Submit 3 Copies to Appropriate District Office

State of New Mexico Energy, Minerals and Natural Resources Department

CONDITIONS OF APPROVAL, IF ANY:

Form C-103 Revised 1-1-89

DISTRICT I OIL CONSERVATIO	N DIVISION
P.O. Box 1980, Hobbs NM 88240 P.O. Box 200	WELL API NO.
DISTRICT II P.O. Drawer DD, Artesia, NM 88210 Santa Fe, New Mexico	87504-2088
DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 87410	STATE X FEE 6. State Oil & Gas Lease No.
CHAIDDY MOTIOTO AND DEDORTO ON MEL	E-347-41
SUNDRY NOTICES AND REPORTS ON WEL (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OF	OR BLUC BACK TO A
DIFFERENT RESERVOIR. USE "APPLICATION FOR PER (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: OIL WELL GAS WELL OTHER Catho	San Juan 30-5 Unit dic groundbed
2. Name of Operator Phillips Petroleum Company 017	8. Well No. #110M
3. Address of Operator 5525 Highway 64, NBU 3004, Farmington, NM 874	9. Pool name or Wildcat B1 MV & Basin Dakota
4. Well Location Unit Letter E: 1840 Feet From The North	Line and 790 Feet From The West Line
Section 16 Township 30N Ra	511
10. Elevation (Show whether	r DF, RKB, RT, GR, etc.)
11. Check Appropriate Box to Indicate	Nature of Notice, Report, or Other Data
NOTICE OF INTENTION TO:	SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK PLUG AND ABANDON	REMEDIAL WORK ALTERING CASING
TEMPORARILY ABANCON CHANGE PLANS	COMMENCE DRILLING OPNS. Drug and ABANDONMENT
PULL OR ALTER CASING	CASING TEST AND CEMENT JOB
OTHER: drill groundbed-cathodic protection [X]	OTHER:
12. Describe Proposed or Completed Operations (Clearly state all pertinent deta work) SEE RULE 1103.	ils, and give pertinent dates, including estimated date of starting any proposed
Phillips proposes to drill a cathodic protection to an anticipated minimum depth of 300' (be used unless more than one water zone is encindicates only one zone to that depth. If more will be notified and details of cement and cases to the control of the control	maximum depth of 500'). Cement plugs will not ountered. Prior drilling history for the area e than ore water zone is encountered the OCD
All drilling activity will remain on existing Farmington will be doing the drilling for Phil	well pad and "Tierra Dynamic Company" of lips.
I hereby certify that the information above is true and complete to the best of my knowledge	and belief.
SIGNATURE TARY Classify TITLE	Regulatory Assistant DATE 6-19-97
TYPE OR PRINT NAME Patsy Clugston	TELEPHONE NO.505 - 599 - 3454
(This space for State Use) ORIGINAL SIGNED BY ERNIE BUSCH	OBBUT OIL & GAS INSPECTOR, CISY, &S. JUN 2 6 1997
APPROVED BY	and the bloom of the boundary

DISTRICT |

DISTRICT II

DISTRICT III

P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 S. Pacheco , New Mexico 87505-6429

APPROVAL PROCESS:

 $\underline{\underline{X}}$ Administrative $\underline{\underline{\hspace{0.5cm}}}$ Hearing

1000 Rio Brazos Rd, Aztec, NM 87410-1693

811 South First St., Artesia, NM 88210-2835

APPLICATION FOR DOWNHOLE COMMINGLING

	EXISTING WELLBORE				
j	_XYES	NO			

Phillips Petroleu	ım Company 55	25 Hwy. 64, Farming	gton, NM 87401		
San Juan 30-5 Unit	#110M E	sec. 16 T30N, I	R5W, Rio Arriba		
OGRID NO. 0 7654 Property Cod	OIII E	r Sec - Twp - Rge Spacing -039-25658 Federal	County Unit Lease Types: (check 1 or more) , State $\frac{X}{X}$, (and/or) Fee		
The following facts are submitted in support of downhole commingling:	Upper Zone	Intermediate Zone	Lower Zone		
1. Pool Name and Pool Code	72319 Blanco Mesaverde		71599 Basin Dakota		
Top and Bottom of Pay Section (Perforations)		LEAGINER	7740' 7859'		
Type of production (Oil or Gas)	Gas	Gas			
Method of Production (Flowing or Artificial Lift)	Flowing	Han GORD, DITTO	Flowing		
5. Bottomhole Pressure Oil Zones - Artificial Lift: Estimated Current Gas & Oil - Flowing: Measured Current	a. (Current) 1030 psi (est.) b. (Original)	a. b.	a. (24 hr. SI) 1156 psig		
All Gas Zones: Estimated Or Measured Original	1294 psi (est.)	U.	3412 psi (est.)		
6. Oil Gravity (*API) or Gas BTU Content	1030 BTU/Cu ft.		1000 BTU / Cu ft.		
7. Producing or Shut-In? Production Marginal? (yes or no)	Yes		Producing		
If Shut-In, give date and oil/gas/ water rates of last production Note: For new zones with no production history, applicant shall be required to attach production estimates and supporting data.	Date: Rates:	Date: Rates:	Yes Date: Rates:		
If Producing, give date andoil/gas/ water rates of recent test (within 60 days)	Date: Estimate Rates: 420 mcfd	Date: Rates:	Date: 9/10/97 Rates: 382 mcfd 0 bwpd		
8. Fixed Percentage Allocation Formula -% for each zone	Oil: Gas: %	Oil: Gas: %	Oil: Gas: %		
 If allocation formula is based usubmit attachments with supplements. Are all working, overriding, ar If not, have all working, overr Have all offset operators been Will cross-flow occur? X Y flowed production be recovered. Are all produced fluids from a 	nd royalty interests identical in riding, and royalty interests bee given written notice of the property of th	all commingled zones? n notified by certified mail? bosed downhole commingling? compatible, will the formations rule be reliable. X YesN	$\begin{array}{c} \underline{\qquad} \underline{\qquad} \underline{\qquad} \underline{\qquad} \underline{\qquad} \underline{\qquad} \underline{\qquad} \qquad$		
 Will the value of production b If this well is on, or communit United States Bureau of Land 	e decreased by commingling? tized with, state or federal land: Management has been notified	Yes X No (If Yes, either the Commissioner of It in writing of this application.	s, attach explanation) Public Lands or the X Yes No		
* For zones with no r * Data to support allo * Notification list of a	ne to be commingled showing it or each zone for at least one ye production history, estimated procation method or formula.		dication. planation.) data.		
* Any additional state	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , ,			
hereby certify that the information	on above is true and complete t	o the best of my knowledge			

District I

170 Haz 1980, Haldes, NM 88241-1980

District H

RH South First, Artesia, NM 88210

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION 2040 South Pacheco.

Lorin Carol

Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 5 Copies Santa Fe, NM 87505 TORRI IGO BERRIO ICC., AZGO, SIMERTATO District IV AMENDED REPORT 2040 South Pacheco, Santa Fc, NSI 87505 WELL LOCATION AND ACREAGE DEDICATION PLAT Poul Name 1 Paul Cude All Number Blanco Mesaverde 72319 30-039-2565d · Well Number SAN JUAN 30-5 UNIT 1 Property Code 009258 110M * Elevation Operator Name OGRID No. 6346 PHILLIPS PETROLEUM CO. 017654 10 Surface Location Feet from the East/West line County Feet from the North/South line Lot Ida Township Range UL or lat no. Section RIO ARRIBA WEST 1840... NORTH 790 11 Bottom Hole Location If Different From Surface . East/West line Feet from the County Feet from the North/South line Lot Ida Kunge UL or lat no. Section Township E " Consolidation Code | " Order No. " Dedicated Acres " Joint or Infill 320 Y 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 ¹⁷ OPERATOR CERTIFICATION 5260.201 Hiereby certify that the information contained herein is struct and complete to the best of my knowledge and belief 1840 Signature R. A. Allred 7901 Printed Name E-347-41 Drilling/Production Spvr Title March 18, 1997 00 Date 5280. 18SURVEYOR CERTIFICATION Thereby certify that the well location shown on this plat was plosted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Form C-102

State of New Mexico Energy, Minerals & Natural Remures Department

Revised October 18, 1994 Instructions on back

Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

TIL CONSERVATION DIVISION 2040 South Pacheco Santa Fc, NM 87505

☐ AMENDED REPORT

811 South Past, Action, NM 88210 1000 His Hearts Rd., Az.C., NAI 8/410

Pt Hax 1980, Halder, NM 88241-1980

District IV

District I

District II

2040 South Pacheco, Santa Fe, NAI 87508

		WE	LL LOCAT	DUV NOL	ACRE	AGE DEL	DICATION P	LAT		~
	. 'AIT Number 'I'm Code 30-039-25658 71509 Basin Dak				in Dako	ota "I'wal Naure				
4 Project	Cude	'Projects Name SAN JUAN 30-5 UNIT				* Well Number 110M				
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PHILLIPS PETROLEUM COMPANY 5525 HWY 64 NBU 3004 FARMINGTON: NEW MEXICO 27401

DATE: SEPTEMBER 14 1997

WELL NAME: SAN JUAN 30-5 # 110%

FORMATION: DAKGTA

TYPE TEST: STATIC GRADIENT

COUNTY: RIO APRIPA STATE: NEW MERGOO

ELEVATION: (E-1... TOTAL DEFIH: FETD 7770'

PERFORATIONS: MID PERFS 7800' TUBING SIZE: 2 3/8 TO 7711'

CASING BIZE:

PACKER:

OTHER: F MIPPLE @ 76801

CASING PRESSURE: 970 TUBING PRESSURE: 970

OFG LEVEL: WATER LEVEL: TEMPERATURE:

AMERADA ELEMENT NUMBER: 45876

RANGE: 0-3000

WELL STATUS: SHUT IN

25 HOURS 15 MIN.

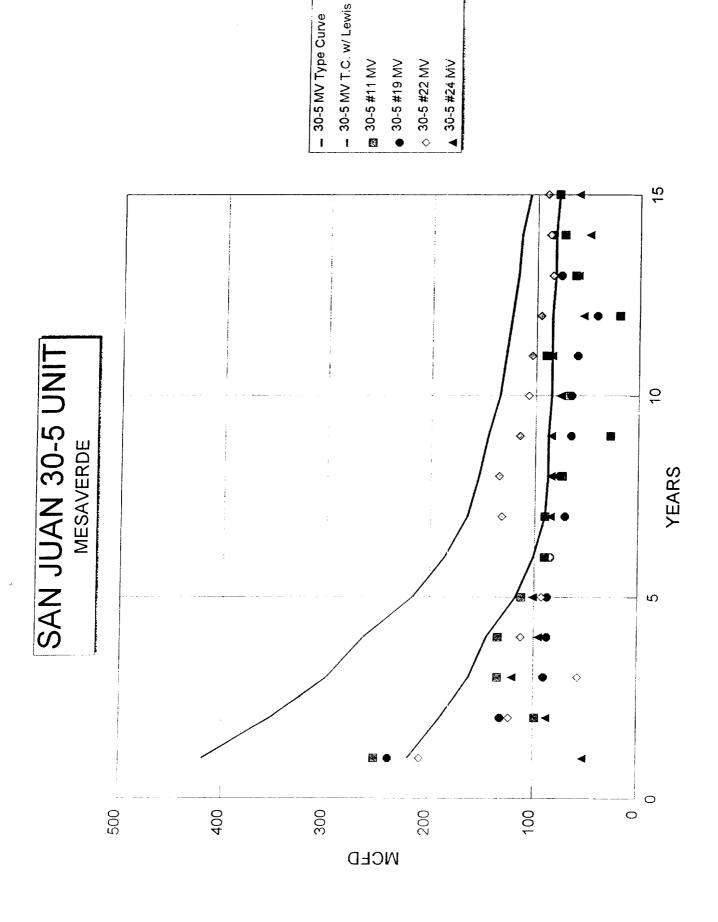
INDIVIDUAL WELL DATA SHEET

FLOWING SHADIES TRAVERSE

		EMARTH			
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	1069	0.024			
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	A.C. Sm	we the			

8.000PHILLIPS PETROLEUM SAN JUAN 30-5 # 110M 6.000 (Thousands)
DEPTH (WATER LEVEL - NONE)
GRADIENT STOPS STATIC GRADIENT 4.000 DATE: 09-16-97 2000 0.000 1.060 1.020 1.000 0.9900.970 0.960 1.160 1.140 1.130 1.100 1.080 1.070 1.030 1.010 0.9801.150 1.090 1.050 1.040 1.120 1.110 (spuesnouT) PRESSURE IN PSIG



Production Allocation Methodology

- ♦ New drill wells Fixed Allocation Method Allocate production to each zone based on initial stabilized production rate from each zone.
 - Measure initial stabilized flow rate from lower zone producing into sales line.
 - Measure initial stabilized flow rate from both zones commingled producing into sales line.
 - Lower zone allocation = Lower zone rate / Commingled rate
 - Upper zone allocation = (Commingled rate Lower zone rate)

 Commingled rate
 - Example: Lower zone rate 400 MCFD
 Commingled rate 1,000 MCFD

Lower zone allocation = 400/1,000

= 40%

Upper zone allocation = (1,000-400)/1,000

= 60%

Attachment

OCD Form C-107A (3/12/96)

Item No. 12 - additional explanation:

Based on water analysis from the Mesaverde and Dakota zones and discussions with the chemical treating/analysis company the water from these two zones are compatible. Lab analysis of the individual waters from both the Mesaverde and Dakota formations resulted in positive scaling indices for barium sulfate. There was a slight increase in the barium sulfate scaling index of the combined waters relative to the scaling index of the individual waters.

None of the waters, combined or individual, had meaningful scaling tendencies and combined with the fact that typical water production from either of these zones in San Juan 30-5 are 0-1 BWPD and no barium sulfate scale has been detected to date, no negative impacts to the formations are anticipated.