FORM APPROVED

	UNITED STATES					
DEPARTMENT OF BUREAU OF LAND	5. Lease Serial No. SF-079380					
APPLICATION FOR PERMIT	APPLICATION FOR PERMIT TO DRILL OR REENTER					
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement, Na	me and No.			
1b. Type of Well: ☐ Oil Well 🙀 Gas Well ☐ C	Other Single Zone 🙀 Multiple Zone	8. Lease Name and Well No. SAN JUAN 32-8 UNIT 213	SA.			
,	E-Mail: VICKI WESTBY @CONOCOPHILLIPS.COM	9. API Well No. 30-045- 2	2899			
3a. Address 4001 PENBROOK ODESSA, TX 79762	3b. Phone No. (include area code) Ph: 915.368.1352	10. Field and Pool, or Explorate BASIN FRUITLAND CC	ory OAL			
4. Location of Well (Report location clearly and in accordance SWNW 2426FNL 1169FV	WL	11. Sec., T., R., M., or Blk. and ESec 22 T32N R8W Mer	•			
At proposed prod. zone SWNW 2426FNL 1169FV 14. Distance in miles and direction from nearest town or post	201 10 13 (11 27 h	12. County or Parish SAN JUAN	13. State			
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 Laws 02 2005	BLO WA	his well			
 Distance from proposed location to nearest well, drilling completed, applied for, on this lease, ft. 	3803 MD	20. BLM/BIA Bond No. on file				
21. Elevations (Show whether DF, KB, RT, GL, etc. 6820 GL	22. Approximate date work will start b C (23. Estimated duration				
	24. Attachments		· · · · · · · · · · · · · · · · · · ·			
 The following, completed in accordance with the requirements Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Sy SUPO shall be filed with the appropriate Forest Service Company of the Property o	4. Bond to cover the operation Item 20 above). 5. Operator certification	this form: ons unless covered by an existing b formation and/or plans as may be r	·			
25. Signature (Electronic Submission)	Name (Printed/Typed) VICKI WESTBY Ph: 915.368.1352		Date 01/07/2005			
Title AGENT						
Approved by (Signature) Ambien Conference Co	Name (Printed/Typed)		ate 3-17-05			
AFM	Office FFO					
Application approval does not warrant or certify the applicant operations thereon. Conditions of approval, if any, are attached.	holds legal or equitable title to those rights in the subject l	ease which would entitle the applic	ant to conduct			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 States any false, fictitious or fraudulent statements or representations.	2, make it a crime for any person knowingly and willfully tations as to any matter within its jurisdiction.	to make to any department or agenc	y of the United			
Additional Operator Remarks (see next page)						

Electronic Submission #52717 verified by the BLM Well Information System For CONOCOPHILLIPS COMPANY, sent to the Farmington

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** This action is subject to technical and This action is subject to 43 CFR 3165.3 procedural review pursuant to 43 CFR 3165.3 end appeal pursuant to 43 CFR 3165.4 and appeal pursuant to 43 CFR 3165.4

State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION

OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe. NM 87505

Form C-102 Revised June 10, 2003

Santa Fe, NM 87505
Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

District |
1625 N. French Dr., Hobbs, NM 88240
District ||
1301 W. Grand Avenue, Artesia, NM 88210
District |||
1000 Rio Brazos Rd., Aztec, NM 87410
District |||

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

☐ AMMENDED REPORT

LOCATION AND ACREAGE DEDICATION PLAT 71629 BASIN FRUITLAND COAL (GAS) SAN JUAN 32-8 UNIT Well Number 70perty Code 31330 213A CONOCOPHILLIPS COMPANY Elevation OGRID No. 6820 217817 ¹⁰Surface Location Lot Idn Feet from the North/South line Feet from the East/West line County Range UL or lot no. Section Township 08W 2426 NORTH 1169 WEST SAN JUAN 32N E

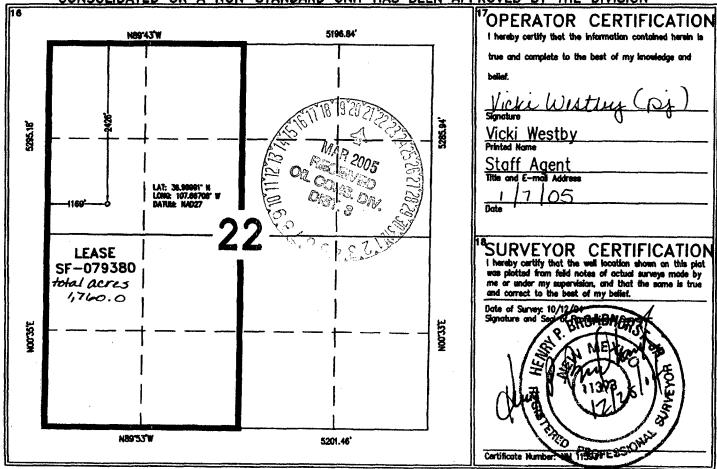
E 22 32N 08W 2426' NORTH 1169' WEST SAN JUAN

11 Bottom Hole Location If Different From Surface

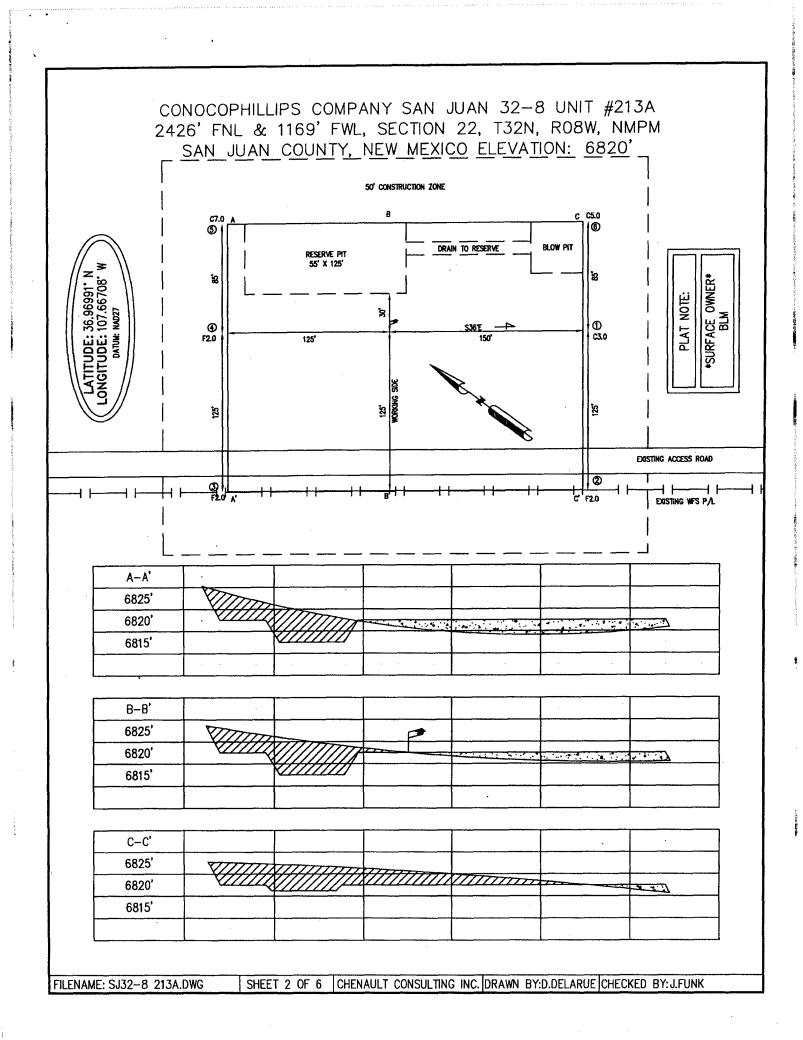
UL or lot no. | Section Township | Range | Lot Idm Feet from the North/South line | Feet from the | East/West line | County |

12 Dedicated Acres | South or Infill | Consolidation Code | Order No. | W/2 320.0 | County | Consolidation Code | County | Code | County | Consolidation Code | County | Code | County | Code | Co

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



Submit 3 Copies To Appropriate District Office	State of New Me	exico			nC-103
District I	Energy, Minerals and Natural Resources		WELL API		ay 27, 2004
1625 N. French Dr., Hobbs, NM 88240 District 1.1			WELLAPI	NO.	
1301 W. Grand Ave., Artesia, NM 882 1 0	OIL CONSERVATION	5. Indicate	Type of Lease		
<u>District III</u> 1 000 Rio Brazos Rd., Aztec, NM 8741 0	1220 South St. Fran		STA		
District IV	Santa Fe, NM 87	/505	6. State Oil	& Gas Lease No.	
1220 S. St. Francis Dr., Santa I e, NM 87505					
	ICESAND REPORTS ON WELLS		7. Lease Na	me or Unit Agreemen	t Name
(DONOTUSETHIS FORM FOR PROPO DIFFERENT RESERVOIR USE 'APPLIC	SALS TO DRILL OR TO DEEDEN OR HA ATTON FOR PERMIT (FORM C-101) FC	DRSUCH		SAN JUAN 32-8	Ì
PROPOSALS)	Gas Well 🕅 Other		8. Well Nur		
Type of Well: Oil Well Name of Operator	Gas Well Other		9.OGRID1	213A	
2. Name of Operator	ConocoPhillips Company). OGIGIDI	2178	17
3. Address of Operator			10. Pool na	me or Wildcat	
	4001 Penbrook, Odessa, TX 7	9762		Basin Fruitland Coal	
4. Well Location					
Unit Letter E	2426 feet from the North	h line and	1169 fe	et from the West	line
Section 22		ange 8W	NMPM	SAN JUAN Co	unty
	I 1. Elevation (Show whether D. 682				•
Pit or Below -grade Tank Application		OL OL			
Pit type DRILL Depth to Groundwa		ater well I MILE Dista	ince from neare	st surface water 120'	}
Liner Thickness: mil	Below-Grade Tank: Volume	AND ADDRESS OF SHARE AND ADDRESS OF	struction Mate	-pp. garmana residente any e critica	
	Appropriate Box to Indicate N				
12. CICK P	ppropriate Box to fricted 11	autic of Pouce, P	apontoi O	uki Dala	
NOTICE OF IN				REPORT OF:	_
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK		ALTERING CAS	SING 🗌
TEMPORARILY ABANDON [] PULLOR ALTER CASING []	CHANGE PLANS MULTIPLE COMPL	COMMENCE DRIL		PANDA	
FOLLONALIBIOASING [MOETIFLE COMPL [CASING/CEIVIENT	JOB	L.J	
OTHER:		OTHER:			
	oleted operations. (Clearly state all p rk). SEE RULE I 1 03. For Multipl				
or recompletion.	ik). SEE ROLETTOS. FORMulipi	e Completions: Atta	ch wellbore c	ilagram of proposed oc	mpieuon
51 1 33311.p.13 100					
The pit will be constructed and closed in	accordance with Rule 50 and as per th	ne Nov. 1, 2004 Guide	lines. See the	attached diagram that de	tails the
location of the pit in reference to the pro-	posed wellhead. The drill pit will be l	ined. The drill pit will	be closed after	r the well has been comp	pleted.
The solids left after the water has bee	n disposed of will be sampled and N	NMOCD approval w	ill be obtaine	d prior to closure of thi	s pit.
Thembooks dead is 6					
I hereby certify that the information grade tank has been/will be constructed or c	above is true and complete to the dosed according to NMOCD guidelines	best of my knowled , a general permit o	lge and belie r an (attached) :	I further certify that any pi alternative OCD-approved	torbekow- Iplan 🔲
SIGNATURE Vicki Westby	TITLE Stat	ff Agent		DATE 1/07/05	**************************************
Type or print name	E-mail add	dress:		Telephone No.	
For State Use Only	1 0 /			MAR 2	7 2005
APPROVEDBY:	SEPUT	Y OIL & GAS INSTE	ctor, dist. _t	DATE	1 4000
Conditions of Approval (if any);	MU TITLE			DATE	





PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 32-8 213A

1					······································			METANON PROFESSIONAL PROPERTY AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRATION AND ADMINISTRATION ADMINISTRA	ta tarkitataa saasaa saasaa tirkiin oo	
Lease:					A	NFE #:				AFE \$:
Field Name: hPH	ILLIPS 3	2-8		Rig:	······································			State: NM	County: SAN JUAN	API #:
Geoscientist: Clo	ud, Tom	1 A		Phone	: +1 832 486	-2377	Prod.	Engineer:	P	Phone: 832-486-2254
Res. Engineer: Pe	eterson,	Brad T	•	Phone	: 486-2055		Proj. f	Field Lead:	P	Phone:
Primary Object	ive (Zor	nes):							general and the Company	A Memory Consults
Zone	Zone	Name								
JCV	BASIN	FRUIT	LAND COAL	(GAS)						
				···						
Location: Surface	e i									Straight Hole
Latitude: 36.97	ι	ongitu	de: -107.67	,	X:		Y:		Section: 22	Range: 8W
Footage X: 1169	FWL F	ootage	Y: 2426 FI	VL.	Elevation: 68	20	(FT)	Township: 32N		
Tolerance:										
Location Type:				Start D	Date (Est.):		Con	npletion Date:	Date In O	peration:
Formation Data:	Assum	e KB =	6833	Units =	FT					
Formation Call &			Depth	SS	Depletion	BHP	внт		Remarks	
Casing Points			(TVD in Ft)	(Ft)	(Yes/No)	(PSIG)	Dill		Remarks	
SAN JOSE			13	6820	П					
Surface Casing			213	6620	Ц		•	12-1/4 hole. 9 to surface.	5/8" 32.3 ppf, H-40, STC	C casing. Circulate cement
NCMT			973	5860						1
OJAM			2603	4230				Possible water	flows.	
KRLD			3123	3710						
FRLD			3263	3570				Possible gas.		4
Intermediate Casin	ıg		3378	3455				8 3/4" Hole. 7 surface.	", 20 ppf, J-55, STC Casir	ng. Circulate cement to
TOP COAL			3408	3425						
BASE MAIN COAL			3533	3300		1100				
PC TONGUE			3613	3220						
BASE LOWEST COA	AL.		3728	3105						
PCCF.			3733	3100						
Total Depth			3803	3030				6-1/4" hole pos	ssibly underreamed to 9.5 C - left uncemented.	". Optional Liner: 5.5",
Reference Wells	S.						14.5	13.3#, J"33 L(C icit uncertenteu.	
Reference Type	************	ıme			Comments	a Tra				
	Phillips 9		3 #4-15	···						
Intermediate	EPNG S	1 #31	22							

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PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 32-8 213A

Logging Prog	Logging Program:							
Intermediate Lo	Intermediate Logs: Log only if show GR/ILD Triple Combo							
TD Logs:	TD Logs:							
	TE) includes 80 feet su	mp/rathole & Co	OPC will comply with				
Additional Infor	Additional Information: the BLM's Conditions of Approval for the proposed sump/rathole in this non-producing Pictured Cliffs formation							
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks			

Comments: General/Work Description -

Estimated elevation from topo map as of 12/14/2004.

3 basal coal above PCCF. No PCCF PA.

Notify geologist if final graded location has elevation difference more than 20 ft to 6820' GL.

Mud Log from intermediate casing shoe to TD will be obtained.

Drilling Mud Program:

Surface: spud mud

Intermediate: fresh water mud with bentonite and polymer as needed

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

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MULTI-POINT SURFACE USE PLAN

ConocoPhillips Company San Juan 32-8 Unit #213A

The following is required information concerning the possible effect, which the drilling of this well may have on the environment, existing road sites, and surrounding acreage. A copy will be posted on the derrick floor so all contractors and sub-contractors will be aware of all items on this plan.

1. Existing Roads and Well Location

- A. The proposed Basin Fruitland Coal well location site is located at 2426' FNL and 1169' FWL, Section 22, T32N, R8W, San Juan County, New Mexico. All existing roads used to access the location shall be maintained in the same or better condition than presently maintained.
- B. Directions to the location are as follows:

 From the intersection of State Hwy 172 and State Hwy 151 in Ignacio, CO; travel southerly on State Hwy 172, which changes name at the State line to State Hwy 511 for 13.6 miles;

Turn right on well road and travel for 0.9 miles:

Turn right on well road and travel for 0.2 mile;

Turn right on well road and travel for 0.3 mile to well flag.

2. Planned Access Road

- A. No new access road will be needed to service the proposed well pad.
- C. Culverts as specified by BLM; Minimum of 18" diameter culvert shall be placed where the proposed well location will overlap the existing road (on the southeast side). Any additional culverts deemed necessary by dirt contractor during construction shall also be a minimum of 18" in diameter, brought to the attention of the BLM lead, and placed accordingly.
- D. Gates, cattleguards, or fences as specified by the BLM.

3. Topographic Map and Well Location

A 7.5' quadrangle topographic map was filed with the Notice of Staking. The proposed project is located on the Anastacio Spring quadrangle map: T32N, R8W, SWNW/4, Section 22, 2426' FNL and 1169' FWL. The general terrain is gradually sloping to the southwest at an average 6% grade or less. The proposed well pad is located on an unnamed mesa, on the south rim of Wildcat Canyon. Canyons in the area are dissected by deep ephemeral sandstone canyons. The primary vegetation in the immediate and surrounding project area consists of piñon juniper woodland vegetation community. Approximately eight (8) existing natural gas wells are located within a one (1) mile radius of the proposed project. Pipelines and access roads associated with these facilities represent further disturbance within the area.

4. Wellsite Layout and Cross Sections

See Cut & Fill plat for details. The proposed project will require 3:1 cut and fill slopes where suitable during the clean-up phase of the project; 2:1 cut and fill slopes will be allowed if necessary. Drainage will be diverted above the cut slope on the north side draining around the location to the south.

5. Water Supply

Due to the presence of adequate clay material on the location site, produced water will be

utilized in the drilling operations of this well according to the terms of the Beneficial Use Permit on file with the BLM. Produced water that is suitable for drilling operations and meets the established requirements will be trucked from the nearest existing ConocoPhillips gas well in the area or a two-inch (2") poly line will be installed on the surface along the new and existing access roadway to the well location. Said poly line, if utilized, will tie-in to the existing ConocoPhillips produced water gathering system at an existing riser along said system. In the event that an adequate amount of produced water is not available then water will trucked to the location from one of the following sources:

- a) San Juan River at Blanco Bridge, NWSESE of Section 18, T29N, R9W
- b) 29-6 Waterhole in Unit L, Section 28, T29N, R6W
- c) Navajo Reservoir, SWNWSE of Section 14, T30N, R7W
- d) Sims Mesa (SJ #14) NWSW Section 35, T31N, R7W
- e) La Jara Water Hole, Unit M, section 11, T30N, R6W
- f) Pine River
- g) City of Ignacio, CO
- h) City of Aztec, NM

6. Source of Construction Materials

Construction materials will be obtained from the location site.

7. Methods of Handling Waste Disposal

- A. The drill cuttings, fluids and completion fluids will be placed in the reserve pit that will be lined. The reserve pit will be fenced on three sides away from the pad during drilling and the fourth side fenced as soon as the rig moves out. The reserve pit will be allowed to dry, and materials remaining in the reserve pit shall be capped with a 4" minimum of suitable clay material. The reserve pit will then be backfilled, leveled and contoured so as to prevent any materials being carried into the watershed. Upon completion, the pad will be leveled, contoured, and reseeded with the appropriate seed mixture as specified by the BLM. The BLM seed mix for this project is a special test mixture for areas receiving more than 10" of annual precipitation.
- B. All garbage and trash will be hauled away to a landfill designated by ConocoPhillips.
- C. Chemical toilets will be provided and maintained during drilling operations.
- D. Slash and small trees will be chipped and spread over the seeded and mulched topsoil to help reduce erosion during reclamation.

8. Ancillary Facilities

There is a possibility for the placement of a compressor unit on location during some stage in the life of this well. If and when a compressor is placed on location, it will abide by any noise restrictions in affect at the time.

9. Production Facility Layout

- A. See attachment to this plan. Production equipment will be painted the color designated by the BLM. Color: Juniper Green.
- B. Any production equipment encompassed by a dirt berm or one in which potentially hazardous fluids are present shall be adequately fenced and properly maintained in order to safeguard both livestock and wildlife.
- C. Location of Proposed New Facilities A 4-1/2" OD buried steel pipeline that is 100 feet in length. The well-tie pipeline will tie-in to a Williams Field Service

pipeline within the surveyed area of the proposed well pad, therefore, no new disturbance would be associated with the proposed pipeline.

D. The pipe-wall thickness is .156 and the pipe-wall strength is 42,000# yield. The pipeline has the potential to be used to transport gas to drill the well. After the well is spudded, the pipeline will be authorized by a right-of-way issued to Williams Field Services. Please refer to the attached preliminary pipeline plat for additional information.

10. Plans for Restoration of Surface

Topsoil (6") will be stockpiled in the construction zone for later use in restoration. When the well is abandoned, the location and access road will be cleaned and restored to the original topographical contours as much as possible. The area will be reseeded with the appropriate seed mixture. If the well is productive, areas not used in production will be contoured and seeded with stipulated mixture.

11. Surface Ownership

The surface ownership is the BLM. The BLM/Farmington Field Office has mineral jurisdiction on this project.

12. Other Information

The onsite for the proposed project was conducted on December 20, 2004 with Mike Flaniken as the BLM lead.

No invasive weeds were identified in the proposed project area.

La Plata Archaeological Consultants in Dolores, Colorado has submitted the Cultural Resources Survey Report to the BLM. For the report number, contact either the Archeological Consultants or the BLM.

The construction contractor for the proposed project is Aztec Excavation Company.

There are no recreational areas, Special Management Areas (SMAs), Areas of Critical Environmental Concern (ACECs), or wilderness areas are within the project area.

The location lies in the BLM/FFO designated Rattlesnake Canyon Wildlife Area (BLM 2003a, pg. C-171). No construction will be allowed in this area between December 1st and March 31st.

The proposed action would not impact floodplains or stock ponds.

13. Operator's Representative and Certification

The person who can be contacted concerning compliance of this Surface Use Plan is:

Mike L. Mankin Coordinator / Right of Way and Claims ConocoPhillips Company 4001 Penbrook, Suite 313 Odessa, Texas 79762 (432) 368-1293

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drilling site; that I am familiar with the conditions which currently exist; that the statements made in this plan, are, to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by ConocoPhillips Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Coordinator / Right of Way and Claims

San Juan 32-8 # 213A

SURFACE CASING:

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

12.25	"	
9.625	"	Casing Inside Diam. 9.001
32.3	ppf	/
H-40		
230	<u>'</u>	
1.21	cuft/sk	
125	%	
147	sx	

Casing Inside Diam. 6 456

SHOE

230 ', 9.625 ",

32.3 ppf,

H-40 STC

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 Excess
Lead Cement Required
Tail Cement Required

8.75	"
7	**
20	ppf
J-55	
3378	•
2.91	cuft/sk
160	%
315	•
1.33	cuft/sk
160	%
394	SX
100	SX

LINER TOP

3358 '

SHOE

3378 ',

7 ",

20 ppf,

J-55

LINER BOTTOM 3803 ' (Uncemented)

SAN JUAN 32-8 #213A

\cap	DT	'IO	M	•

01 11014 1							
	9-5/8 Surface Casing						
	Class C Standard C	Cement					
Cement Recipe	+ 3% Calcium Chlo	ride					
·	+0.25 lb/sx Flocele						
Cement Volume 147 sx							
Cement Yield							
Charach Validado	179.8	cuft					
Slurry Volume	32.0	bbls					
Cement Density	15.6	ppg					
Water Required	5.29	gal/sx					

" Intermediate Casir	ng				
Lead Slurry					
Standard Cement					
+ 3% Econolite (Lo	st Circulation Additiv				
+ 10 lb/sx Gilsonite	+ 10 lb/sx Gilsonite (Lost Circ. Additvie				
+ 0.25 lb/sx Flocele (Lost Circ. Additive					
394	sx				
2.91	cuft/sx				
1146.2	cuft				
204.1	bbls				
11.5	ppg				
16.88	gal/sx				
	Standard Cement + 3% Econolite (Lo. + 10 lb/sx Gilsonite + 0.25 lb/sx Flocele				

7" Intermediate Casing				
	Tail Slurry			
	50 / 50 POZ:Standa	ard Cement		
Cement Slurry	+ 2% Bentonite (Lig	ght Weight Additive)		
	+ 5 lbm/sk Gilsonite	e (Lost Circ. Additive		
	+ 0.25 lbm/sk Flocele (lost Circ. Additiv			
	+ 2% Calcium Chlo	ride (Accelerator)		
Cement Required	100	SX		
Cement Yield	1.33	cuft/sx		
Churm (Volumo	132.7	cuft		
Slurry Volume	23.6	bbls		
Cement Density	13.5 ppg			
Water Required	5.36	gal/sx		

OPTION 2

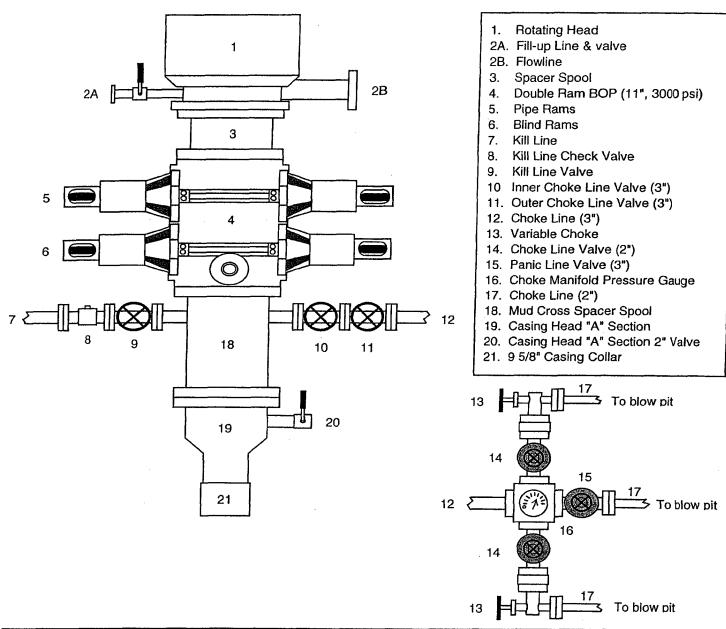
	9-5/8" Surface	Casing		
Cement Slurry	y Class G + 2% S001 Calcium Chloride			
	+ 0.25 lb/sx [0029 Cellophane Flakes		
Cement Volume	147	sx		
Cement Yield	1.16	cuft/sx		
Cement Volume	170.59	cuft		
Cement Density	15.8	ppg		
Water Required	4.983 gal/sx			

7" Intermediate Casing							
	Lead Slurry						
Cement Slurry	Class G						
	+ 3% D079 Extender						
	+ 0.25 lb/sx D029 Cellophane Flakes						
· ·	+ 0.2% D046 Antifoam						
Cement Volume	442	sx					
Cement Yield	2.61	cuft/sx					
Cement Volume	1153.25	cuft					
Cement Density	11.7	ppg					
Water Required	15.876	gal/sx					

	7" Intermediate	Casing					
	Tail Slurry	/					
Cement Slurry	ment Slurry 50% POZ / 50% Class G cement						
	+ 2% D020 Bentonite						
	+ 2% S001 Calcium Chloride						
	+ 0.25 lb/sx D029 Cellophane Flakes						
	+ 5 lb/sx Gilsonite Extender						
	+ 0.2% D046 Antifoam						
Cement Volume	100	sx					
Cement Yield	1.27	cuft/sx					
Cement Volume	126.80	cuft					
Cement Density	13.5	ppg					
Water Required	5.182	gal/sx					

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to Intermediate Casing Point & Setting 7" Intermediate Casing



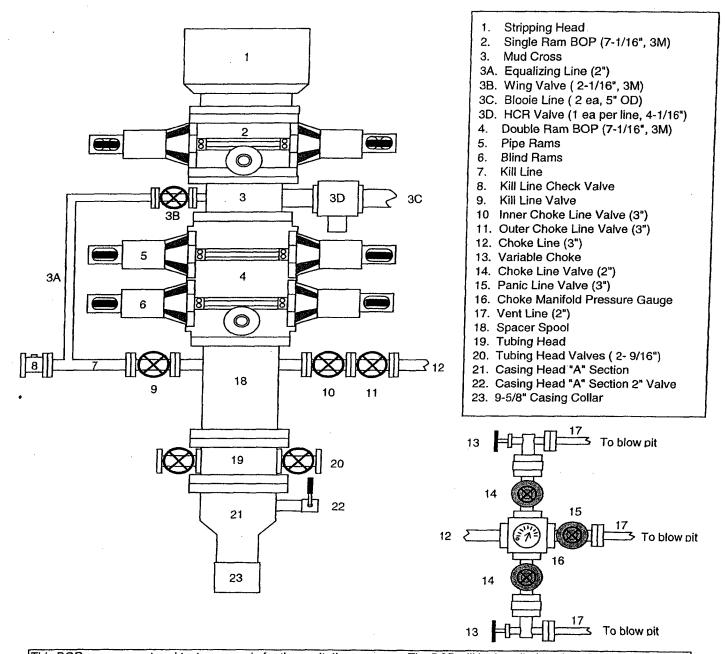
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 10 minutes and to 1000 psi (high pressure test) for 10 minutes. Then the test plug will be removed, and the 9-5/8" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 10 minutes and to 1000 psi for 30 minutes (this value is one 44% of the minimum internal yield pressure of the 9-5/8" casing). (Note: per regulatory requirements we will wait on cement at least 8 hrs after placement before testing the 9-5/8" surface casing). Then an 8-3/4" hole will be drilled to intermediate casing point and 7" intermediate casing will be run and cemented.

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

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Cavitation Program



This BOP arrangement and test program is for the cavitation program. The BOP will be installed on the tubing head. The 7" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 10 minutes and to 1800 psi for 30 minutes - this test pressure is 48% of the minimum internal yield strength of 3740 psi for the 7", 20#, J-55, STC casing. The pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 10 minutes and to 1800 psi (high pressure test) for 10 minutes - This test will be done with a test plug or possibly without a test plug (ie against casing). If we conduct this test without a test plug we will ensure that we have sufficient drillstring weight in the hole to exceed the upward force generated by the test.

We use a power swivel and air/mist to drill the 6-1/4" hole in our cavitation program. We do not use a kelly. In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- 1. String floats will be used inside the drillpipe
- 2. Stab-in TIW valve for all drillstrings in use
- 3. Each blooie line is equipped with a hydraulically controlled valve (HCR valve).

Property:	SAN JUAN 32-8			Well #	!: <u>2</u>	213A		
Surface Locat	ion:							
Unit: E	Section: 22	Township:	32N	_Range:	8W			
County: SAN JUAN			State	State: New Mexico				
Footage:	2426 fro m	the North	line	1169	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.