated			Lea Bone Spring 37570	
2. Top and Bottom of Pay Section (Perforations)	8130 - 8156			9546 - 9590	
3. Type of Production (Oil or Gas)	Oil			Oil	
4. Method of Production	Artificial Lift		ļ	Artificial Lift	
(Flowing or Artificial Lift)	Rod Pumping	ļ		Rod Pumping	
5. Bottomhole Pressure Oil Zones - Artificial lift: Estimate Current	a. ^(Current) 3090 psi	a.		a. 500 psi	
Gas & Oil - Flowing:	b. (Original)	b.		b.	
Measured Current		0.			
All Gas Zones: Estimated Or Measured Originals	3090 psi		ł	3820 psi	
6. Oit Gravity (° API) or Gas BTU Content	39.7° @ 60° F			38.5° @ 60° F	
7. Producing or Shut-in?	Shut-in			Shut-in	
Production Marginal? (yes or no)	Yes			Yes	
Makut in sive data and silfered	Date: 11-14-97	Date:		Date: 10-14-97	
If shut-in, give date and oil/gas/ water rates of last production	Rates: 11 BOPD, 0 MCFG,	Rates:		Rates: 7.8 BOPD, 0 MCFG,	
	& 93 BWPD		Í	& 22 BWPD	
Note: For new zones with no production history, applicant shall be required to attach					
production data and supporting data		<u></u>		······	
Kanadontan atau data and attract	Date:	Date:		Date:	
If producing, give date and oil/gas/ water rates of recent test	Rates:	Rates:		Rates:	
(within 60 days)					
8. Fixed percentage Allocation	Oil: Gas:	Oil: Gas:		Oil: Gas:	
Formula - % for each zone	58.5 % 0 %	%	%	41.5 %	
 If allocation formula is based upor with supporting attachments with Are all working, overriding, and ro 	supporting data and/or explaining meth	nod and providing rate proje led zones?	ctions or othe	er required data. No	
	and royalty interests been notified by en written notice of the proposed down	certified mail?	YesI X_YesI	No	
11. Will cross-flow occur? Yes					
be recovered, and will the allocation				No (If No, attach explanation	
12. Are all produced fluids from all co	mmingled zones compatible with each	other?	X Yes	No	
13. Will the value of production be de				No (If Yes, attach explanatio	
14. If this well is on, or communitized			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	nagement has been notified in writing o		<u>X</u> Yes		
15. NMOCD Reference Cases for Ru	le 303(C) Exceptions: ORDER	NO(S)	IC-1559, DH	C-1563, DHC-1639 & DHC-1	
Production curve fo For zones with no p		ot available, attach explanat	on.)		

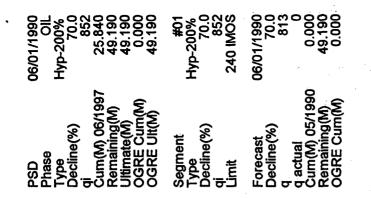
I hereby certify that the information above is true and complete to the signature	e best of my knowled	dge and belief.			
SIGNATURE		Engineer	DATE	12-10-97	
TYPE OR PRINT NAMEBruce A. Stubbs		TELEPHONE NO.	(_505)_6	23-8726	

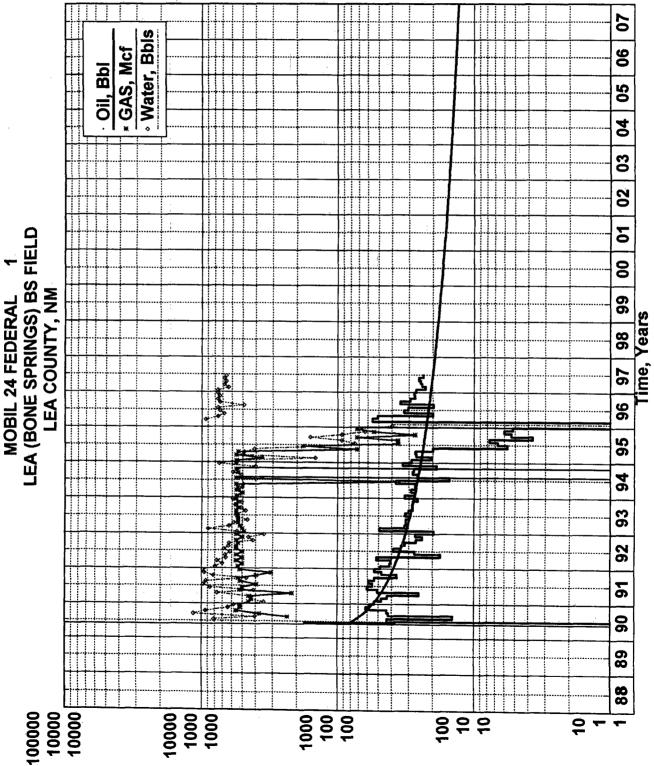
Attachment to Application for Downhole Commingling Armstrong Energy Corporation Mobil "24" Federal #1 Section 24, T19S-R34E Lea County, New Mexico

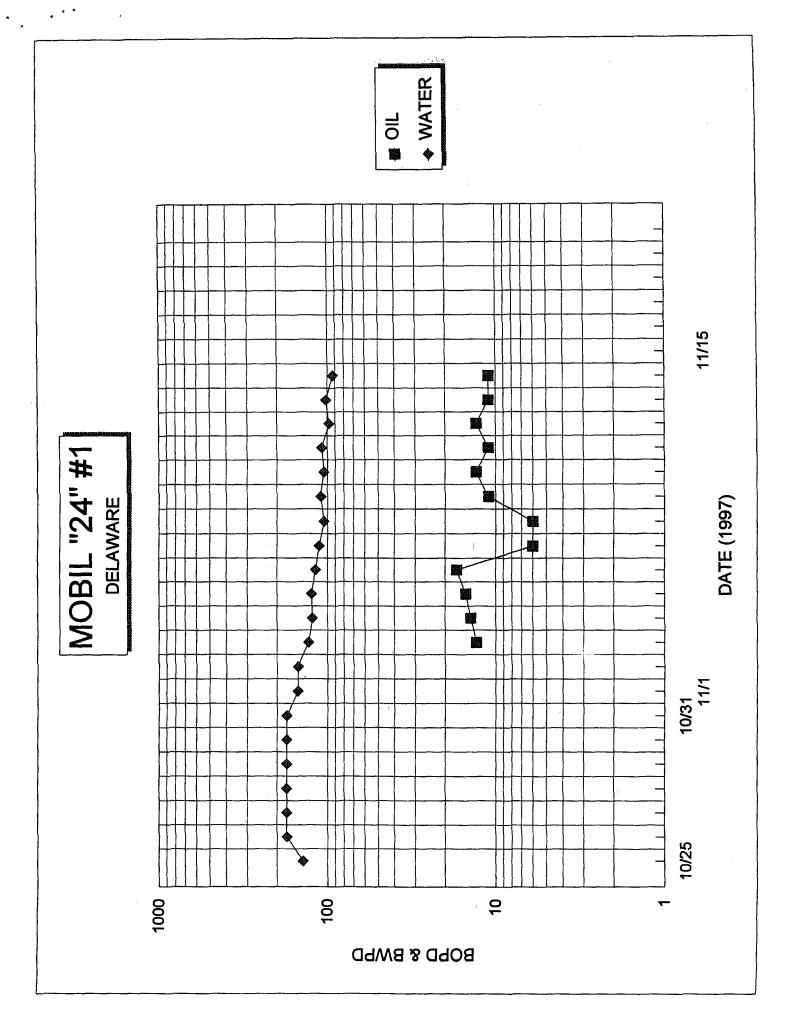
- 9. The allocation formula is based on the historical production from the Bone Spring Zone and test rates from the Delaware Zone. The historical production from the Bone Spring has followed a predictable hyperbolic decline since completion in 1990. The attached decline curve indicates the historical production and a curve fit of the data. The Delaware Zone has approximately two weks of production tests, that show a stabilized rate of 11 BOPD, 93 BWPD and gas rates TSTM. A proposed allocation for the oil production would be based on a total oil rate of 18.8 BOPD and individual zone allocations of: Delaware Zone 11/18.8=58.5% and Bone Spring Zone 7.8/18.8=41.5%.
- 11. Although the existing Bone Spring Zone is in a depleted condition with an estimated BHP of 500 psi and the new Delaware Zone has an estimated BHP of 3090 psi, cross-flow will not occur due to artificial lift equipment maintaining a pumped-off condition. Annular pressure will be maintained as low as surface production equipment can efficiently function.
- 13. Both zone produce sweet crude with similar gravities. No reduction in the price received for this product will result from the commingling.

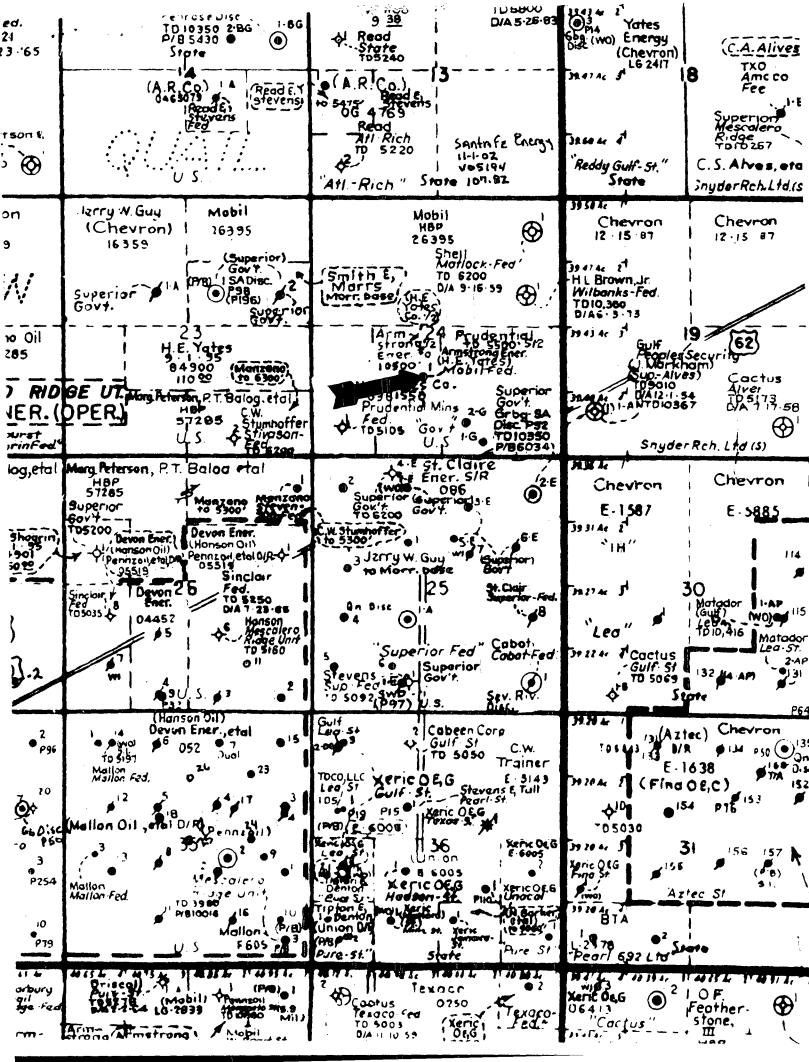
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<u>STRICT I</u> O. Box 1980, Hobbs, Ni	A 88740	U.		P.O. Box 20					
STRICT II			Santa Fe	, New Mexico	87504-2088				
). Drawer DD, Artesia,	NM 88210								
STRICT III 30 Rio Brazos Rd., Azte	x, NM 87410				SE DEDICATIC				
erator			1	Leas				Well No.	
Armstrong		Corporati Township	on	Range	bil Federal		County	<u> </u>	,
ĸ	24		9 South		East	NMPM		Lea .	
tual Footage Location o 1650		South	line and	2310		fact form t	west	line	
and level Elev.	Producing	g Formation		Pool				Dedicated Acres	ge:
3798.6	Delaw	vare		Undes	ignated	-	•	40	Acres
unitization, fo Yes If answer is "20	orce-pooling, etc	1.7 No 11	answer is "yes"	type of consolidatio	aterest of all owners 1 a paolidated. (Use rew				
	ill be assigned to				(by communitization,	unitization,	forced-poolin	ng, or otherwise)	<u></u>
or until a son-s	tandard unit, elin	ninating such in	sterest, has been	approved by the Div	risioa.				
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Abril to Appropriate District Office State Lease - 4 copies Foe Lease - 3 copies			ais and Natural Resources [Revised 1-1-89
DISTRICT I P.O. Box 1980, Hobbs,	NOM 18240		ISERVATION DIV P.O. Box 2088 Fe, New Mexico 87504-2	;	RECEIVED
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DISTRICT III 1000 Rio Brazor Rd., A					r 9 10 39 AH '90
Operator		All Distances mus	t be from the outer boundaries	6/	Ri. Wel No.
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Notification List of Offset Operators

Downhole Commingling Aplication

Armstrong Energy Corporation Mobil "24" Federal #1 Section 24, T19S-R34E Lea County, New Mexico

Guy's Oil & Gas, Ltd., Co. P.O. Box 5115 Hobbs, New Mexico 88241-5115 Attn: Jerry Guy

St. Clair Energy Corporation P.O. Box 1392 Midland, Texas 79702 Attn: D.W. St. Clair

Manzano Oil Corporation P.O. Box 2107 Roswell, New Mexico 88202-2107 Attn: Ken D. Reynolds

Smith & Marrs, Inc. P.O. Box 863 Kermit, Texas 79745 Attn: Rickey Smith

Mobil Exploration & Producing U.S. Inc. 12450 Greenpoint Drive Houston, Texas 77060-1991 Attn: David Collins

Bureau Of Land Management Notification

Mr. Tony Ferguson Bureau of Land Management 2909 West Second Street Roswell, New Mexico 88201 STATE OF NEW MEXICO

ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION HOBBS DISTRICT OFFICE

12/16/97

POST OFFICE 80X 1980 HOBBS, NEW MEXICO 88241-1980 (505) 393-6161

DHC-1753

GOVERNOR

OIL CONSERVATION DIVISION P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

RE: Proposed: MC DHC NSL NSP SWD WFX PMX

Gentlemen:

I have examined the application for the:

Federal #1-16.24-19-34 24 Operator

and my recommendations are as follows:

Nøri

Yours very truly,

Chris Williams Supervisor, District l

/ed