

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED DEC 14 2009 Bureau of Land Management Farmington Field Office	5. Lease Number Contract #104 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe Jicarilla Nation
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 E 9. Well Number 15F
4. Location of Well Surf: Unit A (NENE), 805' FNL & 490' FEL Bottomhole: Unit D (NWNW), 710' FNL & 710' FWL Surf: Latitude: 36.491965° N (NAD83) Longitude: 107.267430° W Bottomhole: Latitude: 36.492226° N (NAD83) Longitude: 107.263348° W		10. Field, Pool, Wildcat Blanco MV / Basin Dk 11. Sec., Twn, Rge, Mer. (NMPM) A SH - Sec. 17, T26N, R4W D BH - Sec. 16, T26N, R4W API # 30-039-30877
14. Distance in Miles from Nearest Town 101 miles / Bloomfield	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 490'		
16. Acres in Lease 2560	17. Acres Assigned to Well 320.00 W/2 - MV/DK	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 56' from Jicarilla 103 #12		
19. Proposed Depth 8297'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 7175' 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)	<u>12/14/2009</u> 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 D. Mamber

TITLE AFM

DATE 3/3/2010

24 HRS.

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

FORM C-144

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

MAD

10 2010 NMOCD

NOTIFY ATEC
PRIOR TO CASING & CEMENT
for Directional Survey
DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

DISTRICT I
1625 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
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30877	² Pool Code 71599 / 72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 31764	⁵ Property Name JICARILLA E	⁶ Well Number 15F
⁷ OGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 7175'

¹⁰ Surface Location

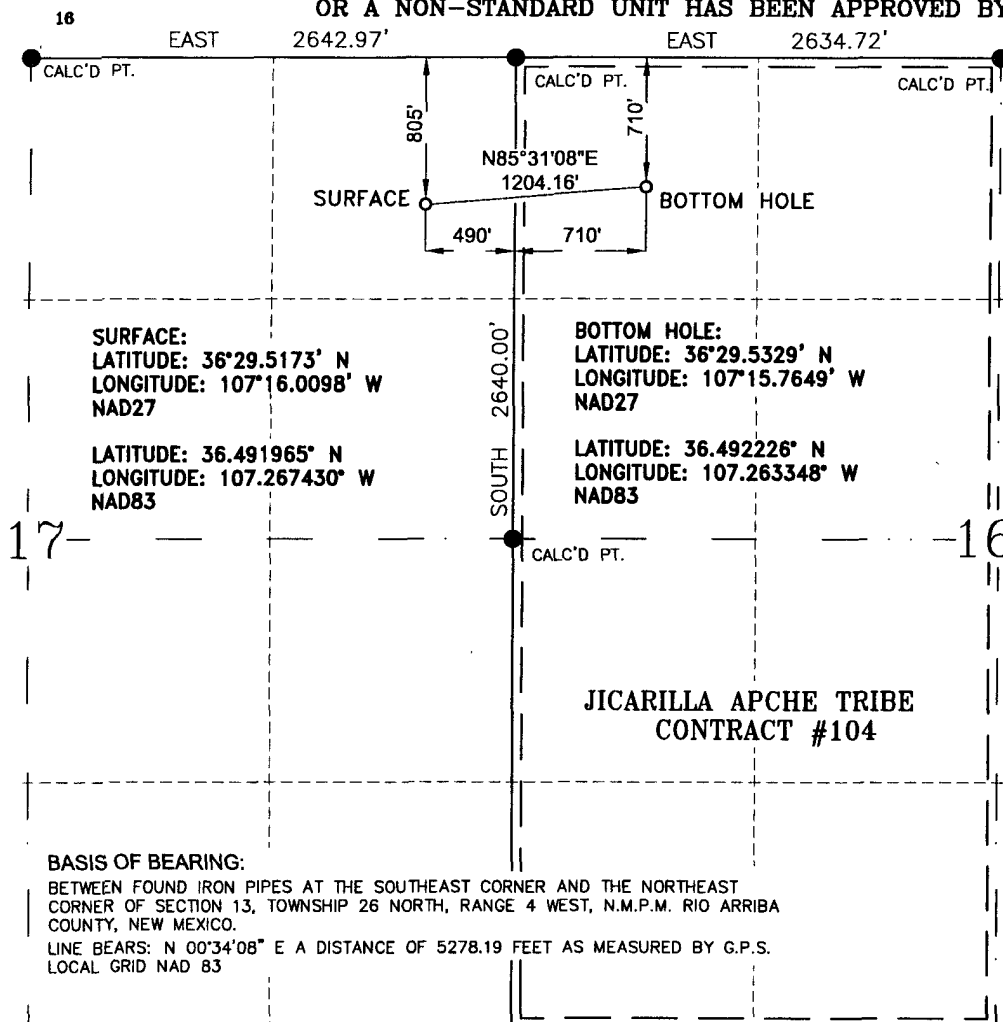
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	17	26-N	4-W		805	NORTH	490	EAST	RIO ARRIBA

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
D	16	26-N	4-W		710	NORTH	710	WEST	RIO ARRIBA

¹² Dedicated Acres MV 320.00 ACRES W/2 DK 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.

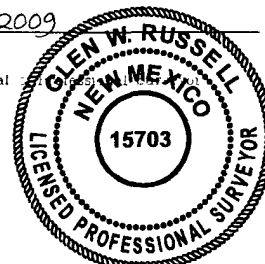
Crystal Tafoya 11/6/09
Signature
Crystal Tafoya 11/6/09
Printed Name

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 22, 2009
Date of Survey

Signature and Seal



GLEN W. RUSSELL
Certificate Number

15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

JICARILLA E 15F

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9039		AFE \$: 1,799,976.30	
Field Name: SAN JUAN		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Prod. Engineer:	
Res. Engineer:		Phone:		Proj. Field Lead:	

Primary Objective (Zones):

Zone	Zone Name
RON	BLANCO MESAVERDE (PRORATED GAS)
FRR	BASIN DAKOTA (PRORATED GAS)

Location: Surface Datum Code: NAD 27 Directional

Latitude: 36.491954	Longitude: -107.266831	X:	Y:	Section: 17	Range: 004W
Footage X: 490 FEL	Footage Y: 805 FNL	Elevation: 7175	(FT)	Township: 026N	
Tolerance:					

Location: Bottom Hole Datum Code: NAD 27 Directional

Latitude: 36.492215	Longitude: -107.262749	X:	Y:	Section: 16	Range: 004W
Footage X: 710 FWL	Footage Y: 710 FNL	Elevation:	(FT)	Township: 026N	
Tolerance:					

Location Type: Year Round	Start Date (Est.): 1/1/2010	Completion Date:	Date In Operation:
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Formation Data: Assume KB = 7191	Units = FT
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Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	320	6871	☐			12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 183 cuft. Circulate cement to surface.
NACIMIENTO	2237	4954	☐			
OJO ALAMO	3311	3880	☐			
KIRTLAND	3429	3762	☐			
FRUITLAND	3522	3669	☐			Possible Gas
PICTURED CLIFFS	3872	3319	☐			
LEWIS	3966	3225	☐			
HUERFANITO BENTONITE	4329	2862	☐			
CHACRA	4812	2379	☐			
UPPER CLIFF HOUSE	5517	1674	☐			Est. Top Perf - 5517 (1672)
MASSIVE CLIFF HOUSE	5534	1657	☐			
MENEFEE	5667	1524	☐			
Intermediate Casing	5817	1374	☐			8-3/4" hole. 7" 23 ppf, J-55, LTC Casing. Cement with 1346 cuft. Circulate cement to surface
POINT LOOKOUT	6024	1167	☐	661		GAS
MANCOS	6487	704	☐			
UPPER GALLUP	7144	47	☐			
GREENHORN	7974	-783	☐			
GRANEROS	8033	-842	☐			
TWO WELLS	8055	-864	☐	2590		Gas
PAGUATE	8089	-898	☐			
UPPER CUBERO	8189	-998	☐			
LOWER CUBERO	8225	-1034	☐			Est. Btm Perf - 8253 (-1064) based on offset wells

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

JICARILLA E 15F

DEVELOPMENT

OAK CANYON	8257	-1066	☐	TD - T/ENCN 6-1/4" hole. 4-1/2", 11.6 L-80/ J-55 LTC casing. Cement with 352 cuft. Circulate cement a minimum of 100' inside the previous casing string..
ENCINAL	8297	-1106	☐	
Total Depth	8297	-1106	☐	
BURRO CANYON	8327	-1136	☐	
MORRISON	8371	-1180	☐	

Reference Wells:

Reference Type	Well Name	Comments
Production	Jicarilla Apache 14E	26N 4W 9 NE SW SW
Production	Jicarilla E 15E	26N 4W 16 NE NW
Production	Northwest 4E	26N 4W 8 SW NE SE
Production	Jicarilla H ST 9	26N 4W 17 SW NE NE
Production	Jicarilla H 12	26N 4W 17 NE NE NE

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 Company: ConocoPhillips SJB Project: San Juan Basin - New Mexico Wells Site: Other Named Wells Well: Jicanilla E #15F Wellbore: Principal Wellbore Design: Plan #1	Local Co-ordinate Reference: Well Jicanilla E #15F TVD Reference: RKB @ 7191.0ft (Original Well Elev) MD Reference: RKB @ 7191.0ft (Original Well Elev) North Reference: True Survey Calculation Method: Minimum Curvature	
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Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,477.3	8,297.0	Encinal		0.00		
5,713.3	5,534.0	Massive Cliff House		0.00		
8,213.3	8,033.0	Graneros		0.00		
8,405.3	8,225.0	Lower Cubero		0.00		
2,249.4	2,237.0	Nacimiento		0.00		
4,069.7	3,966.0	Lewis		0.00		
8,154.3	7,974.0	Greenhorn		0.00		
5,696.1	5,517.0	Upper Cliff House		0.00		
8,507.3	8,327.0	Burro Canyon		0.00		
6,667.3	6,487.0	Mancos		0.00		
3,602.2	3,522.0	Fruitland Coal		0.00		
4,960.6	4,812.0	Chacra		0.00		
8,235.3	8,055.0	Two Wells		0.00		
8,269.3	8,089.0	Paguate		0.00		
3,380.1	3,311.0	Ojo Alamo		0.00		
4,452.0	4,329.0	Huerfanto Bentonite		0.00		
3,970.8	3,872.0	Pictured Cliffs		0.00		
8,551.3	8,371.0	Morrison		0.00		
6,204.3	6,024.0	Massive Point Lookout		0.00		
7,324.3	7,144.0	Upper Gallup		0.00		
5,847.2	5,667.0	Menefee		0.00		
8,437.3	8,257.0	Oak Canyon		0.00		
8,369.3	8,189.0	Upper Cubero		0.00		
3,504.3	3,429.0	Kirtland		0.00		

REFERENCE INFORMATION

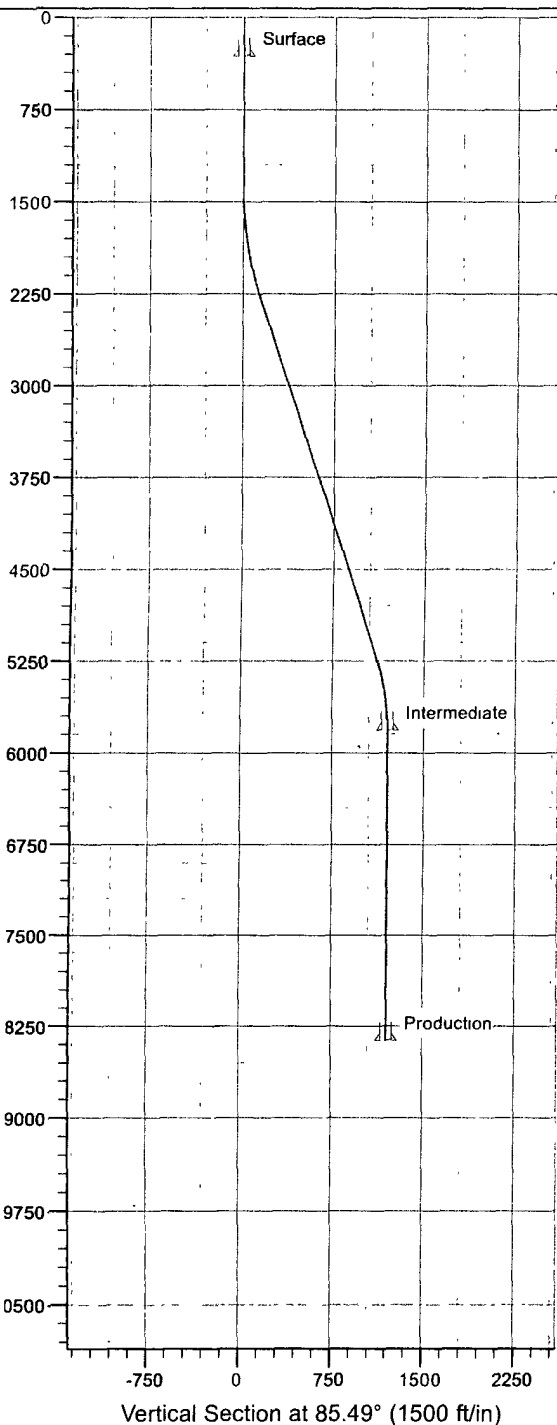
RKB @ 7191.0ft (Original Well Elev)
Ground Elevation 7175.0
Reference Lat: 36° 29' 31.038 N
Reference Long: 107° 16' 0.588 W

Project: San Juan Basin - New Mexico Wells
Site: Other Named Wells
Well: Jicarilla E #15F
Wellbore: Principal Wellbore
Design: Plan #1



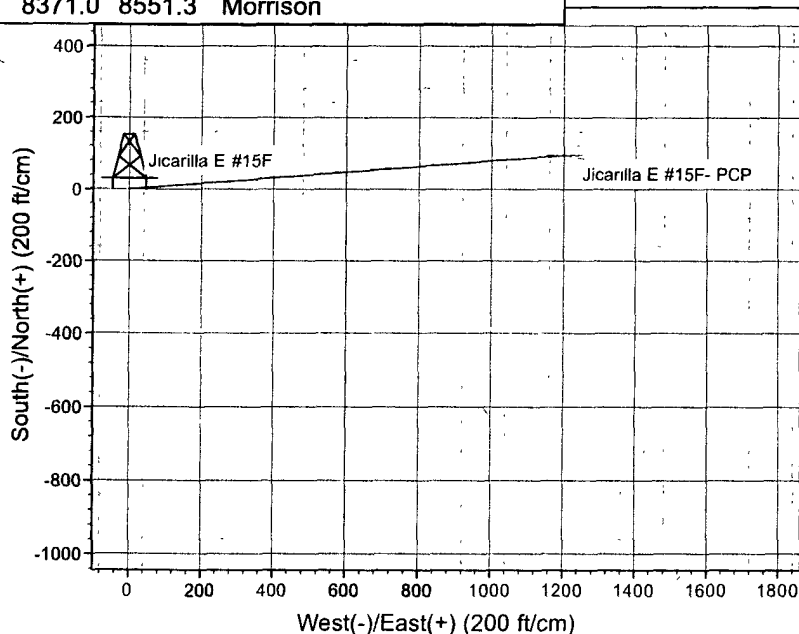
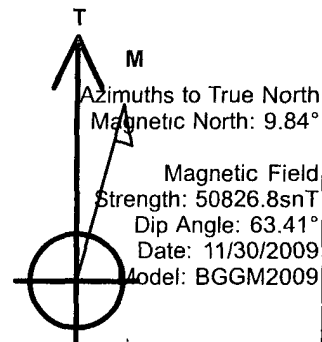
SECTION DETAILS

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	1400.0	0.00	0.00	1400.0	0.0	0.0	0.00	0.00	0.0	
3	2312.5	18.25	85.49	2297.1	11.3	143.7	2.00	85.49	144.1	
4	5389.0	18.25	85.49	5218.9	87.1	1104.1	0.00	0.00	1107.6	
5	5997.3	0.00	0.00	5817.0	94.7	1199.9	3.00	180.00	1203.6	Jicarilla E #15F - ICP
6	8551.3	0.00	0.00	8371.0	94.7	1199.9	0.00	0.00	1203.6	Jicarilla E #15F- PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
2237.0	2249.4	Nacimiento
3311.0	3380.1	Ojo Alamo
3429.0	3504.3	Kirtland
3522.0	3602.2	Fruitland Coal
3872.0	3970.8	Pictured Cliffs
3966.0	4069.7	Lewis
4329.0	4452.0	Huerfano Bentonite
4812.0	4960.6	Chacra
5517.0	5696.1	Upper Cliff House
5534.0	5713.3	Massive Cliff House
5667.0	5847.2	Menefee
6024.0	6204.3	Massive Point Lookout
6487.0	6667.3	Mancos
7144.0	7324.3	Upper Gallup
7974.0	8154.3	Greenhorn
8033.0	8213.3	Graneros
8055.0	8235.3	Two Wells
8089.0	8269.3	Paguate
8189.0	8369.3	Upper Cubero
8225.0	8405.3	Lower Cubero
8257.0	8437.3	Oak Canyon
8297.0	8477.3	Encinal
8327.0	8507.3	Burro Canyon
8371.0	8551.3	Morrison



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

To:

ConocoPhillips Company

JICARILLA E #15F

805' FNL & 490' FEL,

Section 17, T26N, R4W, N.M.P.M., Rio Arriba County,

New Mexico

Latitude: 36 ° 29' 31.075" N

Longitude: 107 ° 16' 02.747" 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 28.1 miles,
Turn left (west) on J-6 road 2.6 miles,
Turn right (north) 0.3 miles,
Turn left @ y-intersection (northwest) 0.4 miles,
Stay left (west) 0.2 miles,
Stay left (southwest) 0.6 miles to top of hill,
Continue (north) 0.2,
turn left (southwest) 1.1 miles,
Turn right (west) 100' to newly staked location twinned on
existing well pad, Jicarilla 103 #12.