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UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAR 12 2012

Farmington Field Office

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK of Land Management

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 SF-078049 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company	7. Unit Agreement Name RCVD JUL 3 '12 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 Hughes A	9. Well Number 6N
4. Location of Well Surface: Unit M(SWSW), 890' FSL & 740' FWL BHL : Unit D(NWNW), 710' FNL & 710' FWL Surface: Latitude: 36.692150° N (NAD83) Longitude: 107.688441° W BHL : Latitude: 36.687756° N (NAD83) Longitude: 107.688533° W	10. Field, Pool, Wildcat Blanco MV/Basin DK/Basin MC	11. Sec., Twn, Rge, Mer. (NMPM) Surf: Sec. 28, T29N, R8W BHL : Sec. 33, T29N, R8W API# 30-045-35360
14. Distance in Miles from Nearest Town 11.4 miles Blanco	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 710'	16. Acres in Lease 1920.000	
 H₂S POTENTIAL EXIST		
17. Acres Assigned to Well 320 - W/2	18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 269' from Hardie 2E (DK)	
19. Proposed Depth 7396	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6327' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Arleen Kellywood</u> Arleen Kellywood (Staff Regulatory Tech)	Date <u>3/12/12</u>	

Hold C104
for Directional Survey
and "As Drilled" plat

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 6/28/12

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

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

Hold C104
for Directional Survey
and "As Drilled" plat

NMOCD
JUL 12 2012 ca

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

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

RECEIVED

Form C-102

Revised July 16, 2010

Submit one copy to appropriate

District Office

MAR 12 2012

Farmington Field Office
Bureau of Land Management

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name	BASIN
30-045- 35360	71599/72319/97232	BASIN DAKOTA / BLANCO MESAVERDE/MANCOS	
⁴ Property Code	⁵ Property Name	⁶ Well Number	
31562	HUGHES A	6N	
⁷ OGRID No.	⁸ Operator Name	⁹ Elevation	
217817	CONOCOPHILLIPS COMPANY	6327	

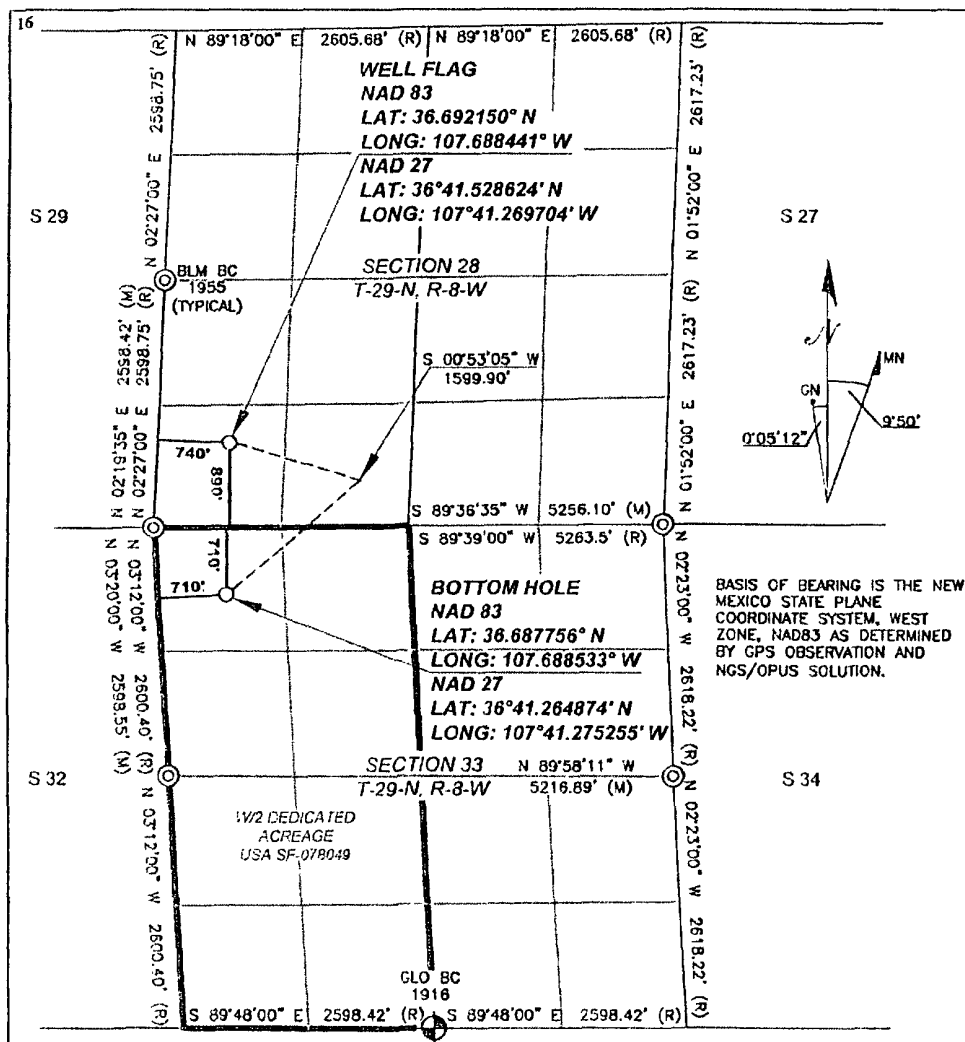
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	28	29-N	8-W		890	SOUTH	740	WEST	SAN JUAN

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
D	33	29-N	8-W		710	NORTH	710	WEST	SAN JUAN

¹² Dedicated Acres DK/MV/MC W/2 (320)	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

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 undivided 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.

Arleen Kellywood 2/6/12
Signature Date

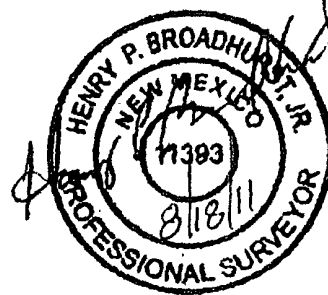
Arleen Kellywood
Printed Name

arleen.r.kellywood@conocophillips.com
E-mail Address

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: 08/03/2011
Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUGHES A 6N

DEVELOPMENT

Lease:		AFE #: WAN.CDR.1077		AFE \$:	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
RON	BLANCO MESAVERDE (PRORATED GAS)				
RCO085	MANCOS(RCO085)				
FRR	BASIN DAKOTA (PRORATED GAS)				
Location: Surface Datum Code: NAD 27 Directional					
Latitude: 36.692143	Longitude: -107.687829	X:	Y:	Section: 28	Range: 008W
Footage X: 740 FWL	Footage Y: 890 FSL	Elevation: 6327	(FT)	Township: 029N	
Tolerance:					
Location: Bottom Hole Datum Code: NAD 27 Directional					
Latitude: 36.687749	Longitude: -107.687921	X:	Y:	Section: 33	Range: 008W
Footage X: 710 FWL	Footage Y: 710 FNL	Elevation:	(FT)	Township: 029N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2012		Completion Date:	
				Date In Operation:	
Formation Data: Assume KB = 6342 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
Surface Casing	200	6142		☐	
NACIMIENTO	549	5793		☐	
OJO ALAMO	1821	4521		☐	
KIRTLAND	1972	4370		☐	
FRUITLAND	2408	3934		☐	Possible Gas
PICTURED CLIFFS	2861	3481		☐	
LEWIS	2996	3346		☐	
CHACRA	3824	2518		☐	
Intermediate Casing	4350	1992		☐	109 8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 980 cuft. Circulate cement to surface.
UPPER CLIFF HOUSE	4367	1975		☐	Gas; Est. Top Perf - 4369 (1973)
MASSIVE CLIFF HOUSE	4480	1862		☐	311 Gas; Cliffhouse is dry
MENEFEE	4613	1729		☐	
POINT LOOKOUT	5068	1274		☐	
MANCOS	5502	840		☐	
UPPER GALLUP	6288	54		☐	
GREENHORN	7030	-688		☐	
GRANEROS	7085	-743		☐	
TWO WELLS	7135	-793		☐	2456 Gas
PAGUATE	7226	-884		☐	
UPPER CUBERO	7264	-922		☐	
LOWER CUBERO	7291	-949		☐	Est. Btm Perf - 7381' based on offset wells

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

HUGHES A 6N

DEVELOPMENT

ENCINAL	7356	-1014	☐	TD - 40' Below T/ENCN
Total Depth	7396	-1054	☐	191 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/418 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Production	HARDIE-2-E	29N 8W 28 NE SW SW
Production	HUGHES-A-6-E	29N 8W 33 SE NW SW
Production	HUGHES-A-5	29N 8W 33 SW NE NE

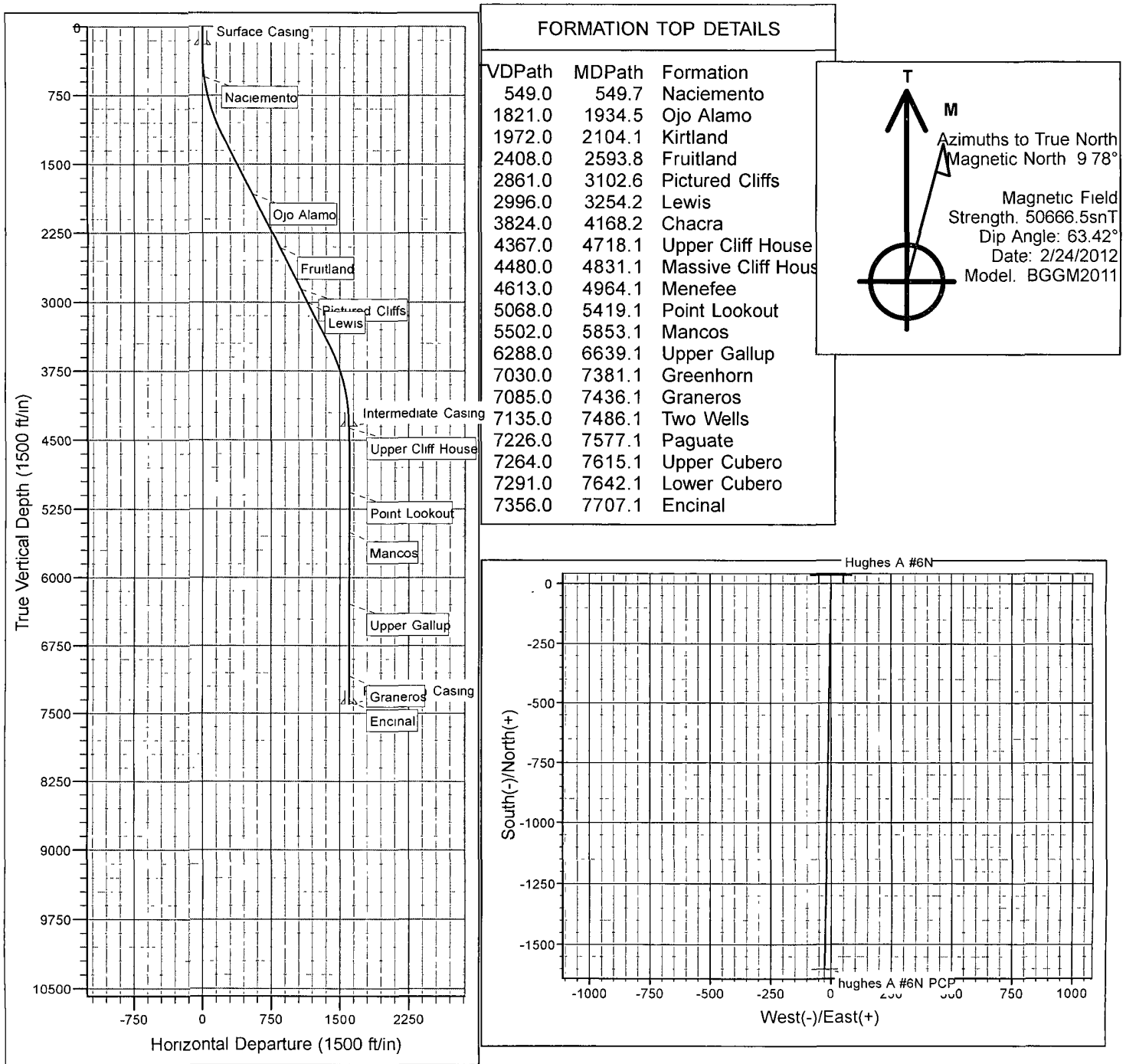
Logging Program:	
Intermediate Logs:	☐ Log only if show ☐ GR/ILD ☐ Triple Combo

TD Logs:	☒ Triple Combo ☐ Dipmeter ☐ RFT ☒ Sonic ☐ VSP ☐ TDT ☒ Other
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Quad combo plus Dipole sonic plus rotary cores, ECS - 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

REFERENCE INFORMATION				Project: San Juan Basin - New Mexico West V							RCVD JUL 12'12 OIL CONS. DIV. DIST. 3	
WELL @ 6327.0ft (Original Well Elev)				Site: Other Named Wells								
Ground Elevation 6067.0				Well: Hughes A #6N								
Reference Lat: 36° 41' 31.717 N				Wellbore: Wellbore #1								
Reference Long: 107° 41' 16.182 W				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	300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.0			
3	1202.8	27.08	180.97	1169.6	-209.4	-3.5	3.00	180.97	209.4			
4	3798.3	27.08	180.97	3480.4	-1391.0	-23.6	0.00	0.00	1391.2			
5	4701.1	0.00	0.00	4350.0	-1600.4	-27.1	3.00	180.00	1600.6	Hughes A #6N ICP		
6	7747.1	0.00	0.00	7396.0	-1600.4	-27.1	0.00	0.00	1600.6	hughes A #6N PCP		



ConocoPhillips or its affiliates

Planning Report

Databaso: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Hughes A #6N
Wellbore: Wellbore #1
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Hughes A #6N
WELL @ 6327.0ft (Original Well Elev)
WELL @ 6327.0ft (Original Well Elev)
True
Minimum Curvature

Project: San Juan Basin - New Mexico West Wells; New Mexico, Directional "S"

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico West 3003

System Datum: Mean Sea Level

Using geodetic scale factor

Site: Other Named Wells

Site Position:		Northing:	2,063,826.04 ft	Latitude:	36° 40' 18.848 N
From:	Lat/Long	Easting:	504,691.02 ft	Longitude:	107° 49' 2.415 W
Position Uncertainty:	15.0 ft	Slot Radius:	6-1/8"	Grid Convergence:	0.01 °

Well:	Hughes A #6N				
Well Position	+N/-S	0.0 ft	Northing:	2,071,226.70 ft	Latitude: 36° 41' 31.717 N
	+E/-W	0.0 ft	Easting:	542,660.37 ft	Longitude: 107° 41' 16.182 W
Position Uncertainty		0.0 ft	Wellhead Elevation:	ft	Ground Level: 6,067.0 ft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2011	2/24/2012	9.78	63.42	50,666

Design: Plan #1

Audit Notes:

Version: **Phase:** PROTOTYPE **Tie On Depth:** 0.0

Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	180.97

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,202.8	27.08	180.97	1,169.6	-209.4	-3.5	3.00	3.00	0.00	180.97	
3,798.3	27.08	180.97	3,480.4	-1,391.0	-23.6	0.00	0.00	0.00	0.00	
4,701.1	0.00	0.00	4,350.0	-1,600.4	-27.1	3.00	-3.00	0.00	180.00	Hughes A #6N ICP
7,747.1	0.00	0.00	7,396.0	-1,600.4	-27.1	0.00	0.00	0.00	0.00	hughes A #6N PCP

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Hughes A #6N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6327.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6327.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Hughes A #6N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1:		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
Surface Casing									
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	3.00	180.97	400.0	-2.6	0.0	2.6	3.00	3.00	0.00
500.0	6.00	180.97	499.6	-10.5	-0.2	10.5	3.00	3.00	0.00
549.7	7.49	180.97	549.0	-16.3	-0.3	16.3	3.00	3.00	0.00
Nacimiento									
600.0	9.00	180.97	598.8	-23.5	-0.4	23.5	3.00	3.00	0.00
700.0	12.00	180.97	697.1	-41.7	-0.7	41.7	3.00	3.00	0.00
800.0	15.00	180.97	794.3	-65.1	-1.1	65.1	3.00	3.00	0.00
900.0	18.00	180.97	890.2	-93.5	-1.6	93.5	3.00	3.00	0.00
1,000.0	21.00	180.97	984.4	-126.8	-2.1	126.9	3.00	3.00	0.00
1,100.0	24.00	180.97	1,076.8	-165.1	-2.8	165.1	3.00	3.00	0.00
1,200.0	27.00	180.97	1,167.1	-208.1	-3.5	208.2	3.00	3.00	0.00
1,202.8	27.08	180.97	1,169.6	-209.4	-3.5	209.4	3.00	3.00	0.00
1,300.0	27.08	180.97	1,256.1	-253.7	-4.3	253.7	0.00	0.00	0.00
1,400.0	27.08	180.97	1,345.1	-299.2	-5.1	299.2	0.00	0.00	0.00
1,500.0	27.08	180.97	1,434.2	-344.7	-5.8	344.8	0.00	0.00	0.00
1,600.0	27.08	180.97	1,523.2	-390.2	-6.6	390.3	0.00	0.00	0.00
1,700.0	27.08	180.97	1,612.2	-435.7	-7.4	435.8	0.00	0.00	0.00
1,800.0	27.08	180.97	1,701.3	-481.3	-8.2	481.3	0.00	0.00	0.00
1,900.0	27.08	180.97	1,790.3	-526.8	-8.9	526.9	0.00	0.00	0.00
1,934.5	27.08	180.97	1,821.0	-542.5	-9.2	542.6	0.00	0.00	0.00
Ojo Alamo									
2,000.0	27.08	180.97	1,879.3	-572.3	-9.7	572.4	0.00	0.00	0.00
2,100.0	27.08	180.97	1,968.4	-617.8	-10.5	617.9	0.00	0.00	0.00
2,104.1	27.08	180.97	1,972.0	-619.7	-10.5	619.8	0.00	0.00	0.00
Kirtland									
2,200.0	27.08	180.97	2,057.4	-663.4	-11.2	663.5	0.00	0.00	0.00
2,300.0	27.08	180.97	2,146.4	-708.9	-12.0	709.0	0.00	0.00	0.00
2,400.0	27.08	180.97	2,235.5	-754.4	-12.8	754.5	0.00	0.00	0.00
2,500.0	27.08	180.97	2,324.5	-799.9	-13.6	800.1	0.00	0.00	0.00
2,593.8	27.08	180.97	2,408.0	-842.6	-14.3	842.8	0.00	0.00	0.00
Fruitland									
2,600.0	27.08	180.97	2,413.5	-845.5	-14.3	845.6	0.00	0.00	0.00
2,700.0	27.08	180.97	2,502.6	-891.0	-15.1	891.1	0.00	0.00	0.00
2,800.0	27.08	180.97	2,591.6	-936.5	-15.9	936.6	0.00	0.00	0.00
2,900.0	27.08	180.97	2,680.6	-982.0	-16.6	982.2	0.00	0.00	0.00
3,000.0	27.08	180.97	2,769.7	-1,027.6	-17.4	1,027.7	0.00	0.00	0.00
3,100.0	27.08	180.97	2,858.7	-1,073.1	-18.2	1,073.2	0.00	0.00	0.00
3,102.6	27.08	180.97	2,861.0	-1,074.3	-18.2	1,074.4	0.00	0.00	0.00
Pictured Cliffs									
3,200.0	27.08	180.97	2,947.7	-1,118.6	-19.0	1,118.8	0.00	0.00	0.00
3,254.2	27.08	180.97	2,996.0	-1,143.3	-19.4	1,143.5	0.00	0.00	0.00
Lewis									
3,300.0	27.08	180.97	3,036.8	-1,164.1	-19.7	1,164.3	0.00	0.00	0.00
3,400.0	27.08	180.97	3,125.8	-1,209.7	-20.5	1,209.8	0.00	0.00	0.00
3,500.0	27.08	180.97	3,214.8	-1,255.2	-21.3	1,255.4	0.00	0.00	0.00
3,600.0	27.08	180.97	3,303.9	-1,300.7	-22.0	1,300.9	0.00	0.00	0.00
3,700.0	27.08	180.97	3,392.9	-1,346.2	-22.8	1,346.4	0.00	0.00	0.00
3,798.3	27.08	180.97	3,480.4	-1,391.0	-23.6	1,391.2	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Hughes A #6N
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 6327 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	WELL @ 6327 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Hughes A #6N	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,800.0	27.03	180.97	3,481.9	-1,391.8	-23.6	1,392.0	3.00	-3.00	0.00
3,900.0	24.03	180.97	3,572.2	-1,434.8	-24.3	1,435.0	3.00	-3.00	0.00
4,000.0	21.03	180.97	3,664.5	-1,473.2	-25.0	1,473.4	3.00	-3.00	0.00
4,100.0	18.03	180.97	3,758.7	-1,506.6	-25.5	1,506.8	3.00	-3.00	0.00
4,168.2	15.99	180.97	3,824.0	-1,526.5	-25.9	1,526.8	3.00	-3.00	0.00
Chacra									
4,200.0	15.03	180.97	3,854.6	-1,535.0	-26.0	1,535.3	3.00	-3.00	0.00
4,300.0	12.03	180.97	3,951.8	-1,558.4	-26.4	1,558.7	3.00	-3.00	0.00
4,400.0	9.03	180.97	4,050.1	-1,576.7	-26.7	1,576.9	3.00	-3.00	0.00
4,500.0	6.03	180.97	4,149.2	-1,589.8	-26.9	1,590.0	3.00	-3.00	0.00
4,600.0	3.03	180.97	4,248.9	-1,597.7	-27.1	1,597.9	3.00	-3.00	0.00
4,700.0	0.03	180.97	4,348.9	-1,600.4	-27.1	1,600.6	3.00	-3.00	0.00
4,701.1	0.00	0.00	4,350.0	-1,600.4	-27.1	1,600.6	3.00	-3.00	0.00
Intermediate Casing									
4,718.1	0.00	0.00	4,367.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Upper Cliff House									
4,800.0	0.00	0.00	4,448.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
4,831.1	0.00	0.00	4,480.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Massive Cliff House									
4,900.0	0.00	0.00	4,548.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
4,964.1	0.00	0.00	4,613.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Menefee									
5,000.0	0.00	0.00	4,648.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
5,100.0	0.00	0.00	4,748.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
5,200.0	0.00	0.00	4,848.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
5,300.0	0.00	0.00	4,948.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
5,400.0	0.00	0.00	5,048.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
5,419.1	0.00	0.00	5,068.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Point Lookout									
5,500.0	0.00	0.00	5,148.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
5,600.0	0.00	0.00	5,248.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
5,700.0	0.00	0.00	5,348.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
5,800.0	0.00	0.00	5,448.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
5,853.1	0.00	0.00	5,502.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Mancos									
5,900.0	0.00	0.00	5,548.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
6,000.0	0.00	0.00	5,648.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
6,100.0	0.00	0.00	5,748.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
6,200.0	0.00	0.00	5,848.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
6,300.0	0.00	0.00	5,948.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,048.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
6,500.0	0.00	0.00	6,148.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,248.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
6,639.1	0.00	0.00	6,288.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Upper Gallup									
6,700.0	0.00	0.00	6,348.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,448.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
6,900.0	0.00	0.00	6,548.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,648.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
7,100.0	0.00	0.00	6,748.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
7,200.0	0.00	0.00	6,848.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
7,300.0	0.00	0.00	6,948.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
Company: ConocoPhillips SJBU
Project: San Juan Basin - New Mexico West Wells
Site: Other Named Wells
Well: Hughes A #6N
Wellbore: Wellbore #1
Design: Plan #1

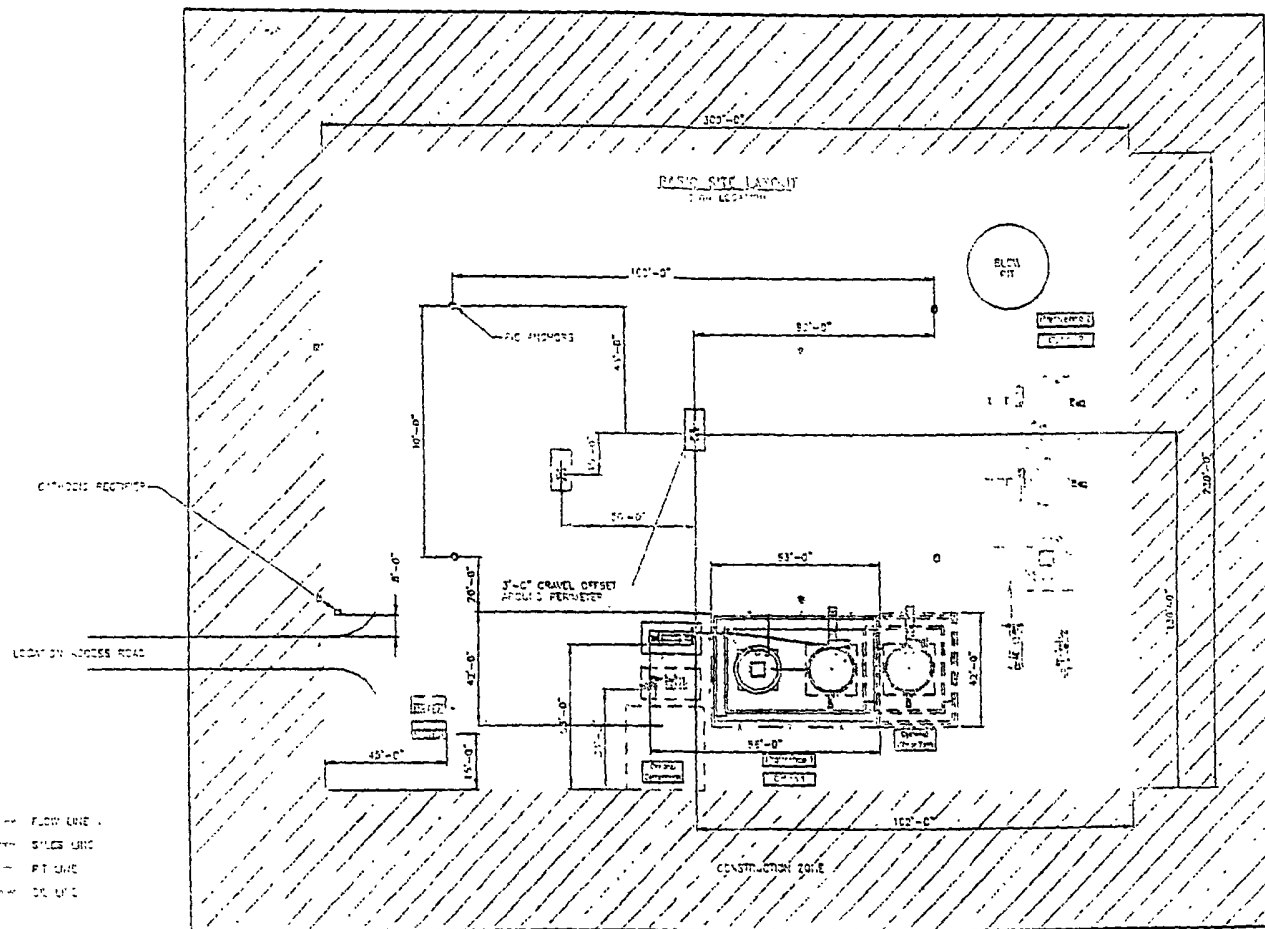
Local Co-ordinate Reference: Well Hughes A #6N
TVD Reference: WELL @ 6327.0ft (Original Well Elev)
MD Reference: WELL @ 6327.0ft (Original Well Elev)
North Reference: True
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,381.1	0.00	0.00	7,030.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Greenhorn									
7,400.0	0.00	0.00	7,048.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
7,436.1	0.00	0.00	7,085.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Graneros									
7,486.1	0.00	0.00	7,135.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Two Wells									
7,500.0	0.00	0.00	7,148.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
7,577.1	0.00	0.00	7,226.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Paguate									
7,600.0	0.00	0.00	7,248.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
7,615.1	0.00	0.00	7,264.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Upper Cubero									
7,642.1	0.00	0.00	7,291.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Lower Cubero									
7,700.0	0.00	0.00	7,348.9	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
7,707.1	0.00	0.00	7,356.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Encinal									
7,747.1	0.00	0.00	7,396.0	-1,600.4	-27.1	1,600.6	0.00	0.00	0.00
Production Casing									

Targets

Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Hughes A #6N ICP		0.00	0.00	4,350.0	-1,600.4	-27.1	2,069,626.39	542,635.68	36° 41' 15.892 N	107° 41' 16.515 W
- plan hits target center										
- Point										
hughes A #6N PCP		0.00	0.00	7,396.0	-1,600.4	-27.1	2,069,626.39	542,635.68	36° 41' 15.892 N	107° 41' 16.515 W
- plan hits target center										
- Point										



FLOW LINE
 STILES LINE
 PT. LINE
 DC LINE

THE ABOVE IS A PRELIMINARY
 LAYOUT AND IS NOT TO BE USED AS A FINAL DESIGN

SHEET 1 OF 2

REVISIONS										REVISIONS									
NO.	DATE	BY	CHKD	APP'D	REV	DESCRIPTION	NO.	DATE	BY	CHKD	APP'D	REV	DESCRIPTION	NO.	DATE	BY	CHKD	APP'D	REV
1							1							1					
2							2							2					
3							3							3					
4							4							4					
5							5							5					
6							6							6					
7							7							7					
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SAN JUAN BUSINESS UNIT

GENERAL LAYOUT
HIGH PRESSURE 3 T. USE
FACILITY DIAGRAM- SITE LAYOUT

DATE: 10/1/00
DRAWN: J. L. GARCIA
CHECKED: J. L. GARCIA
APPROVED: J. L. GARCIA

**CONOCOPHILLIPS COMPANY
HUGHES A 6N
890' FSL, 740' FWL
SECTION 28, T-29-N, R-08-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
NAD 83 LAT.: 36.692150° N LONG.: 107.688441° W
GROUND ELEV.: 6327 NAVD88
CO-LOCATED WITH HARDIE 2E,
NO NEW ACCESS**

FROM INTERSECTION OF HWY. 550 NORTH & HWY. 64 EAST IN
BLOOMFIELD N.M.

- GO 17.6 MILES EAST ON HWY. 64 EAST TO MILE MARKER 82.2. TURN RIGHT ONTO RIDGE ROAD (MANZANARES MESA ACCESS).
- GO 0.6 MILES. STAY RIGHT TURNING OFF RIDGE ROAD.
- GO 0.1 MILES. TURN LEFT HEADING SOUTH.
- GO 0.4 MILES SOUTH TO "Y" IN THE ROAD. STAY LEFT ON THE MAIN ROAD.
- GO 0.5 MILES SOUTH EAST. TURN RIGHT.
- GO 1.1 MILES SOUTH TO FOUR WAY ROAD INTERSECTION. CONTINUE SOUTH THROUGH THE INTERSECTION.
- GO SOUTH 0.4 MILES. TURN RIGHT INTO WELL LOCATION FOR COPC HARDIE 2E. WELL FLAG IS STAKED 270 FEET SOUTH WEST OF THE HARDIE 2E WELL HEAD.