

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED DEC 15 2009 Bureau of Land Management Farmington Field Office	5. Lease Number Jicarilla Contract 105 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company		7. Unit Agreement Name RCVD MAR 8 '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 Jicarilla A 9. Well Number 22M
4. Location of Well Surf: Unit J(NWSE), 2025' FSL & 2065' FEL Bottomhole: Unit N(SSEW), 1235' FSL & 2380' FWL Surf: Latitude: 36.470270° N (NAD83) Longitude: 107.201552° W Bottomhole: Latitude: 36.468099° N (NAD83) Longitude: 107.204422° W		10. Field, Pool, Wildcat Blanco MV / Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) J Sec. 24, T26N, R4W API # 30-039- 30885
14. Distance in Miles from Nearest Town 93 miles / Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1235'		
16. Acres in Lease	17. Acres Assigned to Well 320.00 S/2 (MV/DK)	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 99' from Jicarilla A 22C		
19. Proposed Depth 8322'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7245' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Crystal Tafoya</u> Crystal Tafoya (Regulatory Technician)		12/15/2009 Date

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

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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 NMB-000015 and NMB-000089

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

NMOCD

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 OGD 24 HRS
PRIOR TO CASING & CEMENT

MAR 10 2010

DISTRICT I
1025 N. French Dr., Hobbs, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

DISTRICT II
1301 West Grand Avenue, Artesia, N.M. 86210

OIL CONSERVATION DIVISION

Submit to Appropriate District Office

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

1220 South St. Francis Dr.
Santa Fe, NM 87505

State Lease - 4 Copies
 Fee Lease - 3 Copies

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039 - 30885		*Pool Code 71599/72319	*Pool Name BASIN DAKOTA/BLANCO MESAVERDE
*Property Code 31760	*Property Name JICARILLA A		*Well Number 22M
*OGRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY		*Elevation 7245'

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
J	24	26-N	4-W		2025	SOUTH	2065	EAST	RIO ARRIBA

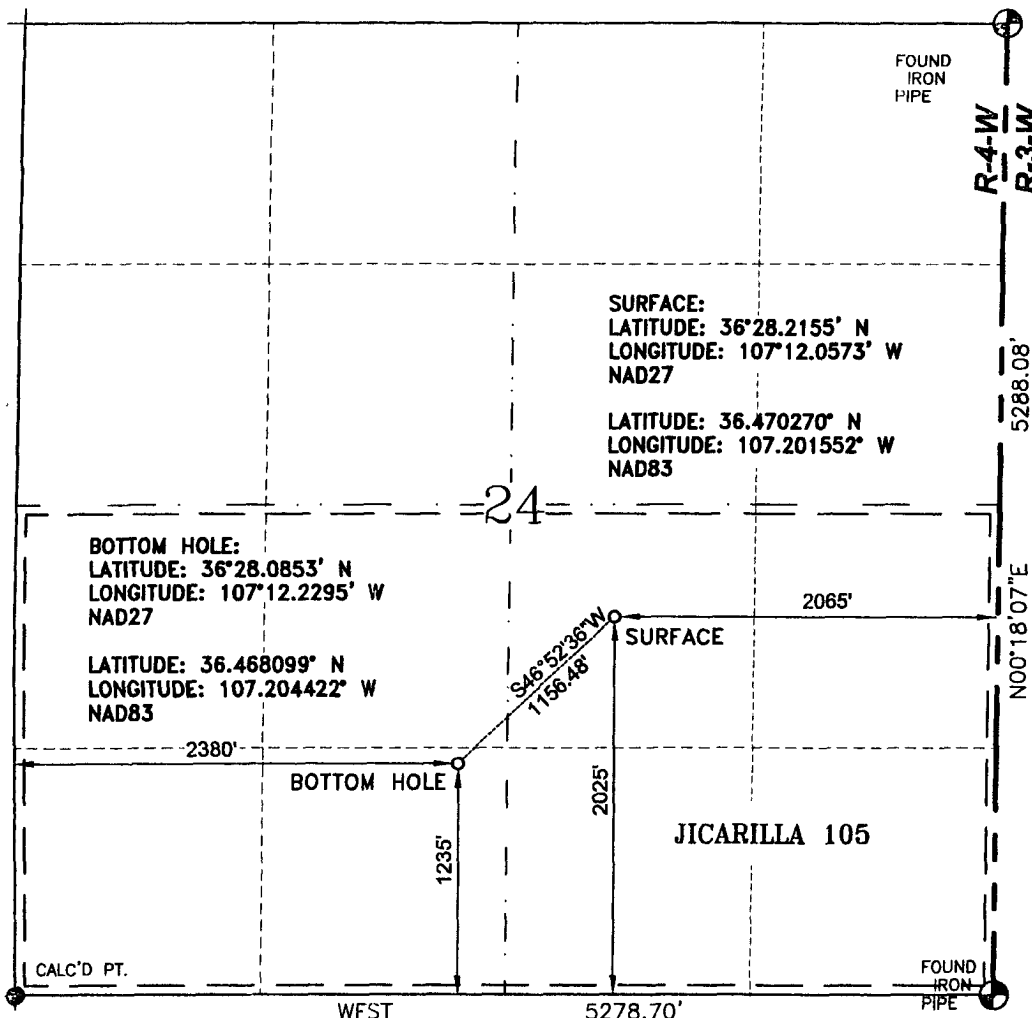
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	24	26-N	4-W		1235	SOUTH	2380	WEST	RIO ARriba

¹² Dedicated Acres DK 320.00 ACRES S/2 MV 320.00 ACRES S/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

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 of such a mineral or working interest, in a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

Mary W. McLean
Signature

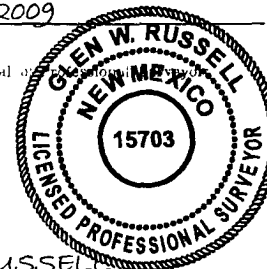
Tracey N. Monroe 7/27/09
Printed Name

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.

JULY 21, 2009
Date of Survey

Signature and Seal of Professional Engineer



GLEN W. RUSSELL
Certificate Number 15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

JICARILLA A 22M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9035				AFE \$: 1,702,554.98	
Field Name: SAN JUAN		Rig: XXX Must be 2012		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						
RON	BLANCO MESAVERDE (PRORATED GAS)						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.470258		Longitude: -107.200954		X:	Y:	Section: 24	Range: 004W
Footage X: 2065 FEL		Footage Y: 2025 FSL		Elevation: 7245 (FT)		Township: 026N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.468088		Longitude: -107.203824		X:	Y:	Section: 24	Range: 004W
Footage X: 2380 FWL		Footage Y: 1235 FSL		Elevation: (FT)		Township: 026N	
Tolerance:							
Location Type: Year Round		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 7260 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	320	6940	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 183 cuft. Circulate cement to surface.	
NACIMIENTO	2315	4945	☐				
OJO ALAMO	3372	3888	☐				
KIRTLAND	3504	3756	☐				
FRUITLAND	3597	3663	☐			Possible Gas	
PICTURED CLIFFS	3914	3346	☐				
LEWIS	4006	3254	☐				
HUERFANITO BENTONITE	4348	2912	☐				
CHACRA	4822	2438	☐				
UPPER CLIFF HOUSE	5539	1721	☐			Cliffhouse Is Wet	
MASSIVE CLIFF HOUSE	5547	1713	☐	762			
MENESEE	5659	1601	☐			Est. Top Perf - 5843 (1416)	
Intermediate Casing	5809	1451	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1303 cuft. Circulate cement to surface.	
POINT LOOKOUT	6030	1230	☐			GAS	
MANCOS	6510	750	☐				
UPPER GALLUP	7148	112	☐				
GREENHORN	7997	-737	☐				
GRANEROS	8057	-797	☐				
TWO WELLS	8082	-822	☐	3025		Gas	
PAGUATE	8193	-933	☐				
UPPER CUBERO	8217	-957	☐				
LOWER CUBERO	8262	-1002	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

JICARILLA A 22M

DEVELOPMENT

OAK CANYON	8278	-1018	☐
ENCINAL	8322	-1062	☐
Total Depth	8322	-1062	☐
BURRO CANYON	8348	-1088	☐
MORRISON	8416	-1156	☐

TD - T/ENCN

6 1/4" hole, 4-1/2" 11.6 ppf, L-80/ J-55 LTC/BTC casing.
Cement with 347 cuft. Circulate cement to surface.

Reference Wells:

Reference Type	Well Name	Comments
Production	Jicarilla A 22 Y	26N 4W 24 SW NE SW
Production	Jicarilla B 11	26N 4W 25 SE NW NW
Production	Jicarilla A 7	26N 4W 24 NW NE
Production	Jicarilla A 23	26N 4W 24 NW SE 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 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 Jicanilla A 22M
Company:	ConocoPhillips SJB	TVD Reference:	WELL @ 7260.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	WELL @ 7260.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Jicanilla A 22M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Jicanilla A 22M		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,374.4	8,217.0	Upper Cubero		0.00		
3,578.8	3,504.0	Kirtland		0.00		
7,305.4	7,148.0	Upper Gallup		0.00		
6,187.4	6,030.0	Massive Point Lookout		0.00		
8,214.4	8,057.0	Graneros		0.00		
6,667.4	6,510.0	Mancos		0.00		
	8,416.0	Morrison		0.00		
3,441.2	3,372.0	Ojo Alamo		0.00		
5,816.3	5,659.0	Menefee		0.00		
4,006.3	3,914.0	Pictured Cliffs		0.00		
8,350.4	8,193.0	Paguate		0.00		
8,239.4	8,082.0	Two Wells		0.00		
4,458.8	4,348.0	Huerfano Bentonite		0.00		
	8,348.0	Burro Canyon		0.00		
8,435.4	8,278.0	Oak Canyon		0.00		
3,675.8	3,597.0	Fruitland Coal		0.00		
2,339.2	2,315.0	Nacimiento		0.00		
5,703.6	5,547.0	Massive Cliff House		0.00		
4,102.2	4,006.0	Lewis		0.00		
5,695.5	5,539.0	Upper Cliff House		0.00		
8,479.4	8,322.0	Encinal		0.00		
8,419.4	8,262.0	Lower Cubero		0.00		
4,952.9	4,822.0	Chacra		0.00		
8,154.4	7,997.0	Greenhorn		0.00		

REFERENCE INFORMATION

WELL @ 7260.0ft (Original Well Elev)
Ground Elevation 7245.0
Reference Lat: 36° 28' 12.929 N
Reference Long: 107° 12' 3.434 W

Project: San Juan Basin - New Mexico Wells

Site: Other Named Wells

Well: Jicarilla A 22M

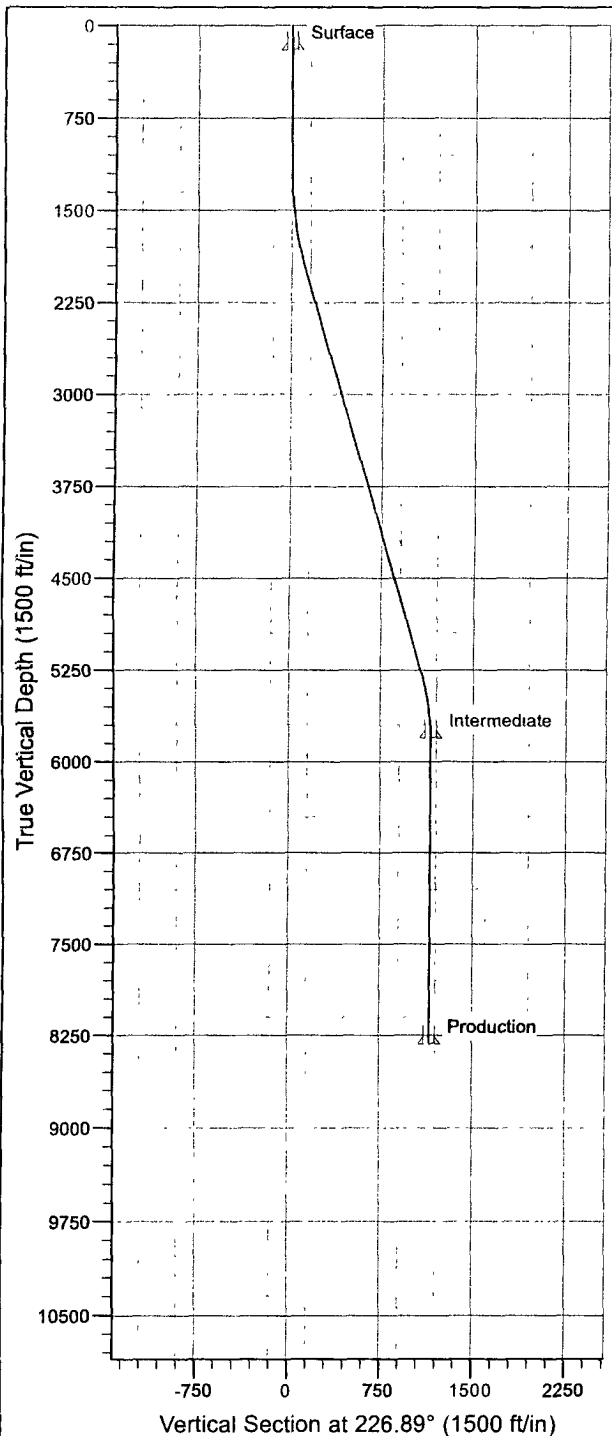
Wellbore: Jicarilla A 22M

Design: Plan #1



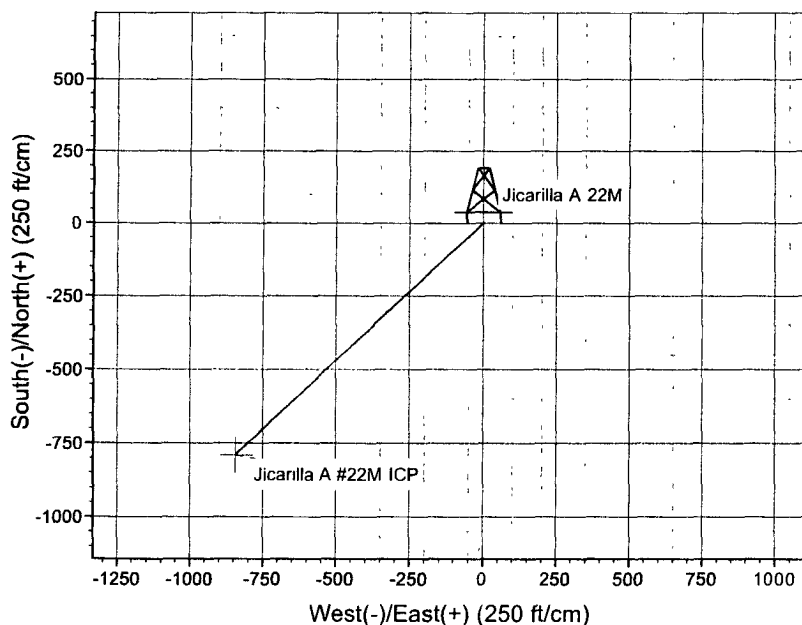
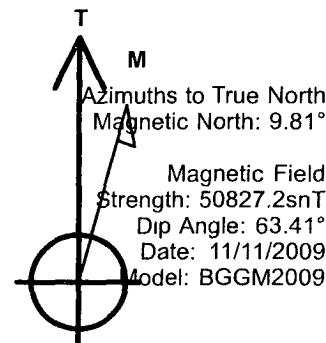
SECTION DETAILS

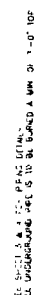
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0	
2	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	2021.6	16.43	226.89	2010.4	-80.0	-85.4	2.00	226.89	117.0	
4	5418.7	16.43	226.89	5268.7	-736.7	-787.0	0.00	0.00	1078.0	
5	5966.4	0.00	0.00	5809.0	-790.0	-844.0	3.00	180.00	1156.0	Jicarilla A #22M ICP
6	8479.4	0.00	0.00	8322.0	-790.0	-844.0	0.00	0.00	1156.0	Jicarilla A #22M PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
		Burro Canyon
		Morrison
2315.0	2339.2	Nacimiento
3372.0	3441.2	Ojo Alamo
3504.0	3578.8	Kirtland
3597.0	3675.8	Fruitland Coal
3914.0	4006.3	Pictured Cliffs
4006.0	4102.2	Lewis
4348.0	4458.8	Huerfanito Bentonite
4822.0	4952.9	Chacra
5539.0	5695.5	Upper Cliff House
5547.0	5703.6	Massive Cliff House
5659.0	5816.3	Menefee
6030.0	6187.4	Massive Point Lookout
6510.0	6667.4	Mancos
7148.0	7305.4	Upper Gallup
7997.0	8154.4	Greenhorn
8057.0	8214.4	Graneros
8082.0	8239.4	Two Wells
8193.0	8350.4	Paguate
8217.0	8374.4	Upper Cubero
8262.0	8419.4	Lower Cubero
8278.0	8435.4	Oak Canyon
8322.0	8479.4	Encinal



[illegible]

Directions from the Intersection of
Hwy 550 & Hwy 64 in Bloomfield, NM

To:

CONOCOPHILLIPS COMPANY

JICARILLA A 22M

2025' FSL & 2065' FEL,

Section 24, T26N, R4W, N.M.P.M., Rio Arriba County,

New Mexico

Latitude: 36 ° 28' 12.971" N

Longitude: 107 ° 12' 05.589" W

NAD 1983

Go south on Hwy 550 for 66.2 miles,

Turn left (north) @ Int. Hwy 550 and Hwy 537,

Go north on Hwy 537 25.7 miles,

Turn left (westerly) 0.9 miles,

Turn right (northwest) 0.4 miles,

Turn right (north) 250' to newly staked location twinned with
existing location (Jicarilla A 22C)