UNITED STATES DEPARTMENT OF THE INTEDIOR

FORM APPROVED OMB No. 1004-0136 Expires November 30, 2000

DEFARIMENT OF I	HE INTERIOR			
BUREAU OF LAND N	5. Lease Serial No. NMSF080066			
APPLICATION FOR PERMIT TO DRILL OR REENTER			6. If Indian, Allottee or Trib	e Name
Ia. Type of Work: DRILL REENTER		N 23 24 25 26 3	7. If Unit or CA Agreement,	
		ele Zone	8. Lease Name and Well No SAN JUAN 30-5 UNIT	
PHILLIPS PETROLEUM COMPANY	PATSY CLUGSTON E-Mail: plclugs@ppco.co	w Office Die	API Well No. 30-039-2	
3a. Address 5525 HWY. 64 FARMINGTON, NM 87401	3b. Phone No. (included Ph: 505.599.3454 Fx: 505-599-3442	45 N	BASIN FRUITLAND	ratory COAL
4. Location of Well (Report location clearly and in accordance	ince with any State requ	iirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area
At surface SWNW 1755FNL 1155FW	L 36.84417 N Lat, 1	107.38530 W Lon	Sec 5 T30N R5W M	er NMP
14. Distance in miles and direction from nearest town or post 66 1/2 MILES FROM BLOOMFIELD, NM	office*		12. County or Parish RIO ARRIBA	13. State NM
15. Distance from proposed location to nearest property or	16. No. of Acres in L	ease	17. Spacing Unit dedicated	to this well
lease line, ft. (Also to nearest drig. unit line, if any) 1155	1158.00		319.31 W/2	
18. Distance from proposed location to nearest well, drilling,	19. Proposed Depth		20. BLM/BIA Bond No. on	file
completed, applied for, on this lease, ft.	3343 MD 3343 TVD		ES0048	
21. Elevations (Show whether DF, KB, RT, GL, etc. 6455 GL	22. Approximate date 01/01/2003	e work will start	23. Estimated duration 20 DAYS	
	24. Atta	achments		
The following, completed in accordance with the requirements o	f Onshore Oil and Gas (Order No. 1, shall be attached to	this form:	
 Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Off 		4. Bond to cover the operation Item 20 above). 5. Operator certification 6. Such other site specific infauthorized officer.	·	· ·
25. Signature (Electronic Submission)	Name (Printed/Typed) PATSY CLUGS			Date 11/16/2002
Title AUTHORIZED REPRESENTATIVE				
Approved by (Signature) Pavid J. Mankiewicz	Name (Printed/Typed))	וח	Date
Title	Office		——————————————————————————————————————	± 6
Application approval does not warrant or certify the applicant hoperations thereon. Conditions of approval, if any, are attached.	lds legal or equitable tit	tle to those rights in the subject le	ase which would entitle the ap	plicant to conduct
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, States any false, fictitious or fraudulent statements or representate			o make to any department or ag	gency of the United
Additional Operator Remarks (see next page)				

Electronic Submission #16155 verified by the BLM Well Information System For PHILLIPS PETROLEUM COMPANY, sent to the Farmington Committed to AFMSS for processing by Lucy Bee on 11/18/2002 ()

** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL **

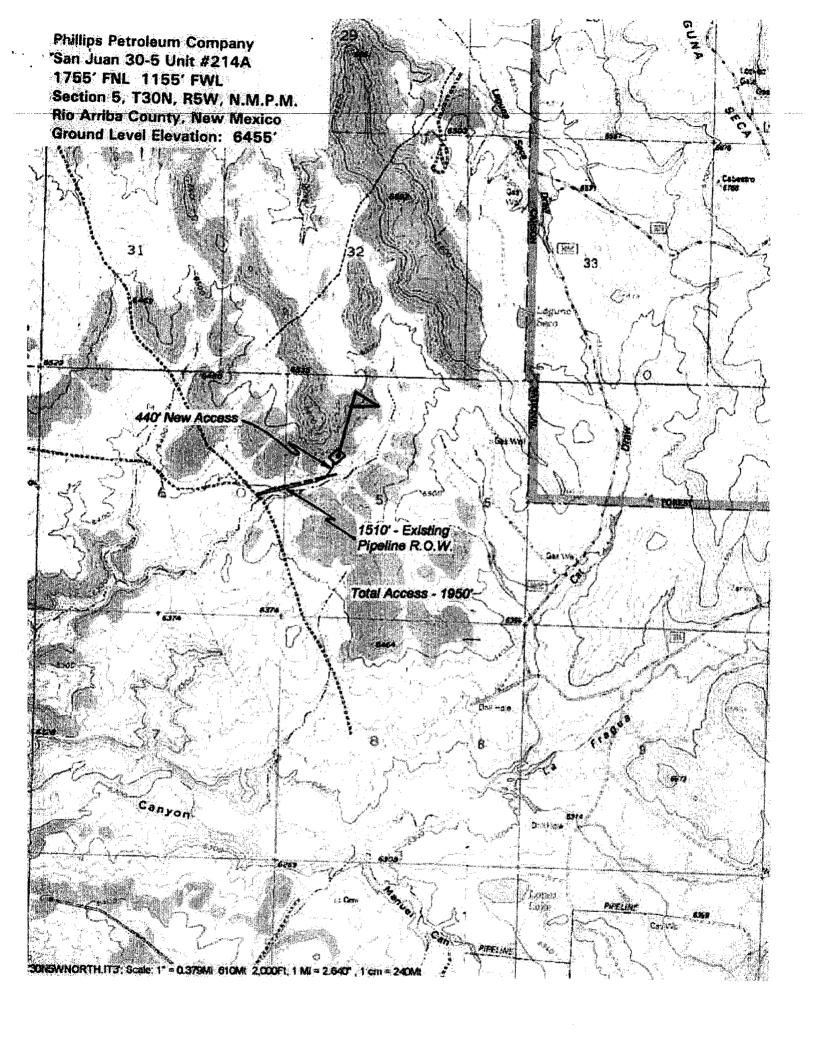
HOLD CION FOR NEW Plat

DISTRICT I Form C-102 P.O. Box 1980, Hobbs, N.M. 88241-1980 Revised Febuary 21, 1994 Instructions on back 811 South First, Artests, N.M. 88210 Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies 1000 Rio Brasos Rd., Astec, N.M. 67410 ☐ AMENDED REPORT 2040 South Pacheco, Santa Fe, NM 87504-2088 WELL LOCATION AND ACREAGE *Pool Code 71629 Basin Fruitland Coal Well Number Property Name 009258 SAN JUAN 30-5 UNIT <u> 214A</u> OGRID No. Elevation 017654 64551 PHILLIPS PETROLEUM COMPANY Surface Location UL or lot no. Section Township Lot Idn Feet from the North/South line East/Vest line Feet from the County E 30N 5W 1755 NORTH WEST RIO ARRIBA 1155 11 Bottom Hole Location If Different From Surface UL or let no. Lot Idn Feet from the North/South line Section Township Feet from the East/West line County Dedicated Acres Joint or Infill Consolidation Code "Order No. 319.31 W/2 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 N89°57'W' 5280.01 reby certify that the information o lets to the best of my knowledge and belief В 5 7 6 1155' Patsy Clugston SF-080066 1158.12 acres SHEAR Administrative Asst. 11/14/02 Section 5 18 SURVEYOR CERTIFICATION 10/17/02 Date of Survey 135 91

N89°58'E

5279.341

801



Form 3160-5 (August 1999)*

UNITED STATES. DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

5. Lease Serial No. NMSF080066

abandoned we	is form for proposals to II. Use form 3160-3 (AP	PD) for such pro	posals.		6. If Indian, Allottee o	r Tribe Name
SUBMIT IN TRI	PLICATE - Other instru	ctions on revers	se side.		7. If Unit or CA/Agree	ement, Name and/or No.
1. Type of Well					8. Well Name and No.	INIT 044A
Oil Well Gas Well Ot					SAN JUAN 30-5 L	JNII 214A
2. Name of Operator PHILLIPS PETROLEUM COM	Contact: IPANY	PATSY CLUGS E-Mail: plclugs@p			9. API Well No. 30-039-27251-0	00-X1
3a. Address 5525 HIGHWAY 64 NBU 300 FARMINGTON,, NM 87401	4	3b. Phone No. (in Ph: 505.599.3 Fx: 505-599-3	3454	e)	10. Field and Pool, or BASIN FRUITLA	
4. Location of Well (Footage, Sec., 2	C., R., M., or Survey Description	on)			11. County or Parish,	and State
Sec 5 T30N R5W SWNW 173 36.84417 N Lat, 107.38530 V					RIO ARRIBA CO	OUNTY, NM
12. CHECK APP	ROPRIATE BOX(ES) T	O INDICATE N	ATURE OF	NOTICE, R	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION		· · · · · · · · · · · · · · · · · · ·	ТҮРЕ О	F ACTION		
Notice of Intent	Acidize	☐ Deepen	1	☐ Product	tion (Start/Resume)	Water Shut-Off
Notice of Intent	Alter Casing	Fractur	e Treat	☐ Reclam	ation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Co	onstruction	☐ Recom	olete	Other
Final Abandonment Notice	☐ Change Plans	Plug an	nd Abandon	Tempor	arily Abandon	Change to Original A PD
_	Convert to Injection	Plug B	ack	□ Water I	Disposal	
The geological tops were wro attached for new drilling prog	ng on the original Drilling	prognosis subm	nitted with the	e APD. See		
14. I hereby certify that the foregoing i	s true and correct. Electronic Submission For PHILLIPS PE mmitted to AFMSS for pro-	TROLEUM COMP	ANY. sent to	the Farmingt	on	
Name (Printed/Typed) PATSY C	LUGSTON	Т	itle AUTH	ORIZED REF	PRESENTATIVE	
Signature (Electronic	Submission)	D	Date 11/26/2	2002		
***	THIS SPACE F		OR STATE	OFFICE U	SE 	
	wid J. Mankiewicz	· — —	Title AF	m	DEC	18 2002
Conditions of approval, if any, are attach- certify that the applicant holds legal or eq which would entitle the applicant to cond	uitable title to those rights in the	he subject lease	Office /	- -0		·
Fitle 18 U.S.C. Section 1001 and Title 43	U.S.C. Section 1212, make it	a crime for any perso	on knowingly at	nd willfully to n	nake to any department of	r agency of the United

Form 3160-5 (August 1999)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED OMB NO. 1004-0135 Expires: November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an 5. Lease Serial No. NMSF080066

abandoned wel	II. Use form 3160-3 (APD) f	or such proposals.	o. Il lilulan, Anottee	of Tribe Name
SUBMIT IN TRI	PLICATE - Other instruction	ns on reverse side.	7. If Unit or CA/Agr	eement, Name and/or No.
Type of Well ☐ Oil Well ☐ Gas Well ☑ Oth Name of Operator	O	TSY CLUGSTON A	8. Well Name and No SAN JUAN 30-5	UNIT 214A
PHILLIPS PETROLEUM COM	MPANY E-M	fail: plclugs@ppco.com ທີ່		
3a. Address 5525 HIGHWAY 64 NBU 3004 FARMINGTON,, NM 87401	4 P	n. Phone No. (include wea code h: 505.599:3454 x: 505-599:3442	e) 310. Field and Pool, of BASIN FRUITI	LAND COÁL
4. Location of Well (Footage, Sec., 1 Sec 5 T30N R5W SWNW 175 36.84417 N Lat, 107.38530 W	55FNL 1155FWL		RIO ARRIBA (
12. CHECK APPI	ROPRIATE BOX(ES) TO I	NDICATE NATURE OF	NOTICE, REPORT, OR OTHI	ER DATA
TYPE OF SUBMISSION	•"	ТҮРЕ С	OF ACTION	
Notice of Intent	□ Acidize	□ Deepen	☐ Production (Start/Resume)	□ Water Shut-Off
_	☐ Alter Casing	☐ Fracture Treat	Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	Recomplete	Other
☐ Final Abandonment Notice	☐ Change Plans	□ Plug and Abandon	Temporarily Abandon	Change to Original A PD
	Convert to Injection	□ Plug Back	■ Water Disposal	
determined that the site is ready for f More details on the drilling pro #9. Cement Program: Liner- set @ TD and tie 200' into the completed by fracture stimula Will cement the Lead Slurry w III cement + 0.25#/sx Cello-fla + 4% bwoc FL-25 mixed + 0.2 Tail - 50 sx Type III cement + cf/sx yield = 70 cf).	ognosis submitted with the A if the coal is NOT cleated, a e 7" shoe. It then would be c ition. with Type III cement - 150% e ake + 5#/sx Gilsonite + 6% b 2#/sx static free mixed at 10. 0.2#/sx Cello-flake + 1% Ca	4-1/2" 11.6#, J/K-55 liner ement in place. The well excess casing hole annula woc Bentonite + 10#/sx C ppg (2.52 cf/sx yield).	will be ar volume with Type SE + 3% bwow KCI	
Con	Electronic Submission #16i For PHILLIPS PETRO mmitted to AFMSS for process	LEUM COMPANY, sent to sing by Adrienne Garcia on	the Farmington 12/13/2002 (03AXG0405SE)	
Name (Printed/Typed) PATSY C	LUGSTON	Title AUTH	ORIZED REPRESENTATIVE	
Signature (Electronic	Submission)	Date 12/12/		
	THIS SPACE FOR	FEDERAL OR STATE	OFFICE USE	
Approved By	rid J. Mankiewicz	Title	JEM	DEC 18 2002
Conditions of approval, if any, are attached certify that the applicant holds legal or eq which would entitle the applicant to conditions.	uitable title to those rights in the su uct operations thereon.	bject lease Office	to	
Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a cri statements or representations as to	me for any person knowingly a any matter within its jurisdiction	nd willfully to make to any department on.	or agency of the United

PHILLIPS PETROLEUM COMPANY

WEL	L NAME:	San Jua	<u> 1130-5 Unit</u>	#214A			
DRIL	LING PROGNOSIS						
	Location of Proposed	_	Unit E, 175 Section 5, T		55' FWL	- -	
2.	Unprepared Ground I	Elevation:	:	@ 6455'			
3.	The geological name	of the sur	rface format	ion is <u>San Jos</u>	<u>ie</u>		
4.	Type of drilling tools	will be _	rotary				
	Proposed drilling dep	oth is3	3255'				
6.	Kirtland - 267		Bas Pict Inte	e of Coal - 3 ure Cliffs - 3 rm. Casing - 3	3255' 3260'	- - -	
7	The estimated depth formations are expec		-		. •	other mineral b	earing
	Water: Oil: Gas: Gas & Water:		none none d Coal - d Coal -	2525' - 26 3130' - 32 3130' - 32	255'	- - - - -	
8.	The proposed casing	program	is as follow	s:			
	Surface String: 9-5 Intermediate String: Production Liner: 5	7", 20#, J	/K-55 @ 3	3110'	i5' (see det	ails below)	
	* The surface cas required to maintain			minimum of	200', but	could be set dee	eper if
9.	Cement Program: Surface String: casing/hole annulus Cello-flake + 60.6%	<u>volume w</u>	/Type III co	ement + 2% b	woc Calciu		

9. Cement program: (continued from Page 1)

Intermediate String: Lead Cement: 353.2 sx Type III cement. Cement to surface -

110% excess casing/hole annular volume w/ Type III cement + 0.25#/sx Cello-flake + 5#/sx Gilsonite + 6% bwoc Bentonite + 10#/sx CSE + 3% bwow KCL + 0.4% bwoc FL-25 mixed + 0.02#/sx static free mixed at 12.0 ppg. (2.52 cf/sx yield = 890cf)

Tail: 50 sx Type III cement + 0.25#/sx Cello-flake + 1% Calcium Chloride mixed at 14.5 ppg. (1.40 cf/sx yield = 70 cf)

Note: Phillips Petroleum continually works to improve the cement slurries on our wells. BJ Services is currently trying to improve what we are using now and before we would use a new cement program it would have to have stronger properties than we are currently using.

Centralizer Program:

Surface: Total four (4) - 10' above shoe and top of 2nd, 3rd, & 4th jts.

Intermediate: Total seven (7) - 10' above shoe and top of 1st, 2nd, 4th, 6th, 8th, &

1st jt. into shoe.

Turbulators: Total three (3) - one at 1st it below Ojo Alamo and next 2 its up.

Liner:

• If the coal is cleated a 5 ½" 15.5# liner will be run in the open hole without being cemented.

• If the coal is not cleated, a 4-1/2" 11.6# liner will be run & cemented. The well will then be completed by fracture stimulation.

10. The minimum specifications for pressure control equipment which are to be used, a schematic diagram thereof showing sizes, pressure ratings (or) API series and the testing procedure and testing frequency are enclosed within the APD packet.

Drilling Mud Prognosis: Surface - spud mud on surface casing.

Intermediate - fresh water w/polymer sweeps. Bentonite as

required for viscosity.

Below Intermediate - air drilled.

12. The testing, logging, and coring programs are as follows:

D.S.T.s or cores:

Logs: Mud logs only

San Juan 30-5 Unit #214A

SUR	FACE	CASII	NG:

Drill Bit Diameter	12,25 "	
Casing Outside Diameter	9.6 25 "	8.989
Casing Weight	32.3 ppf	
Casing Grade	H-40	
Shoe Depth	200	30
Cement Yield	1.41 cuft/sk	
Excess Cement	110 %	

Casing Capacity 0.0785 bbl/ft 0.4407 cuft/ft Hole / Casing Annulus Capacity 0.0558 bbl/ft 0.3132 cuft/ft

Cement Required 102.7 sx

SHOE 200 ', 9.625 ", 32.3 ppf, H-40

INTERMEDIATE CASING:

Drill Bit Diameter	8.75 "	
Casing Outside Diameter	7 "	6.455
Casing Weight	20 ppf	
Casing Grade	J ₂ 55	
Shoe Depth	3110 '	
Lead Cement Yield	2.52 cuft/sk	
Lead Cement Excess	110 %	
Tail Cement Length	200	30
Tail Cement Yield	1.4 cuft/sk	
Tail Cement Excess	110 %	

Casing Capacity 0.0405 bbl/ft 0.2272 cuft/ft Casing / Casing Annulus Capacity 0.0309 bbl/ft 0.1734 cuft/ft Hole / Casing Annulus Capacity 0.0268 bbl/ft 0.1503 cuft/ft

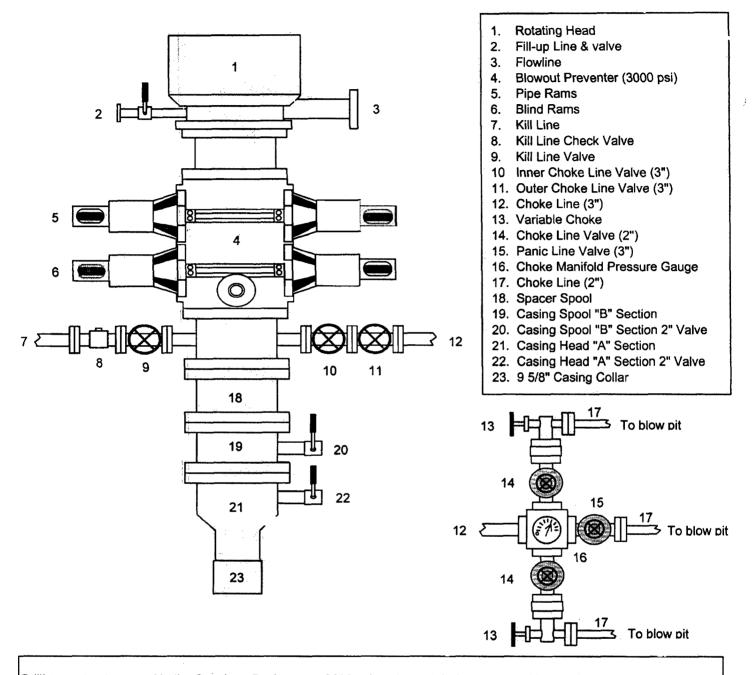
Lead Cement Required 353.2 sx Tail Cement Required 50.0 sx

LINER TOP 3090 '

SHOE 3110', 7", 20 ppf, J-55

LINER BOTTOM 3255 '

BLOWOUT PREVENTER HOOKUP



Drilling contractors used in the San Juan Basin suppy 3000 psi equipment, but cannot provide annular preventors because of sub-structure limitations. Maximum anticipated surface pressures for this well will not exceed the working pressure of the proposed BOP system. The above diagram of the BOP system details 2000 psi equipment according to Onshore Order No. 2 even thought the equipment will test to 3000 psi. The 2000 psi system allows deletion of the annular preventor and fulfills your requirements.

In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. Upper Kelly cock Valve with handle
- 2. Stab-in TIW valve for all drillstrings in use