

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 abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
ConocoPhillips Company

3a. Address
5525 Highway 64, NBU 3004, Farmington, NM 87401

3b. Phone No. (include area code)
505-599-3454

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Unit F (SENW) 1600 FNL & 1300' FWL
Section 27, T32N, R8W

5. Lease Serial No.

NMNM84809

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No

8. Well Name and No.

SJ 32-8 Unit #202A

9. API Well No.

30-045-31702-00-X-1

10. Field and Pool, or Exploratory Area

Basin Fruitland Coal

11. County or Parish, State

San Juan, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|--|---|--|---|
| <input type="checkbox"/> Acidize | <input type="checkbox"/> Deepen | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Alter Casing | <input type="checkbox"/> Fracture Treat | <input type="checkbox"/> Reclamation | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Casing Repair | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete | <input type="checkbox"/> Other |
| <input checked="" type="checkbox"/> Change Plans | <input type="checkbox"/> Plug and Abandon | <input type="checkbox"/> Temporarily Abandon | |
| <input type="checkbox"/> Convert to Injection | <input type="checkbox"/> Plug Back | <input type="checkbox"/> Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

We have changed our planned drilling procedure for this well. We will now be topsetting and cavitating this well. After the well has been cavitated a 5-1/2" liner will be run and perforated. See attached for the new Drilling Prognosis.



070 Farmington, NM

2003 JUL - 1 PM 4: 03

RECEIVED

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Patsy Clugston

Title

SHEAR Administrative Assistant

Date

7/1/03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

/s/ Jim Lovaio

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

JUL - 7 2003

PHILLIPS PETROLEUM COMPANY

WELL NAME: San Juan 32-8 Unit #202A

DRILLING PROGNOSIS

1. Location of Proposed Well: Unit F, 1600' FNL & 1300' FWL
Section 27, T32N, R8W
2. Unprepared Ground Elevation: @ 6742'
3. The geological name of the surface formation is San Jose
4. Type of drilling tools will be rotary
5. Proposed drilling depth is 3710'
6. The estimated tops of important geologic markers are as follows:

<u>Nacimiento - 905'</u>	<u>Base Coal Interval - 3650'</u>
<u>Ojo Alamo - 2380'</u>	<u>Pictured Cliffs - 3650'</u>
<u>Kirtland - 2425'</u>	<u>Interm Casing - 3320'</u>
<u>Fruitland - 3230'</u>	<u>T. D. - 3710'</u>

TD includes 60' of sump/rathole & COPC will comply with the BLM/OCD's Conditions of Approval for the proposed sump/rathole in this non-producing Pictured Cliffs Formation.

7. The estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered are as follows:

Water:	<u>Ojo Alamo - 2380' - 2425'</u>
Oil:	<u>none</u>
Gas:	<u>Fruitland Coal - 3230' - 3650'</u>
Gas & Water:	<u>Fruitland Coal - 3230' - 3650'</u>

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 @ 3320'
Production Liner: 5-1/2", 15.5# J/K-55 @ 3300' - 3710' (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 2% bwoc CaCl₂ (S001), 0.25#/sx Cello-Flake (D029) 1.16 cuft/sx yield = 142.9 cf. Will circulate cement to surface.

9. Cement program: (continued from Page 1)

Intermediate String:

Lead Cement: 419 sx Class G w/3% D079 (Extender) 0.25#/sx D029 (Cellephone flakes, + 0.2% D046 Flocele (All purpose antifoam agent) mixed at 11.7 ppg and yield of 2.61 cuft/sx = 1095 cf.

Tail: 96 sx – 50/50/G/POZ cement w/2% D020 (Bentonite Extender), 2% S001 (CaCl₂), 5#/sx D024 (Gilsonite), 1/4#/sx D029 (Celephane flakes) & 2% D046 (all purpose antifoam agent) @ a weight of 13.5 ppg and yield of 1.27 cuft/sx = 122.29 cf. Plans are to circulate cement to surface.

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 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 jt below Ojo Alamo and next 2 jts up.

Liner :

- A 5 1/2" 15.5# liner will be run in the open hole without being cemented.

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.
11. 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

13. Anticipated no abnormal pressures or temperatures to be encountered or any other potential hazards such as Hydrogen Sulfide Gas. Low risk H₂S equipment will be used.

Estimated Bottomhole pressures: Fruitland Coal - +/- 970 psi

14. The anticipated starting date is sometime around July 17, 2003 with duration of drilling operations for approximately 30 days thereafter.

2003drill\ 328 #202A change to topset & cav.doc

San Juan 32-8 Unit #202A (Topset & Cavitare)

SURFACE CASING :

Drill Bit Diameter	12.25 "	
Casing Outside Diameter	9.625 "	9.001
Casing Weight	32.3 ppf	
Casing Grade	H-40	
Shoe Depth	200 '	40 '
Cement Yield	1.16 cuft/sk	
Excess Cement	150 %	
Casing Capacity	0.0787 bbl/ft	0.4419 cuft/ft
Hole / Casing Annulus Capacity	0.0558 bbl/ft	0.3132 cuft/ft

Cement Required 150.2 sx

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

INTERMEDIATE CASING :

Drill Bit Diameter	8.75 "	
Casing Outside Diameter	7 "	6.456
Casing Weight	20 ppf	
Casing Grade	J-55	
Shoe Depth	3320 '	
Lead Cement Yield	2.61 cuft/sk	
Lead Cement Excess	150 %	
Tail Cement Length	300 '	42 '
Tail Cement Yield	1.27 cuft/sk	
Tail Cement Excess	150 %	
Casing Capacity	0.0405 bbl/ft	0.2273 cuft/ft
Casing / Casing Annulus Capacity	0.0311 bbl/ft	0.1746 cuft/ft
Hole / Casing Annulus Capacity	0.0268 bbl/ft	0.1503 cuft/ft

Lead Cement Required 419.4 sx

Tail Cement Required 96.3 sx

LINER TOP 3300 '

SHOE 3320 ', 7 ", 20 ppf, J-55

LINER BOTTOM 3710' (Uncemented)

Casing Design Worksheet - Fruitland Coal Wells

Surface Casing

Size	Grade	#/foot	Collapse	Yield	Tensile	Coupling	Length	Weight
9-5/8"	H-40	32.3	1400	2270	254	ST&C	200	6,460

Intermediate Casing

Size	Grade	#/foot	Collapse	Yield	Tensile	Coupling	Length	Weight
7"	J-55	20	2270	3740	254	ST&C	3,320	66,400
								-
								-
								-
Total Weight								66,400

Production Casing

Size	Grade	#/foot	Collapse	Yield	Tensile	Coupling	Length	Weight
5-1/2"	J-55	15.5	4040	4810	202	ST&C	410	6,355
								-
								-
								-
Total Weight								6,355

Casing Parameters- FC

Tensile

$SF_t = \text{Tensile} / ; \text{Must Exceed 1.8 for Dry or 1.6 for Bouyant}$

9-5/8"	Surf.	254000 /	6,460	=	39.3
7"	Int.	254000 /	66,400	=	3.8
5-1/2"	Prod.	202000 /	6,355	=	31.8

Collapse

$SF_c = \text{Collapse} / (\text{Maximum Formation Pressure}) \text{ or } (\text{Mud Gradient X T. V. D.}); \text{Must Exceed 1.125}$

9-5/8"	Surf.	1400 /	87	=	16.2
7"	Int.	2270 /	1,554	=	1.5
5-1/2"	Prod.	4040 /	970	=	4.2

Burst

$SF_b = \text{Burst} / (\text{Maximum Foramtion Pressure}) \text{ or } (\text{Mud Gradient X T. V.D.}); \text{Must Exceed 1.0}$

9-5/8"	Surf.	2270 /	970	=	2.3
7"	Int.	3740 /	970	=	3.9
5-1/2"	Prod.	4810 /	970	=	5.0

B.O.P. Requirement - (Maximum Formation Pore Pressue) or (Mud Weight X 0.05195 x T. V. D.) - 0.22 X T.V.D.

970

Excess Cement Volumes

Surface	100%
Intermediate	150%
Production	N.A.

Note: Cement volume calculations are stored in the computer log.

Blowout Preventer Equipment (BOPE)

ABHP = 970 PSI; TVD = 3,710 Feet; Mud Weight = 8.34

Operator's Gradient (ABHP / TVD) = 0.261 PSI/Ft is / is not appropriate and does / does not coincide with the Anticipated Mud Weight for each drilled interval.
The most credible ABHP is 0.261 PSI/Ft.

Mud Weight x 0.05195 = Gradient

8.34 X 0.05195 = 0.433

ABHP - (0.22 x TVD) = ASP

970 - (0.22 X 3710) = 154 psi

Operator's proposed BOPE of 2 M exceeds / does not exceed the ASP and is therefore adequate / not adequate

Note ASP - Anticipated Surface Pressure

ABHP - Anticipated Bottom Hole Pressure

(Decmin) = ASP / (GR - .22)