

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

OCT 19 2010

1a. Type of Work DRILL	BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS	5. Lease Number USA SF-078412 Farmington Field Office Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company		7. Unit Agreement Name NOV 15 '10 OIL CONS. DIV. DIST. 3
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700		8. Farm or Lease Name Day 9. Well Number 5N
4. Location of Well Surf: Unit O(SWSE), 710' FSL & 1886' FEL Surf: Latitude: 36.71991° N (NAD83) Longitude: 107.71373° W		10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 18, T29N, R8W API # 30-045-35206
14. Distance in Miles from Nearest Town 10 Miles from Blanco, NM	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'		
16. Acres in Lease 1,692.620	17. Acres Assigned to Well 320 Acres E/2	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 950' from Day #5 (DK)		
19. Proposed Depth 7697'	 H ₂ S POTENTIAL EXIST	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6513' GL		22. Approx. Date Work will Start
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Brandie Blakley</u> Brandie Blakley (Staff Regulatory Tech)		<u>10-15-10</u> Date

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOC FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOC PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

PERMIT NO.

APPROVAL DATE

APPROVED BY D. Mantecias

TITLE AFM

DATE 11/5/2010

Archaeological Report attached

A gas recovery unit may or may not be used on this location.

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.

Example Master Plan Type 3

Bond Numbers ES-0048 and ES-0085

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

DEC 17 2010 NMOC

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

RECEIVED

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005
OCT 19 2010

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

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

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

Submit to Appropriate District Office
State Lease - 4 Copies
Free Lease - 3 Copies
Bureau of Land Management

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045- 35206		*Pool Code 72319/71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 6946 38423	*Property Name DAY		*Well Number 5N
*GRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY		*Elevation 6513'

10 Surface Location

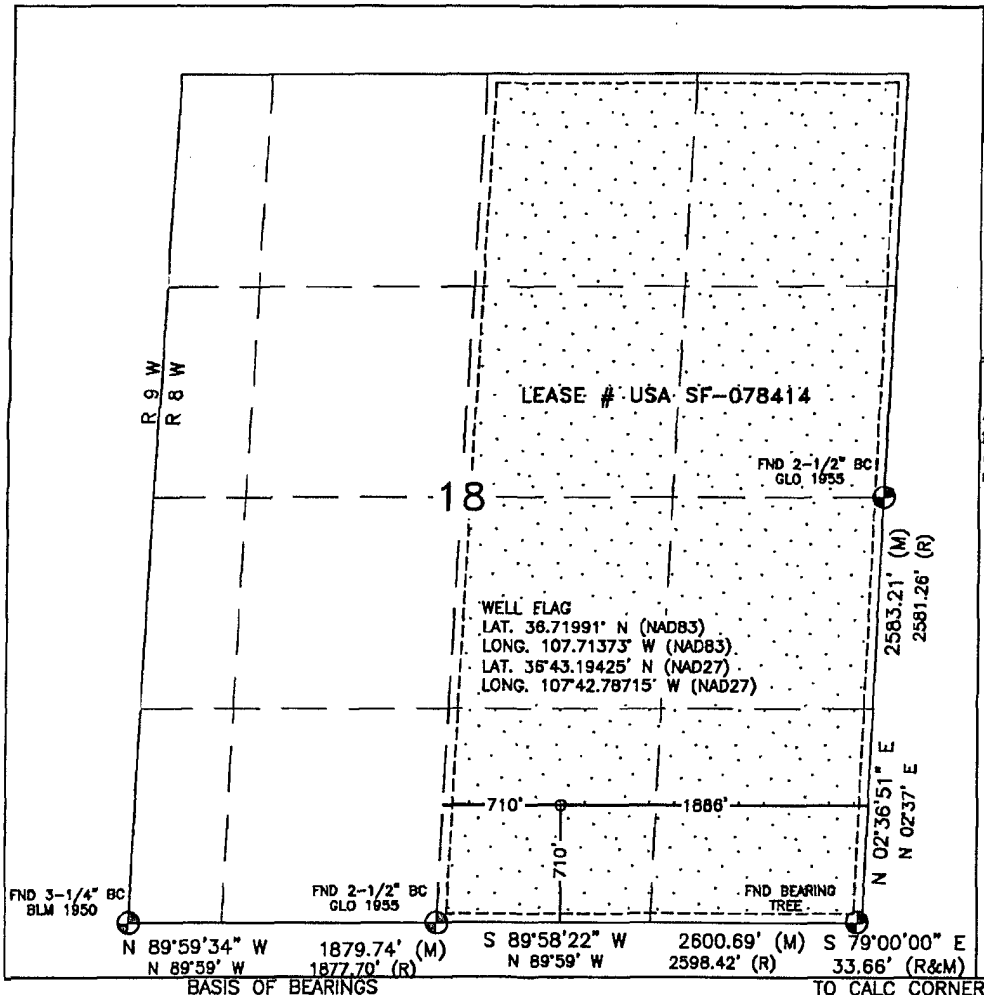
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	18	29N	8W		710'	SOUTH	1886'	EAST	SAN JUAN

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 320.00 ACRES - E/2			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

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 or a compulsory pooling order heretofore entered by the division.

Brandie Blakley 6-21-10
Signature Date

Brandie Blakley 6-21-10

Printed Name

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.

MAY 25, 2010

Date of Survey

Signature and Seal of Professional Surveyor:

David R. Russell



DAVID RUSSELL

Certificate Number

10201

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

DAY 5N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0049				AFE \$: 0.00	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface		Datum Code: NAD 27				Straight Hole	
Latitude: 36.719904	Longitude: -107.713117	X:	Y:	Section: 18		Range: 008W	
Footage X: 1886 FEL	Footage Y: 710 FSL	Elevation: 6513	(FT)	Township: 029N			
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2013		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6528 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	200	6328		☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 119 cuft. Circulate cement to surface.
NACIMIENTO	736	5792		☐			
OJO ALAMO	2036	4492		☐			
KIRTLAND	2192	4336		☐			
FRUITLAND	2660	3868		☐			Possible Gas
PICTURED CLIFFS	3148	3380		☐			
LEWIS	3258	3270		☐			
Intermediate Casing	3358	3170		☐	109		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 757 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	3874	2654		☐			
CHACRA	4100	2428		☐			
UPPER CLIFF HOUSE	4507	2021		☐			Gas; Est. Top Perf - 4509 (2019)
MASSIVE CLIFF HOUSE	4736	1792		☐	303		Gas; Cliffhouse is dry
MENEFEE	4882	1646		☐			
POINT LOOKOUT	5346	1182		☐			
MANCOS	5798	730		☐			
UPPER GALLUP	6582	-54		☐			
GREENHORN	7342	-814		☐			
GRANEROS	7399	-871		☐			
TWO WELLS	7448	-920		☐	2776		Gas
PAGUATE	7544	-1016		☐			
UPPER CUBERO	7562	-1034		☐			
LOWER CUBERO	7594	-1066		☐			Est. Btm Perf - 7682 (- 1154) based on offset wells
ENCINAL	7657	-1129		☐			TD - 40' below T/ENCN
Total Depth	7697	-1169		☐	192		6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 590 cuft. Circulate cement a minimum of 100' inside the previous casing string.

PROJECT PROPOSAL - New Drill / Sidetrack

DAY 5N

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments
Production	Day 5	29N 8W 18 NW SE SE
Production	Lively	26M 29N 8W 18
Production	Hughes 7E	29N 8W 19 NW SE NE

Logging Program:

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

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Cased Hole GR / CBL

Mudlog from 100' above top of GLLP to TD - mudlogger will call TD.

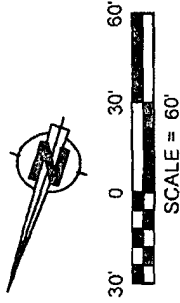
Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

WELL FLAG

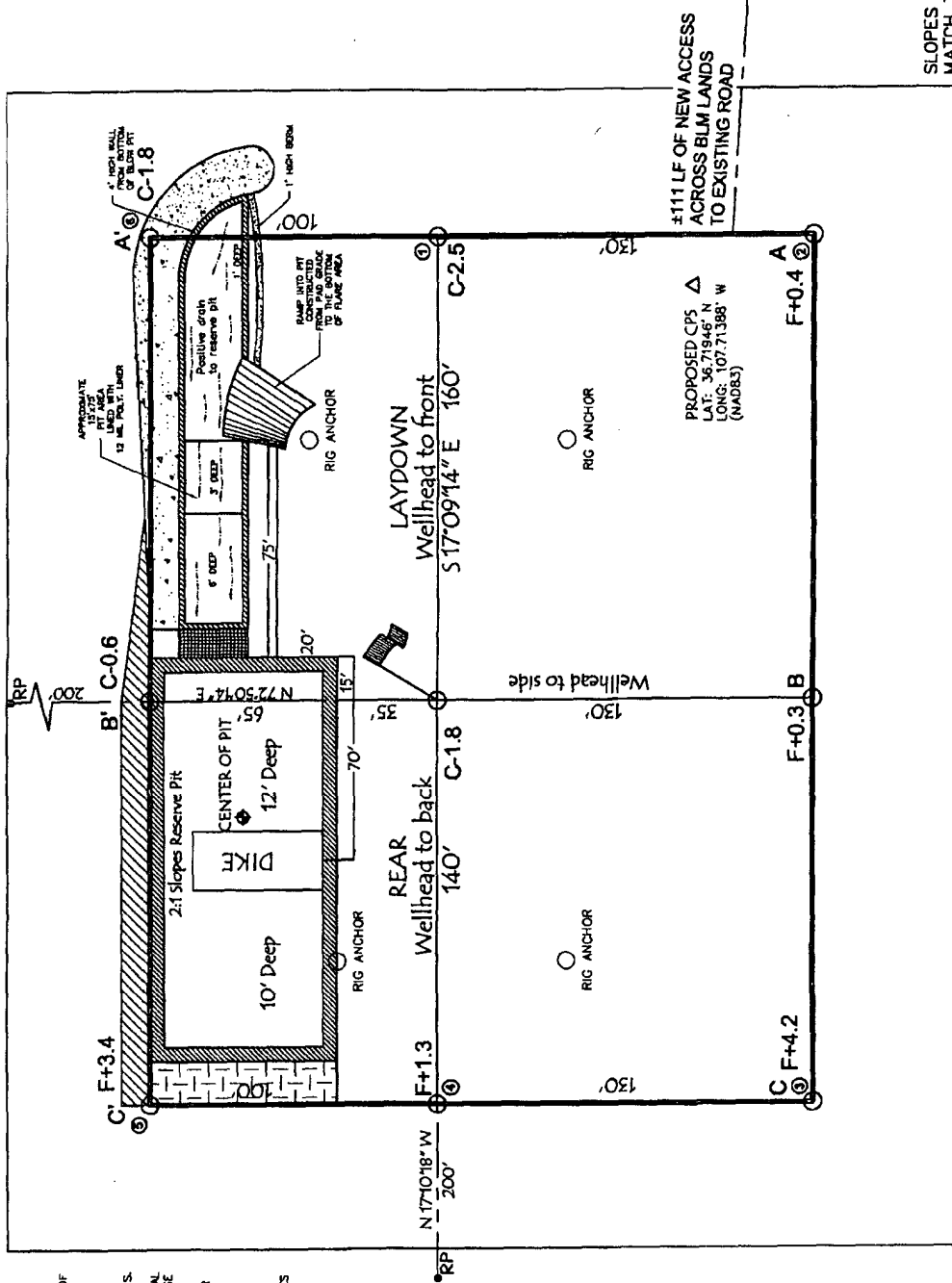
LATITUDE: 36.71991° N
 LONGITUDE: 107.71373° W
 CENTER OF PIT
 LATITUDE: 36.72010° N
 LONGITUDE: 107.71360° W
 ELEVATION: 6499.0'
 DATUM: NAD83 & NAVD88

CONOCOPHILLIPS COMPANY

DAY #5N
 710' FSL & 1886' FEL
 LOCATED IN THE SW/4 SE/4 OF SECTION 18,
 T29N, R8W, N.M.P.M.,
 SAN JUAN COUNTY, NEW MEXICO
 GROUND ELEVATION: 6513', NAVD 88
 FINISHED PAD ELEVATION: 6511.0', NAVD 88



- NOTES:
- 1.) BASIS OF BEARING: BETWEEN ROUND MONUMENTS AT THE SOUTH QUARTER CORNER AND THE SOUTHWEST CORNER OF SECTION 18, TOWNSHIP 29 NORTH, RANGE 8 WEST, N.M.P.M., SAN JUAN COUNTY, NEW MEXICO. THE BEARING LINE BEARS: N 89°59'13" W, A DISTANCE OF 1879.74 FEET AS MEASURED BY C.P.S.
 - 2.) LATITUDE, LONGITUDE AND ELLIPSOIDAL HEIGHT BASED ON AZTEC CORS L1 PHASE CENTER. DISTANCES SHOWN ARE GROUND DISTANCES USING A TRANSVERSE MERCATOR PROJECTION FROM A WGS84 ELLIPSOID, CONVERTED TO NAD83. NAVD83 ELEVATIONS AS PREDICTED BY GEOID03.
 - 3.) LOCATION OF UNDERGROUND UTILITIES DEPICTED ARE APPROXIMATE. PRIOR TO EXCAVATION UNDERGROUND UTILITIES SHOULD BE FIELD VERIFIED. ALL CONSTRUCTION ACTIVITIES SHOULD BE FIELD VERIFIED WITH NEW MEXICO PUBLIC UTILITIES DIVISION AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.



SLOPES TO BE CONSTRUCTED TO MATCH THE ORIGINAL CONTOURS AS CLOSE AS POSSIBLE.

NOTE:
 RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).
 RUSSELL SURVEYING, INC. 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, IN CONSTRUCTION ZONE AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

TOTAL PERMITTED AREA
 330' x 400' = 3.03 ACRES
 SCALE: 1" = 60'
 JOB No.: COPC384
 DATE: 06/08/10
 DRAWN BY: GRR

Russell Surveying
 1409 W. Aztec Blvd. #2
 Aztec, New Mexico 87410
 (505) 334-8637

CONOCOPHILLIPS COMPANY

DAY #5N

710' FSL & 1886' FEL

LOCATED IN THE SW/4 SE/4 OF SECTION 18,

T29N, R8W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM POST OFFICE IN BLANCO, TRAVEL EAST ON HWY 64 FOR 8.2 MILES TO A DIRT ROAD.
- 2) TURN RIGHT AND TRAVEL 0.4 MILES TO AN INTERSECTION.
- 3) STAY RIGHT AND TRAVEL 0.6 MILES TO AN INTERSECTION.
- 4) TURN LEFT AND TRAVEL 0.2 MILES TO AN INTERSECTION.
- 5) TURN RIGHT AND TRAVEL 0.7 MILES TO AN INTERSECTION WITH THE FLAGGED ACCESS ON THE RIGHT.

WELL FLAG LOCATED AT LAT. 36.71991° N, LONG. 107.71373° W (NAD 83).

JOB No.: COPC384
DATE: 06/08/10



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