Form 3160-3
(August 1999)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: ☒ DRILL ☐ REENTER	5. Lease Serial No. SF-078459
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA Agreement, Name and No.
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone	8. Lease Name and Well No. SAN JUAN 32-7 UNIT 44G
2. Name of Operator CONOCOPHILLIPS COMPANY Contact: VICKI WESTBY E-Mail: Vicki.R.Westby@conocophillips.com	9. API Well No. 30045 32501
3a. Address 4001 PENBROOK, SUITE 346 ODESSA, TX 79762	3b. Phone No. (include area code) Ph: 915.368.1352
	10. Field and Pool, or Exploratory MESA VERDE / BASIN DAKOTA Blanco
4. Location of Well *(Report location clearly and in accordance with any State requirements.)* At surface SWSE 830FSL 2295FEL At proposed prod. zone	11. Sec., T., R., M., or Blk. and Survey or Area Sec 22 T32N R7W Mer NMP
14. Distance in miles and direction from nearest town or post office*	12. County or Parish SAN JUAN / 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 S/2 DK 326.4 E/2 MV 331.4
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth 8163 MD / 20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KB, RT, GL, etc. 6520 GL	22. Approximate date work will start / 23. Estimated duration

OCT 2004
RECEIVED
OIL CONS. DIV.
DIST. 3

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature	Name (Printed/Typed)	Date
(Electronic Submission)	VICKI WESTBY	08/03/2004

Title: AGENT

Approved by (Signature)	Name (Printed/Typed)	Date
Title: AFM	Office: FFO	9-30-04

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 #33962 verified by the BLM Well Information System
For CONOCOPHILLIPS COMPANY, sent to the Farmington

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

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

NMOCD

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised June 10, 2003
Submit to Appropriate District Office
State Lease – 4 Copies
Fee Lease – 3 Copies

☐ AMMENDED REPORT

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-045-32501	72319 / 71599	Mesa Verde / BASIN DAKOTA (PRORATED GAS)

4 Property Code	5 Property Name	6 Well Number
31329	SAN JUAN 32-7 UNIT	44G

7 OGRID No.	8 Operator Name	9 Elevation
217817	CONOCOPHILLIPS COMPANY	6520

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
	22	32N	7W		830	SOUTH	2295	EAST	SAN JUAN

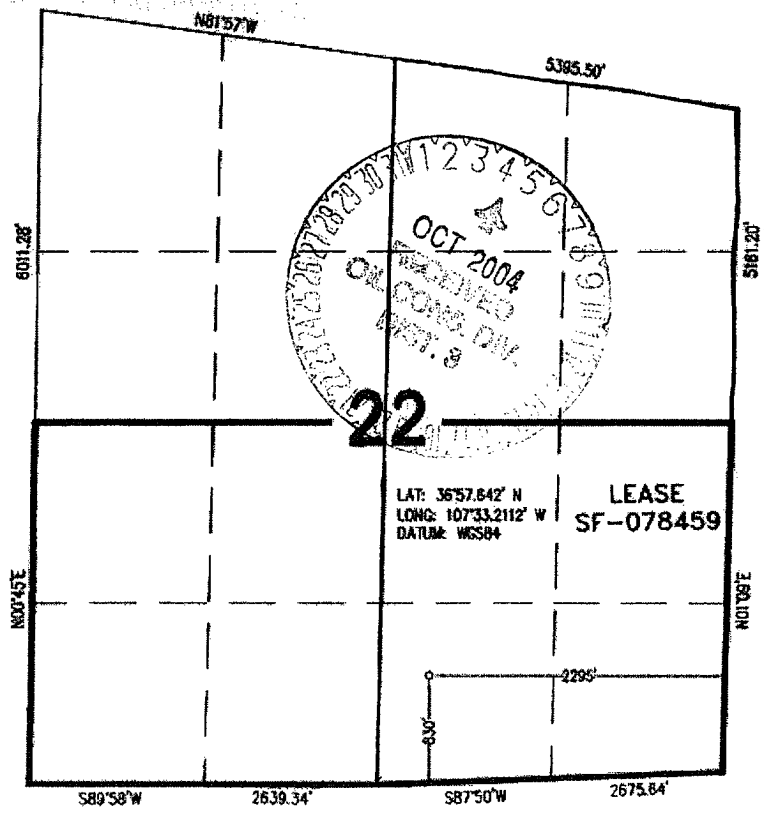
11 Bottom Hole Location If Different From Surface

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	13 Joint or Infill	14 Consolidation Code	15 Order No.
326.4 – 330.4	S½ - DK E½ - MV		

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

16



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Vicki Westby (ap)
Signature

Vicki Westby
Printed Name

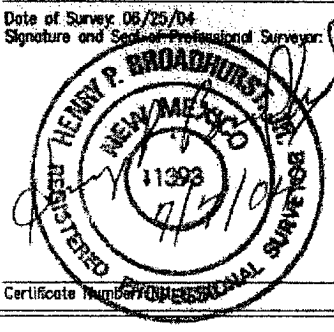
Sr. Analyst
Title and E-mail Address

8/3/04
Date

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.

Date of Survey: 06/25/04
Signature and Seal of Professional Surveyor:



Certificate Number

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

WELL API NO.

5. Indicate Type of Lease STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

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.)

7. Lease Name or Unit Agreement Name: San Juan 32-7 Unit

1. Type of Well: Oil Well ☐ Gas Well ☑ Other

8. Well Number: 44G

2. Name of Operator: ConocoPhillips Company

9. OGRID Number: 217817

3. Address of Operator: 4001 Penbrook, Odessa TX 79762

10. Pool name or Wildcat: Mesa Verde / Basin Dakota

4. Well Location
Unit Letter O : 830 feet from the South line and 2295 feet from the East line
Section 22 Township 32N Range 7W NMPM San Juan County

11. Elevation *(Show whether DR, RKB, RT, GR, etc.)*: 6520 GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type Drill **Depth to Groundwater** 50-100' **Distance from nearest fresh water well** >1000' **Distance from nearest surface water** 200-1000'

Pit 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	☐	PLUG AND ABANDON	☐	REMEDIAL WORK	☐	ALTERING CASING	☐
TEMPORARILY ABANDON	☐	CHANGE PLANS	☐	COMMENCE DRILLING OPNS.	☐	P AND A	☐
PULL OR ALTER CASING	☐	MULTIPLE COMPL	☐	CASING/CEMENT JOB	☐		
OTHER:	☐			OTHER:	☐		

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 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

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 (pf) TITLE Sr. Analyst DATE 7/29/04

Type or print name Vicki Westby E-mail address: Vicki.R.Westby@ConocoPhillips.com Telephone No. 432-368-1352

OCT 2004

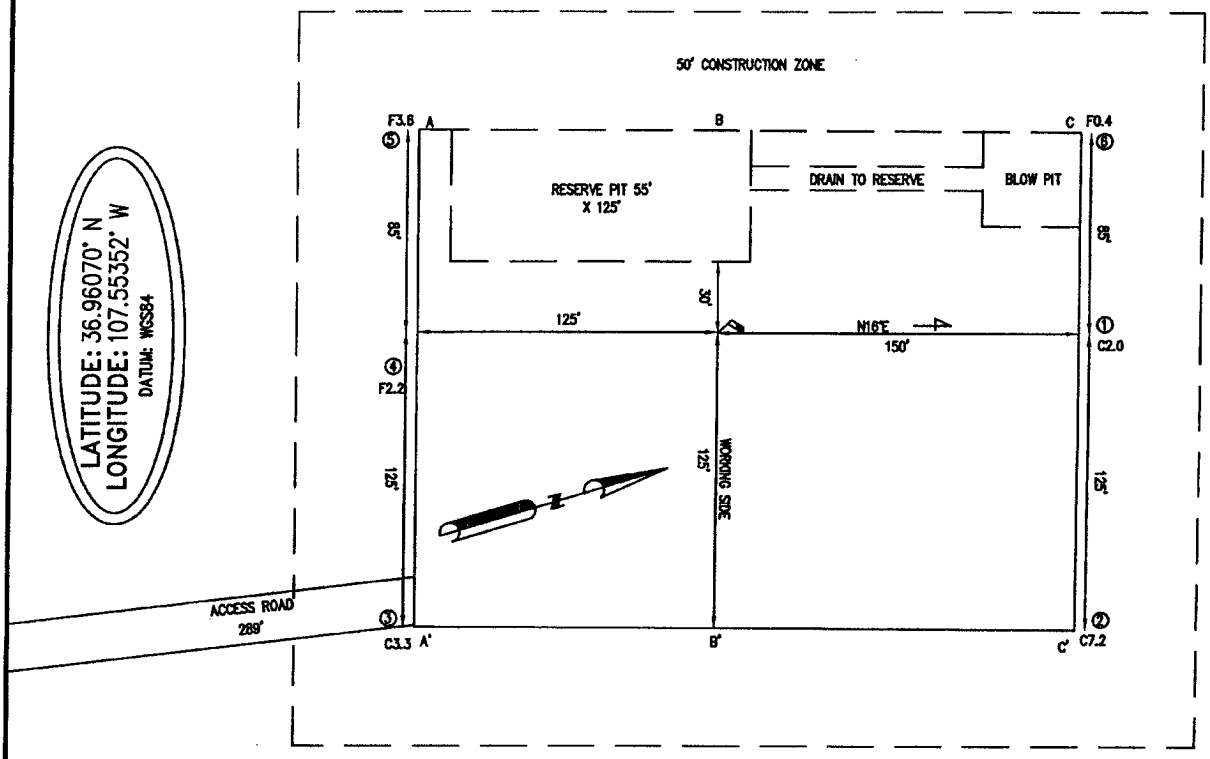
For State Use Only

APPROVED BY: _____ TITLE DEPUTY OIL & GAS INSPECTOR, DIST. #3 DATE OCT - 4 2004

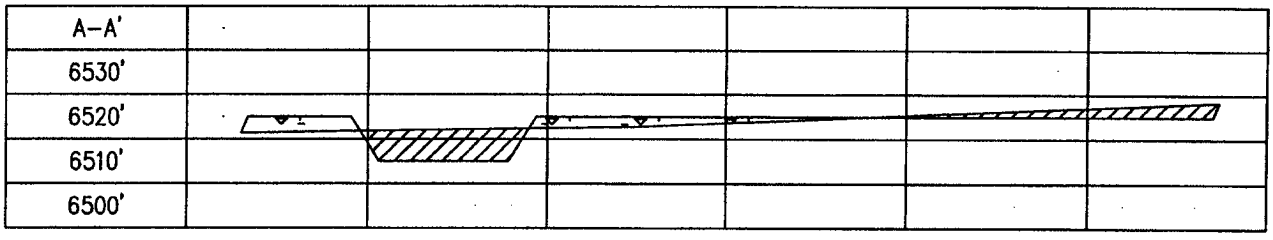
Conditions of Approval (if any):

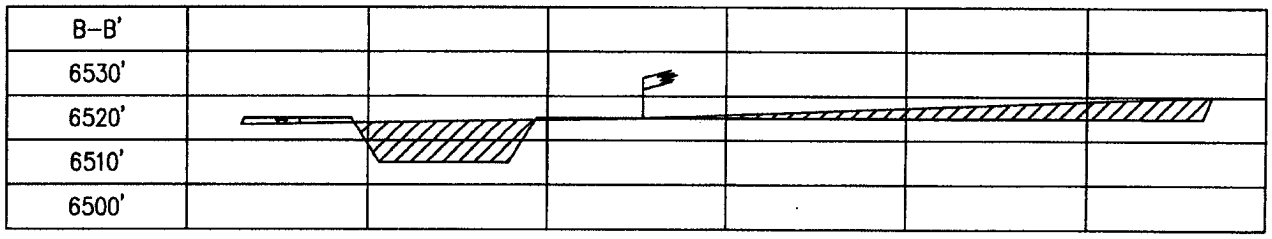
CONOCOPHILLIPS COMPANY SAN JUAN 32-7 UNIT 44G
830' FSL & 2295' FEL, SECTION 22, T32N, R7W, NMPM
SAN JUAN COUNTY, NEW MEXICO ELEVATION: 6520'

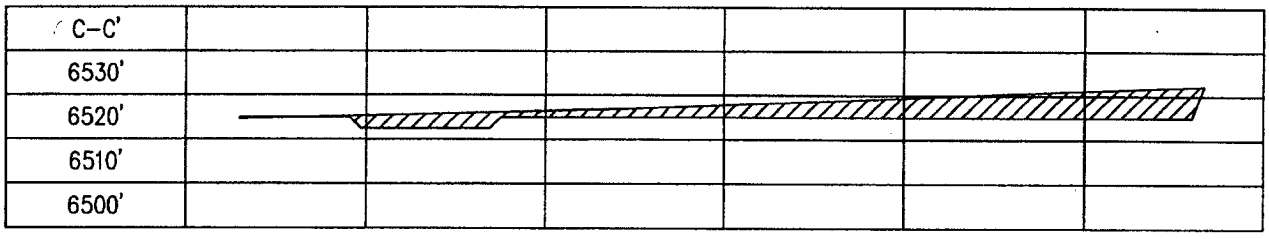
LATITUDE: 36.96070° N
LONGITUDE: 107.55352° W
DATUM: WGS84



PLAT NOTE:
SURFACE OWNER BLM







FILENAME: 32-7 44G.DWG	SHEET 2 OF 6	CHENAULT CONSULTING INC.	DRAWN BY:G.CHAVEZ	CHECKED BY:J.FUNK

ConocoPhillips

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 32-7 44G

Lease:		AFE #:		AFE $:
Field Name: hPHILLIPS 32-7	Rig: MACKLON Rig 3	State: NM	County: SAN JUAN	API #:
Geoscientist: Glaser, Terry J	Phone: (832)486-2332	Prod. Engineer: Pusch, Jennye		Phone: 832-486-2345
Res. Engineer: Tomberlin, Timothy A	Phone: 486-2328	Proj. Field Lead:		Phone:

Primary Objective (Zones):

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

Location: Surface — **Straight Hole**

Latitude: 36.96	Longitude: -107.55	X:	Y:	Section: 22	Range: 7W
Footage X: 2295 FEL	Footage Y: 830 FSL	Elevation: 6520 (FT)	Township: 32N		
Tolerance:					

Location Type: Summer Only | Start Date (Est.): | Completion Date: | Date In Operation:

Formation Data: Assume KB = 6533 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	213	6320	☐			12 1/4" Hole. 9 5/8", 32.3 ppf, H-40, STC casing. Circulate cement to surface.
NCMT	933	5600	☐			
FRLD	3003	3530	☐			Possible gas.
PCCF	3303	3230	☐			
LEWS	3703	2830	☐			
Intermediate Casing	3853	2680	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Circulate cement to surface.
CHRA	4428	2105	☐			
CLFH	5443	1090	☐	1300		Gas
MENF	5543	990	☐			Gas.
PTLK	5753	780	☐	1300		Gas.
MNCS	6053	480	☐			
GLLP	7113	-580	☐			Gas. Possibly wet.
GRHN	7823	-1290	☐			Gas possible, highly fractured
CBBO	7993	-1460	☐			Gas
Total Depth	8163	-1630	☐	3300		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

Logging Program:

Intermediate Logs: ☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☑ TDT

Additional Information:

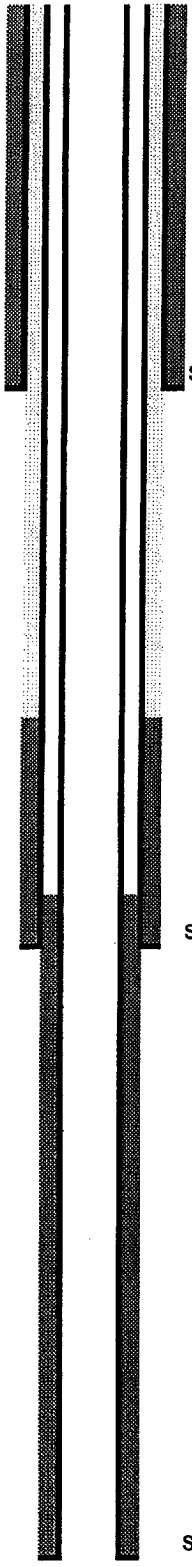
Comments: Location/Tops/Logging - TD is 340' below the top of the Greenhorn. Intermediate csg is 450' below top of PC due to PC intertongue.

General/Work Description -

Drilling Mud Program:

Printed on: 07/27/2004 3:18:58 PM

San Juan 32-7 #44G



SURFACE CASING :

Drill Bit Diameter	12.25	"
Casing Outside Diameter	9.625	"
Casing Weight	32.3	ppf
Casing Grade	H-40	
Shoe Depth	230	'
Cement Yield	1.21	cuft/sk
Excess Cement	125	%
Cement Required	149	**sx**

Casing Inside Diam. 9.001 "

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

INTERMEDIATE CASING :

Drill Bit Diameter	8.75	"
Casing Outside Diameter	7	"
Casing Weight	20	ppf
Casing Grade	J-55	
Shoe Depth	3853	'
Lead Cement Yield	2.88	cuft/sk
Lead Cement Excess	150	%
Tail Cement Length	770.6	'
Tail Cement Yield	1.33	cuft/sk
Tail Cement Excess	150	%
Lead Cement Required	386	**sx**
Tail Cement Required	225	**sx**

Casing Inside Diam. 6.456 "

SHOE 3853 ', 7 ", 20 ppf, J-55 STC

PRODUCTION CASING :

Drill Bit Diameter	6.25	"
Casing Outside Diameter	4.5	"
Casing Weight	11.6	ppf
Casing Grade	N-80	
Top of Cement	3653	'
Shoe Depth	8163	'
Cement Yield	1.45	cuft/sk
Cement Excess	50	%
Cement Required	174	**sx**

Casing Inside Diam. 4.000 "

200' inside intermediate casing

SHOE 8163 ', 4.5 ", 11.6 ppf, N-80 STC

San Juan 32-7 #44C			
	Surf. Csg	Int. Csg	Prod. Csg
OD	9.625	7	4.5
ID	9.001	6.456	4.000
Depth	230	3853	8163
Hole Diam	12.25	8.75	6.25
% Excess Lead		150	
% Excess Tail	125	150	50
Lead Yield		2.88	
Tail Yield	1.31	1.33	1.45
Ft of Tail Slurry	230	770.6	4510
Top of Tail Slurry	0	3082.4	3653
Top of Lead Slurry	N/A	0	N/A
Mud Wt (ppg)	8.9	9.0	air dril
Mud Type	WBM	WBM	air dril

Surface Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Open Hole Annulus	230	0.055804	2.25	28.9	162.1	134.0
Shoe Track Volume	40	0.078735	1	3.1	17.7	14.6
Total				32.0	179.8	148.6

Intermediate Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Lead Open Hole Annulus	2852.4	0.026786	2.5	191.0	1072.4	372.4
Lead Cased Hole Annulus	220	0.031116	1	6.8	38.4	13.3
Lead Total				197.9	1110.9	385.7
Tail Open Hole Annulus	770.6	0.026786	2.5	51.6	289.7	217.8
Tail Shoe Track Volume	42	0.040505	1	1.7	9.6	7.2
Tail Total				53.3	299.3	225.0

Production Casing						
	Ft	Cap	XS Factor	bbls	cuft	sx
Open Hole Annulus	4310	0.018282	1.5	118.2	663.6	457.7
Cased Hole Annulus	200	0.020826	1	4.2	23.4	16.1
Total				122.4	687.0	473.8

San Juan 32-7 #44G		
9-5/8 Surface Casing		
Cement Recipe	Class C Standard Cement	
	+ 3% Calcium Chloride	
	+0.25 lb/sx Flocele	
Cement Volume	149	sx
Cement Yield	1.21	cuft/sx
Slurry Volume	179.8	cuft
	32.0	bbls
Cement Density	15.6	ppg
Water Required	5.29	gal/sx
Compressive Strength		
Sample cured at 60 deg F for 8 hrs		
4hrs 38 mins	50	psi
9hrs	250	psi

San Juan 32-7 #44C		

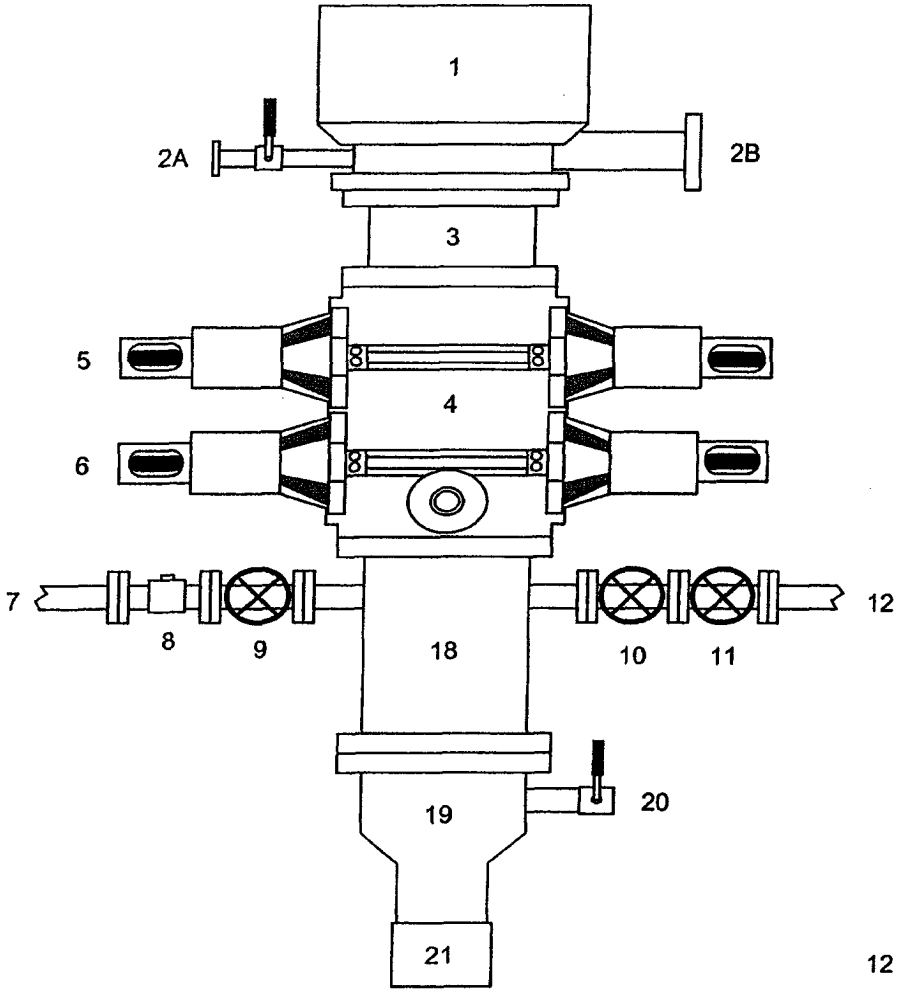
7" Intermediate Casing		
Lead Slurry		
Cement Recipe	Standard Cement	
	+ 3% Econolite (extender)	
	+ 10 lb/sx Pheno Seal	
Cement Required	386	sx
Cement Yield	2.88	cuft/sx
Slurry Volume	1110.9	cuft
	197.9	bbls
Cement Density	11.5	ppg
Water Required	16.91	gal/sx
Compressive Strength		
Sample cured at 130 deg F for 24 hrs		
1 hr 47 min	50	psi
12 hr	350	psi
24 hr	450	psi

7" Intermediate Casing		
Tail Slurry		
Cement Slurry	50 / 50 POZ:Standard Cement	
	+ 2% Bentonite	
	+ 6 lb/sx Pheno Seal	
Cement Required	225	sx
Cement Yield	1.33	cuft/sx
Slurry Volume	299.3	cuft
	53.3	bbls
Cement Density	13.5	ppg
Water Required	5.52	gal/sx
Compressive Strength		
Sample cured at 130 deg F for 24 hrs		
2 hr 05 min	50	psi
4 hr 06 min	500	psi
12 hr	1250	psi
24 hr	1819	psi

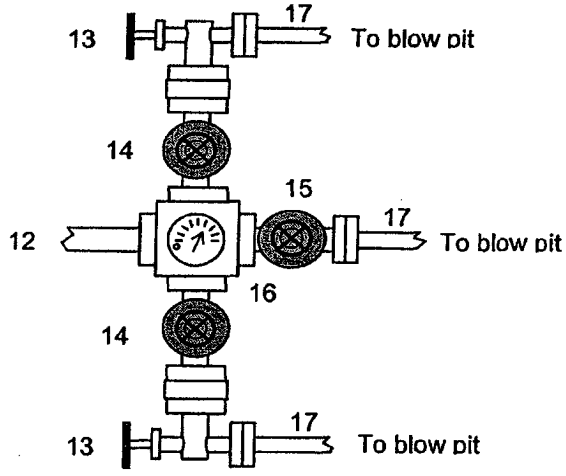
San Juan 32-7 #44G		
4-1/2" Production Casing		
Cement Recipe	50 / 50 POZ:Standard Cement	
	+ 3% Bentonite	
	+ 3.5 lb/sx PhenoSeal	
	+ 0.2% CFR-3 Friction Reducer	
	+ 0.1% HR-5 Retarder	
	+ 0.8% Halad-9 Fluid Loss Additive	
Cement Quantity	1,474	sx
Cement Yield	1.45	cuft/sx
Cement Volume	687.0	cuft
	+ 122.4	
Cement Density	13.1	ppg
Water Required	6.47	gal/sx
Compressive Strength		
Sample cured at 200 deg F for 23 hrs		
9 hr 50 min	50	psi
13 hr 45 min	500	psi
16 hr	1500	psi
23 hr	2525	psi

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

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



1. Rotating Head
2A. Fill-up Line & valve
2B. Flowline
3. Spacer Spool
4. Double Ram BOP (11", 3000 psi)
5. Pipe Rams
6. Blind Rams
7. Kill Line
8. Kill Line Check Valve
9. Kill Line Valve
10 Inner Choke Line Valve (3")
11. Outer Choke Line Valve (3")
12. Choke Line (3")
13. Variable Choke
14. Choke Line Valve (2")
15. Panic Line Valve (3")
16. Choke Manifold Pressure Gauge
17. Choke Line (2")
18. Mud Cross Spacer Spool
19. Casing Head "A" Section
20. Casing Head "A" Section 2" Valve
21. 9 5/8" Casing Collar

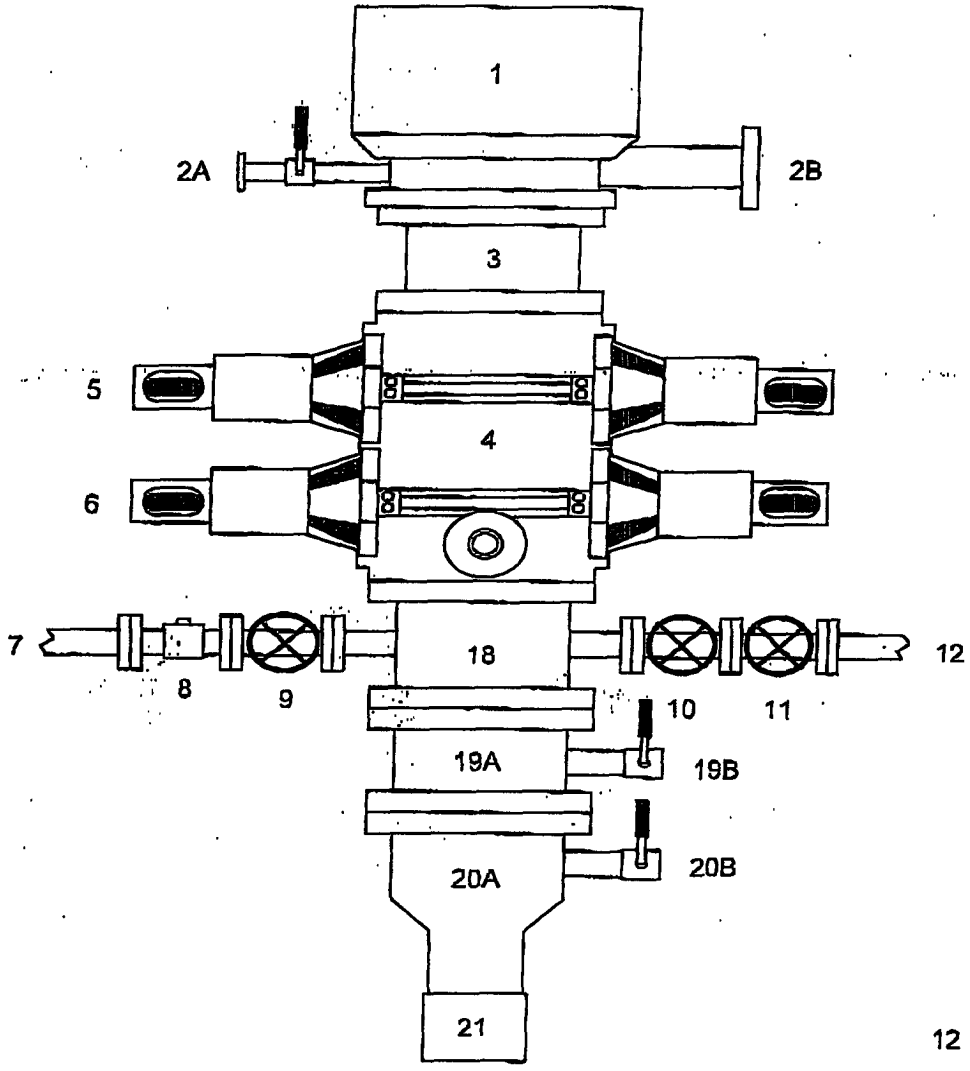


A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe rams and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 2-3 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 2-3 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.

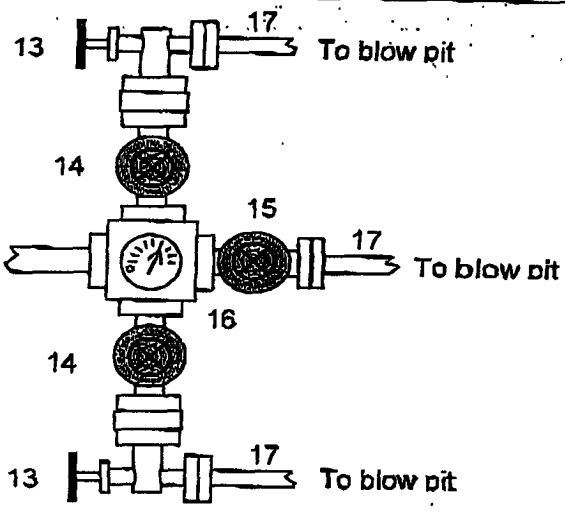
In addition to the equipment in the above diagram the following equipment will comprise the BOP system:
1. Upper Kelly cock Valve with handle
2. Stab-in TIW valve for all drillstrings in use

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to TD and Setting 4.5 inch Casing



1. Rotating Head
2A. Fill-up Line & valve
2B. Blooie Line (for Air Drilling)
3. Spacer Spool
4. Double Ram BOP (11", 3000 psi)
5. Pipe Rams
6. Blind Rams
7. Kill Line
8. Kill Line Check Valve
9. Kill Line Valve
10 Inner Choke Line Valve (3")
11. Outer Choke Line Valve (3")
12. Choke Line (3")
13. Variable Choke
14. Choke Line Valve (2")
15. Panic Line Valve (3")
16. Choke Manifold Pressure Gauge
17. Choke Line (2")
18. Mud Cross Spacer Spool
19A Csg Spool "B" Section (11", 3M)
19B "B" Section Csg Valve (2", 3M)
20A Csg Head "A" Section (11", 3M)
20B "A" Section Csg Valve (2", 3M)
21. 9 5/8" Casing Collar



After the 7" intermediate casing has been run and cemented, the Casing Spool ("B" Section) will be installed on the wellhead ("A" Section) and the BOP will be installed on the Casing Spool. A test plug will be set in the wellhead and the pipe rams, blind rams, and choke manifold will be tested to 200 psi to 300 psi (low pressure test) for 2-3 minutes and to 3000 psi (high pressure test) for 10 minutes. Then the test plug will be removed and the 7" casing will be pressure tested against closed blind rams to 200 psi to 300 psi for 2-3 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. Then we will air drill the 6-1/4" hole to TD and run and cement the 4-1/2" casing.

In addition to the equipment in the above diagram the following equipment will comprise the BOP system:

- Upper Kelly cock Valve with handle
- Stab-in TIW valve for all drillstrings in use