Form 3160-3 (August 1999)

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

1b. Type of Well:			
Ta. Type of Work: DRILL REENTER 7. If Unit or CA Agreement, Name and No. San Juan 32 FED 22 2A 1b. Type of Well: Oil Well Gas Well Other: CBM Single Zone Multiple Zone 2. Name of Operator CONOCOPHILLIPS COMPANY 3a. Address 5525 HWY. 64 FARMINGTON, NM 87401 4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface SENW 1600FNL 1725FWL 36.97278 N Lat, 107.76940 W Lon At proposed prod. zone 7. If Unit or CA Agreement, Name and No. San Juan 32 FED 22 2A 8. Lease Name and Well No. SAN JUAN 32 FED 22 2A 9. API Well No. 3. O 4 5 3 / 6 / 3 10. Field and Pool, or Exploratory BASIN FRUITLAND COAL Fig. 505.599.3454 FX: 505-599-3442 11. Sec., T., R., M., or Blk. and Survey or Sec 22 T32N R9W Mer NMP At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. 13.			
1b. Type of Well:	6. If Indian, Allottee or Tribe Name		
1b. Type of Well:	7. If Unit or CA Agreement, Name and No.		
2. Name of Operator CONOCOPHILLIPS COMPANY 3a. Address 5525 HWY. 64 FARMINGTON, NM 87401 3b. Phone No. (include area code) Ph: 505.599.3454 FX: 505-599-3442 4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface SENW 1600FNL 1725FWL 36.97278 N Lat, 107.76940 W Lon At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 15. API Well No. 3 0 0 4 5 3 16 13 10. Field and Pool, or Exploratory BASIN FRUITLAND COAL 11. Sec., T., R., M., or Blk. and Survey or Sec 22 T32N R9W Mer NMP	<u></u>		
3a. Address 5525 HWY. 64 FARMINGTON, NM 87401 3b. Phone No. (include area code) Ph: 505.599.3454 FX: 505-599-3442 4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface SENW 1600FNL 1725FWL 36.97278 N Lat, 107.76940 W Lon At proposed prod. zone 11. Sec., T., R., M., or Blk. and Survey or Sec 22 T32N R9W Mer NMP At proposed prod. zone 12. County or Parish 13. Sec. 23 T32N R9W Mer NMP			
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At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. S	Area		
14. Distance in miles and direction from nearest town or post office* 18.6 MILES NE OF AZTEC, NM 12. County or Parish SAN JUAN N			
	tate VI		
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig, unit line, if any) 16. No. of Acres in Lease 17. Spacing Unit dedicated to this well	17. Spacing Unit dedicated to this well		
1725 1560.00 317.36 12			
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	 		
3656 MD ES0085 3656 TVD			
21. Elevations (Show whether DF, KB, RT, GL, etc. 6871 GL 22. Approximate date work will start 05/30/2003 23. Estimated duration 30 DAYS			
24. Attachments			
The following, completed in accordance with the requirements of 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 System Lands, the SUPO shall be filed with the appropriate Forest Service Office). Bond to cover the operations unless covered by an existing bond on file Item 20 above). Operator certification Such other site specific information and/or plans as may be required by authorized officer. 			
25. Signature (Electronic Submission) Name (Printed/Typed) PATSY CLUGSTON Date 04/04/20)3		
AUTHORIZED REPRESENTATIVE MAY 2003			
Approved by Senature J. Mankiewicz Name (Printed/Typed)	3 200		
Title Office			
Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to concoperations thereon. Conditions of approval, if any, are attached.			

Additional Operator Remarks (see next page)

Electronic Submission #20308 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, sent to the Farmington

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4

Pri Box 1980, Hobbs, NM 88241-1980 District II 311 South First, Artesia, NM 33210 District III 1000 Rlo Brazos Rd., Aztec, NM 87410 District IV

2046 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy, Minerals & Natural Resources Dep

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-102 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office State Lease - 4 Copies
Fee Lease - 3 Copies

PROPESSION

☐ AMENDED REPORT

<u> </u>				CATIO	N AND AC	REAGE DEDI	CATION PL	.AT	<u> </u>	
30.045-31613										
Property Code 31353				5 Property Name					* Well Number 2A	
'' OGRID No. 217817				SAN JUAN 32 FED 22 Operator Name CONOCOPHILLIPS COMPANY					'Elevation 6871	
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CONOCOPHILLIPS COMPANY

WEL	L NAME: San Juan 32 Fed 22 #2A
DRIL	LING PROGNOSIS
1.	Location of Proposed Well: Unit F, 1600' FNL & 1725' FWL Section 22, T32N, R9W
2.	Unprepared Ground Elevation: <u>@ 6871'</u> .
3.	The geological name of the surface formation is <u>San Jose</u> .
4.	Type of drilling tools will be <u>rotary</u> .
5.	Proposed drilling depth is <u>3656'</u> .
6.	The estimated tops of important geologic markers are as follows: Naciamento - 891' Base of Coal - 3656' Ojo Alamo - 2171' Intermediate casing - 3441' Kirtland - 2191' Picture Cliffs - 3666' Fruitland - 3291' T. D 3656' Top of Coal - 3316'
7.	The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:
	Water: Ojo Alamo - 2171' - 2191' Oil: none Gas: Fruitland Coal - 3316' - 3656' Gas & Water: Fruitland Coal - 3316' - 3656'
8.	The proposed casing program is as follows:
	Surface String: 9-5/8", 32.3#, H-40 @ 200' * Intermediate String: 7", 20#, J/K-55 @ 3441' Production Liner: 5-1/2", 15.5# J/K-55 @ 3421' - 3656' (see details below)
	* The surface casing will be set at a minimum of 200', but could be set deeper if required to maintain hole stability.
9.	Cement Program: Surface String: 123.2 sx Class G cement with 1.16 cuft/sx yield, 2% bwoc CaCl2 (S001), 0.25#/sx Cellophane Flake (D029) = 142.9 cf

9. Cement program: (continued from Page 1)

Intermediate String:

<u>Lead Cement</u>: 436.7 sx Class G w/3% D079 (chemical extender) 0.25#/sx D029 (Cellephone flakes, 0.05 GPS D047 (Antifoam Agent) 0.2% D046 Flocele (All purpose antifoam agent) mixed at 11.7 ppg and yield of 2.61 cuft/sx = 1139.7 cf.

Tail: 96.8 sx - 50/50/G/POZ cement w/2% D020 (Bentonite Extender), 2% S001 (CaCl2), 5#/sxD024 (Gilsonite), ½#/sx D029 (Celephane flakes) & 1% D046 (all purpose antifoam agent) @ a weight of 13.5 ppg and yield of 1.27 cuft/sx = 122.93 cf.

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.

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

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 32 Fed 22 #2A

SURFACE CASING:

Drill Bit Diameter Casing Outside Diameter Casing Weight Casing Grade Shoe Depth Cement Yield **Excess Cement**

8.989 40' cuft/sk

Casing Capacity

Hole / Casing Annulus Capacity

0.0785 bbl/ft 0.0558 bbl/ft

0.4407 cuft/ft 0.3132 cuft/ft

Cement Required

123.2 sx

SHOE

200 ', 9.625 ",

32.3 ppf,

H-40

INTERMEDIATE CASING:

Drill Bit Diameter Casing Outside Diameter Casing Weight Casing Grade Shoe Depth Lead Cement Yield **Lead Cement Excess** Tail Cement Length Tail Cement Yield Tail Cement Excess

6.455 ppf cuft/sk % 45 '

Casing Capacity Casing / Casing Annulus Capacity Hole / Casing Annulus Capacity

0.0405 bbl/ft 0.0309 bbl/ft 0.0268 bbl/ft 0.2272 cuft/ft 0.1734 cuft/ft 0.1503 cuft/ft

Lead Cement Required Tail Cement Required

436.7 sx 96.8 sx

LINER TOP

3421 '

SHOE

3441 ',

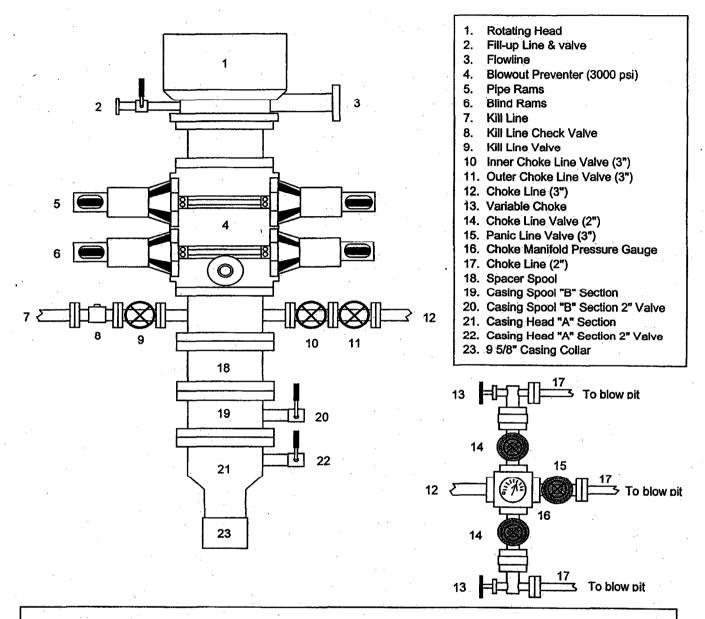
20 ppf,

J-55

LINER BOTTOM



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 32 Fed 22 #2A SF-079341; Unit F, 1600' FNL & 1725' FWL, Section 22, T32N, R9W; San Juan County, NM

Cathodic Protection

ConocoPhillips 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 ConocoPhillips.