District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. 1st Street, Artesia, NM 88210

2-20-03

State of New Mexico Energy, Minerals & Natural Resources

Form C-101 Revised March 17, 1999

Oil Conservation Division 1220 S. St. Francis Dr. Santa Fe, NM 87505

Submit to appropriate District Office

District III State Lease - 6 Copies 1000 Rio Brazos Rd., Aztec, NM 87410 Fee Lease - 5 Copies District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 AMENDED REPORT APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE Operator Name and Address OGRID Number 217817 ConocoPhillips Company ³ API Number P.O. Box 2197, Houston, TX 77252 30-⁵Property Name ⁴Property Code Well No. 31328 San Juan 31-6 Unit 215A ⁷Surface Location UL or lot no. Section Township Range Lot. Idn Feet from the North/South Line Feet from the East/West line County Ε **6W** 1330 1205 36 31N North West Rio Arriba ⁸ Proposed Bottom Hole Location If Different From Surface UL or lot no. Section Township Lot. Idn Feet from the North/South Line Feet from the East/West line County Ε ¹⁰ Proposed Pool 2 ⁹ Proposed Pool 1 Basin Fruitland Coal - 71629 15 Ground Level Elevation 11 Work Type Code 13 Cable/Rotary 14 Lease Type Code 12 Well Type Code S (E-347-41) 6436' GL 16 Multiple 17 Proposed Depth 18 Formation 19 Contractor 20 Spud Date 3236 Fruitland Coal Key May 2003 N ²¹ Proposed Casing and Cement Program Casing weight/foot Setting Depth Sacks of Cement Estimated TOC Hole Size Casing Size 12-1/4" 9-5/8" 32.3#, H-40 200' 106.6 sx surface 8-3/4" 7" 20#, J/K-55 3071' 436.4 sx surface 6-1/4" 15.5#, J/K-55 (see drilling 5-1/2" 3051' - 3236' program) ²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary. See attached for BOP and cathodic protection details, drilling program, topo maps and geological tops. ²³ I hereby certify that the information given above is true and complete to the OIL CONSERVATION DIVISION best of my knowledge and belief. Approved by: Signature: Pats Clugston Printed name: Title: Expiration Date SHEAR Administrative Assistant Title: Approval Date Date: Conditions of Approval: Phone:

Attached ____

DISTRICT I P.O. Box 1980, Hobbs, N.M. 88241-1980 DISTRICT II 611 South First, Artesia, N.M. 88210

1000 Rio Brazos Rd., Aztec, N.M. 87410

DISTRICT DI

State of New Mexico Energy, Minerals & Natural Resources Department

Bricks Branch State Care

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, NM 87504-2088

Form C-102
Revised Febuary 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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PHILLIPS PETROLEUM COMPANY

WELL	NAME: _	San J	uan 31=6 Unit #215A
DRILI	LING PROC	GNOSIS	
1.	Location of	Proposed Well:	Unit E, 1330' FNL 7 1205' FWL Section 36, T31N, R6W
2.	Unprepared	Ground Elevation	on: <u>@ 6436'</u> .
3.	The geologi	cal name of the	surface formation is <u>San Jose</u> .
4.	Type of dril	ling tools will be	e <u>rotary</u> .
5.	Proposed dr	illing depth is _	3236'
6.		tto - 1251' 0 - 2491' 2621' 2936'	tant geologic markers are as follows: Base Coal Interval – 3236' Pictured Cliffs Tongue- 3241' Picture Cliffs - 3416' Interm. Casing - 3071' T. D 3236'
7.		•	which anticipated water, oil, gas or other mineral bearing be encountered are as follows:
	Wat Oil: Gas: Gas & Wat	: <u>Fruitl</u>	Alamo - 2491' - 2621' none and Coal - 3091' - 3416' and Coal - 3091' - 3416'
8.	The propose	ed casing program	m is as follows:
	Intermediate	e String: <u>7", 20#,</u>	3#, H-40 @ 200' * , J/K-55 @ 3071' 5.5# J/K-55 @ 3051' - 3236' (see details below)
		rface casing wil maintain hole sta	l be set at a minimum of 200', but could be set deeper in ablity.

Surface String: 106.6 sx 50/50 POZ Standard with 3% bwoc CaCl₂ + 0.5 lbs/sx Flocele + 2% Bentonite + 5 lbs/sx Glisonite + 0.2% CFR-3 mixed at 13.5 ppg with a 1.34

9.

Cement Program:

ft³/sx yield.

9. Cement program: (continued from Page 1)

Intermediate String:

Lead Cement: 343.9 sx Standard with 3% Econolite + 10 lbs/sx Gilsonite + 0.5 lbs/sx Flocele + mixed at 11.4 ppg with a yield of 2.91 ft³/sx

Tail: 92.5 sx - 50/50 Poz Standard with 0.25 lbs/sx Flocele + 5 lbs/sx Gilsonite + 2% Bentonite and 2% CaCl₂ mixed at 13.5 ppg with a 1.33 ft³/sx yield.

Note: ConocoPhillips Company continually works to improve the cement slurries on our wells. Our Cementing Service Companies are 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 its.

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.

<u>Liner:</u>

- 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. The top of the liner will be set approx. 200' into the 7" casing and be set @ TD and be cement in place as follows:

<u>Lead Cement</u>: Approx. 150% excess - Standard with 3% Econolite + 10 lbs/sx Gilsonite + 0.5 lbs/sx Flocele + mixed at 11.4 ppg with a yield of 2.91 ft³/sx

Tail: 50/50 Poz Standard with 0.25 lbs/sx Flocele + 5 lbs/sx Gilsonite + 2% Bentonite and 2% CaCl₂ mixed at 13.5 ppg with a 1.33 ft³/sx yield.

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.

San Juan 31-6 #215A

SURFACE CASING:

Drill Bit Diameter	12.25 "	
Casing Outside Diameter	9.625 "	8.989
Casing Weight	32.3 ppf	
Casing Grade	H-40	
Shoe Depth	200 '	40
Cement Yield	1.34 cuft/sk	
Excess Cement	100 %	

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

Cement Required 106.6 sx

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

INTERMEDIATE CASING:

Drill Bit Diameter Casing Outside Diameter	8.75 " 7 "	6.455
Casing Weight	, 20 ppf	0.400
Casing Grade	J-55	
Shoe Depth	3071 '	
Lead Cement Yield	2.91 cuft/sk	
Lead Cement Excess	150 %	
Tail Cement Length	300 '	45 '
Tail Cement Yield	1.33 cuft/sk	
Tail Cement Excess	150 %	

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

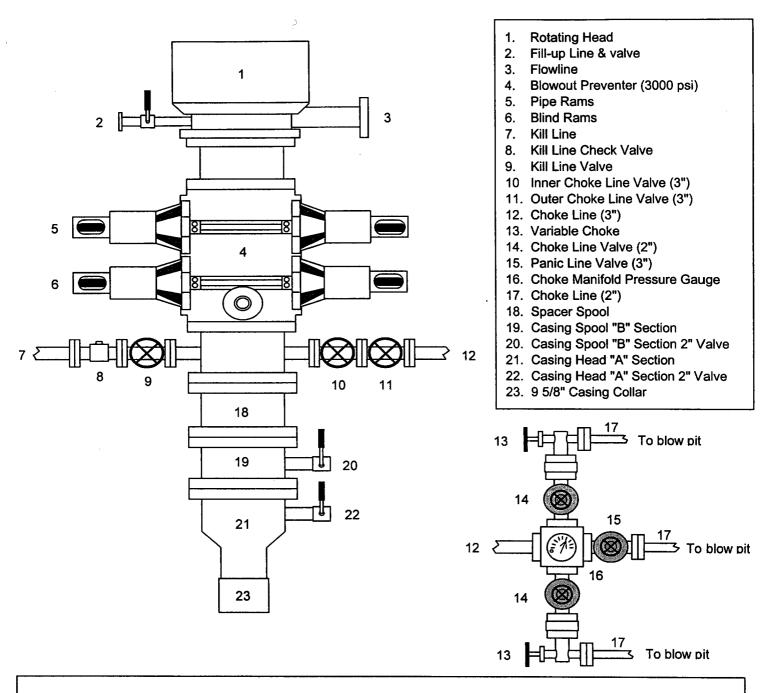
Lead Cement Required 343.9 sx Tail Cement Required 92.5 sx

LINER TOP 3051 '

SHOE 3071', 7", 20 ppf, J-55

LINER BOTTOM 3236'

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

San Juan 31-6 Unit #215A E-347-41; Unit E, 1330' FNL & 1205' FWL Section 36, T31N, R6W; Rio Arriba County, NM

Cathodic Protection

Phillips proposes to drill a cathodic protection deep well groundbed for the subject well. Will drill a 6-7/8" hole to an anticipated minimum depth of 300' (maximum depth of 500'). Cement plugs will not be used unless more than one water zone is encountered. Prior drilling history for the area indicates only one zone to that depth. If more than one water zone is encountered, notification will be made and details of cement and casing will be provided.

All drilling activity will remain on existing well pad and a Farmington based company will be doing the drilling for Phillips.