

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK MAY 11 2010

1a. Type of Work DRILL	5. Lease Number SF-078439 Farmington Field Office Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator BURLINGTON RESOURCES Oil & Gas Company, LP	7. Unit Agreement Name RCVD JUN 14 '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 Johnston Federal 9. Well Number 9F	
4. Location of Well Surface: Unit B(NWNE), 749' FNL & 1453' FEL Bottomhole: Unit G(SWNE), 2100' FNL & 1930' FEL Surface: Latitude: 36.859775° N (NAD83) <u>Lot 2</u> Longitude: 107.746253° W Bottomhole: Latitude: 36.856083° N (NAD83) Longitude: 107.747915° W	10. Field, Pool, Wildcat Basin Dakota 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 35, T31N, R9W API # 30-045- <u>35152</u>	
14. Distance in Miles from Nearest Town 21 miles / Aztec	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 749'		
16. Acres in Lease 2,434.230	17. Acres Assigned to Well 315.92 E/2 - DK	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 72' from Johnston Federal 9M (MV/DK)		
19. Proposed Depth 7386'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 5975' 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)	Date <u>5/11/2010</u>	

PERMIT NO.

APPROVAL DATE

APPROVED BY D. Manley

TITLE AFM

DATE 6/10/2010

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 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

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

NMOCD
Hold C-104

for Directional Survey
and "As Drilled" plat

PRIOR TO CASING & CEMENT

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

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
Submit to Appropriate District Office
State Lease - 7 Copies
Fee Lease - 3 Copies
MAY 11 2010

Bureau of Land Management
Farmington Field Office
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

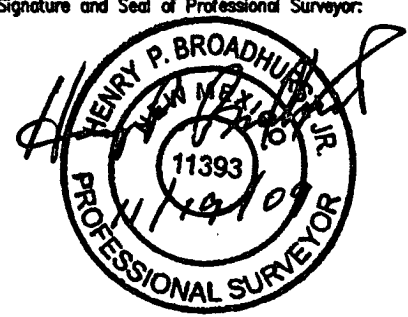
¹ API Number 30-045-35152		² Pool Code 71599	³ Pool Name BASIN DAKOTA
⁴ Property Code 7208	⁵ Property Name JOHNSTON FEDERAL		⁶ Well Number 9F
⁷ OGRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP		⁹ Elevation 5975

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	35	31-N	9-W		749	NORTH	1453	EAST	SAN JUAN

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	35	31-N	9-W		2100	NORTH	1930	EAST	SAN JUAN

¹² Dedicated Acres 315.92 (E/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 LOT 4 LOT 3 WELL FLAG NAD 83 LAT: 36.859775° N LONG: 107.746253° W NAD 27 LAT: 36°51.586303' N LONG: 107°44.738244' W		BLM 1966 N 89°16'02" W N 89°13' W 749'		2609.9' (M) 2609.6' (R) BLM 1966		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, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature Crystal Tafuya Printed Name Regulatory Tech Title and E-mail Address February 12, 2010 Date
LOT 5 LOT 6 BOTTOM HOLE NAD 83 LAT: 36.856083° N LONG: 107.747915° W NAD 27 LAT: 36°51.364786' N LONG: 107°44.837960' W		LOT 2 2100' S 18°30'10" W 1429.3'		LOT 1 1453' 2627.5' E 2626.8'		
LOT 12 LOT 11		LOT 7 LOT 10		LOT 8 1930' 0°22' E 0°19'47" E		
LOT 13 LOT 14		LOT 15 E/2 DEDICATED ACREAGE USA SF-078439 SECTION 35, T-31-N, R-9-W		LOT 9 LOT 16		
BASIS OF BEARING IS THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, WEST ZONE, NAD83 AS DETERMINED BY GPS OBSERVATION AND NGS/OPUS SOLUTION.						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: 8/28/09 Signature and Seal of Professional Surveyor:  Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

JOHNSTON FEDERAL 9F

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9353				AFE \$: 1,086,521.98	
Field Name: SAN JUAN		Rig: XXX 2010 Holding		State: NM	County: SAN JUAN		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer:		Phone:		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
Location: Surface Datum Code NAD 27 Directional							
Latitude: 36.859771	Longitude: -107.745637	X:	Y:	Section: 35		Range: 009W	
Footage X: 1453 FEL	Footage Y: 749 FNL	Elevation: 5975 (FT)		Township: 031N			
Tolerance:							
Location: Bottom Hole Datum Code NAD 27 Directional							
Latitude: 36.856079	Longitude: -107.747299	X:	Y:	Section: 35		Range: 009W	
Footage X: 1930 FEL	Footage Y: 2100 FNL	Elevation:		(FT) Township: 031N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 5990 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	5790	☐			12-1/4 hole. 215' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 170 cuft. Circulate cement to surface.	
NACIMIENTO	244	5746	☐				
OJO ALAMO	1533	4457	☐				
KIRTLAND	1642	4348	☐				
FRUITLAND	2264	3726	☐			Possible Gas	
PICTURED CLIFFS	2808	3182	☐				
LEWIS	2946	3044	☐				
HUERFANITO BENTONITE	3514	2476	☐				
Intermediate Casing	3700	2290	☐		123	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 912 cuft. Circulate cement to surface.	
CHACRA	3863	2127	☐				
UPPER CLIFF HOUSE	4301	1689	☐			Gas; Est. Top Perf - 4303 (1687)	
MASSIVE CLIFF HOUSE	4585	1405	☐	131		Gas; Cliffhouse is dry	
MENEFEE	4653	1337	☐				
POINT LOOKOUT	5023	967	☐				
MANCOS	5353	637	☐				
UPPER GALLUP	6319	-329	☐				
GREENHORN	7044	-1054	☐				
GRANEROS	7096	-1106	☐				
TWO WELLS	7156	-1166	☐	3090		Gas	
PAGUATE	7232	-1242	☐				
UPPER CUBERO	7274	-1284	☐				
LOWER CUBERO	7292	-1302	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

JOHNSTON FEDERAL 9F

DEVELOPMENT

ENCINAL	7346	-1356	☐		TD - 40' below T/ENCN; Est. Btm Perf - 7366 (-1376) based on offset wells
Total Depth	7386	-1396	☐	221	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 503 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	Hunsaker 2M	31N 9W 26 NE SW SE
Production	Johnston Federal 6E	31N 9W 35 NW NE SW
Production	Johnston Federal 6B	31N 9W 35 SE NW NW
Production	Johnston Federal 30	31N 9W 35 NE SW 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 Johnston Federal #9F
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 5990 0ft (AWS Rig Elevation)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 5990 0ft (AWS Rig Elevation)
Site:	Other Named Wells	North Reference:	True
Well:	Johnston Federal #9F	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Formations:						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
5,376.1	5,023.0	Pioint Lookout		0.00		
7,585.1	7,232.0	Paguate		0.00		
1,623.7	1,533.0	Ojo Alamo		0.00		
5,706.1	5,353.0	Mancos		0.00		
4,216.1	3,863.0	Chacra		0.00		
6,672.1	6,319.0	Upper Gallup		0.00		
5,006.1	4,653.0	Menefee		0.00		
3,278.0	2,946.0	Lewis		0.00		
7,627.1	7,274.0	Upper Cubero		0.00		
1,752.3	1,642.0	Kirtland		0.00		
7,699.1	7,346.0	Encinal		0.00		
3,866.8	3,514.0	Huerfano Bentonite		0.00		
244.0	244.0	Nacimiento		0.00		
7,397.1	7,044.0	Greenhorn		0.00		
2,486.2	2,264.0	Fruitland Coal		0.00		
4,654.1	4,301.0	Upper Cliff House		0.00		
4,938.1	4,585.0	Massive Cliff House		0.00		
7,509.1	7,156.0	Two Wells		0.00		
7,449.1	7,096.0	Graneros		0.00		
3,125.0	2,808.0	Pictured Cliffs		0.00		
7,645.1	7,292.0	Lower Cubero		0.00		

REFERENCE INFORMATION

RKB @ 5990.0ft (AWS Rig Elevation)
Ground Elevation 5975.0
Reference Lat: 36° 51' 35.178 N
Reference Long: 107° 44' 44.295 W

Project: San Juan Basin - New Mexico Wells

Site: Other Named Wells

Well: Johnston Federal #9F

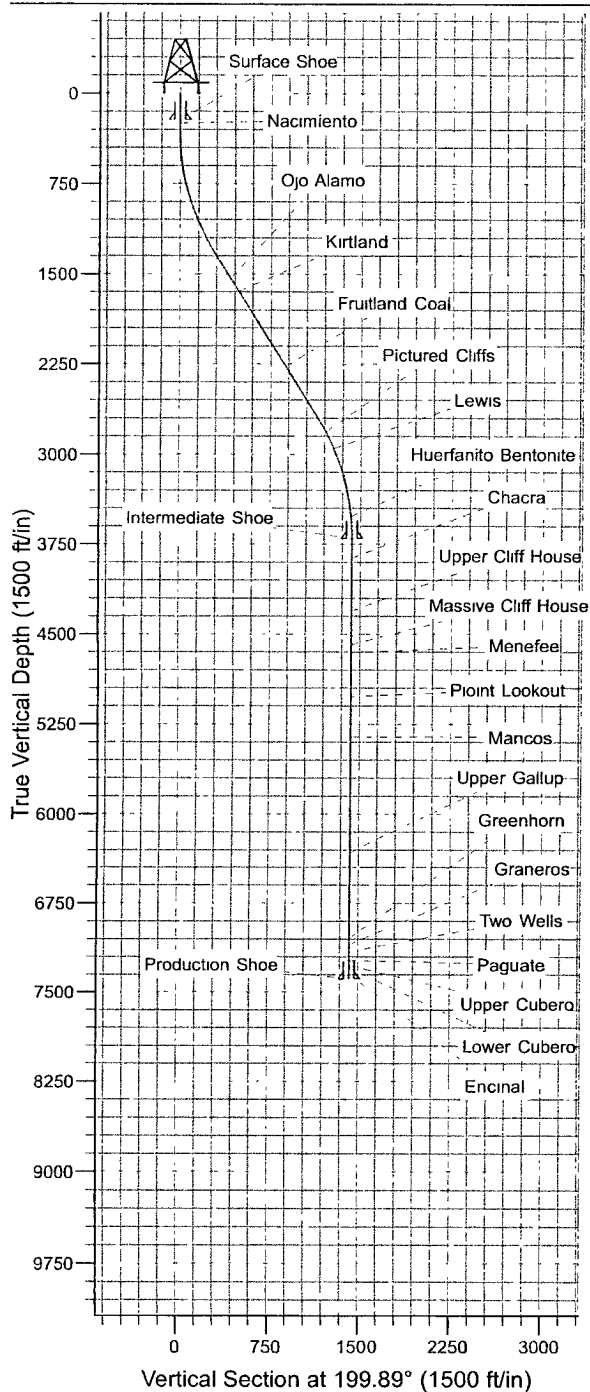
Wellbore: Original Hole

Design: Plan #1

ConocoPhillips

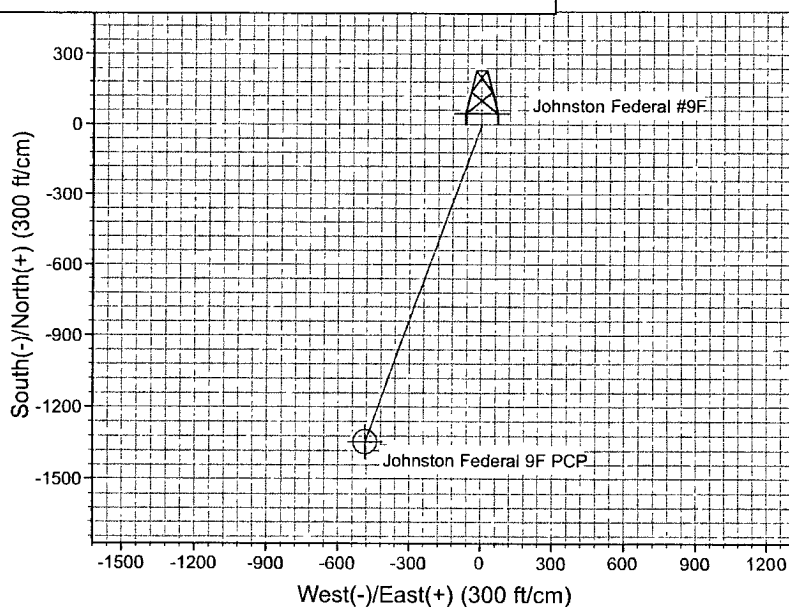
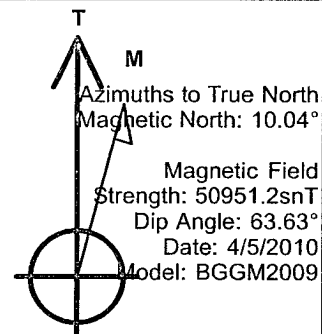
SECTION DETAILS

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	320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.0	
3	1388.5	32.05	199.89	1333.6	-273.8	-99.0	3.00	199.89	291.2	
4	2984.6	32.05	199.89	2686.4	-1070.4	-387.2	0.00	0.00	1138.3	
5	4053.1	0.00	0.00	3700.0	-1344.2	-486.3	3.00	180.00	1429.4	Johnston Federal 9F ICP
6	7739.1	0.00	0.00	7386.0	-1344.2	-486.3	0.00	0.00	1429.4	Johnston Federal 9F PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
244.0	244.0	Nacimiento
1533.0	1623.7	Ojo Alamo
1642.0	1752.3	Kirtland
2264.0	2486.2	Fruitland Coal
2808.0	3125.0	Pictured Cliffs
2946.0	3278.0	Lewis
3514.0	3866.8	Huerfanito Bentonite
3863.0	4216.1	Chacra
4301.0	4654.1	Upper Cliff House
4585.0	4938.1	Massive Cliff House
4653.0	5006.1	Menefee
5023.0	5376.1	Pioint Lookout
5353.0	5706.1	Mancos
6319.0	6672.1	Upper Gallup
7044.0	7397.1	Greenhorn
7096.0	7449.1	Graneros
7156.0	7509.1	Two Wells
7232.0	7585.1	Paguate
7274.0	7627.1	Upper Cubero
7292.0	7645.1	Lower Cubero
7346.0	7699.1	Encinal



BURLINGTON RESOURCES OIL & GAS COMPANY LP

**JOHNSTON FEDERAL 9F
749' FNL, 1453' FEL
SECTION 35, T-31-N, R-9-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
NAD 83 LAT.: 36.859775°N LONG.: 107.746253°W
ELEV.: 5975 NAVD88
NEW ACCESS 70.1'**

FROM THE INTERSECTION OF HWY 550 & HWY 516 IN AZTEC, N.M.:

- **GO NORTH 1.1 MI.ON HWY 550 TO HWY 173 INTERESECTION, TURN RIGHT**
- **GO EAST 15.4 MI. TO C.R. 4600. TURN LEFT**
- **GO 2.4 MI.NORTH ON C.R. 4600 TO Y-INT. TURN LEFT.**
- **GO 2.7 MI. WEST AND NORTH ALONG THE EAST SIDE OF PUMP CANYON. TURN LEFT**
- **GO 0.5 MI.WEST, CROSSING PUMP CANYON. TURN RIGHT**
- **GO 0.4 MI. NORTH. BEGIN NEW 70.1' ACCESS ON RIGHT SIDE, 240 FEET SOUTH OF A LINE DRIP TANK SITE.**