FORM APPROVED OMB No. 1004-0136

UNITED S' DEPARTMENT OF		Expires November 30,	
BUREAU OF LAND		5. Lease Serial No. NMSF079290	
APPLICATION FOR PERMIT	TO DRILL OR REEMITER	6. If Indian, Allottee or Tribe Nam	ne
1a. Type of Work: ☑ DRILL ☐ REENTER	2. 0	7. If Unit or CA Agreement, Name	e and No.
lb. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Oi	her Single Zone Multiple Zone	8. Lease Name and Well No. SAN JUAN 28-7 UNIT 164F	
2. Name of Operator CONOCO INC	VICKI WESTBY Conco com.	9. API Well No. 30-039-27031	/
3a. Address PO BOX 2197, DU 3084 HOUSTON, TX 77252-2197	3b. Phone No. (include area code) Ph: 915.686.5799 Ext: 5799	10. Field and Pool, or Exploratory UNKNOWN // //)/C
4. Location of Well (Report location clearly and in accord	lance with any State requirements.*) ENTERED	11. Sec., T., R., M., or Blk. and Su	urvey or Area
At surface SESE 475FSL 850FEL	AFMSS	Sec 13 T28N R7W Mer N	MP
At proposed prod. zone	- 2002		
14. Distance in miles and direction from nearest town or pos	.1,	12. County or Parish RIO ARRIBA	13. State NM
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
		320.00 E/2	
 Distance from proposed location to nearest well, drilling completed, applied for, on this lease, ft. 	, 19. Proposed Depth	20. BLM/BIA Bond No. on file	
• • • • • • • • • • • • • • • • • • •	7883 MD	ES0085	
21. Elevations (Show whether DF, KB, RT, GL, etc.	22. Approximate date work will start	23. Estimated duration OPERATIONS AUTHORIZED ARE	
7 This action is subject to technical and procedural review pursuant to 43 CFR 3465	DRILLING	OPERATIONS AUTHORIZED AND TO COMPLIANCE WITH ATTACHED	
and appeal pursuant to 43 CFR 3165.4	24. Attachments • GENERA	AL REQUIREMENTS".	
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 Sy 	Item 20 above).	ons unless covered by an existing bor	nd on file (see
SUPO shall be filed with the appropriate Forest Service O		formation and/or plans as may be req	uired by the
25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY	Date 06	e 5/03/2002
Title AUTHORIZED SIGNATURE			

25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY	Date 06/0	3/20	002
Title AUTHORIZED SIGNATURE				
Approved by (Signa/st) David J. Mankiewicz	Name (Printed/Typed))CT	16	2002
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 conduct operations thereon.

Conditions of approval, if any, are attached.

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.

Additional Operator Remarks (see next page)

Electronic Submission #11686 verified by the BLM Well Information System
For CONOCO INC, sent to the Farmington
Committed to AFMSS for processing by Lucy Bee on 06/04/2002 (02LXB0945AE)

** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED **

District I PO Box 1980, Hoobs, NM 88241-1980

District II PO Drawer DD, Artesia. NM 88211-0719

District III 1000 Rio Brazos Rd., Aztec, NM 87410

District 1V PO Box 2088, Santa Fe, NM 87504-2088 State of New Mexico
Energy, Minerals & Natural Resources Department

Instructions on back Submit to Appropriate District Office State Lease – 4 Copies Fee Lease – 3 Copies

OIL CONSERVATION DIVISION PO Box 2088 Santa Fe. NM 87504-2088

AMENDED REPORT

Revised February 21, 1994

Form C-102

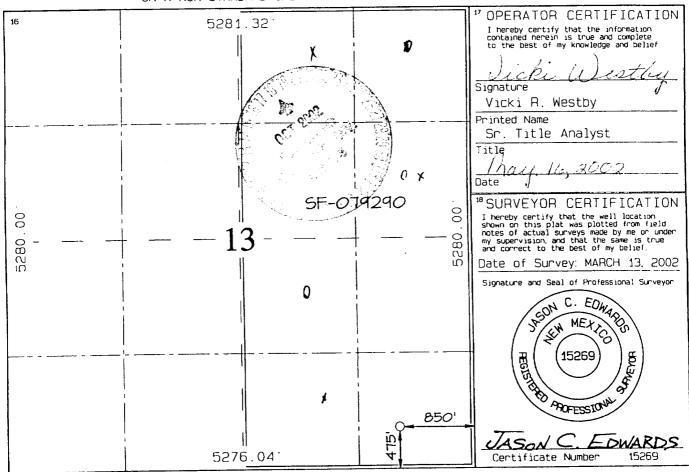
WELL LOCATION AND ACREAGE DEDICATION PLAT

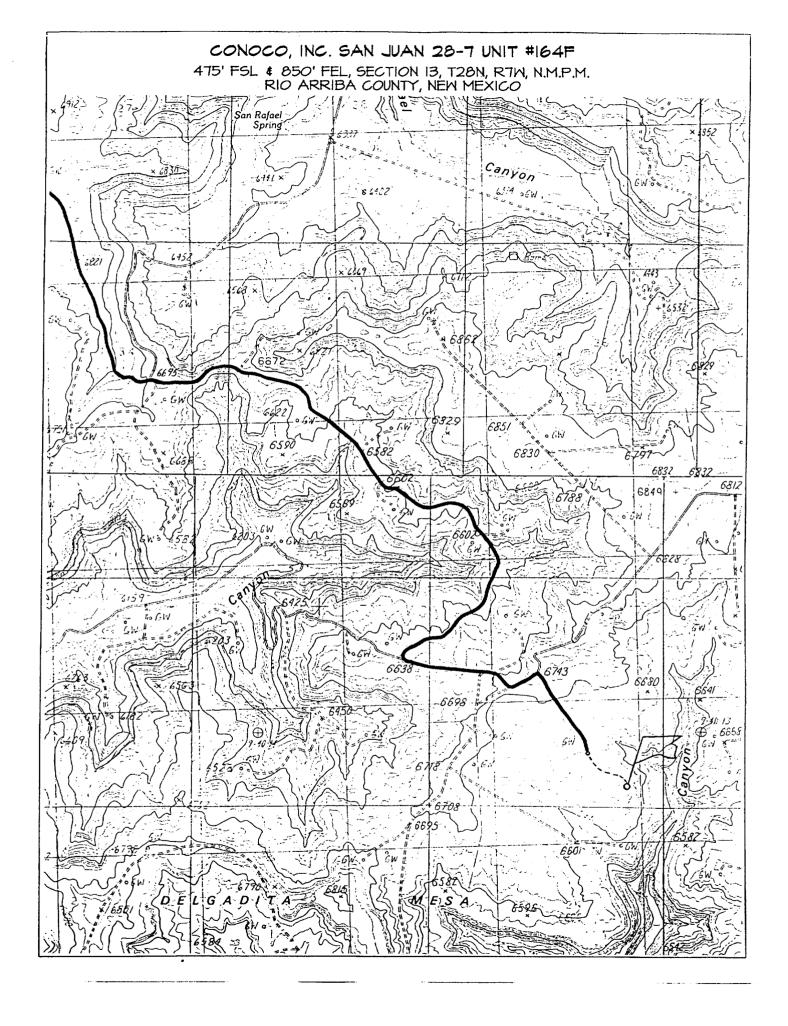
'API Number_		Pool C	ode	Pool Name	
30-039-2	7031	72319 /	7 1599	BLANCO MESAVERDE / BASIN	
'Property Code 016608			*Well Number 164F		
'0GRID No. 005073			(*Operator Name CONOCO, INC.	*Elevation 6635

¹⁰ Surface Location

ut or lot no	Section 13	Township 28N	Range 7W	Lat Idn	Feet from the	North/South line SOUTH	Feet from the 850	East/West line EAST	RIO ARRIBA
¹¹ Bottom Hole Location If Different From Surface								ace	
Ut on lot no.	Section	Township	Range	Lat Idn	Feet from the	North/South line	Feet from the	East/West line	County
12 Dedicated Acres		.0 Acres	 i - (E,	/2)	13 Joint or Infill	¹⁴ Consolidation Code	¹⁵ Onder Na.		

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





PROJECT PROPOSAL - Completion



SAN JUAN 28-7 164F

(Not Asigned) San Juan Business Unit

Lease:

AFE #:

AFE \$:

Field Name: EAST 28-7

Rig:

State: NM

County: RIO ARRIBA

API#:

Geoscientist:

Prod. Engineer

Phone:

Res. Engineer:

Phone Phone

Proj. Field Lead

Phone:

Primary Objective (Zones):

Zone	Zone Name
FRR	BASIN DAKOTA (PRORATED GAS)
RON	BLANCO MESAVERDE (PRORATED GAS)

Location : Surface

Longitude: -107.52

Section: 13

Abstract: 7W

Footage X:

850 FEL Footage Y:

Well Name

Production:

475 FSL

Elevation: 6635

(FT) Survey:

Tolerance

Location Type:

Start Date (Est.)

Completion Date:

Date In Operation:

Formation Data Assume KB

Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	внт	Remarks
Surface Casing	200	6448				Severe lost circulation is possible. 12 1/4" Hole. 9 5/8", 36 ppf, J-55, STC casing. Will test to 500 psi. Circulate cement to surface.
OJAM	2523	4125				Possible water flows
KRLD	2673	3975				
FRLD	3148	3500				Possible gas
PCCF	3398	3250				
LEWS	3598	3050				
Intermediate Casing	3698	2950				8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cemer to surface. Will test to 1500 psi.
CHRA	4338	2310				
CLFH	5058	1590		1300		Gas; possibly wet
MENF	5228	1420				Gas
PTLK	5583	1065				Gas
MNCS	5883	765				
GLLP	6848	-200				
GRHN	7533	-885				Gas possible, highly fractured
TWLS Well Nam	re 7628	-980	Comme	ents		Gas
CBBO	7768	-1120				Gas
Total Depth	7883	-1235		3000		6 1/4" Hole. 4 1/2", 10.5 ppf, J-55, STC casing. Circulate cement a minimum of 100' inside the previous casing string No open hole logs. Cased hole TDT with GR to surface.

Printed on: 5/29/02 11:27:08 AM

Comments

PROJECT PROPOSAL - Completion



SAN JUAN 28-7 164F

(Not Asigned) San Juan Business Unit

Logging Program:						:	
Intermediate Logs	Log only if show	GR / ILD	Triple	Combo			
TD Logs	☐ Triple Combo	☐ Dipmeter	RFT	☐ Sonic ☐ V	/SP TDT	Other	
Additional Information							

Comments



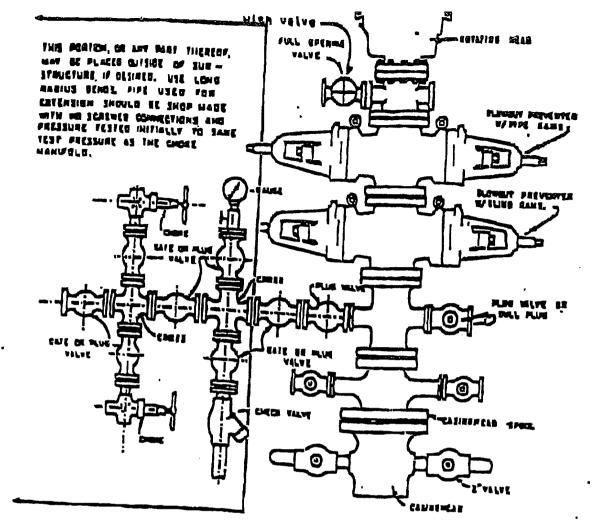
Cementing Summary

San Juan 28-7 164F (v1.0)

		<u>Depth</u>	Excess	1			
	9-5/8" Sfc Casing	0		Class 'H' Cement Flocele (if req'd) CaCl2 Defoamer (if req'd)	134.6 sx 0.25 lb/sk 2.0% bwoc-db 0.05 gai/bbl	Slurry Volume Slurry Density Slurry Yield	142.6 cu ft 25.4 bbl 16.4 ppg 1.06 cu ft/sk
	9-5/8" shoe	200	100%			Mix Fluid	4.33 gal/sk
	7" Lead Cemer	nt	150%	Blend Class 'H' Cement San Juan Poz Econolite	409.92 sx 84 lb/sk lb/sk 3.0% bwob	Slurry Volume Slurry Density Slurry Yield	1160.1 cu ft 206.6 bbl 11.4 ppg 2.83 cu ft/sk
	7" Top of Tail	3,198		CaCl2 CFR-3 HR-5 Silicalite-blended Flocele Defoamer (if req'd)	bwob bwob 10 lb/sk 0.5 lb/sk 0.05 gal/bbl	Mix Fluid	17.29 gal/sk
	7" Tail Cement		150%	Blend Class 'H' Cement San Juan Poz Econolite CaCl2	173.96 sx 100% bwob lb/sk bwob 1.00% bwob	Slurry Volume Slurry Density Slurry Yield Mix Fluid	207.0 cu ft 36.9 bbl 15.6 ppg 1.19 cu ft/sk 5.2 gal/sk
	4.5* TOC	2,698		CFR-3 HR-5 Silicalite-blended Flocele Gilsonite Defoamer (if req'd)	bwob bwob bwob 0.25 lb/sk lb/sk 0.05 gal/bbl	WAX 1 TUTO	J.Z garsk
	7" Casing Intermediate	3,698	150%				
	4.5" Cement		50%	Blend Class 'H' Cement San Juan Poz Bentonite Halad-344 CFR-3 HR-5 Silicalite-blended Flocele Defoamer (if req'd)	448.17 sx 47 lb/sk 24 lb/sk 3.00% bwob 0.40% bwoc 0.20% bwoc 0.10% bwoc 20 lb/sk 0.25 lb/sk 0.05 gal/bbl	Slurry Volume Slurry Density Slurry Yield Mix Fluid	761.9 cu ft 135.7 bbl 12.8 ppg 1.70 cu ft/sk 8.26 gal/sk
	4-1/2" Casing Production	7,883	50%				

ОН

Note: Conoco to verify casing depths.



BLOWOUT PREVENTER HOOKUP

Drilling contractors used in the San Juan Basing supply 1000 pai aquipment, but cannot provide annular preventors because of substructure limitations. Maximum anticipated surface pressures for this well will not exceed the working pressure of the proposed BOP system. Please see the attached Bop diagram details 2000 pel equipment according to Onshore Order No. 2 even though the aquipment will test to 3000 psi. deletion of the annular preventor and fulfills your requirements The 2000 psi system allows (note diagram No. 1). In addition, the following equipment will comprise the 2000 psi system:

- Two rams with one blind and one pipe ram. 2.
- Kill line (2 inch maximum).
- One kill line valve. 4.
- One choke line valve. 5.
- Two chokes (reference diagram No. 1). 6.
- Upper kelly cock valve with handle. 7,
- Safety valve and subs to fit all drill strings in uso. 8. Two-inch minimum choke line. 9.
- Prassure gauge on choke manifold. 10.
- Fill-up line above the upper most preventor. 11. Rotating head.

Cathodic Protection System Description

Anade Bed Type	Deep Well	
Hale Size	9	
Hole Depth	200 200.	As required to place anodes below moisture and in low resistance Strate.
Surface Casing	8" Diam., ≥ 20' Length. Cemented In Annular Space	When needed, casing will be installed at an adequate depth to control ground water flow. Casing will extend a minimum of 2' above grade, be surrounded by a concrete pad, and sealed with a PVC cap. Steel casing will be substituted when boulders are ancountered.
Vent Pipe	1" Diam. PVC	Vent pipe will extend from bottom of hole, through top of casing cap, and smaled with a 1° perforated PVC cap.
Type Of Anodes	Cast Iron Or Graphite	
Number Of Anodes	8 - 20	Sufficient quantity to achieve a total anode bed resistance of < 1 ohm and a design life ≥ 20 years.
Anode Bed Backfill	Loresco SW Calcined Petroleum Coke Breeze	Installed from bottom of hole to 10' above top anode.
Anode Junction Box	8 - 20 Circuit Fiberglass Or Metal	Sealed to provent insect & rodent intrusion.
Current Splitter Box	2 - 5 Circuit Metal	Sealed to prevent insect & rodent intrusion.
DC / AC Cable	DC: #2, #4, #6, #8 Stranded Copper (One Size Or Any Combination Of) With High Molecular Weight Polyethylans (HMWPE) Insulation. AC: #8 Stranded Copper HMWPE	18° depth in typical situation, 24° depth in readway, & 36° depth in arroyo's and streams. EXCEPTION: If trenching is in extremely hard substratum, depth will be 6 - 12° with cable installed in conduit. Installed above foreign pipelines if 1° clearance is available. If not, installed under foreign pipeline with 1° clearance (AC cable always installed under foreign pipeline in conduit).
Power Source	11 Rectifler 2) Solar Power Unit 3) Thermoelectric Generator	Choice of power source depending on availability of AC & other economic factors.
External Painting	Color to be selected according to BLM specifications.	Paint applied to any surface equipment associated with the CP system which can reasonably be painted.