

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

OCT 06 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office

1a. Type of Work DRILL	5. Lease Number SF-079265 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
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name Klein 9. Well Number 24P DIST. 3
4. Location of Well Surface: Unit N(SESW), 1253' FSL & 1952' FWL BHL : Unit J(NWSE), 1380' FSL & 2255' FEL Surface: Latitude: 36.43899° N (NAD83) Longitude: 107.45715° W Surface: Latitude: 36.43937° N (NAD83) Longitude: 107.45345° W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 34, T26N, R6W API# 30-039- 31094
14. Distance in Miles from Nearest Town 35 miles to Blanco	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1380'	
16. Acres in Lease 2242.480	17. Acres Assigned to Well 320.0 Acres (S/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 500' to Klein 12 - CH	
19. Proposed Depth 7446'	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6729' 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)	<u>10/5/11</u> Date

Hold C104
for Directional Survey
and "As Drilled" plat



H₂S POTENTIAL EXIST

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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 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".

Hold C104
for Directional Survey
and "As Drilled" plat

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

JAN 13 2012 ea

NMOCDA

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENTING

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

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised July 10, 2010

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

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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate
District Office

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31094	² Pool Code 71599/72319	³ Pool Name BASIN DAKOTA/BLANCO MESAVERDE
⁴ Property Code 7228	⁵ Property Name KLEIN	⁶ Well Number 24 P
⁷ GRID No. 14538	⁸ Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY LP	⁹ Elevation 6729'

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
N	34	26N	6W		1253'	SOUTH	1952'	WEST	RIO ARriba

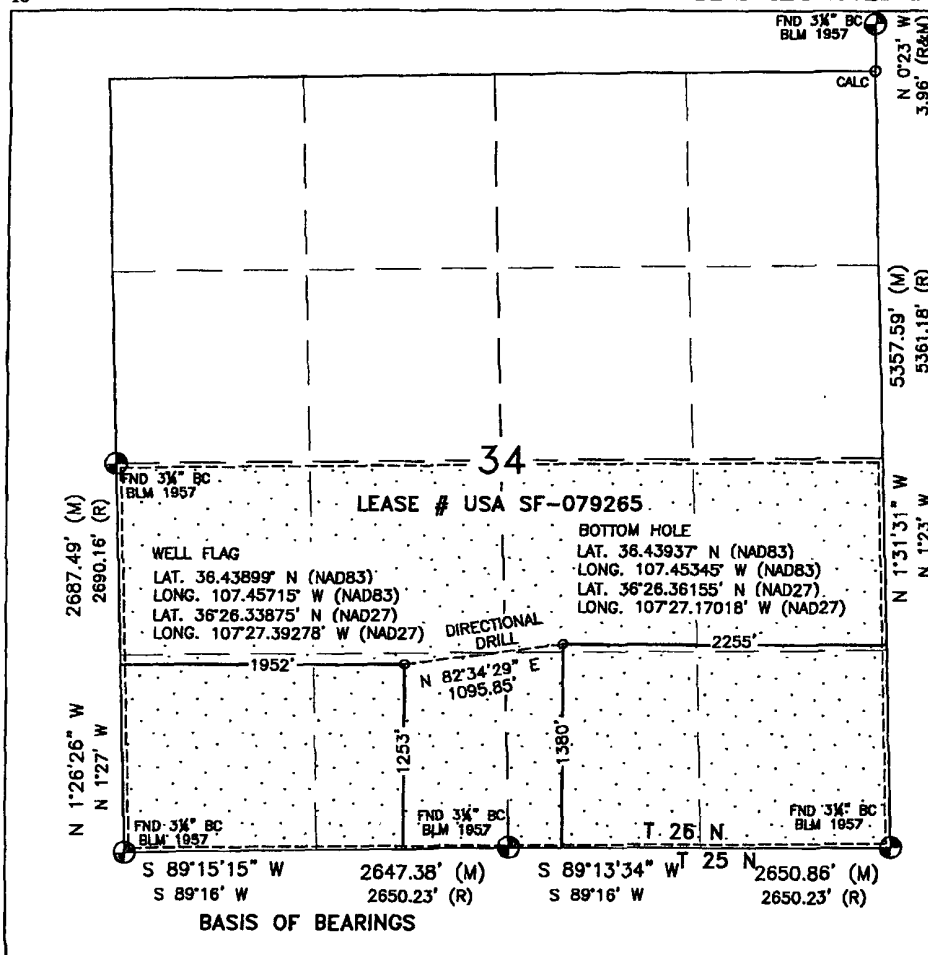
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	34	26N	6W		1380'	SOUTH	2255'	EAST	RIO ARriba

¹² Dedicated Acres 320.0 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, or to a voluntary voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Arleen R. Kellywood

Signature Date

Arleen R. Kellywood

Printed Name

E-mail Address

18 SURVEYOR CERTIFICATION

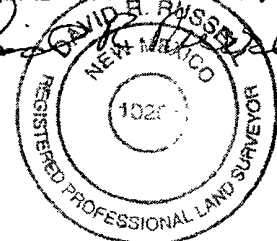
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

APRIL 27, 2011

Date of Survey

Signature and Seal of Professional Surveyor:

David Russell



DAVID RUSSELL

Certificate Number

10201

PROJECT PROPOSAL - New Drill / Sidetrack **OCT 18 2011** **San Juan Business Unit**

KLEIN 24P

DEVELOPMENT Office
Bureau of Land Management

Lease:		AFE #: WAN.CDR.1021		AFE \$:	
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				
FRR	BASIN DAKOTA (PRORATED GAS)				
RON	BLANCO MESAVERDE (PRORATED GAS)				

Location: Surface		Datum Code: NAD 27		Directional	
Latitude: 36.438979	Longitude: -107.456546	X:	Y:	Section: 34	Range: 006W
Footage X: 1952 FWL	Footage Y: 1253 FSL	Elevation: 6729	(FT)	Township: 026N	

Tolerance:

Location: Bottom Hole		Datum Code: NAD 27		Directional	
Latitude: 36.439359	Longitude: -107.452846	X:	Y:	Section: 34	Range: 006W
Footage X: 2255 FEL	Footage Y: 1380 FSL	Elevation:	(FT)	Township: 026N	

Tolerance:

Location Type: Year Round	Start Date (Est.): 1/1/2013	Completion Date:	Date In Operation:
Formation Data: Assume KB = 6744 Units = FT			

Formation Call & Casing Points	Depth - (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
SAN JOSE	15	6729		☐			Ground water @ md: 110', ss: 6563' in Klein 24M (26n 6w 34).
Surface Casing	200	6544	200	☐		45	12-1/4 hole. 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 125 cuft. Circulate cement to surface.
OJO ALAMO	2260	4484		☐			
KIRTLAND	2427	4317		☐			
FRUITLAND	2492	4252		☐		89	Possible Gas
PICTURED CLIFFS	2903	3841		☐	148		
LEWIS	3002	3742		☐			
HUERFANITO BENTONITE	3316	3428		☐			
CHACRA	3770	2974		☐		113	
UPPER CLIFF HOUSE	4335	2409		☐			Gas
MASSIVE CLIFF HOUSE	4565	2179		☐	663		Gas
MENEFEE	4587	2157		☐			
Intermediate Casing	4740	2004	4940	☐		128	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1103 cuft. Circulate cement to surface.
POINT LOOKOUT	5149	1595		☐			
MANCOS	5467	1277		☐			
UPPER GALLUP	6187	557		☐		158	
GREENHORN	7073	-329		☐			
GRANEROS	7126	-382		☐			
TWO WELLS	7183	-439		☐	2925	177	Gas
PAGUATE	7224	-480		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

KLEIN 24P

DEVELOPMENT

UPPER CUBERO	7257	-513	☐	Gas
LOWER CUBERO	7303	-559	☐	180 Gas
OAK CANYON	7366	-622	☐	
ENCINAL	7376	-632	☐	Gas - Bottom perf ~-682' (~169' below top CBRO) base on offset well.
Total Depth	7446	-702	7646 ☐	181 6-1/4" hole, 4-1/2" 10.5/11.6 ppf, J-55, STC/LTC casing. Cement w/ 345 cuft. Circulate cement a minimum of 100' inside the previous casing string.
MORRISON	7455	-711	☐	Got wet in Johnston A Com G 17M (26n 6w 36).

Reference Wells:

Reference Type	Well Name	Comments
Production	KLEIN 24M	

Logging Program:

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

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

GR CBL
Mud log ~100' above the Gallup down to TD.
Mudlogger will call TD.
Bottom perf ~20' above 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 Klein 24P
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6744.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	RKB @ 6744.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Klein 24P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Klein 24P		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico Central 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 Central 3002		Using geodetic scale factor

Site:	Other Named Wells				
Site Position:		Northing:	1,995,375.60 ft	Latitude:	36° 28' 35.436 N
From:	Lat/Long	Easting:	107,943.61 ft	Longitude:	107° 35' 0.564 W
Position Uncertainty:	3.5 ft	Slot Radius:	6-1/8"	Grid Convergence:	-0.79 "

Well	Klein 24P, MV/DK S Curve, Short					
Well Position	+N-S	0 0 ft	Northing:	1,981,220 78 ft	Latitude:	36° 26' 20.325 N
	+E-W	0 0 ft	Easting:	145,096 76 ft	Longitude:	107° 27' 23.567 W
Position Uncertainty		3 0 ft	Wellhead Elevation:	ft	Ground Level:	6,729 0 ft

Wellbore:	Klein 24P				
Magnetics:	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2011	7/26/2011	9.71	63.26	50,571

Design:	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0.0	0.0	82.77

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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,364.3	23.29	82.77	2,332.5	29.3	231.5	2.00	2.00	0.00	82.77	
4,163.3	23.29	82.77	3,985.0	118.8	937.0	0.00	0.00	0.00	0.00	
4,939.5	0.00	0.00	4,740.0	138.4	1,091.4	3.00	-3.00	0.00	180.00	Klein 24P ICP
7,645.5	0.00	0.00	7,446.0	138.4	1,091.4	0.00	0.00	0.00	0.00	Klein 24P PCP

ConocoPhillips or its affiliates

Planning Report

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Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	RKB @ 6744 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Klein 24P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Klein 24P		
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	
230 0	0 00	0 00	230 0	0 0	0 0	0 0	0 00	0 00	0 00	
Surface										
300 0	0 00	0 00	300 0	0 0	0 0	0 0	0 00	0 00	0 00	
400 0	0 00	0 00	400 0	0 0	0 0	0 0	0 00	0 00	0 00	
500 0	0 00	0 00	500 0	0 0	0 0	0 0	0 00	0 00	0 00	
600 0	0 00	0 00	600 0	0 0	0 0	0 0	0 00	0 00	0 00	
700 0	0 00	0 00	700 0	0 0	0 0	0 0	0 00	0 00	0 00	
800 0	0 00	0 00	800 0	0 0	0 0	0 0	0 00	0 00	0 00	
900 0	0 00	0 00	900 0	0 0	0 0	0 0	0 00	0 00	0 00	
994 0	0 00	0 00	994 0	0 0	0 0	0 0	0 00	0 00	0 00	
Nacimiento										
1,000 0	0 00	0 00	1,000 0	0 0	0 0	0 0	0 00	0 00	0 00	
1,100 0	0 00	0 00	1,100 0	0 0	0 0	0 0	0 00	0 00	0 00	
1,200 0	0 00	0 00	1,200 0	0 0	0 0	0 0	0 00	0 00	0 00	
1,300 0	2 00	82 77	1,300 0	0 2	1 7	1 7	2 00	2 00	0 00	
1,400 0	4 00	82 77	1,399 8	0 9	6 9	7 0	2 00	2 00	0 00	
1,500 0	6 00	82 77	1,499 5	2 0	15 6	15 7	2 00	2 00	0 00	
1,600 0	8 00	82 77	1,598 7	3 5	27 7	27 9	2 00	2 00	0 00	
1,700 0	10 00	82 77	1,697 5	5 5	43 2	43 5	2 00	2 00	0 00	
1,800 0	12 00	82 77	1,795 6	7 9	62 1	62 6	2 00	2 00	0 00	
1,900 0	14 00	82 77	1,893 1	10 7	84 4	85 1	2 00	2 00	0 00	
2,000 0	16 00	82 77	1,989 6	14 0	110 1	111 0	2 00	2 00	0 00	
2,100 0	18 00	82 77	2,085 3	17 6	139 1	140 2	2 00	2 00	0 00	
2,200 0	20 00	82 77	2,179 8	21 7	171 4	172 8	2 00	2 00	0 00	
2,285 8	21 72	82 77	2,260 0	25 6	201 7	203 3	2 00	2 00	0 00	
Ojo Alamo										
2,300 0	22 00	82 77	2,273 2	26 2	206 9	208 6	2 00	2 00	0 00	
2,364 3	23 29	82 77	2,332 5	29 3	231 5	233 3	2 00	2 00	0 00	
2,400 0	23 29	82 77	2,365 3	31 1	245 5	247 5	0 00	0 00	0 00	
2,467 2	23 29	82 77	2,427 0	34 5	271 8	274 0	0 00	0 00	0 00	
Kirtland										
2,500 0	23 29	82 77	2,457 2	36 1	284 7	287 0	0 00	0 00	0 00	
2,537 9	23 29	82 77	2,492 0	38 0	299 6	302 0	0 00	0 00	0 00	
Fruitland										
2,600 0	23 29	82 77	2,549 0	41 1	323 9	326 5	0 00	0 00	0 00	
2,700 0	23 29	82 77	2,640 9	46 0	363 2	366 1	0 00	0 00	0 00	
2,800 0	23 29	82 77	2,732 7	51 0	402 4	405 6	0 00	0 00	0 00	
2,900 0	23 29	82 77	2,824 6	56 0	441 6	445 1	0 00	0 00	0 00	
2,985 4	23 29	82 77	2,903 0	60 2	475 1	478 9	0 00	0 00	0 00	
Pictured Cliffs										
3,000 0	23 29	82 77	2,916 4	61 0	480 8	484 7	0 00	0 00	0 00	
3,093 2	23 29	82 77	3,002 0	65 6	517 3	521 5	0 00	0 00	0 00	
Lewis										
3,100 0	23 29	82 77	3,008 3	65 9	520 0	524 2	0 00	0 00	0 00	
3,200 0	23 29	82 77	3,100 1	70 9	559 2	563 7	0 00	0 00	0 00	
3,300 0	23 29	82 77	3,192 0	75 9	598 5	603 3	0 00	0 00	0 00	
3,400 0	23 29	82 77	3,283 8	80 8	637 7	642 8	0 00	0 00	0 00	
3,435 0	23 29	82 77	3,316 0	82 6	651 4	656 6	0 00	0 00	0 00	
HB										
3,500 0	23 29	82 77	3,375 7	85 8	676 9	682 3	0 00	0 00	0 00	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Klein 24P
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6744.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	RKB @ 6744.0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Klein 24P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Klein 24P		
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)
3,600.0	23.29	82.77	3,467.6	90.8	716.1	721.8	0.00	0.00	0.00
3,700.0	23.29	82.77	3,559.4	95.8	755.3	761.4	0.00	0.00	0.00
3,800.0	23.29	82.77	3,651.3	100.7	794.5	800.9	0.00	0.00	0.00
3,900.0	23.29	82.77	3,743.1	105.7	833.8	840.4	0.00	0.00	0.00
3,929.3	23.29	82.77	3,770.0	107.2	845.2	852.0	0.00	0.00	0.00
Chacra									
4,000.0	23.29	82.77	3,835.0	110.7	873.0	880.0	0.00	0.00	0.00
4,100.0	23.29	82.77	3,926.8	115.6	912.2	919.5	0.00	0.00	0.00
4,163.3	23.29	82.77	3,985.0	118.8	937.0	944.5	0.00	0.00	0.00
4,200.0	22.19	82.77	4,018.8	120.6	951.1	958.7	3.00	-3.00	0.00
4,300.0	19.19	82.77	4,112.4	125.0	986.1	994.0	3.00	-3.00	0.00
4,400.0	16.19	82.77	4,207.6	128.8	1,016.3	1,024.4	3.00	-3.00	0.00
4,500.0	13.19	82.77	4,304.4	132.0	1,041.4	1,049.8	3.00	-3.00	0.00
4,531.4	12.24	82.77	4,335.0	132.9	1,048.3	1,056.7	3.00	-3.00	0.00
Upper Cliff House									
4,600.0	10.19	82.77	4,402.3	134.6	1,061.5	1,070.0	3.00	-3.00	0.00
4,700.0	7.19	82.77	4,501.1	136.5	1,076.5	1,085.1	3.00	-3.00	0.00
4,764.3	5.26	82.77	4,565.0	137.4	1,083.4	1,092.1	3.00	-3.00	0.00
Massive Cliff House									
4,786.4	4.59	82.77	4,587.0	137.6	1,085.3	1,094.0	3.00	-3.00	0.00
Menefee									
4,800.0	4.19	82.77	4,600.6	137.7	1,086.3	1,095.0	3.00	-3.00	0.00
4,900.0	1.19	82.77	4,700.5	138.3	1,091.0	1,099.7	3.00	-3.00	0.00
4,939.5	0.00	0.00	4,740.0	138.4	1,091.4	1,100.1	3.00	-3.00	-209.46
Intermediate - Klein 24P ICP									
5,000.0	0.00	0.00	4,800.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
5,100.0	0.00	0.00	4,900.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
5,200.0	0.00	0.00	5,000.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
5,300.0	0.00	0.00	5,100.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
5,348.5	0.00	0.00	5,149.0	138.4	1,091.4	1,100.1	0.00	0.00	0.00
Point Lookout									
5,400.0	0.00	0.00	5,200.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,300.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,400.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
5,666.5	0.00	0.00	5,467.0	138.4	1,091.4	1,100.1	0.00	0.00	0.00
Mancos									
5,700.0	0.00	0.00	5,500.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,600.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,700.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,800.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
6,100.0	0.00	0.00	5,900.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,000.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,100.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
6,386.5	0.00	0.00	6,187.0	138.4	1,091.4	1,100.1	0.00	0.00	0.00
Upper Gallup									
6,400.0	0.00	0.00	6,200.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,300.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,400.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,500.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,600.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,700.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,800.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Klein 24P
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6744' 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	RKB @ 6744' 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Klein 24P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Klein 24P		
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)	
7,100.0	0.00	0.00	6,900.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,000.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
7,272.5	0.00	0.00	7,073.0	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
Greenhorn										
7,300.0	0.00	0.00	7,100.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
7,325.5	0.00	0.00	7,126.0	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
Graneros										
7,382.5	0.00	0.00	7,183.0	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
Two Wells										
7,400.0	0.00	0.00	7,200.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
7,423.5	0.00	0.00	7,224.0	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
Paguate										
7,456.5	0.00	0.00	7,257.0	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
Upper Cubero										
7,500.0	0.00	0.00	7,300.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
7,502.5	0.00	0.00	7,303.0	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
Lower Cubero										
7,575.5	0.00	0.00	7,376.0	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
Encinal										
7,600.0	0.00	0.00	7,400.5	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
7,645.5	0.00	0.00	7,446.0	138.4	1,091.4	1,100.1	0.00	0.00	0.00	
Production: Klein 24P PCP										

Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Klein 24P PCP	- plan hits target center - Point	0.00	0.00	7,446.0	138.4	1,091.4	1,981,345.52	146,189.85	36° 26' 21.693 N	107° 27' 10.210 W
Klein 24P ICP	- plan hits target center - Point	0.00	0.00	4,740.0	138.4	1,091.4	1,981,345.49	146,189.82	36° 26' 21.693 N	107° 27' 10.211 W

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
230.0	230.0	Surface	9-5/8	12-1/4	
4,939.5	4,740.0	Intermediate	7	8-3/4	
7,645.5	7,446.0	Production	4-1/2	6-1/2	

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well Klein 24P
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6744 0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Central Wells	MD Reference:	RKB @ 6744 0ft (Original Well Elev)
Site:	Other Named Wells	North Reference:	True
Well:	Klein 24P	Survey Calculation Method:	Minimum Curvature
Wellbore Design:	Klein 24P Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
6,386.5	6,187.0	Upper Gallup		0.00		
7,423.5	7,224.0	Paguate		0.00		
2,985.4	2,903.0	Pictured Cliffs		0.00		
3,093.2	3,002.0	Lewis		0.00		
2,467.2	2,427.0	Kirtland		0.00		
4,764.3	4,565.0	Massive Cliff House		0.00		
2,285.8	2,260.0	Ojo Alamo		0.00		
4,786.4	4,587.0	Menefee		0.00		
7,325.5	7,126.0	Graneros		0.00		
7,382.5	7,183.0	Two Wells		0.00		
3,435.0	3,316.0	HB		0.00		
7,272.5	7,073.0	Greenhorn		0.00		
7,456.5	7,257.0	Upper Cubero		0.00		
3,929.3	3,770.0	Chacra		0.00		
5,348.5	5,149.0	Point Lookout		0.00		
5,666.5	5,467.0	Mancos		0.00		
2,537.9	2,492.0	Fruitland		0.00		
7,575.5	7,376.0	Encinal		0.00		
7,502.5	7,303.0	Lower Cubero		0.00		
4,531.4	4,335.0	Upper Cliff House		0.00		
994.0	994.0	Nacimiento		0.00		

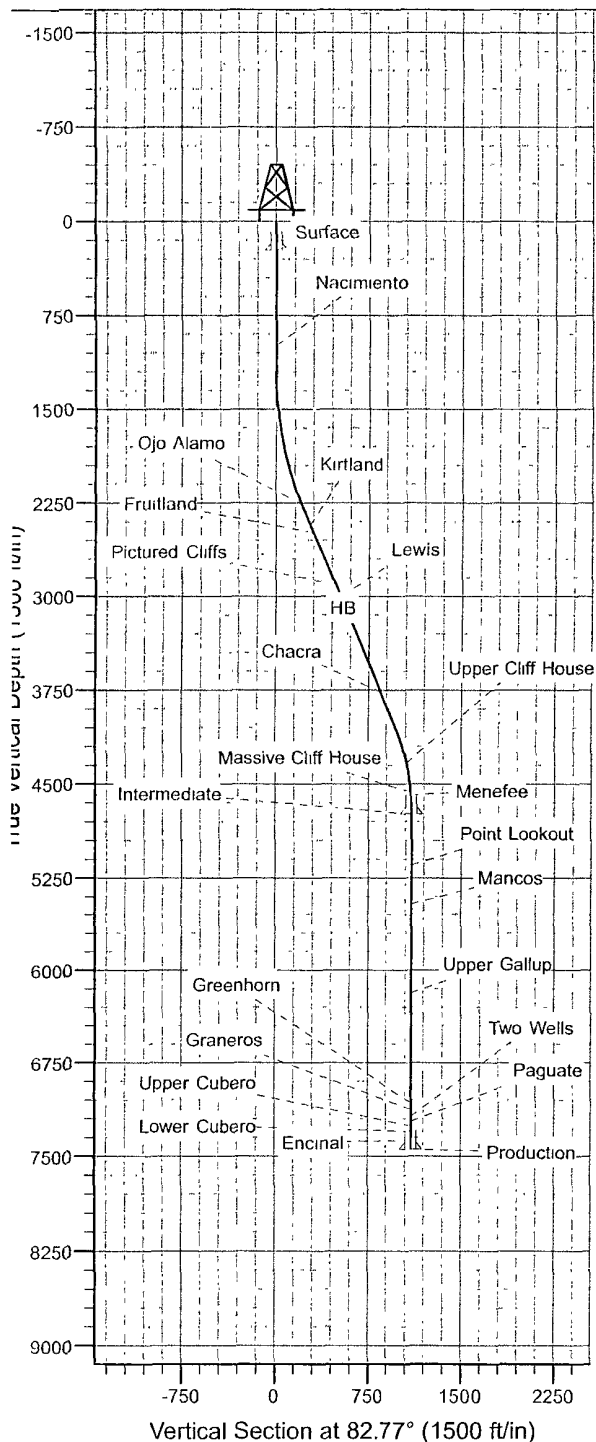
KB @ 6744.0ft (Original Well Elev)
 round Elevation 6729.0
 Reference Lat: 36° 26' 20.325 N
 Reference Long: 107° 27' 23.567 W

Site: Other Named Wells
 Well: Klein 24P
 Wellbore: Klein 24P
 Design: Plan #1

ConocoPhillips

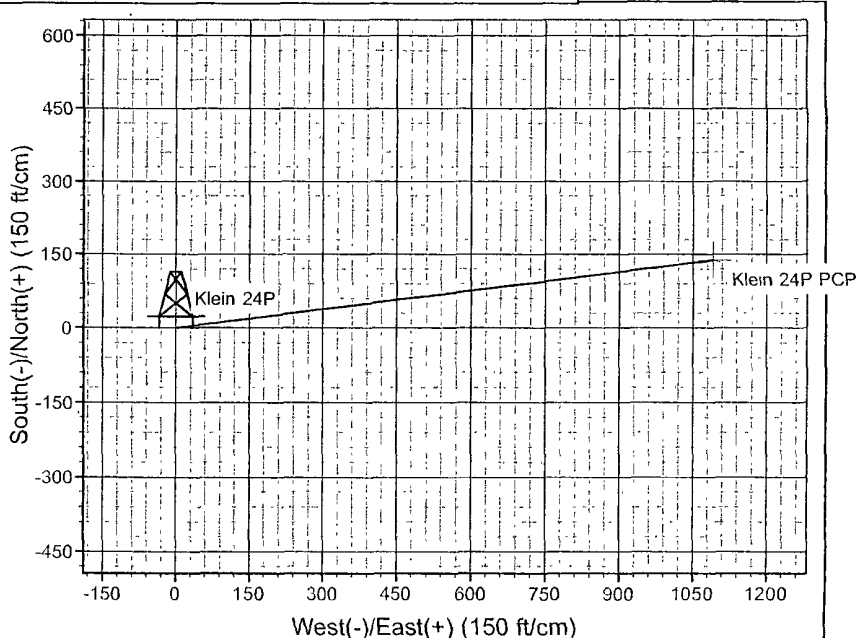
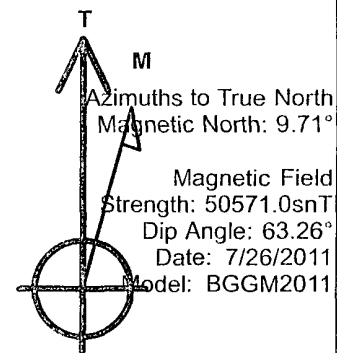
SECTION DETAILS

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	1200.0	0.00	0.00	1200.0	0.0	0.0	0.00	0.00	0.0	
3	2364.3	23.29	82.77	2332.5	29.3	231.5	2.00	82.77	233.3	
4	4163.3	23.29	82.77	3985.0	118.8	937.0	0.00	0.00	944.5	
5	4939.5	0.00	0.00	4740.0	138.4	1091.4	3.00	180.00	1100.1	Klein 24P ICP
6	7645.5	0.00	0.00	7446.0	138.4	1091.4	0.00	0.00	1100.1	Klein 24P PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
994.0	994.0	Nacimiento
2260.0	2285.8	Ojo Alamo
2427.0	2467.2	Kirtland
2492.0	2537.9	Fruitland
2903.0	2985.4	Pictured Cliffs
3002.0	3093.2	Lewis
3316.0	3435.0	HB
3770.0	3929.3	Chacra
4335.0	4531.4	Upper Cliff House
4565.0	4764.3	Massive Cliff House
4587.0	4786.4	Menefee
5149.0	5348.5	Point Lookout
5467.0	5666.5	Mancos
6187.0	6386.5	Upper Gallup
7073.0	7272.5	Greenhorn
7126.0	7325.5	Graneros
7183.0	7382.5	Two Wells
7224.0	7423.5	Paguate
7257.0	7456.5	Upper Cubero
7303.0	7502.5	Lower Cubero
7376.0	7575.5	Encinal



BURLINGTON RESOURCES OIL & GAS COMPANY LP

KLEIN #24 P

1253' FSL & 1952' FWL

LOCATED IN THE SE/4 SW/4 OF SECTION 34,
T26N, R6W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM BLANCO POST OFFICE, GO 1.3 MILES EAST ON HWY 64 TO CR 4450.
- 2) TURN RIGHT & TRAVEL 3.6 MILES TO INTERSECTION.
- 3) TURN RIGHT & CROSS BRIDGE, TRAVEL 21.8 MILES SOUTH ALONG LARGO CANYON TO OLD SCHOOL HOUSE.
- 4) TURN RIGHT & TRAVEL 2.5 MILES.
- 5) TURN LEFT & CROSS LARGO WASH & GO 2.9 MILES.
- 6) TURN RIGHT & TRAVEL 2.2 MILES TO TOP OF GONZALES MESA.
- 7) TURN LEFT & GO 0.35 MILES TO BEGIN ACCESS ON RIGHT, FOLLOW RED FLAGGING THROUGH PLUGGED & ABANDONED FOR $\pm 455'$ TO NEW WELL LOCATION.

WELL FLAG LOCATED AT LAT. 36.43899°N, LONG. 107.45715°W (NAD 83).

JOB No.: COPC435
DATE: 05/03/11



Russell Surveying
1409 W. Aztec Blvd. #2
Aztec, New Mexico 87410
(505) 334-8637