#### 1625 N. French Dr Hobbs, NM 88241-1980 <u>Distret II</u> - (505) 748-1283 811 S. First Artesia, NM 88210 <u>District III</u> - (505) 334-6178 1000 Rio Brazos Road Aztec, NM 87410 <u>District IV</u> - (505) 827-7131

## New Mexico

Energy Minerals and Natural Resources Department

Oil Conservation Division

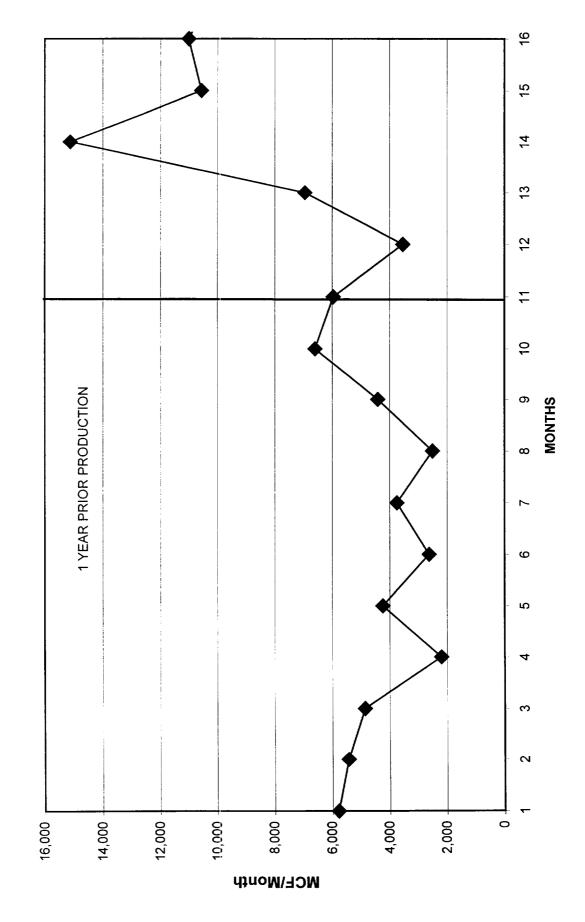
2040 South Pacheco Street Santa Fe, New Mexico 87505 (505) 827-7131 SUBMIT ORIGINA
PLUS 2 COPIE
TO APPROPRIAT
DISTRICT OFFIC

Revised 06/9

APPLICATION FOR WELL WORKOVER PROJECT

1	Operat	or and We	ell		10) [E] (C	IEL	Mer	`		
Operator name & address PHILLIPS PETROLEUM COMPANY				MV		<u> </u>	VE		OGRID N	umber
	5 HWY 6		COMPA	MI	AUI	3 1 g	1999	/		
		, NEW ME	XICO	87401	Onn a	<u> </u>	.000	j	0176	654
Contac	Party	<u>-</u>			- Out G	UN.	מווופן .		Phone	
	sy Cluq	ston			DIGT PULVO				505-599-3454 r API Number	
	Property Name San Juan 29-6 Unit				52			er	30-039-07503	
UL San	Section 2	Township	Range	Feet From The	North/South Line	Feet F	rom The	EastM	/est Line	County
В	34	29N	6W	990	North	165	50	Eas	t	Rio Arriba
11.	Worko							<del></del> -		
	orkover Co	mmenced:	Previous	Producing Pool(s) (	Prior to Workover):					
	10/98 Orkover Co	moleted:	-							
1	18/98	inpicica.	Blan	co Mesaverde						
111.	Attach	a descripti	ion of the	Workover Proc	edures performe	ed to in	crease pro	oductio	n.	
IV.	Attach	a producti	on declir	ne curve or table	showing at least	twelve	e months o	of prod	uction pr	ior to the workover and at
V.	least three months of production following the workover reflecting a positive production increase.									
	State o	f <u>New M</u>	lexico	)						
				) ss.						
	•	of <u>San</u>		)		1-1-				
	-	y Clugst	on .	being first duly	sworn, upon oati	state:	S: paratar of	the ab	ovo rofo	ranged Mall
	1. 2.	I am the	Operator	r, or authorized r	epresentative of	rch of	the produc	ction re	cords re	asonably available for this
	۷.	Well.	aue, or c	auseu to be mai	de, a umgent sec		uie produi	Cuonie	colus ic	asonably available for all
	3.		est of my	knowledge, this	application and	the da	ta used to	prepar	re the pro	oduction curve and/or table
	•			complete and acc					•	
		124	$\cap$	Pus to	/				_	
Signa		talse		us//			<u>y Assist</u>		Dat	te <u>8/17/99</u>
SUBS	CRIBED	AND SWO	ORN TO	before me this _	<u>_17th_</u> day of	Augu	st 19	99	<b>_·</b>	
					, Minor	m (	Irmento	, <u> </u>		
					Notary P		<u> </u>		APA E	OFFICIAL SEAL GILLIAN ARMENTA
My Co	ommissio	n expires:	10/2/9	9	riotary	<i>,</i> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		13	Not Not	NOTARY PUBLIC - NEW MEXICO ary Bond Filed with Secretary, of State
My Commission expires: 10/2/99  My Commission expires: 10/2/99  MY COMMISSION EXPIRES 10/2/99										
FOR OIL CONSERVATION DIVISION USE ONLY:										
FOR C										
V1.	VI. CERTIFICATION OF APPROVAL: This Application is hereby approved and the above-referenced well is designated a Well Workover Project and the									
	Division hereby verifies the data shows a positive production increase. By copy hereof, the Division notifies the									
	Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project was									
	completed on $\frac{12/16.98}{}$ .									
	*								<del></del>	
Signatu	re District S	Supervisor			OCD Distr	ict 		Date	,	
1			_<	· > -/			<i>f</i>	1	0/13	5/55
				-					- (	
VII.	DATE	F NOTIFIC	T NOITA	O THE SECRETA	RY OF THE TAXA	TION	AND REVE	NUE D	EPARTM	ENT:

29-6 #52 Workover Production Increase



API#	29-6 #52	MCF/Month	
30-039-07503	Dec-97	5,788	
	Jan-98	5,436	
	Feb-98	4,863	
	Mar-98	2,200	
	Apr-98	4,238	
	May-98	2,628	
	Jun-98	3,747	
	Jul-98	2,507	
	Aug-98	4,411	
	Sep-98	6,601	
	Oct-98	5,960	
	Nov-98	3,538	
WORK OVER	Dec-98	6,951	
	Jan-99	15,123	
	Feb-99	10,564	
	Mar-99	11,008	

Form 3160-5 (June 1990)	DEPARTMENT O	O STATES OF THE INTERIOR ID MANAGEMENT	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993  5. Lease Designation and Serial No.						
	SUNDRY NOTICES AND I	REPORTS ON WELLS o deepen or reentry to a different reserv	SF-080146						
<u></u>	7. If Unit or CA, Agreement Designation								
1. Type of Well Oil Well Well Gas	San Juan 29-6 Unit 8. Well Name and No.								
2. Name of Operator Phillips Petrol	leum Company		SJ 29-6 Unit #52						
3. Address and Telephone I	Phillips Petroleum Company  3. Address and Telephone No.  5525 Highway 64, NBU 3004, Farmington, NM 87401 505-599-3453								
	e, Sec., T., R., M., or Survey Description		10. Field and Pool, or exploratory Area						
Unit B, 990° FN Section 34, T29	Blanco Mesaverde 11. County or Parish, State Rio Arriba, NM								
12. CHECK A	APPROPRIATE BOX(s) TO	O INDICATE NATURE OF NOTICE, RE							
TYPE OF S	UBMISSION	TYPE OF A	CTION						
Notice o		Abandonment Recompletion	Change of Plans New Construction						
X Subsequ	ent Report	Plugging Back	Non-Routine Fracturing						
Final At	pandonment Notice	Casing Repair Altering Casing	Water Shut-Off Conversion to Injection						
		Other Add pay and stim							
See attached for Mesaverde format	procedure used to add prion.	pay and stimulate the Lewis Shale ·	99.						
			PECEIVED  JAN 11 PH 1: 13  O FARRESCOION, NM						
14. I hereby carries that the fo	pregoing is true and correct for	Tide Regulatory Assistant	Date 1/8/99						
(This space for Federal of Approved by	State office use)	Tide							
Conditions of approval, if	any:	Title	ILLEPTED FOR RECUKL						
Title 18 U.S.C. Section 1001, or representations as to any m	makes it a crime for any person knowin	gly and willfully to make to any department or agency of t	ne United States 4 Walf Ectif 999 fraudulent statements						

## San Juan 29-6 Unit #52 SF-080146; Unit B, 990' FNL & 1650' FEL Section 34, T29N, R6W; Rio Arriba County, New Mexico

# Procedure used to squeeze cement behind the casing at the Lewis Shale interval and then perf & stimulate the Lewis Shale interval in the existing Mesaverde formation.

### 12/10/98

MIRU Key Energy #40. Killed well. ND WH & NU BOPs. COOH w/2-3/8" tubing. RIH w/bit & scraper and tag down to 5625. COOH. RIH w/5 ½" CIBP & set @ 4950'. Load hole w/2% KCl & PT casing to 500 psi for 30 min. – Good test. COOH.

RU Blue Jet & logged well. Ran GR/CCL/CBL from 4900' to surface. Picked squeeze holes. Shoot four .38" holes @ 3875'. RD Blue Jet. GIH & set 5-1/2" Baker cement retainer @ 3817' on WS. PT – OK. Pumped 14 bbls CI H neat (64 sx) w/2% CaCl2. Avg rate 2.5 bpm/315 psi. Displaced w/ 14.5 bbls. Shut down for 5 mins., then pumped ½ bbl water @ 1050 psi. Left approx. ½ bbl cement above cement retainer. Sting out of cement retainer. RD BJ cementing equipment. COOH w/WS & cement retainer tool. RIH w/bit & tagged cement @ 3808'. Drilled cement from 3801 to 3817'. Drilled out cement retainer. Drilled ahead through cement to 3875'. CIH w/CIBP and set @ 4950'. Displace – reversed circulated well w/clean water. PT casing & squeeze to 500 psi for 30 min. OK. COOH.

RU Bluejet & perf'd Lewis Shale interval @ 1 spf 120 deg. phasing. .38" diam. as follows: (Huerfanito Bentonite not present, equivalent stratigraphic depth is 3955').

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4725' - 4728' (3'); 4683' - 4686' (3'); 4650' - 3653' (3'); 4605' - 4608' (3'); 4529' - 4532' (3'); 4452' - 4455' (3'); 4417' - 4420' (3'); 4248' - 4411' (3'); 4341' - 4344' (3'); 4333' - 4336' (3'); 4308' - 4311' (3'); 4248' - 4251' (3'); 36 holes total
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GIH w/4 ½" packer & set @ 4032'. PT casing annulus & packer to 500 psi – OK. RU to acidize Lewis Shale. Pumped 1000 gal of 15% HCL & ballsealers. Knocked balls off & COOH w/packer.

RIH & set 4 ½" packer @ 3980'. PT casing annulus, lines – OK. RU to frac Lewis Shale. Pumped 60 Quality X-link  $N_2$  foam & 199,860 # of 20/40 Brady sand with additives. Total 769,000 scf  $N_2$ , 874 bbls fluid. 30# base gel. ATR – 40 bpm and ATP – 3450 psi. ISIP 380 psi. Flowed back immediately on two ½" chokes for approximately 40 hours.

Released & COOH w/packer. RIH w/2-3/8" 4.7# tubing and cleaned out to 4950' (CIBP). Drilled out CIBP. Cleaned out to PBTD @ 5615'. COOH. RIH w/2-3/8" 4.7# J-55 tubing and set @ 5497' with "F" nipple set @ 5464'. ND BOPs & NU WH. Pumped off expendable check. RD & released rig 12/18/98. Turned well over to production department,