

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD DEC21'06

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078997 Unit Reporting Number NMNM-78419A-MV NMNM-78419B-DK	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips	7. Unit Agreement Name San Juan 30-5 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number #70F	
4. Location of Well Unit G (SWNE), 1800' FNL, 2200' FEL Latitude 36° 49.7708'N Longitude 107° 21.6348'W	10. Field, Pool, Wildcat Basin Dakota/Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) G Sec. 9, T30N, R5W API # 30-39- 30096	
14. Distance in Miles from Nearest Town 49 Miles Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1800'	17. Acres Assigned to Well 320.00 acres E/2 MV 320.00 acres A/2 DK	
16. Acres in Lease		
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease		
19. Proposed Depth 7898'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6353' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>James Faurie</u> Regulatory Specialist	Date <u>10/30/06</u>	

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

Threatened and Endangered Species Report attached

NOTE: This format is issued in lieu of U.S. BLM Form 3160-3

Title 18 U.S.C. Section 1001, makes 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 presentations as to any matter within its jurisdiction.

NMOCB B 12/22/06

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 88210

OIL CONSERVATION DIVISION

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

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT III
1000 Rio Hrozas Rd, Aztec, N.M. 87410

DISTRICT IV
1220 S. W. Francis Dr., Santa Fe, NM 87505

2003 OCT 30 09 10124 AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

SECRET

API Number 30-039-	Pool Code 72319/71599	Pool Name Blanco Mesaverde / Basin Dakota	OIL COM
Property Code 31327	Property Name SAN JUAN 30-5 UNIT		Well Number 70F
UGRID No. 217817	Operator Name CONOCOPHILLIPS COMPANY		Elevation 6353'

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
G	9	30-N	5-W		1800'	NORTH	2200'	EAST	RIO ARriba

¹¹ Bottom Hole Location If Different From Surface[illegible]

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
320 R/2 DK 320 acres E2 M4			

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, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or a working interest, or to a secondary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature Amanda Sanchez/Regulatory Printed Name Analyst
18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plot 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 _____ Signature and Seal of Professional Surveyor: _____ Certificate Number 15703	

Office

Energy, Minerals and Natural Resources

May 27, 2004

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

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-039-

300910

5. Indicate Type of Lease

STATE ☐FEE ☐

6. State Oil & Gas Lease No.

Federal Lease SF-078997

7. Lease Name or Unit Agreement Name

San Juan 30-5 Unit

8. Well Number

#70F

9. OGRID Number

217817

10. Pool name or Wildcat

Basin DK / Blanco MV

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.)

1. Type of Well:

Oil Well ☐Gas Well ☒

Other

2. Name of Operator

ConocoPhillips Company

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter G

: 1800'

feet from the

North

line and

2200

feet from the

East

line

Section 9

Township

30N

Rng

5W

NMPM

County

Rio Arriba

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

6432' GL

Pit or Below-grade Tank Application

☐ or Closure

Pit type

New Drill

Depth to Groundwater

50-100'

Distance from nearest fresh water well

>1000'

Distance from nearest surface water

200-1000'

Pit Liner Thickness:

12

mil

Below-Grade Tank:

Volume

4400

bbls;

Construction Material

Synthetic

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐TEMPORARILY ABANDON ☐PULL OR ALTER CASING ☐PLUG AND ABANDON ☐CHANGE PLANS ☐MULTIPLE COMPL ☐

OTHER:

New Drill

☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐COMMENCE DRILLING OPNS. ☐CASING/CEMENT JOB ☐ALTERING CASING ☐P AND A ☐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.

New Drill, Lined:

ConocoPhillips proposes to construct a new drilling pit, an associated vent/flare pit and a pre-set mud pit (if required). Based on ConocoPhillips' interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and pre-set mud pit will be lined pits as detailed in ConocoPhillips' General Plan dated June 2005 on file at the NMOCDD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be lined as per the risk ranking criteria. ConocoPhillips anticipates closing these pits according to the November 1, 2004 Guidelines.

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 NMOCDD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE

Juanita Farrell

TITLE

Regulatory Specialist

DATE

Type or print name
For State Use Only

Juanita Farrell

E-mail address:

Telephone No.

505-326-9518

APPROVED BY

[Signature]

TITLE

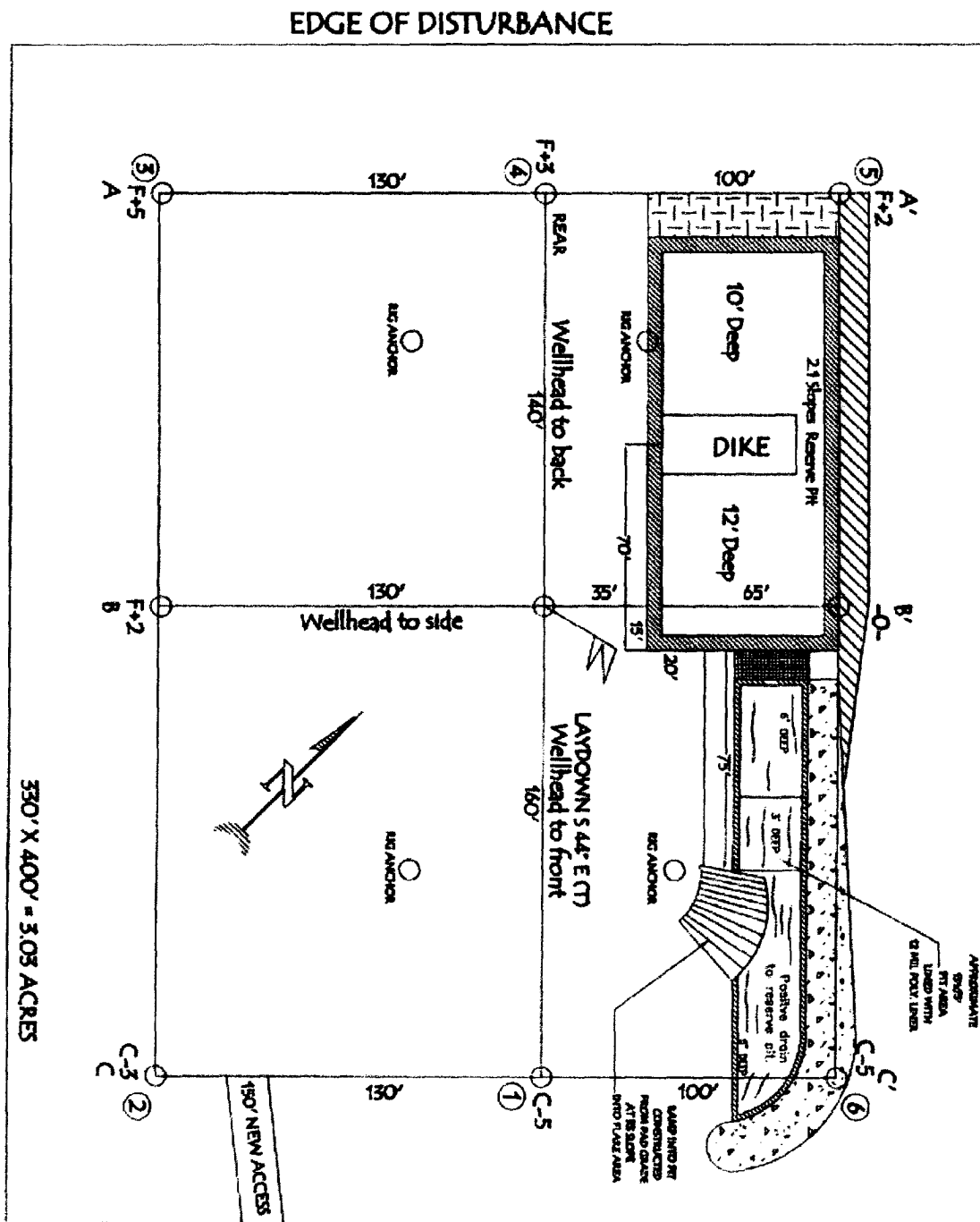
DEPUTY OIL & GAS INSPECTOR, DIST. 31

DATE

DEC 22 2006

Conditions of Approval (if any):

SAN JUAN 30-5 UNIT 70F, 1800' FNL & 2200' FEL
SECTION 9, T-30-N, R-5-W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6353', DATE: JULY 12, 2006

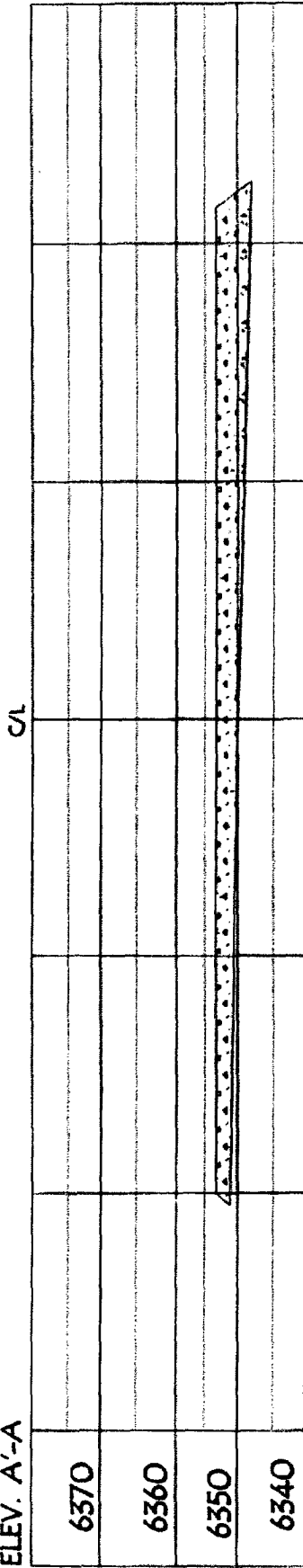


NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED
PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

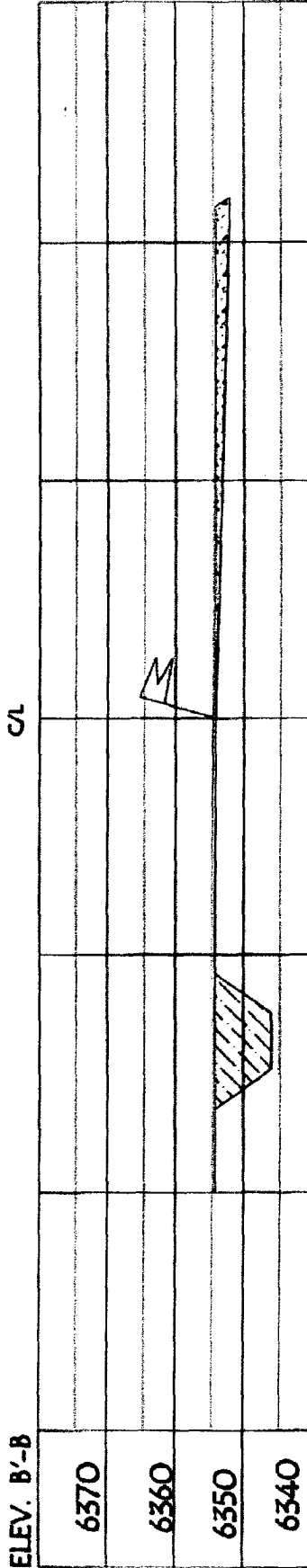
CONOCOPHILLIPS COMPANY

SAN JUAN 30-5 UNIT 70F, 1800' FNL & 2200' FEL
SECTION 9, T-30-N, R-5-W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6353', DATE: JULY 12, 2006

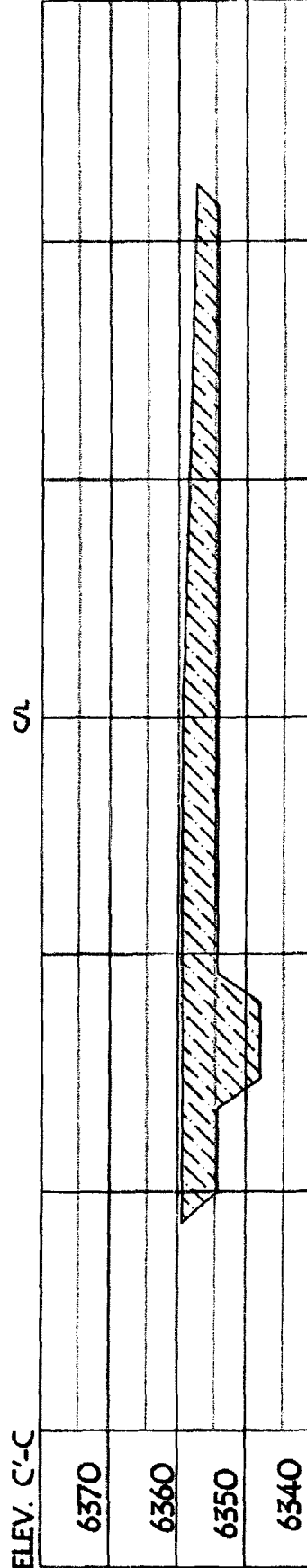
ELEV. A'-A



ELEV. B'-B



ELEV. C'-C



NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED
PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD DEC 21 06

OIL CONS. DIV.

DIST. 3

Sundry Notices and Reports on Wells

2006 NOV 20 PM 5 17

1. Type of Well
GAS

RECEIVED
070 FARMINGTON NM

2. Name of Operator
ConocoPhillips

3. Address & Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

Unit G (SWNE), 1800' FNL & 2200' FEL, Sec. 9, T30N, R5W, NMPM

5. Lease Number
SF078997
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name
SAN JUAN 30-5 UNIT

8. Well Name & Number

SAN JUAN 30-5 UNIT 70F
9. API Well No.

30-039- 300916

10. Field and Pool
Basin Dakota/Blanco Mesaverde

11. County and State
Rio Arriba, NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission	Type of Action	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment	☐ Plugging	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut off
	☐ Altering Casing	☐ Conversion to Injection

☒ Other

13. Describe Proposed or Completed Operations

ConocoPhillips wishes to amend APD submitted 10/30/06 to reflect corrected tops and TD. New proposed TD is 7845'. Please see attached tops and cement calculations.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

14. I hereby certify that the foregoing is true and correct.

Signed Juanita Farrell Title Regulatory Specialist Date 11/16/2006

(This space for Federal or State Office use)

APPROVED BY [Signature] Title ASM Date 12/18/06

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOCD

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 70F

Lease:	AFE #: WAN.CNV.7135		AFE \$:
Field Name: 30-5	Rig:	State: NM County: RIO ARRIBA	API #:
Geoscientist: Glaser, Terry J	Phone: (832)486-2332	Prod. Engineer:	Phone: 486-2334
Res. Engineer: Pena, David Fernando	Phone: 832-486-2328	Proj. Field Lead: Fransen, Eric E.	Phone:

Primary Objective (Zones):

Zone	Zone Name
R20002	MESAVERDE(R20002)
R20076	DAKOTA(R20076)

Location: Surface	Datum Code: NAD 27	Straight Hole
Latitude: 36.829514	Longitude: -107.360580	X: Y: Section: 9 Range: 5W
Footage X: 2200 FEL	Footage Y: 1800 FNL	Elevation: 6353 (FT) Township: 30N
Tolerance:		

Location Type: Summer Only	Start Date (Est.):	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 6369 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
NCMT	1169	5200	☐			
OJAM	2369	4000	☐			Possible water flows.
KRLD	2569	3800	☐			
FRLD	3019	3350	☐			Possible gas.
PCCF	3319	3050	☐			
LEWS	3519	2850	☐			
CHRA	4419	1950	☐			
CLFH	5303	1066	☐			Gas; possibly wet
MENF	5335	1034	☐			Gas.
PTLK	5571	798	☐			Gas.
MNCS	5769	600	☐			
GLLP	6844	-475	☐			Gas. Possibly wet.
GRHN	7547	-1178	☐			Gas possible, highly fractured
GRRS	7598	-1229	☐			
TWLS	7712	-1343	☐			Gas
PAGU	7722	-1353	☐			Gas. Highly Fractured.
CBBO	7728	-1359	☐			Gas
CBRL	7774	-1405	☐			
ID	7845	-1476	☐			

Reference	C. HARRADEN/ November 1, 2006 <i>ok</i>
Reference	
Intermediate	
Intermediate	CONOCOPHILLIPS/ San Juan 30-5 Unit #70F APD
Intermediate	STIPULATION/CONDITION OF APPROVAL

Logging P This well is located within a 'vulnerable area'. In order to protect the integrity of the fresh water alluvium aquifer, a minimum surface csg. depth of 200' is stipulated as a condition of approval for this APD.

HOLE: 12.25"
CSG OD: 9.625"
CSG ID: 9.001"
WGT: 32.3 ppg
GRADE: H-40
EXCESS: 200 %
DEPTH: 200

SURFACE:

Option 1
99 sx
20.7 bbls
116.3 cuft
1.17 ft³/sx
15.8 ppg
4.973 gal/sx
Class G Cement
+ 3% S001 Calcium Chloride
+ 0.25 lb/sx D029 Cellophane Flakes

Option 2

96 sx
20.7 bbls
116.3 cuft
1.21 ft³/sx
15.6 ppg
5.29 gal/sx
Standard Cement
+ 3% Calcium Chloride
+ 0.25 lb/sx Floccle

Option 3

37 sx
10.6 bbls
59.3 cuft
1.61 ft³/sx
14.5 ppg
7.41 gal/sx
Type I-II Ready Mix
+ 20% Fly Ash

Comp. Strength
8 hrs 475 psi
24 hrs 1375 psi

INTERMEDIATE LEAD:

Option 1

238 sx
115.2 bbls
647.0 cuft
2.72 ft³/sx
11.7 ppg
15.74 gal/sx
Class G Cement
+ 3% D079 Extender
+ 0.20% D046 Antifoam
+ 10 lb/sx Phenoseal

HOLE: 8.75"
CSG OD: 7"
CSG ID: 6.456"
WGT: 20 ppg
GRADE: J-55
EXCESS: 50 %
TAIL: 723.8

Option 2

249 sx
115.2 bbls
647.0 cuft
2.60 ft³/sx
11.5 ppg
14.62 gal/sx
Type III Ashgrove Cement
+ 30 lb/sx San Juan Poz
+ 3% Bentonite
+ 5.0 lb/sx Phenoseal

Option 3

246 sx
115.2 bbls
647.0 cuft
2.63 ft³/sx
11.7 ppg
15.92 gal/sx
Class G Cement
+ 3% D079 Extender
+ 0.20% D046 Antifoam
+ 1.0 lb/bbl CemNet

Comp. Strength
1.47 hrs 50 psi
12 hrs 350 psi
24 hrs 450 psi

Comp. Strength
3 hrs 100 psi
24 hrs 443 psi

INTERMEDIATE TAIL:

Option 1

132 sx
30.8 bbls
172.8 cuft
1.31 ft³/sx
13.5 ppg
5.317 gal/sx
50/50 Poz: Class G Cement
+ 0.25 lb/sx D029 Cellophane Flakes
+ 3% S001 Calcium Chloride
+ 2% D020 Bentonite
+ 1.5 lb/sx D024 Gilsonite Extender
+ 0.1% D046 Antifoam
+ 6 lb/sx Phenoseal

HOLE: 6.25"
CSG OD: 4.5"
CSG ID: 4.052"
WGT: 10.5 ppg
GRADE: J-55
EXCESS: 30 %
DEPTH: 784.5

Option 2

130 sx
30.8 bbls
172.8 cuft
1.33 ft³/sx
13.5 ppg
5.52 gal/sx
50/50 Poz: Standard Cement
+ 2% Bentonite
+ 6.0 lb/sx Phenoseal

Comp. Strength
2:05 50 psi
4:06 500 psi
12 hrs 1250 psi
24 hrs 1819 psi

Option 3

135 sx
30.8 bbls
172.8 cuft
1.28 ft³/sx
13.5 ppg
5.255 gal/sx
50/50 Poz: Class G Cement
+ 2% D020 Bentonite
+ 5.0 lb/sx D024 Gilsonite Extender
+ 2% S001 Calcium Chloride
+ 0.1% D046 Antifoam
+ 0.15% D065 Dispersant
+ 1.0 lb/bbl CemNet

Comp. Strength
24 hrs 1850 psi
48 hrs 3411 psi

PRODUCTION:

Option 1

408 sx
104.6 bbls
587.3 cuft
1.44 ft³/sx
13.0 ppg
6.47 gal/sx
50/50 Poz: Class G Cement
+ 0.25 lb/sx D029 Cellophane Flakes
+ 3% D020 Bentonite
+ 1.0 lb/sx D024 Gilsonite Extender
+ 0.25% D167 Fluid Loss
+ 0.25% D065 Dispersant
+ 0.1% D800 Retarder
+ 0.1% D046 Antifoam
+ 3.5 lb/sx Phenoseal

Option 2

405 sx
104.6 bbls
587.3 cuft
1.45 ft³/sx
13.1 ppg
6.55 gal/sx
50/50 Poz: Standard Cement
+ 3% Bentonite
+ 0.2% CFR-3 Friction Reducer
+ 0.1% HR-5 Retarder
+ 0.8% Halad-9 Fluid Loss Additive
+ 3.5 lb/sx Phenoseal

Comp. Strength
9:32 50 psi
12 hrs 500 psi
13:29 1026 psi
24 hrs 2300 psi

Comp. Strength
24 hrs 1850 psi
48 hrs 3411 psi

3-11/1

San Juan 30-5 Unit #70F

HOLE: 12.25 *
CSG OD: 9.625 *
CSG ID: 9.001 *
WGT: 32.3 ppf
GRADE: H-40
EXCESS: 200 %

DEPTH: 200

circulate

INTERMEDIATE LEAD:

Option 4

225 sx
115.2 bbls
647.0 cuft
2.88 ft³/sx
11.5 ppg
16.85 gal/sx
Standard Cement
+ 3% Econolite (Extender)
+ 10 lb/sx Phenoseal

Comp. Strength
1:47 50 psi
12 hrs 350 psi
24 hrs 450 psi

HOLE: 8.75 *
CSG OD: 7 *
CSG ID: 6.456 *
WGT: 20 ppf
GRADE: J-55
EXCESS: 50 %

TAIL: 723.8

DEPTH: 3619

circulate

INTERMEDIATE TAIL:

Option 5

308 sx
115.2 bbls
647.0 cuft
2.10 ft³/sx
11.7 ppg
11,724 gal/sx
75% Type XI / 25% Class G Cement
+ 0.25 lb/sx D029 Cellophane Flakes
+ 3% D079 Extender
+ 0.20% D046 Antifoam

Comp. Strength
10:56 500 psi
42 hrs 1012 psi

HOLE: 6.25 *
CSG OD: 4.5 *
CSG ID: 4.052 *
WGT: 10.5 ppf
GRADE: J-55
EXCESS: 30 %

DEPTH: 7845

PRODUCTION:

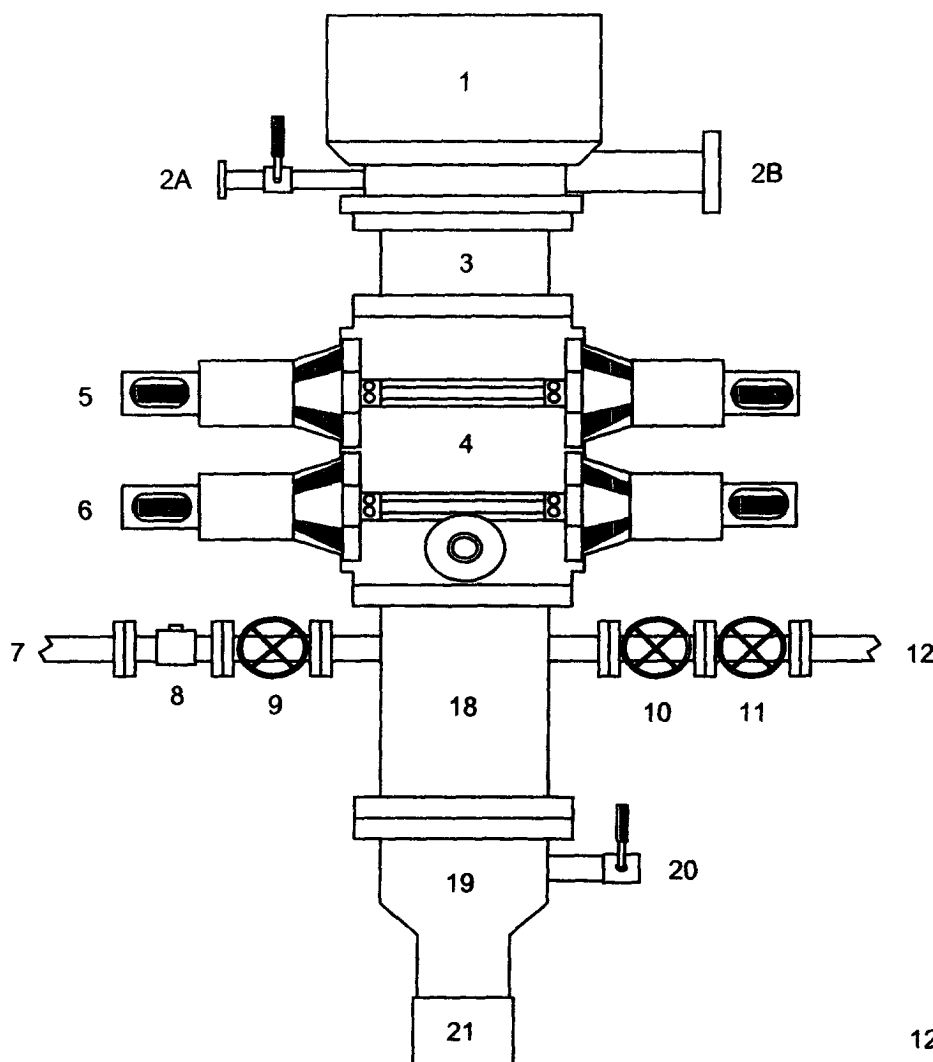
70C 3519'

If the 9 5/8" surface casing is preset drilled (NOTE) will cement w/75 sx Type I-II cement w/20% Flyash mixed @ 1.61 c/sx. Will bring cement to surface. Wait on cement for 24 hours for pre-set hole before pressure testing or drilling out. If H&P rig is used to drill the well will use 13 1/2" surface hole then will adjust cement to insure cement reaches surface.

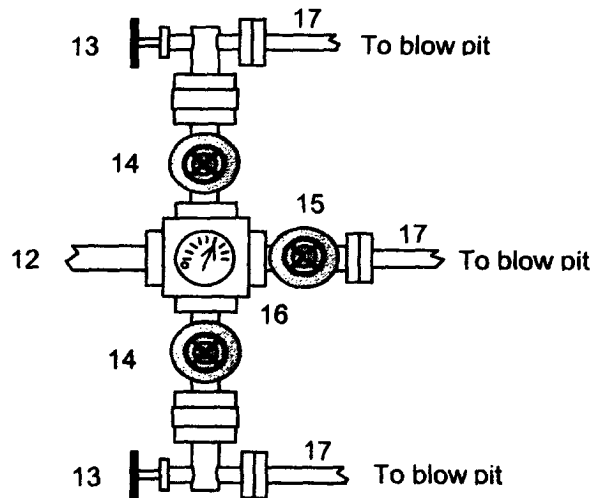
M³ - 11/17/06

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



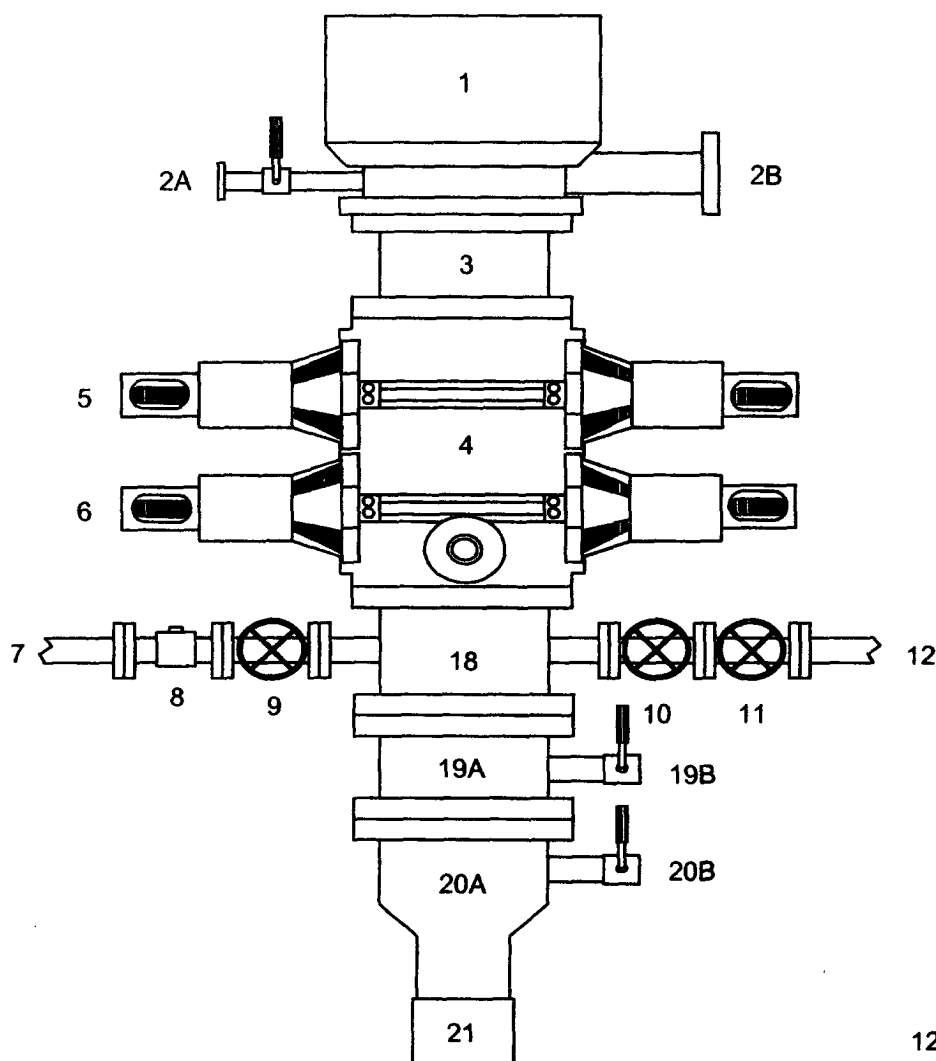
A 12-1/4" hole will be drilled to approximately 220' and the 9-5/8" surface casing will be run and cemented. The Casing Head "A" Section will be screwed onto the 9-5/8" surface casing stub. The BOP will be installed on the Casing Head "A" Section. A test plug will be set in the wellhead and the pipe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

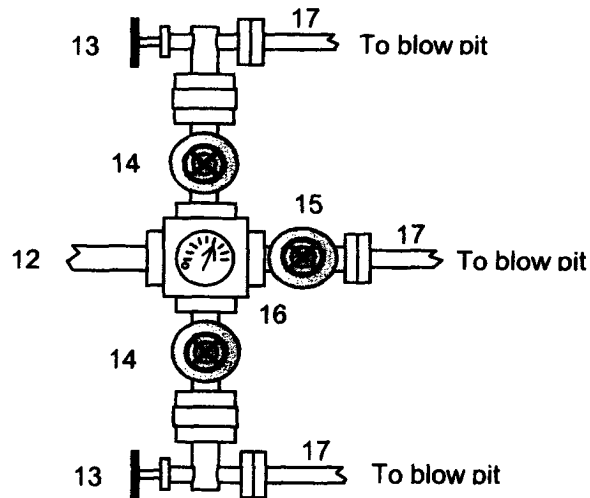
1. Upper Kelly cock Valve with handle
2. Stab-in TIW valve for all drillstrings in use

BLOWOUT PREVENTER ARRANGEMENT & PROGRAM

For Drilling to TD and Setting 4.5 inch Casing



1. Rotating Head
- 2A. Fill-up Line & valve
- 2B. Bloopie 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 10 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 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. 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:

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

Revision Date: September 1, 2004