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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APR 15 2009

Bureau of Land Management
Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number SF-078426
1b. Type of Well GAS	6. If Indian, All. or Tribe NMNM-78416A-MV
2. Operator ConocoPhillips Company	7. Unit Agreement Name OIL CONS. DIV. DIST. 3 San Juan 29-6 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 Surface: Unit N(ESW), 1140' FSL & 1665' FWL Bottomhole: Unit L(NWSW), 1764' FSL & 710' FWL Surface: Latitude: 36.69258° N (NAD 83) Longitude: 107.50764° W Bottomhole: Latitude: 36.69428° N (NAD 83) Longitude: 107.51090° W	9. Well Number 5M 10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) N Sec. 30, T29N, R6W API # 30-039-30748
14. Distance in Miles from Nearest Town 13 miles/Gobernador	12. County Rio Arriba
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	13. State NM
16. Acres in Lease 1,840.00	17. Acres Assigned to Well MV/DK 320.00 (W/2)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 50' from San Juan 29-6 Unit 212 (FC)	
19. Proposed Depth 8019'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6692' GR	22. Approx. Date Work will Start 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
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)	Date <u>4/15/2009</u>

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 4/15/2010

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.

Example Master Plan Type 3

Bond Numbers ES-0048 and ES-0085

APR 13 2010

Drilling operations authorized only
subject to compliance with attached
"General Requirements".

Hold C104
for Directional Survey
and "As Drilled" plat

NMOCDA

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

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

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 October 12, 2005

Instructions on back

State Lease - 4 Copies

Fee Lease - 3 Copies

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☐ AMENDED REPORT

Bureau of Land Management
Farmington Field Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30748	*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 31326	*Property Name SAN JUAN 29-6 UNIT	*Well Number 5M
*GRID No 217817	*Operator Name CONOCOPHILLIPS COMPANY	*Elevation 6692'

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
N	30	29N	6W		1140	SOUTH	1665	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
L	30	29N	6W		1764	SOUTH	710	WEST	RIO ARriba

¹² Dedicated Acres 320.0 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

<div><p>15</p><p>5272.08'</p><p>LEASE SF-078426</p><p>30</p><p>5280.00'</p><p>870'</p><p>1495'</p><p>710'</p><p>1920'</p><p>1139.2'</p><p>1665'</p><p>965'</p><p>1764'</p><p>1140'</p><p>5272.08'</p><p>BOTTOM-HOLE LAT: 36°41.6565'N LONG: 107°30.6176'W DATUM: NAD27 LAT: 36.69428°N LONG: 107.51090°W DATUM: NAD83 SURFACE LOCATION LAT: 36°41.5544'N LONG: 107°30.4220'W DATUM: NAD27 LAT: 36.69258°N LONG: 107.50764°W DATUM: NAD83</p></div>	<div><p>¹⁷ OPERATOR CERTIFICATION</p><p>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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</p><p><i>Patsy Clugston</i> 12/24/08 Signature Date</p><p>Patsy Clugston Printed Name</p><p>¹⁸ SURVEYOR CERTIFICATION</p><p>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</p><p>Survey Date: NOVEMBER 13, 2008</p><p>Signature and Seal of Professional Surveyor</p><p></p><p><i>JASON C. EDWARDS</i> Certificate Number 15269</p></div>
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PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-6 UNIT 5M

DEVELOPMENT

Lease:		AFE #: WAN.CNV.6189		AFE \$: 1,749,638.78	
Field Name: 29-6		Rig: H&P Rig 281		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: +1-505-326-9797		Proj. Field Lead: Fransen, Eric E.	
Phone: +1-432-368-1215					
Primary Objective (Zones):					
Zone	Zone Name				
R20002	MESAVERDE(R20002)				
R20076	DAKOTA(R20076)				
Location: Datum Code: NAD 27					
Latitude: 36.692573	Longitude: -107.507035	X:	Y:	Section: 30	Range: 006W
Footage X: 1665 FWL	Footage Y: 1140 FSL	Elevation: 6692 (FT)	Township: 029N		
Tolerance:					
Location: Datum Code: NAD 27					
Latitude: 36.694273	Longitude: -107.510295	X:	Y:	Section: 30	Range: 006W
Footage X: 710 FWL	Footage Y: 1764 FSL	Elevation: (FT)	Township: 029N		
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2010		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 6707 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
SURFACE CSG	200	6507	<input type="checkbox"/>		
OJAM	2729	3978	<input type="checkbox"/>		
KRLD	2805	3902	<input type="checkbox"/>		
FRLD	3181	3526	<input type="checkbox"/>		Possible gas.
PCCF	3535	3172	<input type="checkbox"/>		
LEWS	3669	3038	<input type="checkbox"/>		
Intermediate Casing	3850	2857	<input type="checkbox"/>		8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 915 cuft. Circulate cement to surface.
CHRA	4525	2182	<input type="checkbox"/>		
CLFH	5227	1480	<input type="checkbox"/>	475	Gas.
MENF	5394	1313	<input type="checkbox"/>		Gas.
PTLK	5719	988	<input type="checkbox"/>		Gas.
MNCS	6192	515	<input type="checkbox"/>		
GLLP	6961	-254	<input type="checkbox"/>		Gas.
GRHN	7693	-986	<input type="checkbox"/>	3130	Gas.
GRANEROS	7750	-1043	<input type="checkbox"/>		
TWLS	7799	-1092	<input type="checkbox"/>		Gas
CBBO	7910	-1203	<input type="checkbox"/>		Gas
CBRL	7946	-1239	<input type="checkbox"/>		
Total Depth	8019	-1312	<input type="checkbox"/>		6-1/4" Hole. 4-1/2", 11.6 ppf, J-55/L-80 ,LTC casing. Cement with 568 cuft. Circulate cement a minimum of 100' inside the previous casing string. No open hole logs. Cased hole TDT with GR to surface.
ENCINAL	8019	-1312	<input type="checkbox"/>		TD at top of Encinal with bottom perf about 15' off bottom

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 29-6 UNIT 5M

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments
Production	29-6 108M & 108	section 31 29-6
Production	29-7 #139	SE 25-29N-7W
Production	29-7 #123	SE 26-29N-7W

Logging Program:	
Intermediate Logs:	<input type="checkbox"/> Log only if show <input type="checkbox"/> GR/ILD <input checked="" type="checkbox"/> Triple Combo <input checked="" type="checkbox"/> Other
Run Platform Express at intermediate over minimum footages (GR/Induction back to surface).	
TD Logs:	<input type="checkbox"/> Triple Combo <input type="checkbox"/> Dipmeter <input type="checkbox"/> RFT <input type="checkbox"/> Sonic <input type="checkbox"/> VSP <input type="checkbox"/> TDT <input checked="" type="checkbox"/> Other
CBL GR, MUDLOG 100' above GRHN to TD	

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

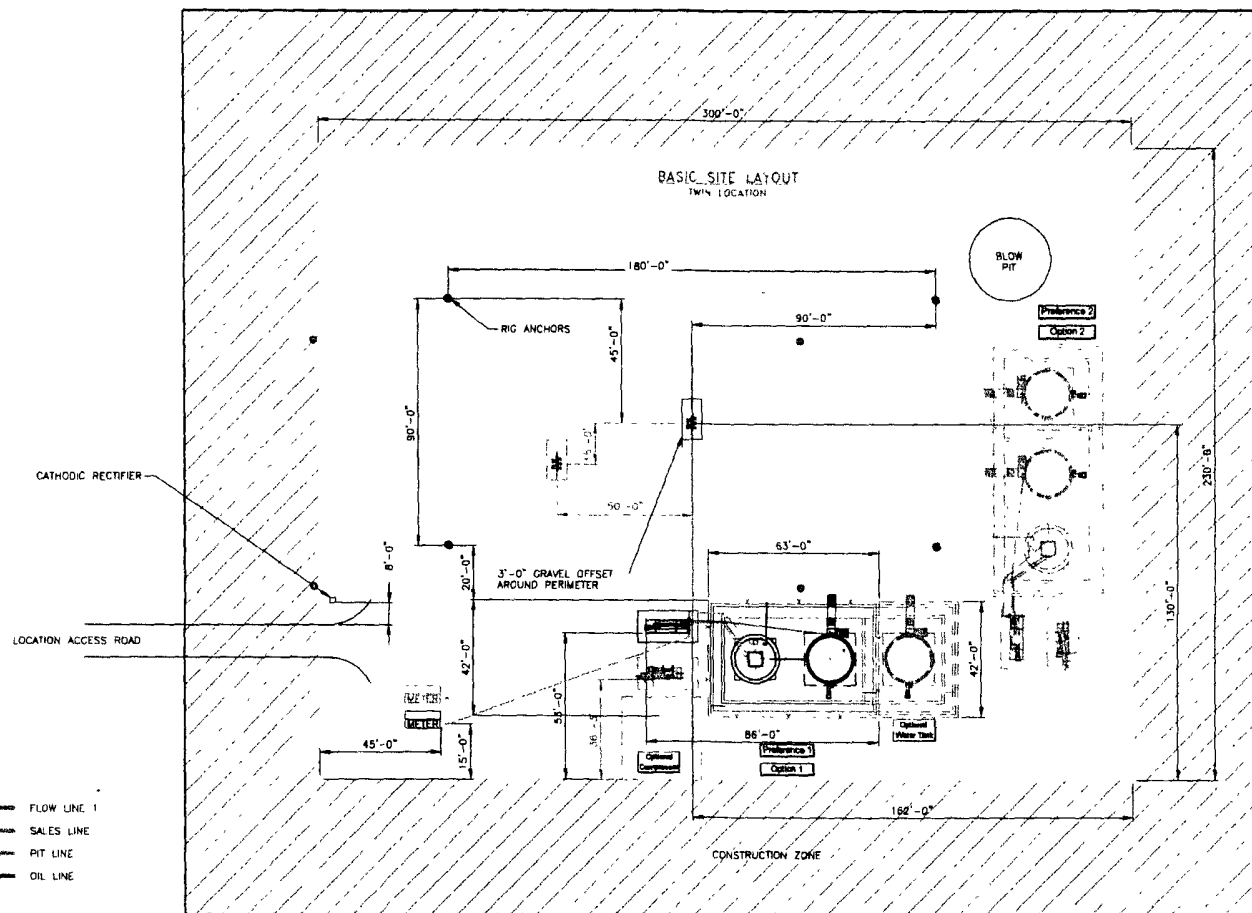
Comments: Location/Tops/Logging - MUDLOGGER 100' above GRHN to TD

ConocoPhillips or its affiliates

Planning Report


Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-6 #5M
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6707.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6707.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-6 #5M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,887.7	2,729.0	Ojo		0.00		
2,971.3	2,805.0	Kirtland		0.00		
3,382.7	3,181.0	Fruitland		0.00		
3,749.7	3,535.0	Pictured Cliffs		0.00		
3,884.9	3,669.0	Lewis		0.00		
4,741.2	4,525.0	Chacra		0.00		
5,443.2	5,227.0	Mass. Cliffhouse		0.00		
5,610.2	5,394.0	Menefee		0.00		
5,935.2	5,719.0	Point Lookout		0.00		
6,408.2	6,192.0	Mancos		0.00		
7,177.2	6,961.0	Upper Gallup		0.00		
7,909.2	7,693.0	Greenhorn		0.00		
7,966.2	7,750.0	Graneros		0.00		
8,015.2	7,799.0	Two Wells		0.00		
8,126.2	7,910.0	Upper Cubero		0.00		
8,162.2	7,946.0	Lower Cubero		0.00		



SEE SHEET 3 & 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPE IS TO BE BURIED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		<div></div>	CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
										DISCIPLINE	REVIEWED	DATE	NO.	DESCRIPTION				
										PROCESS								
										MECHANICAL								
										PIPING								
										ELECTRICAL								
										I & C								
										CIVIL/STRUCTURAL								
										PROJECT								

San Juan Business Unit Regulatory Item Location Site Layout Rev. 06/20/2007 - 02/09/08

Directions from the Intersection of US Hwy 64 & US Hwy 550 in Bloomfield, NM
to ConocoPhillips Company San Juan 29-6 Unit #5M

1140' FSL & 1665' FWL, Section 30, T29N, R6W, NMPM, Rio Arriba County, NM

Latitude : 36.69258°N Longitude : 107.50764°W Datum : NAD1983

From the intersection of US Hwy 64 & US Hwy 550 in Bloomfield, NM, travel Easterly on US Hwy 64 for 31.9 miles to the San Juan 29-6 Water Well #1 @ Milepost 96.3;

Go right (South-easterly) on Trunk-L Road for 2.0 miles to fork in road;

Go right (South-westerly) for 1.3 miles to fork in road at top of Snake Hill;

Go right (North-westerly) for 1.7 miles to fork in road;

Go right which is straight (Westerly) for 1.1 miles to fork in road;

Go right (Northerly) for 0.2 miles to fork in road;

Go right which is straight (Northerly) for 1.1 miles to "T-intersection";

Go straight (Northerly) for 0.1 miles to staked location which overlaps an existing wellpad.