

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 11 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK Bureau of Land Management
Farmington Field Office

1a. Type of Work DRILL	5. Lease Number SF-078997 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company	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
4. Location of Well Surf: Unit D (NWNW), 745' FNL & 695' FWL Bottomhole: Unit E (SWNW), 1800' FNL & 1020' FWL Surf: Latitude: 36.832401° N (NAD83) Longitude: 107.369256° W Bottomhole: Latitude: 36.829516° N (NAD83) Longitude: 107.368138° W	9. Well Number 49P
10. Field, Pool, Wildcat Blanco MV / Basin DK	11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec. 9, T30N, R5W
12. County Rio Arriba	13. State NM
14. Distance in Miles from Nearest Town 48 miles / Blanco	15. Distance from Proposed Location to Nearest Property or Lease Line 695'
16. Acres in Lease 2,560.00	17. Acres Assigned to Well 320.00 (N/2) - DK & 320.00 (W/2) - MV
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 76' from San Juan 30-5 Unit 49M	19. Proposed Depth 7842'
20. Rotary or Cable Tools Rotary	21. Elevations (DF, FT, GR, Etc.) 6362' GL
22. Approx. Date Work will Start DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".	23. Proposed Casing and Cementing Program See Operations Plan attached

Authorized by: Crystal Tafoya
Crystal Tafoya (Regulatory Technician)

1/11/2010
Date

APPROVAL DATE
BY D. Mankiewicz TITLE AFM DATE 1/20/2010
NOTIFY AZTEC CCD 24 HRS.

Local Report attached

Endangered Species Report attached
that is issued in lieu of U.S. BLM Form 3160-3

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.

ster Plan Type 3

Bond Numbers ES-0048 and ES-0085

PRIOR TO CASING & CEMENT

BLM'S APPROVAL OR ACCEPTANCE OF THIS
APPLICATION DOES NOT RELIEVE THE LESSEE AND
OPERATOR FROM OBTAINING ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATIONS
ON FEDERAL AND INDIAN LANDS

FEB 04 2010

Hold C104

for Directional Survey
and "As Drilled" plat

RECEIVED

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

State of New Mexico
Energy, Minerals & Natural Resources Department

JAN 11 2010

Form C-102
Revised October 12, 2005

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
Farmington Field Office
Lease - 4 Copies
Fee Lease - 3 Copies

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30900		*Pool Code 71599 / 72319		*Pool Name BASIN DAKOTA/BLANCO MESAVERDE	
*Property Code 31327		*Property Name SAN JUAN 30 - 5 UNIT			*Well Number 49P
*GRID No. 217817		*Operator Name CONOCOPHILLIPS COMPANY			*Elevation 6362'

10 Surface Location

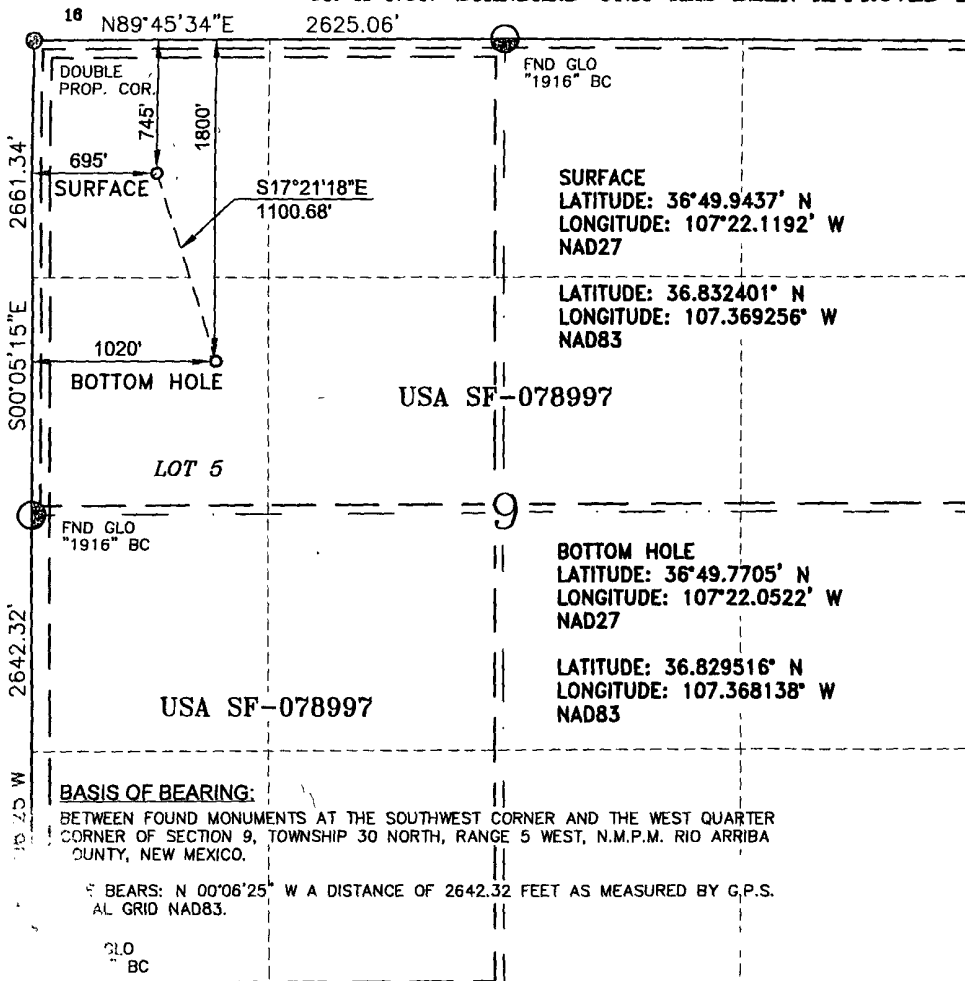
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	9	30-N	5-W		745	NORTH	695	WEST	RIO ARriba

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
E	9	30-N	5-W		1800	NORTH	1020	WEST	RIO ARriba

12 Dedicated Acres DK 320.00 ACRES N/2 MV 320.00 ACRES W/2		13 Joint or Infill	14 Consolidation Code	15 Order No.
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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



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 voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 10/28/09
Signature

Crystal Tafoya 10-28-09
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.

October 8, 2009
Date of Survey

Signature and Seal of



GLEN W. RUSSELL
Certificate Number

15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 49P

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9132				AFE \$: 1,061,824.55	
Field Name: SAN JUAN		Rig: H&P Rig 282		State: NM	County: RIO ARRIBA		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 Directional							
Latitude: 36.832394	Longitude: -107.368654	X:	Y:	Section: 09		Range: 005W	
Footage X: 695 FWL		Footage Y: 745 FNL		Elevation: 6362 (FT)	Township: 030N		
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.829509	Longitude: -107.367536	X:	Y:	Section: 09		Range: 005W	
Footage X: 1020 FWL		Footage Y: 1800 FNL		Elevation: (FT)	Township: 030N		
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2010		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6378 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6178	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.	
NACIMIENTO	1221	5157	☐				
OJO ALAMO	2370	4008	☐				
KIRTLAND	2664	3714	☐				
FRUITLAND	2691	3687	☐			Possible Gas	
PICTURED CLIFFS	3336	3042	☐				
LEWIS	3426	2952	☐				
Intermediate Casing	3526	2852	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 842 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4089	2289	☐				
CHACRA	4458	1920	☐				
UPPER CLIFF HOUSE	5127	1251	☐			Gas; Est. Top Perf - 5128 (1249)	
MASSIVE CLIFF HOUSE	5286	1092	☐	398		Gas; Cliffhouse is dry	
MENEFEE	5333	1045	☐				
POINT LOOKOUT	5556	822	☐				
MANCOS	5979	399	☐				
UPPER GALLUP	6878	-500	☐				
GREENHORN	7562	-1184	☐				
GRANEROS	7611	-1233	☐				
TWO WELLS	7716	-1338	☐	3023		Gas	
PAGUATE	7723	-1345	☐				
UPPER CUBERO	7732	-1354	☐				
LOWER CUBERO	7778	-1400	☐			Est. Btm Perf - 7821 (-1444) based on offset wells	

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 30-5 UNIT 49P

DEVELOPMENT

ENCINAL	7842	-1464	☐	TD - T/ENCN
Total Depth	7842	-1464	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 587 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	Cat Draw 1	30N 5W 4 NE SW SW
Production	SJ 30-5 20M	30N 5W 8 SW SW NE
Production	SJ 70	30N 5W 9 SW NE NE
Production	SJ 30-5 87M	30N 5W 5 SW NE SE
Production	SJ 30-5 49	30N 5W 9 NE SW SW

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 GRHN to TD - mudlogger will call TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #49P
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6378.0ft (H&P RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6378.0ft (H&P RIGS)
Site:	San Juan 30 Wells	North Reference:	True
Well:	SJ 30-5 #49P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,849.3	2,664.0	Kirtland		0.00		
8,059.2	7,842.0	Encinal		0.00		
5,550.2	5,333.0	Menefee		0.00		
7,933.2	7,716.0	Two Wells		0.00		
3,552.8	3,336.0	Pictured Cliffs		0.00		
2,879.1	2,691.0	Fruitland		0.00		
6,196.2	5,979.0	Mancos		0.00		
7,779.2	7,562.0	Greenhorn		0.00		
5,503.2	5,286.0	Massive Cliffhouse		0.00		
4,675.2	4,458.0	Chacra		0.00		
4,306.2	4,089.0	Huerfanito Bentonite		0.00		
5,344.2	5,127.0	Upper Cliffhouse		0.00		
8,059.2	7,842.0	Total Depth		0.00		
7,995.2	7,778.0	Lower Cubero		0.00		
7,095.2	6,878.0	Upper Gallup		0.00		
2,524.8	2,370.0	Ojo		0.00		
7,949.2	7,732.0	Upper Cubero		0.00		
1,256.9	1,221.0	Nacimiento		0.00		
5,773.2	5,556.0	Massive Point Lookout		0.00		
3,643.1	3,426.0	Lewis		0.00		
7,828.2	7,611.0	Graneros		0.00		

REFERENCE INFORMATION

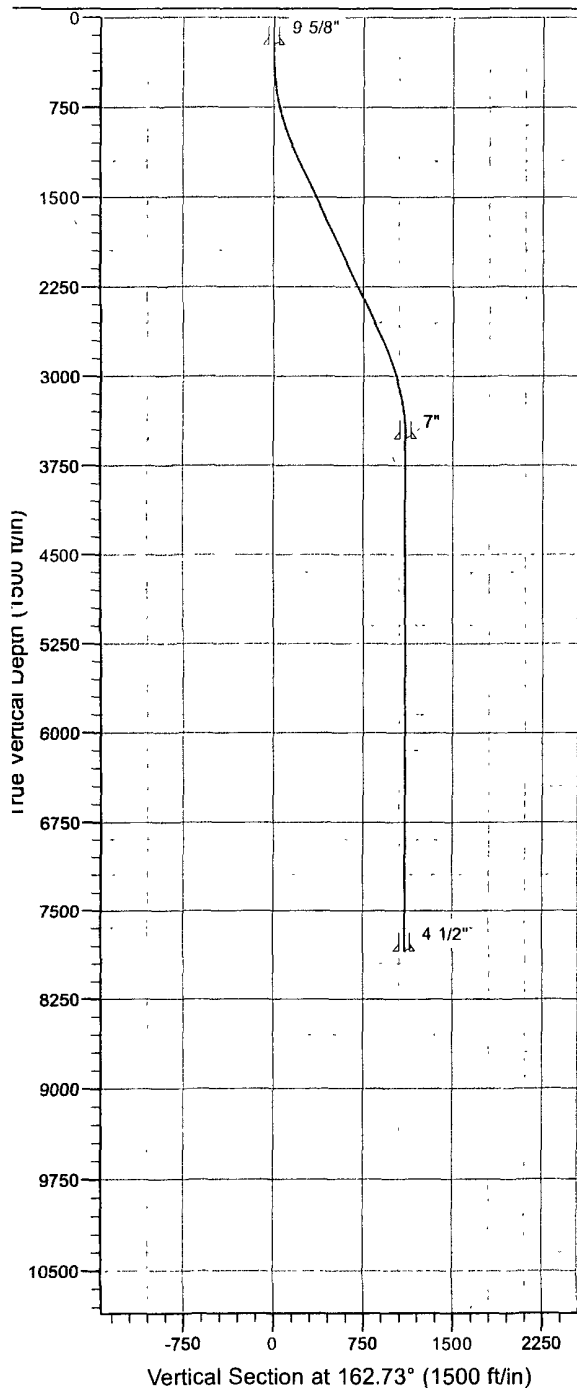
RKB @ 6378.0ft (H&P RIGS)
Ground Elevation 6362.0
Reference Lat: 36° 49' 56.622 N
Reference Long: 107° 22' 7.152 W

Project: San Juan Basin - New Mexico Wells
Site: San Juan 30 Wells
Well: SJ 30-5 #49P
Wellbore: Principal Wellbore
Design: Plan #1



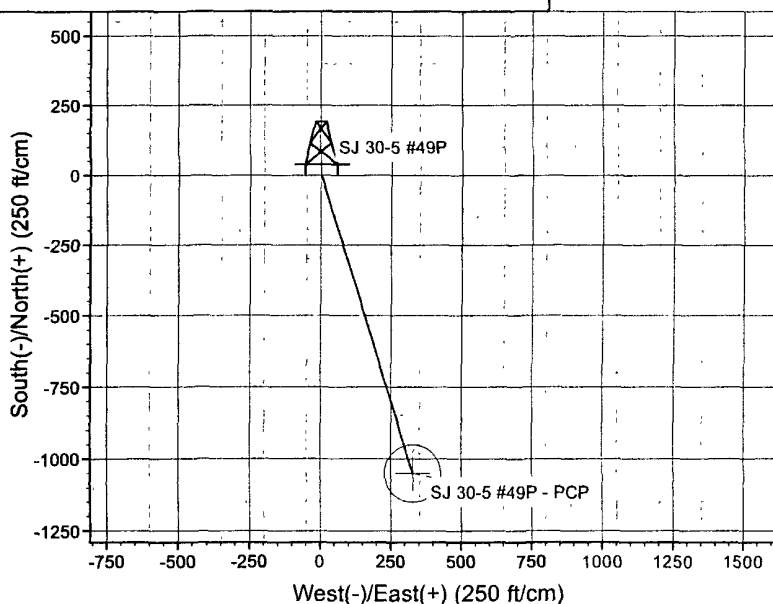
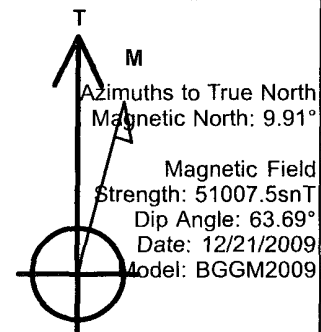
SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1153.8	25.02	162.73	1127.6	-171.1	53.2	3.00	162.73	179.2	
4	2909.3	25.02	162.73	2718.4	-879.9	273.6	0.00	0.00	921.5	
5	3743.2	0.00	0.00	3526.0	-1051.0	326.8	3.00	180.00	1100.6	SJ 30-5 #49P - ICP
6	8059.2	0.00	0.00	7842.0	-1051.0	326.8	0.00	0.00	1100.6	SJ 30-5 #49P - PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1221.0	1256.9	Nacimiento
2370.0	2524.8	Ojo
2664.0	2849.3	Kirtland
2691.0	2879.1	Fruitland
3336.0	3552.8	Pictured Cliffs
3426.0	3643.1	Lewis
4089.0	4306.2	Huerfano Bentonite
4458.0	4675.2	Chacra
5127.0	5344.2	Upper Cliffhouse
5286.0	5503.2	Massive Cliffhouse
5333.0	5550.2	Menefee
5556.0	5773.2	Massive Point Lookout
5979.0	6196.2	Mancos
6878.0	7095.2	Upper Gallup
7562.0	7779.2	Greenhorn
7611.0	7828.2	Graneros
7716.0	7933.2	Two Wells
7732.0	7949.2	Upper Cubero
7778.0	7995.2	Lower Cubero
7842.0	8059.2	Encinal
7842.0	8059.2	Total Depth



Directions from the Post Office
in Blanco, NM
to
CONOCOPHILLIPS COMPANY
SAN JUAN 30-5 UNIT #49P
745' FNL & 695' FWL,
Section 9, T30N, R5W, N.M.P.M., Rio Arriba County,
New Mexico
Latitude: 36° 49' 56.644" N
Longitude: 107° 22' 09.322" W
Nad 1983

From the Post Office in Blanco, NM
Take Highway 64 East for 28.8 miles
To Hwy 527 (Simms Mesa Hwy),
Turn left (northwest) on Hwy 527 for 8.0 miles,
To Rosa Road, turn right (northeast) for 6.6 miles,
Across La Jara Bridge to the top of the Mesa,
continue (northeasterly) 1.2 miles,
turn right (easterly) for 1.3 miles,
continue (southerly) for 1.0 miles,
continue (southeasterly) 0.4 miles,
continue (northeasterly) 1.0 miles,
turn left (northeasterly) 0.1 miles,
to newly staked location twinned on existing well pad,
SAN JUAN 30-5 UNIT #49M.