

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAR 23 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number SF-078147 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company	7. Unit Agreement Name
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Moore LS 9. Well Number 5B
4. Location of Well Surf: Unit E (SWNW), 2020' FNL & 750' FWL BHL: Unit L (NWSW), 2110' FSL & 760' FWL Surf: Latitude: 36.973260° N (NAD83) Longitude: 108.053393° W BHL: Latitude: 36.969883° N (NAD83) Longitude: 108.053340° W	10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 24, T32N, R12W API # 30-045-35266
14. Distance in Miles from Nearest Town 11.9 miles from La Plata, NM	12. County San Juan 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 750'	
16. Acres in Lease 2240 acres	17. Acres Assigned to Well 320.00 acres W/2 (MV/DK)
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 51' from Moore LS 5A (MV/PC)	
19. Proposed Depth 7706'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6471' 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	
24. Authorized by: <u>Dollie L. Busse</u> Dollie L. Busse (505-324-6104)	Date <u>March 15, 2011</u>

Hold C104
for Directional Survey
and "As Drilled" plat

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY [Signature] TITLE AFM DATE 5/12/11

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

Hold C104

for Directional Survey
and "As Drilled" plat

JUN 02 2011

NMOCD

APPROVAL OR ACCEPTANCE OF THIS
OPERATION DOES NOT RELIEVE THE LESSOR AND
OPERATOR OF ANY OTHER
AUTHORIZATION REQUIRED FOR OPERATION
ON FEDERAL AND INDIAN LANDS

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

RECEIVED

DISTRICT I
1825 N. French Dr., Hobbs, N.M. 88240

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

DISTRICT III
1000 Rio Brazos Rd., Aztec, N.M. 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
MAR 26 2005 October 12, 2005

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-352660		² Pool Code 71599/72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 31838	⁵ Property Name MOORE LS		⁶ Well Number 5B
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY		⁹ Elevation 6471'

¹⁰ Surface Location

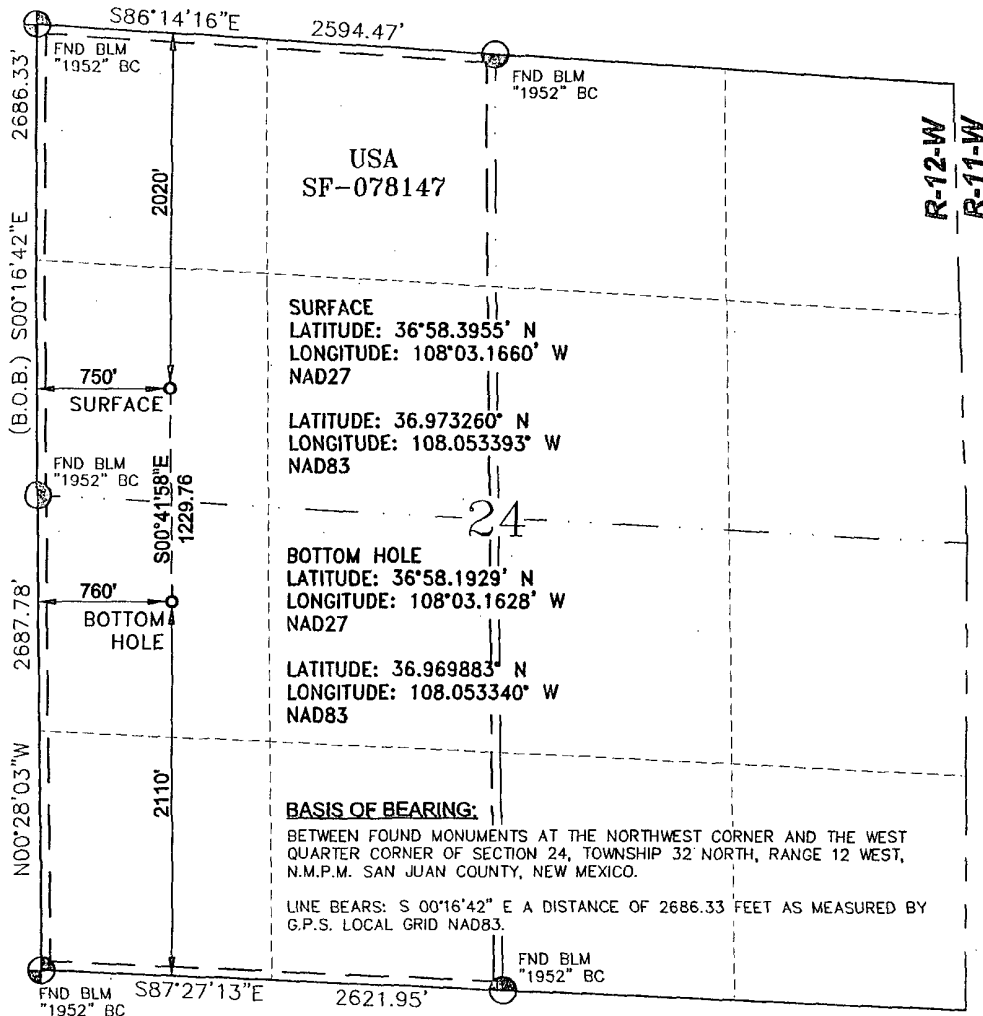
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	24	32-N	12-W		2020	NORTH	750	WEST	SAN JUAN

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
L	24	32-N	12-W		2110	SOUTH	760	WEST	SAN JUAN

¹² Dedicated Acres DK 320.00 ACRES W/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.

Brandie Blakley 11-24-10
Signature
Brandie Blakley
Printed Name

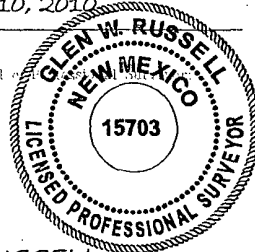
18 SURVEYOR CERTIFICATION

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.

NOVEMBER 10, 2010

Date of Survey

Signature and Seal of



GLEN W. RUSSELL
Certificate Number

15703

Hold C104

for Directional Survey
and "As Drilled" plat

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

MOORE LS 5B

DEVELOPMENT

Lease:		AFE #: WAN.CDR.0030		AFE \$: 0.00	
Field Name: SAN JUAN		Rig: Aztec Rig 920		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	
Primary Objective (Zones):					
Zone	Zone Name				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				
Location: Surface					
Datum: Code: NAD 27		Directional:			
Latitude: 36.973258	Longitude: -108.052767	X:	Y:	Section: 24	Range: 012W
Footage X: 750 FWL	Footage Y: 2020 FNL	Elevation: 6471	(FT)	Township: 032N	
Tolerance:					
Location: Bottom Hole					
Datum: Code: NAD 27		Directional:			
Latitude: 36.969881	Longitude: -108.052714	X:	Y:	Section: 24	Range: 012W
Footage X: 760 FWL	Footage Y: 2110 FSL	Elevation:	(FT)	Township: 032N	
Tolerance:					
Location Type: Year Round		Start Date (Est.): 1/1/2011		Completion Date:	
Date In Operation:					
Formation Data: Assume KB = 6486 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
BHT	Remarks				
Surface Casing	323	6163		☐	12-1/4 hole. 320' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 244 cuft. Circulate cement to surface.
OJO ALAMO	962	5524		☐	
KIRTLAND	1049	5437		☐	
FRUITLAND	2318	4168		☐	Possible Gas
PICTURED CLIFFS	3008	3478		☐	
LEWIS	3180	3306		☐	
HUERFANITO BENTONITE	3684	2802		☐	
CHACRA	4148	2338		☐	
UPPER CLIFF HOUSE	4524	1962		☐	Gas; Cliffhouse is borderline wet
MASSIVE CLIFF HOUSE	4755	1731		☐	450 Gas
MENEFEE	4873	1613		☐	Est. Top Perf - 5073 (1413)
Intermediate Casing	5023	1463		☐	150 8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1166 cuft. Circulate cement to surface.
POINT LOOKOUT	5302	1184		☐	
MANCOS	5688	798		☐	
UPPER GALLUP	6698	-212		☐	
GREENHORN	7398	-912		☐	
GRANEROS	7450	-964		☐	
TWO WELLS	7516	-1030		☐	2454 Gas
PAGUATE	7594	-1108		☐	
LOWER CUBERO	7626	-1140		☐	
UPPER CUBERO	7626	-1140		☐	

PROJECT PROPOSAL - New Drill / Sidetrack

MOORE LS 5B

DEVELOPMENT

ENCINAL	7666	-1180	☐	TD - 40' below T/ENCN; Est. Btm Perf - 7686 (- 1200) based on offset wells
Total Depth	7706	-1220	☐	206 6-1/4" hole, 4-1/2" 11.6 ppf, J-55/L-80, LTC casing. Cement w/ 370 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	Dalsant 1B	32N 12W 24 SE NW SE
Production	Moore Com 1M	32N 12W 25 E2 NW NW
Production	Moore Com 1	32N 12W 25 SE NW
Production	Decker 1B	32N 12W 14 SE NW SE

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
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ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Moore LS #5B
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6486.0ft (AWS Rigs)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6486.0ft (AWS Rigs)
Site:	Other Named Wells	North Reference:	True
Well:	Moore LS #5B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site:	Other Named Wells		
Site Position:	From:	Lat/Long	
	Northing:	2,108,178.26 ft	Latitude: 36° 47' 33.793 N
	Easting:	643,887.63 ft	Longitude: 107° 20' 30.932 W
Position Uncertainty:	15.0 ft	Slot Radius: 6-1/8"	Grid Convergence: 0.29 °

Well:	Moore LS #5B, Directional S Curve		
Well Position	+N-S	0.0 ft	Northing: 2,173,607.94 ft
	+E-W	0.0 ft	Easting: 435,899.65 ft
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
			Ground Level: 6,471.0 ft

Wellbore:	Original Hole				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2010	3/9/2011	(°) 10.07	(°) 63.65	(nT) 50,851

Design:	Plan #1			
Audit Notes:				
Version:	1	Phase:	PROTOTYPE	Tie On Depth: 0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	179.27

Plan Sections										
Measured Depth	Inclination	Azimuth	Vertical Depth	+N-S	+E-W	Dogleg Rate	Build Rate	Turn Rate	TFO	Target
(ft)	(°)	(°)	(ft)	(ft)	(ft)	(°/100ft)	(°/100ft)	(°/100ft)	(°)	
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,341.1	17.82	179.27	1,326.8	-137.5	1.7	2.00	2.00	0.00	179.27	
4,609.6	17.82	179.27	4,438.5	-1,137.8	14.4	0.00	0.00	0.00	0.00	
5,203.7	0.00	0.00	5,023.0	-1,229.4	15.6	3.00	-3.00	0.00	180.00	Moore LS #5B ICP
7,886.7	0.00	0.00	7,706.0	-1,229.4	15.6	0.00	0.00	0.00	0.00	Moore LS #5B PCP

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Moore LS #5B
 Wellbore: Original Hole
 Design: Plan #1

Local Co-ordinate Reference: Well Moore LS #5B
 TVD Reference: RKB @ 6486.0ft (AWS Rigs)
 MD Reference: RKB @ 6486.0ft (AWS Rigs)
 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)
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
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
Surf									
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
450.0	0.00	0.00	450.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	1.00	179.27	500.0	-0.4	0.0	0.4	2.00	2.00	0.00
600.0	3.00	179.27	599.9	-3.9	0.0	3.9	2.00	2.00	0.00
700.0	5.00	179.27	699.7	-10.9	0.1	10.9	2.00	2.00	0.00
800.0	7.00	179.27	799.1	-21.4	0.3	21.4	2.00	2.00	0.00
900.0	9.00	179.27	898.2	-35.3	0.4	35.3	2.00	2.00	0.00
964.8	10.30	179.27	962.0	-46.1	0.6	46.1	2.00	2.00	0.00
Ojo Alamo									
1,000.0	11.00	179.27	996.6	-52.6	0.7	52.6	2.00	2.00	0.00
1,053.5	12.07	179.27	1,049.0	-63.3	0.8	63.3	2.00	2.00	0.00
Kirtland									
1,100.0	13.00	179.27	1,094.4	-73.4	0.9	73.4	2.00	2.00	0.00
1,200.0	15.00	179.27	1,191.5	-97.6	1.2	97.6	2.00	2.00	0.00
1,300.0	17.00	179.27	1,287.6	-125.2	1.6	125.2	2.00	2.00	0.00
1,341.1	17.82	179.27	1,326.8	-137.5	1.7	137.5	2.00	2.00	0.00
1,400.0	17.82	179.27	1,382.9	-155.5	2.0	155.5	0.00	0.00	0.00
1,500.0	17.82	179.27	1,478.1	-186.1	2.4	186.1	0.00	0.00	0.00
1,600.0	17.82	179.27	1,573.3	-216.7	2.7	216.7	0.00	0.00	0.00
1,700.0	17.82	179.27	1,668.5	-247.3	3.1	247.3	0.00	0.00	0.00
1,800.0	17.82	179.27	1,763.7	-277.9	3.5	277.9	0.00	0.00	0.00
1,900.0	17.82	179.27	1,858.9	-308.5	3.9	308.5	0.00	0.00	0.00
2,000.0	17.82	179.27	1,954.1	-339.1	4.3	339.1	0.00	0.00	0.00
2,100.0	17.82	179.27	2,049.3	-369.7	4.7	369.7	0.00	0.00	0.00
2,200.0	17.82	179.27	2,144.5	-400.3	5.1	400.4	0.00	0.00	0.00
2,300.0	17.82	179.27	2,239.7	-430.9	5.5	431.0	0.00	0.00	0.00
2,382.3	17.82	179.27	2,318.0	-456.1	5.8	456.1	0.00	0.00	0.00
Fruitland									
2,400.0	17.82	179.27	2,334.9	-461.5	5.8	461.6	0.00	0.00	0.00
2,500.0	17.82	179.27	2,430.1	-492.1	6.2	492.2	0.00	0.00	0.00
2,600.0	17.82	179.27	2,525.3	-522.7	6.6	522.8	0.00	0.00	0.00
2,700.0	17.82	179.27	2,620.5	-553.3	7.0	553.4	0.00	0.00	0.00
2,800.0	17.82	179.27	2,715.7	-583.9	7.4	584.0	0.00	0.00	0.00
2,900.0	17.82	179.27	2,810.9	-614.6	7.8	614.6	0.00	0.00	0.00
3,000.0	17.82	179.27	2,906.1	-645.2	8.2	645.2	0.00	0.00	0.00
3,100.0	17.82	179.27	3,001.3	-675.8	8.6	675.8	0.00	0.00	0.00
3,107.0	17.82	179.27	3,008.0	-677.9	8.6	678.0	0.00	0.00	0.00
Pictured Cliffs									
3,200.0	17.82	179.27	3,096.5	-706.4	9.0	706.4	0.00	0.00	0.00
3,287.7	17.82	179.27	3,180.0	-733.2	9.3	733.3	0.00	0.00	0.00
Lewis									
3,300.0	17.82	179.27	3,191.7	-737.0	9.3	737.0	0.00	0.00	0.00
3,400.0	17.82	179.27	3,286.9	-767.6	9.7	767.6	0.00	0.00	0.00
3,500.0	17.82	179.27	3,382.1	-798.2	10.1	798.2	0.00	0.00	0.00
3,600.0	17.82	179.27	3,477.3	-828.8	10.5	828.8	0.00	0.00	0.00
3,700.0	17.82	179.27	3,572.5	-859.4	10.9	859.5	0.00	0.00	0.00
3,800.0	17.82	179.27	3,667.7	-890.0	11.3	890.1	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Moore LS #5B
 Wellbore: Original Hole
 Design: Plan #1

Local Co-ordinate Reference: Well Moore LS #5B
 TVD Reference: RKB @ 6486.0ft (AWS Rigs)
 MD Reference: RKB @ 6486.0ft (AWS Rigs)
 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)
3,817.1	17.82	179.27	3,684.0	-895.2	11.3	895.3	0.00	0.00	0.00
Huerfano Bentonite									
3,900.0	17.82	179.27	3,762.9	-920.6	11.7	920.7	0.00	0.00	0.00
4,000.0	17.82	179.27	3,858.1	-951.2	12.1	951.3	0.00	0.00	0.00
4,100.0	17.82	179.27	3,953.3	-981.8	12.4	981.9	0.00	0.00	0.00
4,200.0	17.82	179.27	4,048.5	-1,012.4	12.8	1,012.5	0.00	0.00	0.00
4,300.0	17.82	179.27	4,143.7	-1,043.0	13.2	1,043.1	0.00	0.00	0.00
4,304.5	17.82	179.27	4,148.0	-1,044.4	13.2	1,044.5	0.00	0.00	0.00
Chacra									
4,400.0	17.82	179.27	4,238.9	-1,073.6	13.6	1,073.7	0.00	0.00	0.00
4,500.0	17.82	179.27	4,334.1	-1,104.2	14.0	1,104.3	0.00	0.00	0.00
4,600.0	17.82	179.27	4,429.3	-1,134.8	14.4	1,134.9	0.00	0.00	0.00
4,609.6	17.82	179.27	4,438.5	-1,137.8	14.4	1,137.9	0.00	0.00	0.00
4,698.8	15.15	179.27	4,524.0	-1,163.1	14.7	1,163.2	3.00	-3.00	0.00
Upper Cliffhouse									
4,700.0	15.11	179.27	4,525.1	-1,163.4	14.7	1,163.5	3.00	-3.00	0.00
4,800.0	12.11	179.27	4,622.3	-1,186.9	15.0	1,187.0	3.00	-3.00	0.00
4,900.0	9.11	179.27	4,720.6	-1,205.3	15.3	1,205.4	3.00	-3.00	0.00
4,934.8	8.07	179.27	4,755.0	-1,210.5	15.3	1,210.6	3.00	-3.00	0.00
Mass. Cliffhouse									
5,000.0	6.11	179.27	4,819.7	-1,218.6	15.4	1,218.7	3.00	-3.00	0.00
5,053.5	4.50	179.27	4,873.0	-1,223.5	15.5	1,223.6	3.00	-3.00	0.00
Menefee									
5,100.0	3.11	179.27	4,919.4	-1,226.6	15.5	1,226.7	3.00	-3.00	0.00
5,200.0	0.11	179.27	5,019.3	-1,229.4	15.6	1,229.5	3.00	-3.00	0.00
5,203.7	0.00	0.00	5,023.0	-1,229.4	15.6	1,229.5	3.00	-3.00	-4,861.33
Int - Moore LS #5B ICP									
5,300.0	0.00	0.00	5,119.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
5,400.0	0.00	0.00	5,219.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
5,482.7	0.00	0.00	5,302.0	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
Point Lookout									
5,500.0	0.00	0.00	5,319.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,419.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,519.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,619.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
5,868.7	0.00	0.00	5,688.0	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
Mancos									
5,900.0	0.00	0.00	5,719.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,819.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
6,100.0	0.00	0.00	5,919.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,019.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
6,300.0	0.00	0.00	6,119.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,219.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,319.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,419.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
6,666.7	0.00	0.00	6,486.0	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
Encinal									
6,700.0	0.00	0.00	6,519.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,619.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
6,878.7	0.00	0.00	6,698.0	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
Upper Gallup									
6,900.0	0.00	0.00	6,719.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00

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Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico West Wells
 Site: Other Named Wells
 Well: Moore LS #5B
 Wellbore: Original Hole
 Design: Plan #1

Local Co-ordinate Reference: Well Moore LS #5B
 TVD Reference: RKB @ 6486.0ft (AWS Rigs)
 MD Reference: RKB @ 6486.0ft (AWS Rigs)
 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)
7,000.0	0.00	0.00	6,819.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
7,100.0	0.00	0.00	6,919.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,019.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,119.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,219.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,319.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
7,578.7	0.00	0.00	7,398.0	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
Greenhorn									
7,600.0	0.00	0.00	7,419.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
7,630.7	0.00	0.00	7,450.0	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
Graneros									
7,696.7	0.00	0.00	7,516.0	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
Two Wells									
7,700.0	0.00	0.00	7,519.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
7,774.7	0.00	0.00	7,594.0	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
Paguate									
7,800.0	0.00	0.00	7,619.3	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
7,806.7	0.00	0.00	7,626.0	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
Cubero									
7,846.7	0.00	0.00	7,666.0	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
Prod									
7,886.7	0.00	0.00	7,706.0	-1,229.4	15.6	1,229.5	0.00	0.00	0.00
Moore LS #5B PCP									

Targets:

Target Name	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
hit/miss target									
Shape									
Moore LS #5B ICP	0.00	0.00	5,023.0	-1,229.4	15.6	2,172,378.60	435,912.40	36° 58' 11.574 N	108° 3' 9.768 W
- plan hits target center									
- Circle (radius 50.0)									
Moore LS #5B PCP	0.00	0.00	7,706.0	-1,229.4	15.6	2,172,378.60	435,912.42	36° 58' 11.574 N	108° 3' 9.768 W
- plan hits target center									
- Circle (radius 50.0)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
7,846.7	7,666.0	Prod	4-1/2	6-1/4
320.0	320.0	Surf	9-5/8	12-1/4
5,203.7	5,023.0	Int	7	8-3/4

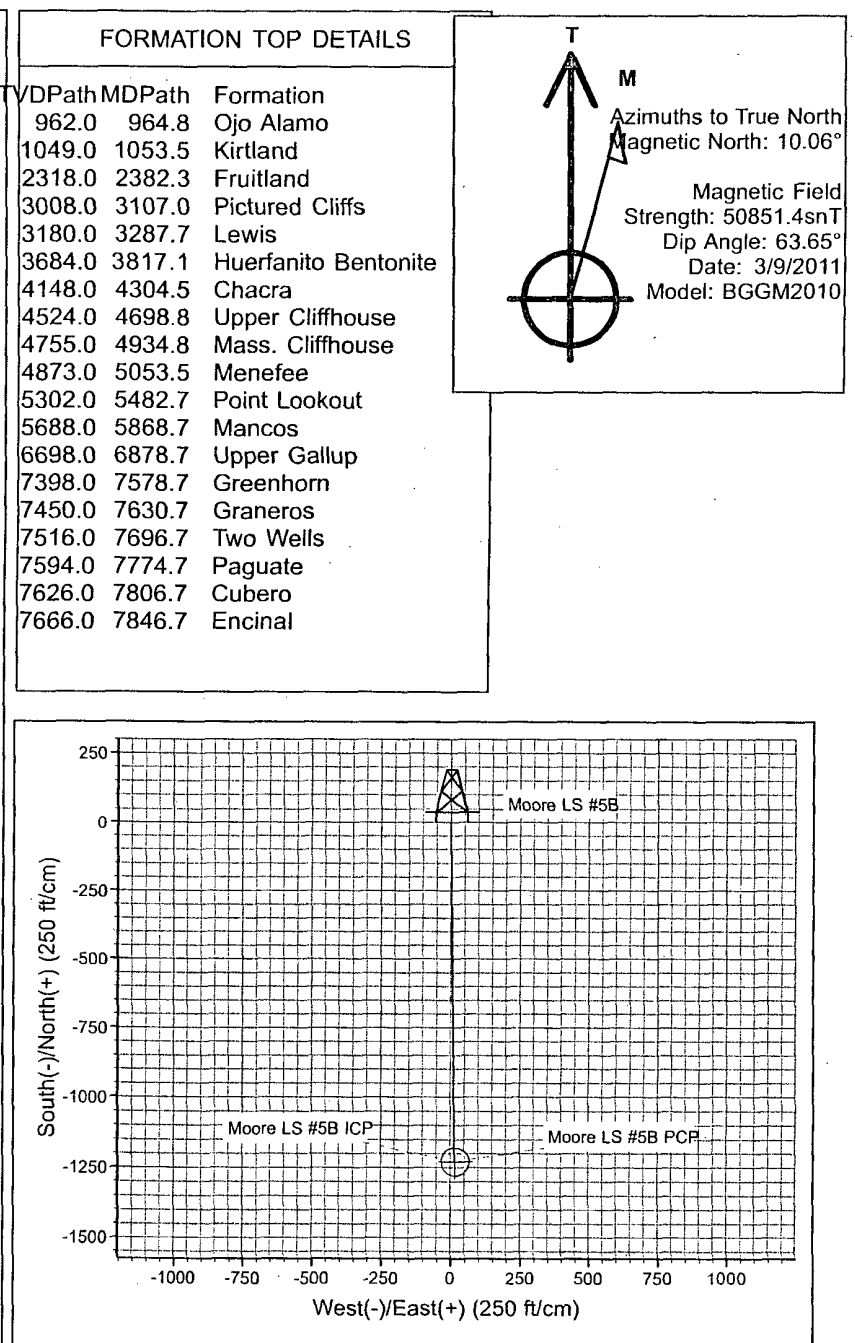
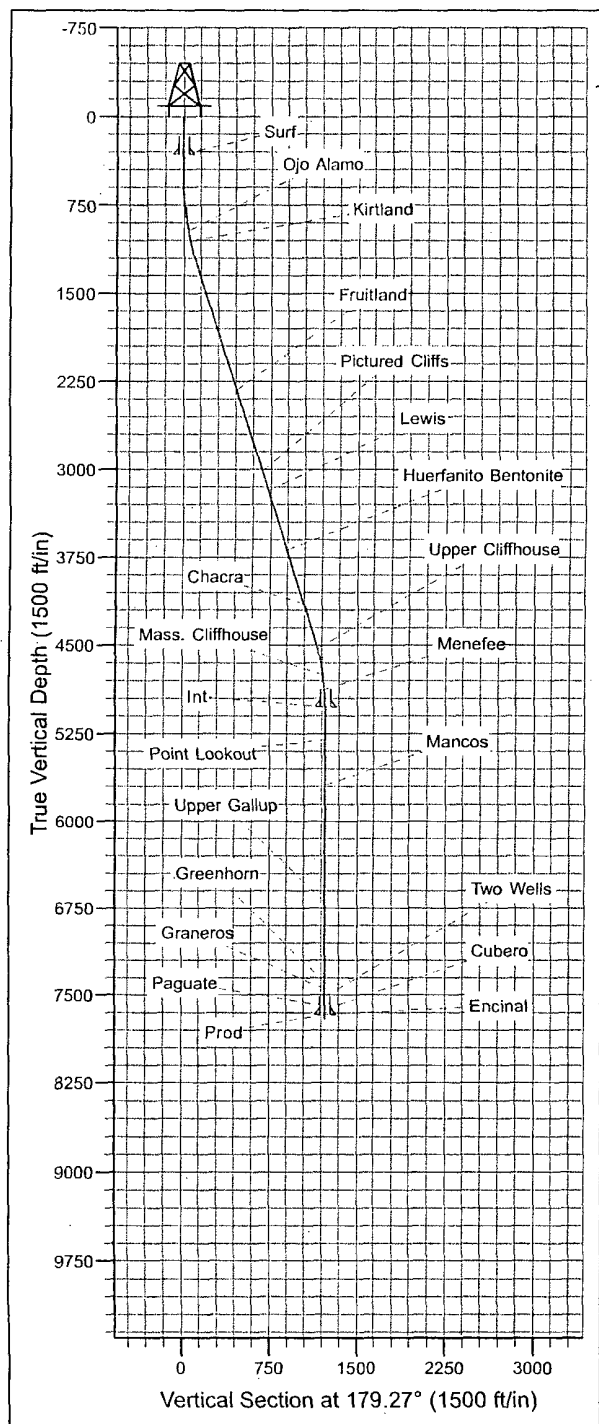
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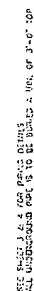
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Moore LS #5B
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6486.0ft (AWS Rigs)
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6486.0ft (AWS Rigs)
Site:	Other Named Wells	North Reference:	True
Well:	Moore LS #5B	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,053.5	4,873.0	Menefee		0.00		
3,287.7	3,180.0	Lewis		0.00		
2,382.3	2,318.0	Fruitland		0.00		
964.8	962.0	Ojo Alamo		0.00		
3,107.0	3,008.0	Pictured Cliffs		0.00		
6,666.7	6,486.0	Encinal		0.00		
5,482.7	5,302.0	Point Lookout		0.00		
7,578.7	7,398.0	Greenhorn		0.00		
7,630.7	7,450.0	Graneros		0.00		
7,806.7	7,626.0	Cubero		0.00		
4,934.8	4,755.0	Mass. Cliffhouse		0.00		
4,304.5	4,148.0	Chacra		0.00		
7,774.7	7,594.0	Paguate		0.00		
3,817.1	3,684.0	Huerfanito Bentonite		0.00		
1,053.5	1,049.0	Kirtland		0.00		
5,868.7	5,688.0	Mancos		0.00		
6,878.7	6,698.0	Upper Gallup		0.00		
7,696.7	7,516.0	Two Wells		0.00		
4,698.8	4,524.0	Upper Cliffhouse		0.00		

REFERENCE INFORMATION		Project: San Juan Basin - New Mexico West V Site: Other Named Wells Well: Moore LS #5B Wellbore: Original Hole Design: Plan #1 									
RKB @ 6486.0ft (AWS Rigs)											
Ground Elevation 6471.0											
Reference Lat: 36° 58' 23.730 N											
Reference Long: 108° 3' 9.960 W											
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	450.0	0.00	0.00	450.0	0.0	0.0	0.00	0.00	0.0		
3	1341.1	17.82	179.27	1326.8	-137.5	1.7	2.00	179.27	137.5		
4	4609.6	17.82	179.27	4438.5	-1137.8	14.4	0.00	0.00	1137.9		
5	5203.7	0.00	0.00	5023.0	-1229.4	15.6	3.00	180.00	1229.5	Moore LS #5B ICP	
6	7886.7	0.00	0.00	7706.0	-1229.4	15.6	0.00	0.00	1229.5	Moore LS #5B PCP	



[illegible]

Directions from the Intersection of
Highway 516 & Highway 574 in Aztec, NM
to

CONOCOPHILLIPS COMPANY

MOORE LS #4B

2020' FNL & 750' FWL,

Section 24, T32N, R12W, N.M.P.M., San Juan County,

New Mexico

Latitude: 36° 58' 23.735" N

Longitude: 108° 03' 12.214" W

Nad 83

From the Intersection of Highway 170 & 574 at
The Red School House, go east on 574 for 6.3 miles,
turn left (northeasterly) for 4.4 miles,
Turn left (northwesterly) 1.2 miles
to beginning of new access on right side of road,
turn right (easterly) 134.66' to newly staked location
twinned on existing well pad MOORE LS #5A.