

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. SF-079289A
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator CONOCO <i>Phillips</i> Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conoco.com		7. If Unit or CA Agreement, Name and No.
3a. Address 10 DESTA DR., ROOM 608W MIDLAND, TX 79705	3b. Phone No. (include area code) Ph: 915.686.5799 Ext: 5799	8. Lease Name and Well No. SAN JUAN 28-7 UNIT 136F
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface NWSW 2230FSL 110FWL At proposed prod. zone		9. API Well No. 30 03927045
14. Distance in miles and direction from nearest town or post office*	15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	10. Field and Pool, or Exploratory BLANCO MESAVERDE/BASIN DAKOTA
16. No. of Acres in Lease	17. Proposed Depth 7835 MD	11. Sec., T., R., M., or Blk. and Survey or Area Sec 14 T28N R7W Mer NMP
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 7835 MD	12. County or Parish RIO ARRIBA
20. Elevations (Show whether DF, KB, RT, GL, etc.) 6612 GL	21. Approximate date work will start	13. State NM
22. Estimated duration		14. Spacing Unit dedicated to this well 320.00 <i>SP-OK</i> <i>W2 MV</i>
23. BLM/BIA Bond No. on file		24. Estimated duration

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 (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY	Date 06/28/2002
Title AUTHORIZED SIGNATURE		
Approved by (Signature) <i>Roland Adams</i>	Name (Printed/Typed) ROLAND D. ADAMS	Date 8/4/04
Title <i>Acting Asst</i>	Office FARMINGTON DISTRICT 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 #12404 verified by the BLM Well Information System
For CONOCO INC., sent to the Farmington

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED ARE
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

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

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

NMOCB

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

District II
PO Drawer 00, Artesia, NM 88211-0719

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

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number		*Pool Code 72319 / 71599		*Pool Name BLANCO MESAVERDE / BASIN DAKOTA	
*Property Code 016608		*Property Name SAN JUAN 28-7 UNIT			*Well Number 136F
*GRID No. 005073 217817		*Operator Name CONOCO PHILLIPS			*Elevation 6612'

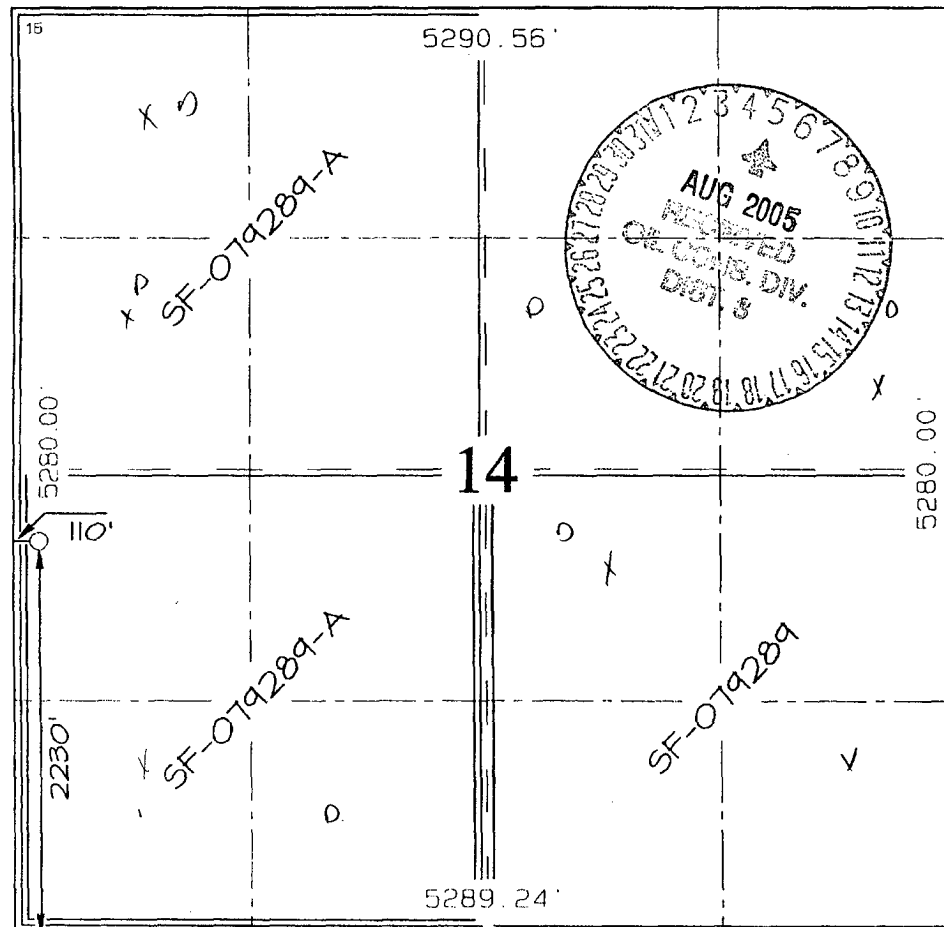
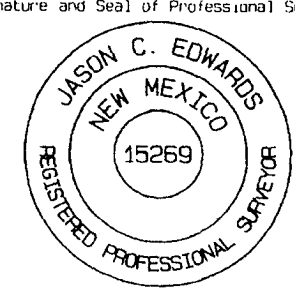
¹⁰ Surface Location

UL or lot no. L	Section 14	Township 28N	Range 7W	Lot Idn	Feet from the 2230	North/South line SOUTH	Feet from the 110	East/West line WEST	County RIO ARriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 320.0 Acres (W/2) - MV 320.0 Acres (S/2) - DK									
¹³ Joint or Infill					¹⁴ Consolidation Code		¹⁵ Order No.		

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

	<p>¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Vicki R. Westby</i> Signature Vicki R. Westby Printed Name Sr. Title Analyst Title May 15, 2002 Date</p>
	<p>¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>Date of Survey: MARCH 15, 2002</p> <p>Signature and Seal of Professional Surveyor</p>  <p><i>JASON C. EDWARDS</i> Certificate Number 15269</p>

Submit 3 Copies To Appropriate District Office

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Ave., Artesia, NM 88210

District III

1000 Rio Brazos Rd., Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103

May 27, 2004

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE APPLICATION FOR PERMIT (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO.
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator ConocoPhillips Company		6. State Oil & Gas Lease No.
3. Address of Operator 4001 Penbrook, Odessa, TX 79762		7. Lease Name or Unit Agreement Name SAN JUAN 28-7 UNIT
4. Well Location Unit Letter L 2230 feet from the South line and 110 feet from the West line Section 14 Township 28N Range 7W NMPM Rio Arriba County		8. Well Number 136F
I 1. Elevation (Show whether DR, RKB, RT, GR, etc.) 6612 GL		9. OGRID Number 217817
Pit or Below-grade Tank Application <input checked="" type="checkbox"/> Closure <input type="checkbox"/>		10. Pool name or Wildcat BLANCO MESAVERDE / BASIN DAKOTA
Pit type DRILL Depth to Groundwater 20' Distance from nearest fresh water well 2500' Distance from nearest surface water 500'		
Liner Thickness: mil Below-Grade Tank: Volume bbls; Construction Material		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS. <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 11.03. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

The pit will be constructed and closed in accordance with Rule 50 and as per the Nov. 1, 2004 Guidelines. See the attached diagram that details the location of the pit in reference to the proposed wellhead. The drill pit will be lined. The drill pit will be closed after the well has been completed. The solids left after the water has been disposed of will be sampled and NMOCD approval will be obtained prior to closure of this pit.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒ a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Vicki Westby

TITLE Staff Agent

DATE 1/14/05

Type or print name

E-mail address:

Telephone No.

For State Use Only

APPROVED BY:

Conditions of Approval (if any):

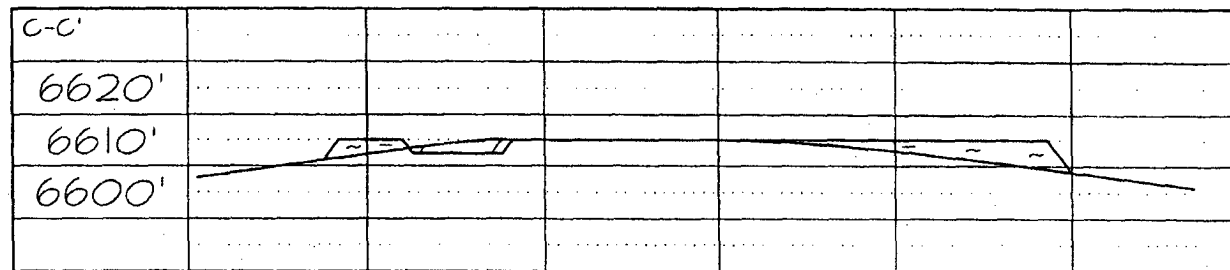
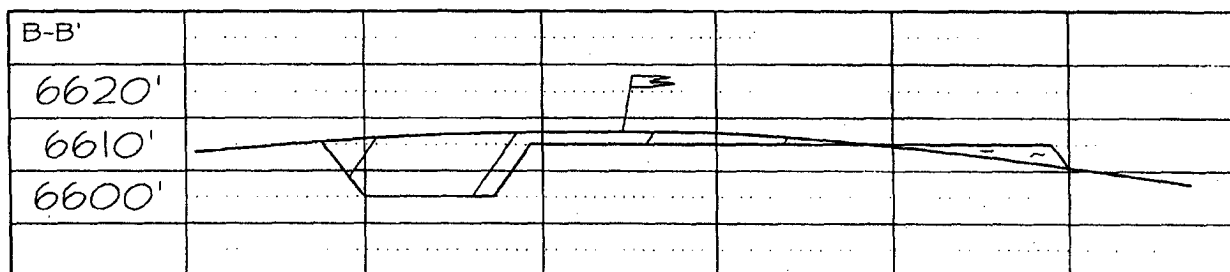
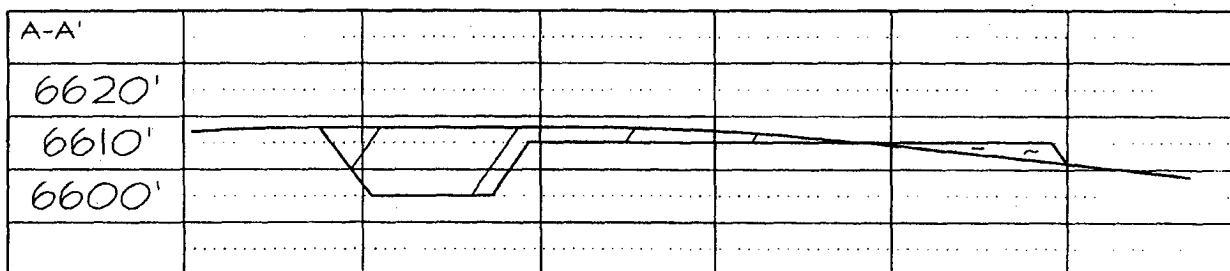
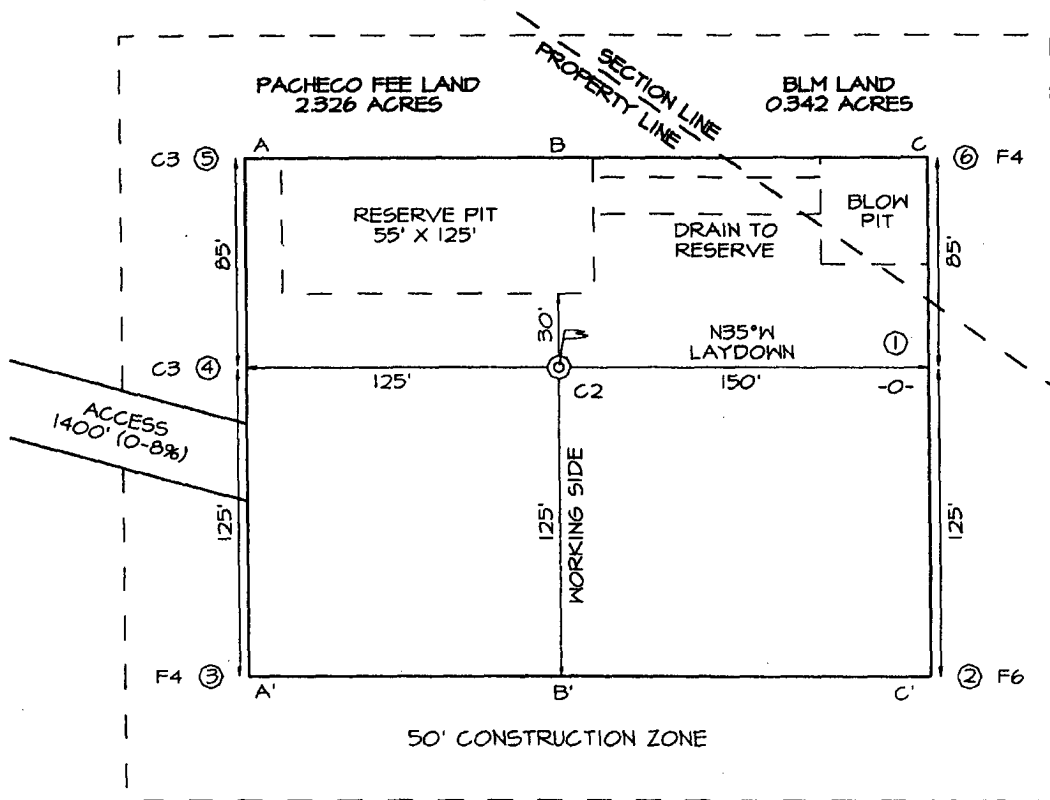
TITLE DEPUTY OIL & GAS INSPECTOR, DIST. 4

DATE

AUG 05 2005

CONOCOPHILLIPS COMPANY SAN JUAN 28-7 UNIT #136F
2230' FSL & 110' FWL, SECTION 14, T28N, R7W, NMPM
RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6612'

LATITUDE: 36.66011° N
 LONGITUDE: 107.55094° W
 DATUM: NAD1927



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 <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		8. Well Name and No. SAN JUAN 28-7 UNIT 136F
2. Name of Operator CONOCOPHILLIPS COMPANY		9. API Well No. 30-039-27045-00-X1
3a. Address PO BOX 2197 WL3 6054 HOUSTON, TX 77252	3b. Phone No. (include area code) Ph: 915.368.1352	10. Field and Pool, or Exploratory BASIN DAKOTA MESAVERT POINT LOOKOUT
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 14 T28N R7W NWSW 2230FSL 110FWL		11. County or Parish, and State RIO ARRIBA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

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 recompletable 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 recompletable 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 site is ready for final inspection.)

ConocoPhillips requests to change the drilling plan for this well as shown in the attached documents.

14. I hereby certify that the foregoing is true and correct. Electronic Submission #34773 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, sent to the Farmington Committed to AFMSS for processing by ADRIENNE BRUMLEY on 08/23/2004 (04AXB3224SE)	
Name (Printed/Typed) VICKI WESTBY	Title AGENT
Signature (Electronic Submission)	Date 08/18/2004

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By <u>Ronald Adams</u>	Title <u>Acting AFM</u>	Date <u>8/4/04</u>
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 <u>FARMINGTON DISTRICT OFFICE</u>		

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

NMOC

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-7 136F

Lease:		AFE #:		AFE \$:	
Field Name: EAST 28-7		Rig:	State: NM	County: RIO ARRIBA	API #:
Geoscientist: Glaser, Terry J		Phone: (281) 293 - 6538	Prod. Engineer: Moody, Craig E.		Phone: (281) 293 - 6559
Res. Engineer: Valvatne, Christine K.		Phone:	Proj. Field Lead:		Phone: (281) 293 - 6517

Primary Objective (Zones):

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

Location: Surface					
Latitude: 36.66	Longitude: -107.55	X:	Y:	Section: 14	Abstract: 7W
Footage X: 110 FWL	Footage Y: 2230 FSL	Elevation: 6612 (FT)	Survey: 28N		
Tolerance:					

Location Type: Year Round	Start Date (Est.):	Completion Date:	Date In Operation:
Formation Data: Assume KB = 6625 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	213	6412	<input type="checkbox"/>			12-1/4" hole. 9 5/8", 32.3 ppf, H-40, STC casing. Circulate cement to surface.
OJAM	2450	4175	<input type="checkbox"/>			Possible water flows
KRLD	2600	4025	<input type="checkbox"/>			
FRLD	3090	3535	<input type="checkbox"/>			Possible gas
PCCF	3340	3285	<input type="checkbox"/>			
LEWS	3540	3085	<input type="checkbox"/>			
Intermediate Casing	3640	2985	<input type="checkbox"/>			8-3/4" hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CHRA	4275	2350	<input type="checkbox"/>			
CLFH	4980	1645	<input type="checkbox"/>	1300		Gas; possibly wet
MENF	5135	1490	<input type="checkbox"/>			Gas
PTLK	5515	1110	<input type="checkbox"/>			Gas
MNCS	5815	810	<input type="checkbox"/>			
GLLP	6785	-160	<input type="checkbox"/>			
GRHN	7485	-860	<input type="checkbox"/>			Gas possible, highly fractured
TWLS	7580	-955	<input type="checkbox"/>			Gas
CBBO	7685	-1060	<input type="checkbox"/>			Gas
Total Depth	7835	-1210	<input type="checkbox"/>	3000		6-1/4" hole. 4 1/2", 11.6 ppf, N-80, LTC casing. Circulate cement a minimum of 100' inside the previous casing string. No open hole logs. Cased hole TDT with GR to surface.

Reference Wells:

Reference Type	Well Name	Comments
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Logging Program:

Intermediate Logs:	<input type="checkbox"/> Log only if show	<input type="checkbox"/> GR/ILD	<input type="checkbox"/> Triple Combo
TD Logs:	<input type="checkbox"/> Triple Combo	<input type="checkbox"/> Dipmeter	<input type="checkbox"/> RFT <input type="checkbox"/> Sonic <input type="checkbox"/> VSP <input checked="" type="checkbox"/> TDT
Additional Information:			

Comments: General/Work Description -

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 28-7 136F

Drilling Mud Program:

Surface: spud mud

Intermediate: fresh water mud with bentonite & polymer as needed

Below Intermediate: air/nitrogen/mist drilling media with foamer, polymer & corrosion inhibitor as needed

San Juan 28-7 #136F

SURFACE CASING :

Drill Bit Diameter	12.25"	
Casing Outside Diameter	9.625"	Casing Inside Diam. 9.001"
Casing Weight	32.3	ppf
Casing Grade	H-40	
Shoe Depth	230'	
Cement Yield	1.16	cuft/sk
Excess Cement	125	%
Cement Required	148	sx

SHOE 230', 9.625", 32.3 ppf, H-40 STC

INTERMEDIATE CASING :

Drill Bit Diameter	8.75"	
Casing Outside Diameter	7"	Casing Inside Diam. 6.456"
Casing Weight	20	ppf
Casing Grade	J-55	
Shoe Depth	3640'	
Lead Cement Yield	1.272	cuft/sk
Lead Cement Excess	150	%
Tail Cement Length	728'	
Tail Cement Yield	1.31	cuft/sk
Tail Cement Excess	150	%
Lead Cement Required	385	sx
Tail Cement Required	216	sx

SHOE 3640', 7", 20 ppf, J-55 STC

PRODUCTION CASING :

Drill Bit Diameter	6.25"	
Casing Outside Diameter	4.5"	Casing Inside Diam. 4.000"
Casing Weight	11.6	ppf
Casing Grade	N-80	
Top of Cement	3440'	200' inside intermediate casing
Shoe Depth	7835'	
Cement Yield	1.44	cuft/sk
Cement Excess	50	%
Cement Required	465	sx

SHOE 7835', 4.5", 11.6 ppf, N-80 STC

San Juan 28-7 #136F			
	Surf. Csg	Int. Csg	Prod. Csg
OD	9.625	7	4.5
ID	9.001	6.456	4.000
Depth	230	3640	7835
Hole Diam	12.25	8.75	6.25
% Excess Lead		150	
% Excess Tail	125	150	50
Lead Yield		2.72	
Tail Yield	1.16	1.31	1.44
Ft of Tail Slurry	230	728	4395
Top of Tail Slurry	0	2912	3440
Top of Lead Slurry	N/A	0	N/A
Mud Wt (ppg)	8.9	9.0	air drill
Mud Type	WBM	WBM	air drill

Surface Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Open Hole Annulus	230	0.055804	2.25	27.2	153.0	131.9
Shoe Track Volume	42	0.078735	1	3.3	18.6	16.0
Total				30.6	171.5	147.9

Intermediate Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Lead Open Hole Annulus	2682	0.026775	2.5	179.5	1008.0	370.6
Lead Cased Hole Annulus	230	0.031104	1	7.2	40.2	14.8
Lead Total				186.7	1048.1	385.3
Tail Open Hole Annulus	728	0.026775	2.5	48.7	273.6	208.9
Tail Shoe Track Volume	42	0.04049	1	1.7	9.5	7.3
Tail Total				50.4	283.1	216.1

Production Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Open Hole Annulus	4195	0.018275	1.5	115.0	645.6	448.4
Cased Hole Annulus	200	0.020818	1	4.2	23.4	16.2
Total				119.2	669.0	464.6

San Juan 28-7 #136F		
9-5/8 Surface Casing		
Cement Recipe	Class G Standard Cement	
	+ 2% S001 Calcium Chloride	
	+0.25 lb/sx D029 Cellophane Flakes	
Cement Volume	148	sx
Cement Yield	1.16	cuft/sx
Cement Volume	171.5	cuft
Cement Density	15.8	ppg
Water Required	4.983	gal/sx
Compressive Strength		
Sample cured at 60 deg F for 8 hrs		
12 hrs	1174	psi
36 hrs	2763	psi

San Juan 28-7 #136F

7" Intermediate Casing		
Lead Slurry		
Cement Recipe	Class G Standard Cement	
	+0.25 lb/sx D029 Cellophane Flakes	
	+ 3% D079 Extender	
	+ 0.20% D046 Antifoam	
	+ 10 lb/sx Pheno Seal	
Cement Required	385	sx
Cement Yield	2.72	cuft/sx
Slurry Volume	1048.1	cuft
	186.7	bbls
Cement Density	11.7	ppg
Water Required	15.74	gal/sx
Compressive Strength		
Sample cured at 140 deg F for 24 hrs		
2 hr 37 min	50	psi
39 hr 40 min	500	psi

7" Intermediate Casing		
Tail Slurry		
Cement Slurry	50 / 50 POZ:Standard Cement	
	+0.25 lb/sx D029 Cellophane Flakes	
	+ 2% D020 Bentonite	
	+ 1.5 lb/sx D024 Gilsonite Extender	
	+ 2% S001 Calcium Chloride	
	+ 0.10% D046 Antifoam	
	+ 6 lb/sx Pheno Seal	
Cement Required	216	sx
Cement Yield	1.31	cuft/sx
Slurry Volume	283.1	cuft
	50.4	bbls
Cement Density	13.5	ppg
Water Required	5.317	gal/sx
Compressive Strength		
Sample cured at 140 deg F for 24 hrs		
24 hr	908	psi
48 hr	1950	psi

San Juan 28-7 #136F		
4-1/2" Production Casing		
Cement Recipe	50 / 50 POZ: Class G Standard Cement	
	+0.25 lb/sx D029 Cellophane Flakes	
	+ 3% D020 Bentonite	
	+ 1.0 lb/sx D024 Gilsonite Extender	
	+ 0.25% D167 Fluid Loss	
	+ 0.15% D065 Dispersant	
	+ 0.1% D800 Retarder	
	+ 0.1% D046 Antifoamer	
	+ 3.5 lb/sx PhenoSeal	
Cement Quantity	465	sx
Cement Yield	1.44	cuft/sx
Cement Volume	669.0	cuft
	119.2	
Cement Density	13	ppg
Water Required	6.43	gal/sx
Compressive Strength		
Sample cured at 200 deg F for 24 hrs		
6 hr 35 min	500	psi
24 hr	2373	psi

Property : SAN JUAN 28-7 UNIT **Well #:** 136F

Surface Location:

Unit: L **Section:** 14 **Township:** 28N **Range:** 7W

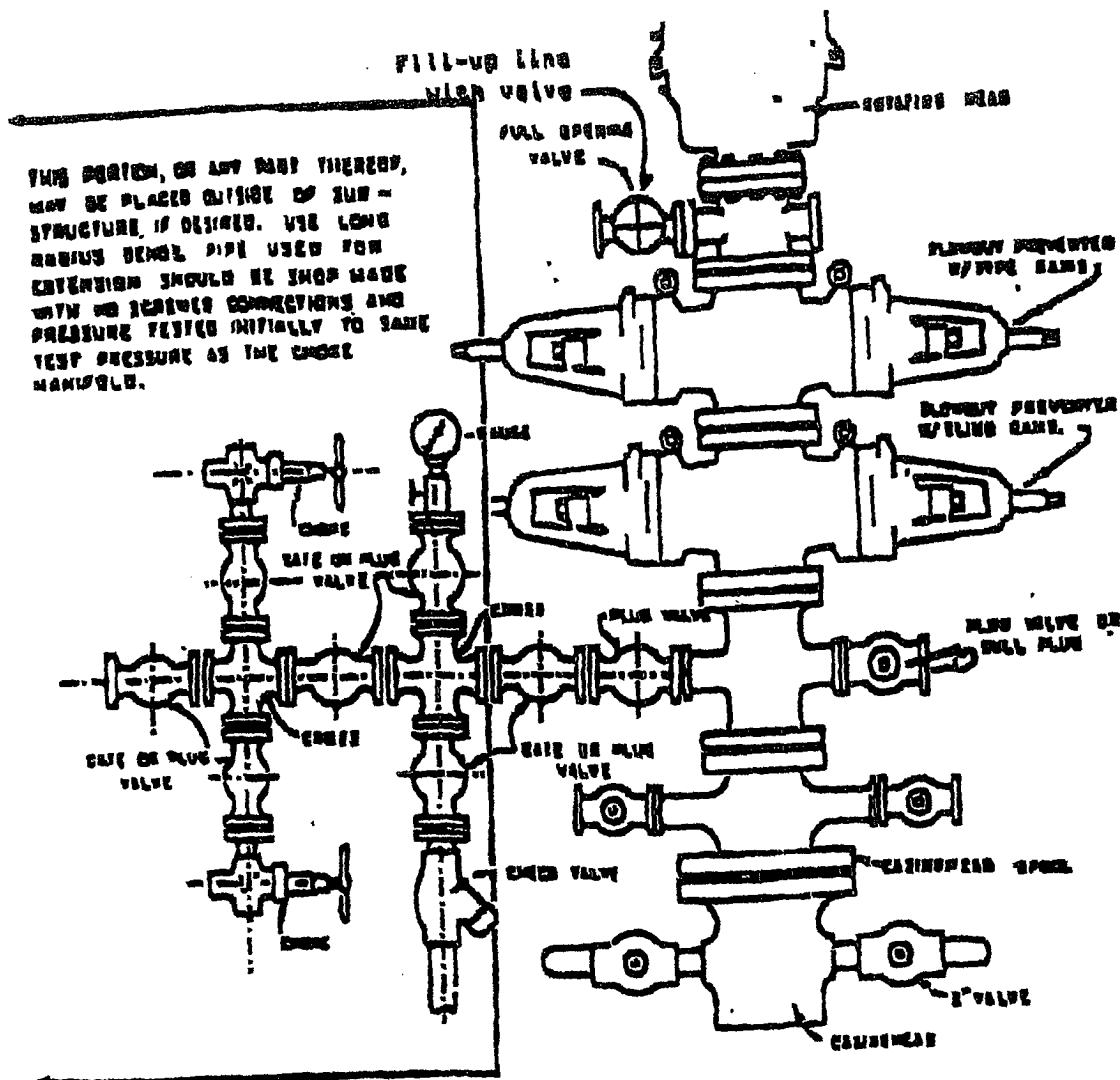
County: Rio Arriba **State:** New Mexico

Footage: 2230 **from the** South **line,** 110 **from the** West **line.**

CATHODIC PROTECTION

ConocoPhillips (COP) proposes to drill a cathodic protection deep well groundbed for the subject well. COP will drill a hole vertically at the surface large enough to accommodate 20 feet of 8 inch diameter PVC pipe for surface casing to assist in further drilling and loading. Casing may be cemented in place for stability if needed. COP 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 the existing well pad and a Farmington based company will be doing the drilling for ConocoPhillips.



BLOWOUT PREVENTER HOOKUP

Drilling contractors used in the San Juan Basing supply 2000 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. Please see the attached BOP diagram details 2000 psi equipment according to Onshore Order No. 2 even though the equipment will test to 3000 psi. The 2000 psi system allows delation of the annular preventor and fulfills your requirements (note diagram No. 1). In addition, the following equipment will comprise the 2000 psi system:

1. Two rams with one blind and one pipe ram.
2. Kill line (2 inch maximum).
3. 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 use.
8. Two-inch minimum choke line.
9. Pressure gauge on choke manifold.
10. Fill-up line above the upper most preventor.
11. Rotating head.