

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

MAR 04 2005

1a. Type of Work DRILL	5. Lease Number SF-078412 Bureau of Land Management Unit Reporting Number Farmington Field Office	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips	7. Unit Agreement Name NMNM-78415-A-MV NMNM-78415B-DK San Juan 29-5 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name RCVD AUG 15 '11 OIL CONS. DIV. DIST. 3	
4. Location of Well Surf: Unit J (NWSE), 438' FNL & 1441' FEL BHL: Unit O (SWSE), 870' FSL & 1500' FEL Surf: Latitude: 36.67363 N Longitude: 107.34246 W BHL: Latitude: 36.67721 N Longitude: 107.34087 W LOT 2	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Surf: Sec. 10, T28N, R5W BHL: Sec. 34, T29N, R5W API # 30-039-30702	
14. Distance in Miles from Nearest Town 33 miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 438'	17. Acres Assigned to Well 320.00 (E/2)	
16. Acres in Lease 200.000		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 408' from the San Juan 29-5 Unit 151 (MV)		
19. Proposed Depth 8200'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6778' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>James Gardenhire</u> James Gardenhire (Regulatory Technician)	3-4-09 Date	

Hold C104
for Directional Survey
and "As Drilled" plat

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

Archaeological Report attached

Threatened and Endangered Species Report attached

AUG 22 2011

NOTIFY AZTEC OCD 24-H.
PRIOR TO CASING & CEMENT

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

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

NMOCD

Hold C104

for Directional Survey
and "As Drilled" plat

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

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, N.M. 88240

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised October 12, 2005

DISTRICT II
1301 W. 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

OIL CONSERVATION DIVISION

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

RECEIVED

MAR 24 2008

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

☐ AMENDED REPORT

Bureau of Land Management
Farmington Field Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30702	*Pool Code 71599/72319	*Pool Name BASIN DAKOTA/BLANCO MESAVERDE
*Property Code 31325	*Property Name SAN JUAN 29-5 UNIT	*Well Number 88 M
*GRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY	*Elevation 6778'

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	10	28N	5W	2	438'	NORTH	1441'	EAST	RIO ARRIBA

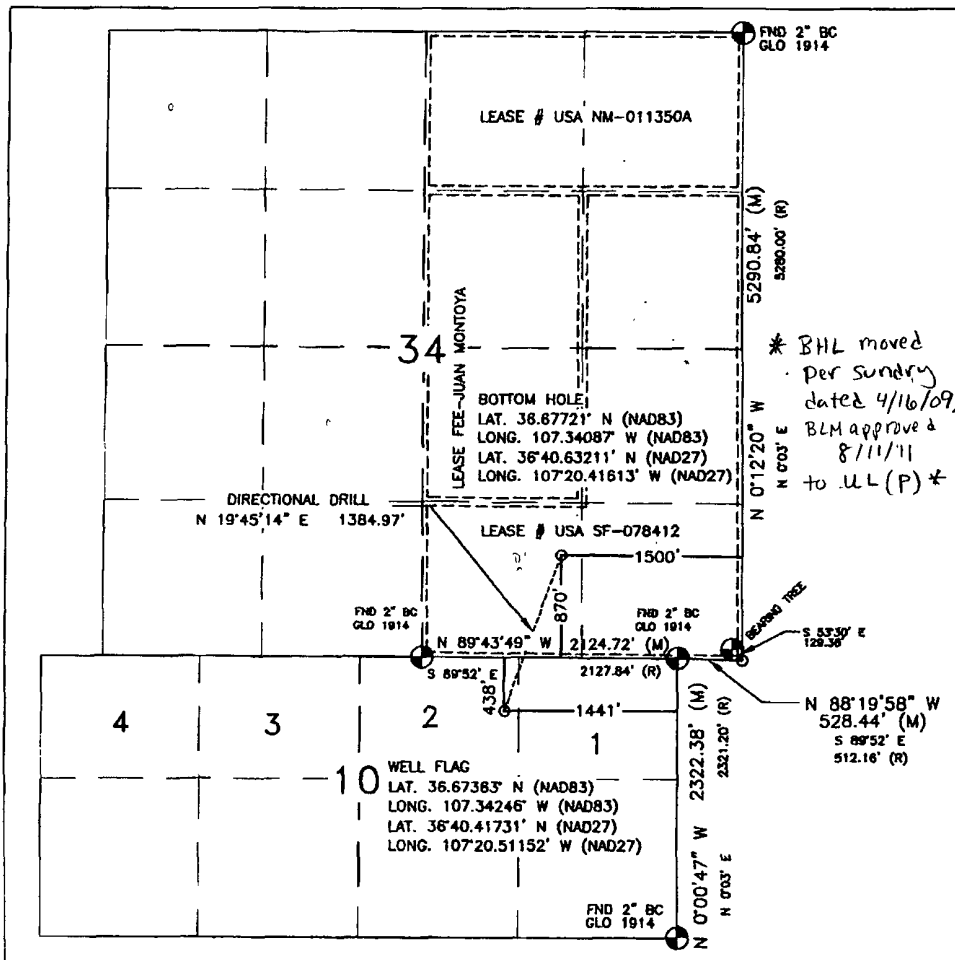
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	34	29N	5W		870'	SOUTH	1500'	EAST	RIO ARRIBA

*Dedicated Acres 320.00 Acres - (E/2)	*Joint or Infill	*Consolidation Code	*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 or a compulsory pooling order heretofore entered by the division.

Signature: Crystal Tafoya 7/16/08
Date

Printed Name: Crystal Tafoya 7-16-08

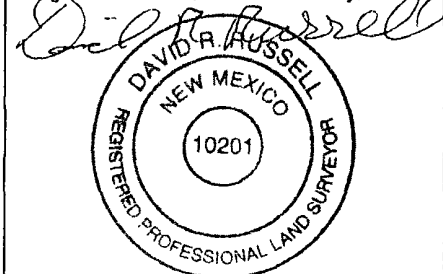
18 SURVEYOR CERTIFICATION

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.

JUNE 20, 2008

Date of Survey

Signature and Seal of Professional Surveyor:



DAVID RUSSELL

Certificate Number 10201

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

RECEIVED

APR 20 2009

Sundry Notices and Reports on Wells

Bureau of Land Management
Farmington Field Office1. Type of Well
GAS2. Name of Operator
ConocoPhillips Company3. Address & Phone No. of Operator
PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

Surface: Unit J (NWSE) 438' FNL & 1441' FEL, Sec. 10, T28N, R5W, NMPM
Bottomhole: Unit P (SESE) 710' FSL & 1120' FEL, Sec. 34, T29N, R5W, NMPM

5. Lease Number

SF-0784126. If Indian, All. or
Tribe Name

7. Unit Agreement Name

NMNM-78415B-OK**San Juan 29-5 Unit****NMNM-78415A-MV**

8. Well Name & Number

San Juan 29-5 Unit 88M

9. API Well No.

30-039-30702

10. Field and Pool

Basin DK/Blanco MV

11. County and State

Rio Arriba Co., NM**12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA**

Type of Submission	Type of Action	
☒ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment	☐ Plugging	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut off
	☐ Altering Casing	☐ Conversion to Injection

☒ Other - Moved Bottomhole

13. Describe Proposed or Completed Operations

ConocoPhillips wishes to move the subject wells Bottomhole from the footages submitted with the APD on 3/4/09. The Bottomhole was moved due to spacing issues. The surface will not move and the original Bottomhole was located Unit O (SWSE) 870' FSL & 1500' FEL, Sec. 34, T29N, R5W, but will be moved to Unit P (SESE) 710' FSL & 1120' FEL, Sec. 34, T29N, R5W. The new plat, directional drill plan and project proposal are attached.

14. I hereby certify that the foregoing is true and correct.Signed Crystal Tafoya Crystal Tafoya Title Regulatory Technician Date 04/06/2009

(This space for Federal or State Office use)

APPROVED BY [Signature] Title AFM Date 8/1/11

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Hold C104

for Directional Survey
and "As Drilled" plat

NMCCD

DISTRICT II
1901 W. Grand Avenue, Artesia, N.M. 88210

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

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

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
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Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

* APT Number 30-039- 30702		* Pool Code 71599 / 72319	* Pool Name BASIN DAKOTA/BLANCO MESAVERDE
* Property Code 31325	* Property Name SAN JUAN 29-5 UNIT		* Well Number 88 M
* OGRID No. 217817	* Operator Name CONOCOPHILLIPS COMPANY		* Elevation 6778'

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	10	28N	5W	2	438'	NORTH	1441'	EAST	RIO ARRIBA

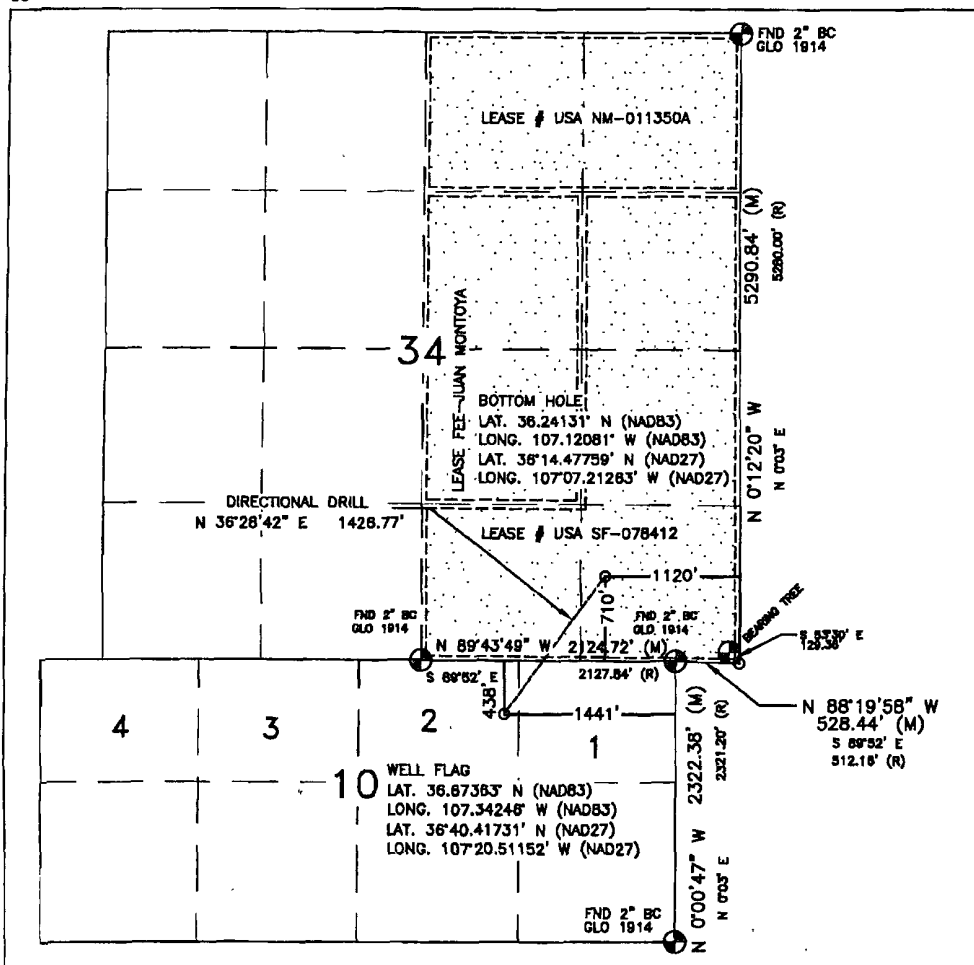
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	34	29N	5W		710'	SOUTH	1120'	EAST	RIO ARRIBA

12 Dedicated Acres 320.00 Acres - (E/2)	13 Joint or Infill	14 Consolidation Code	15 Order No.
---	---------------------------	------------------------------	---------------------

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

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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 or a compulsory pooling order heretofore entered by the division.

Signature Crystal Tapera Date 4/3/00

Crystal Tafoya 4-3-09

Printed Name _____

18 SURVEYOR CERTIFICATION

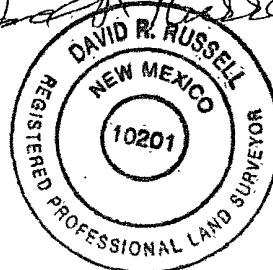
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

JUNE 20, 2008

Date of Survey _____

Signature and Seal of Professional Surveyor:

DAVID R. RUSSELL



DAVID RUSSELL

Certificate Number

10201

CONOCOPHILLIPS COMPANY

SAN JUAN 29-5 UNIT #88 M
438' FNL & 1441' FEL
LOCATED IN THE NW/4 SE/4 OF SECTION 10,
T28N, R5W, N.M.P.M.,
RIO ARriba COUNTY, NEW MEXICO

DIRECTIONS

- 1) FROM BLANCO POST OFFICE TRAVEL EAST 27 MILES TO GOBERNADOR SCHOOL
TURN OFF.
- 2) TURN RIGHT AND TRAVEL 1.2 MILES TO "Y" INTERSECTION.
- 3) TURN LEFT AND TRAVEL 3.4 MILES TO "Y" INTERSECTION.
- 4) TURN RIGHT AND TRAVEL 0.25 MILES TO ENTER WELL PAD, WELL FLAG IS ON EAST SIDE
OF ROAD.

WELL FLAG LOCATED LAT. 36.67363°N, LONG. 107.34246°W (NAD83)



PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-5 UNIT 88M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7482				AFE \$: 1,764,448.51	
Field Name: hBR_SAN JUAN		Rig: XXX Deferred Economic Rig		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27							
Latitude: 36.673622	Longitude: -107.341859	X:	Y:	Section: 10		Range: 005W	
Footage X: 1441 FEL	Footage Y: 438 FNL	Elevation: 6778	(FT)	Township: 028N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27							
Latitude: 36.677202	Longitude: -107.340269	X:	Y:	Section: 34		Range: 005W	
Footage X: 1500 FEL	Footage Y: 870 FSL	Elevation:	(FT)	Township: 029N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2020		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6793 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6593	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.	
OJO ALAMO	2969	3824	☐				
KIRTLAND	3182	3611	☐				
FRUITLAND	3279	3514	☐			Possible Gas	
PICTURED CLIFFS	3725	3068	☐				
LEWIS	3811	2982	☐				
Intermediate Casing	3911	2882	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 881 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4437	2356	☐				
CHACRA	4720	2073	☐			Est. Top Perf - 4721 (2073)	
UPPER CLIFF HOUSE	5410	1383	☐			Gas	
MASSIVE CLIFF HOUSE	5531	1262	☐	684		Gas	
MENEFEE	5605	1188	☐				
POINT LOOKOUT	5910	883	☐				
MANCOS	6323	470	☐				
UPPER GALLUP	7139	-346	☐				
GREENHORN	7890	-1097	☐				
PAGUATE	7942	-1149	☐				
GRANEROS	7948	-1155	☐				
TWO WELLS	8010	-1217	☐	2200		Gas	
UPPER CUBERO	8065	-1272	☐				
LOWER CUBERO	8125	-1332	☐			Est. Btm Perf - 8146 (-1352) based on offset wells	
OAK CANYON	8179	-1386	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-5 UNIT 88M

DEVELOPMENT

Total Depth	8200	-1407	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55 / L-80, LTC casing. Cement w/ 584 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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ENCINAL	8200	-1407	☐	
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Reference Wells:		
Reference Type	Well Name	Comments
Production	SJ 28-5 96	28N-5W10 NE SW SE
Production	SJ 29-5 90	29N-5W35 NW SE SW
Production	SJ 29-5 89	29N-5W34 NW NE SW
Production	SJ 28-5 96E	28N-5W11 NE SW SW

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☒ TDT	☐ Other
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Cased Hole GR / CBL

Mudlog from 100' above Greenhorn to TD - mudlogger will call TD

Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-5 Unit 88M
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6793.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6793.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-5 Unit 88M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

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

Site:	San Juan 29 Wells			
Site Position:		Northing:	2,077,436.18 ft	Latitude: 36° 42' 32.268 N
From:	Lat/Long	Easting:	581,695.32 ft	Longitude: 107° 33' 16.662 W
Position Uncertainty:	15.0 ft	Slot Radius:	"	Grid Convergence: 0.17 °

Well:	SJ 29-5 Unit 88M			
Well Position	+N/-S	0.0 ft	Northing:	2,064,820.86 ft
	+E/-W	0.0 ft	Easting:	644,129.66 ft
Position Uncertainty	15.0 ft		Wellhead Elevation:	ft
			Ground Level:	6,778.0 ft

Wellbore:	Principal Wellbore				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	BGGM2007	4/6/2009	10.04	63.54	50,956

Design:	Plan #1			
Audit Notes:				
Version:	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	36.46

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(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	
320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,272.5	28.57	36.46	1,233.5	187.1	138.3	3.00	3.00	0.00	36.46	
3,281.2	28.57	36.46	2,997.5	959.8	709.3	0.00	0.00	0.00	0.00	
4,233.7	0.00	0.00	3,911.0	1,146.8	847.5	3.00	-3.00	0.00	180.00	SJ 29-5 #88M - ICP #
8,522.7	0.00	0.00	8,200.0	1,146.8	847.5	0.00	0.00	0.00	0.00	SJ 29-5 #88M - PCP #

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-5 Unit 88M
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6793.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6793.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-5 Unit 88M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
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
Surface									
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
400 0	2 40	36 46	400 0	1 3	1 0	1 7	3 00	3 00	0 00
500 0	5 40	36 46	499 7	6 8	5 0	8 5	3 00	3 00	0 00
600 0	8 40	36 46	599 0	16 5	12 2	20 5	3 00	3 00	0 00
700 0	11 40	36 46	697 5	30 3	22 4	37 7	3 00	3 00	0 00
800 0	14 40	36 46	795 0	48 3	35 7	60 0	3 00	3 00	0 00
900 0	17 40	36 46	891 1	70 3	51 9	87 4	3 00	3 00	0 00
1,000 0	20 40	36 46	985 7	96 3	71 2	119 8	3 00	3 00	0 00
1,100 0	23 40	36 46	1,078 5	126 3	93 4	157 1	3 00	3 00	0 00
1,200 0	26 40	36 46	1,169 2	160 2	118 4	199 2	3 00	3 00	0 00
1,272 5	28 57	36 46	1,233 5	187 1	138 3	232 6	3 00	3 00	0 00
1,300 0	28 57	36 46	1,257 7	197 7	146 1	245 8	0 00	0 00	0 00
1,400 0	28 57	36 46	1,345 5	236 1	174 5	293 6	0 00	0 00	0 00
1,500 0	28 57	36 46	1,433 3	274 6	202 9	341 4	0 00	0 00	0 00
1,600 0	28 57	36 46	1,521 1	313 1	231 4	389 3	0 00	0 00	0 00
1,700 0	28 57	36 46	1,608 9	351 5	259 8	437 1	0 00	0 00	0 00
1,800 0	28 57	36 46	1,696 7	390 0	288 2	484 9	0 00	0 00	0 00
1,900 0	28 57	36 46	1,784 6	428 5	316 6	532 8	0 00	0 00	0 00
2,000 0	28 57	36 46	1,872 4	466 9	345 1	580 6	0 00	0 00	0 00
2,100 0	28 57	36 46	1,960 2	505 4	373 5	628 4	0 00	0 00	0 00
2,200 0	28 57	36 46	2,048 0	543 9	401 9	676 3	0 00	0 00	0 00
2,300 0	28 57	36 46	2,135 8	582 3	430 3	724 1	0 00	0 00	0 00
2,400 0	28 57	36 46	2,223 7	620 8	458 8	771 9	0 00	0 00	0 00
2,500 0	28 57	36 46	2,311 5	659 3	487 2	819 7	0 00	0 00	0 00
2,600 0	28 57	36 46	2,399 3	697 7	515 6	867 6	0 00	0 00	0 00
2,700 0	28 57	36 46	2,487 1	736 2	544 0	915 4	0 00	0 00	0 00
2,800 0	28 57	36 46	2,574 9	774 7	572 5	963 2	0 00	0 00	0 00
2,900 0	28 57	36 46	2,662 8	813 1	600 9	1,011 1	0 00	0 00	0 00
3,000 0	28 57	36 46	2,750 6	851 6	629 3	1,058 9	0 00	0 00	0 00
3,100 0	28 57	36 46	2,838 4	890 1	657 7	1,106 7	0 00	0 00	0 00
3,200 0	28 57	36 46	2,926 2	928 5	686 2	1,154 6	0 00	0 00	0 00
3,248 7	28 57	36 46	2,969 0	947 3	700 0	1,177 8	0 00	0 00	0 00
Ojo									
3,281 2	28 57	36 46	2,997 5	959 8	709 3	1,193 4	0 00	0 00	0 00
3,300 0	28 01	36 46	3,014 1	966 9	714 6	1,202 3	3 00	-3 00	0 00
3,400 0	25 01	36 46	3,103 6	1,002 8	741 1	1,246 9	3 00	-3 00	0 00
3,485 7	22 44	36 46	3,182 0	1,030 5	761 6	1,281 4	3 00	-3 00	0 00
Kirtland									
3,500 0	22 01	36 46	3,195 3	1,034 9	764 8	1,286 8	3 00	-3 00	0 00
3,589 5	19 32	36 46	3,279 0	1,060 3	783 6	1,318 4	3 00	-3 00	0 00
Fruitland									
3,600 0	19 01	36 46	3,288 9	1,063 1	785 6	1,321 8	3 00	-3 00	0 00
3,700 0	16 01	36 46	3,384 3	1,087 3	803 5	1,351 9	3 00	-3 00	0 00
3,800 0	13 01	36 46	3,481 1	1,107 4	818 4	1,377 0	3 00	-3 00	0 00
3,900 0	10 01	36 46	3,579 0	1,123 5	830 2	1,396 9	3 00	-3 00	0 00
4,000 0	7 01	36 46	3,677 9	1,135 4	839 0	1,411 7	3 00	-3 00	0 00
4,047 4	5 59	36 46	3,725 0	1,139 5	842 1	1,416 9	3 00	-3 00	0 00
Pictured Cliffs									

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-5 Unit 88M
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6793.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6793.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-5 Unit 88M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
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)
4,100.0	4.01	36.46	3,777.4	1,143.1	844.7	1,421.3	3.00	-3.00	0.00
4,133.6	3.00	36.46	3,811.0	1,144.7	845.9	1,423.4	3.00	-3.00	0.00
Lewis									
4,200.0	1.01	36.46	3,877.3	1,146.6	847.3	1,425.7	3.00	-3.00	0.00
4,233.7	0.00	0.00	3,911.0	1,146.8	847.5	1,426.0	3.00	-3.00	0.00
Int - SJ 29-5 #88M - ICP #2									
4,300.0	0.00	0.00	3,977.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,077.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,177.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,277.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,377.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
4,759.7	0.00	0.00	4,437.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00
Huerfano Bentonite									
4,800.0	0.00	0.00	4,477.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,577.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
5,000.0	0.00	0.00	4,677.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
5,042.7	0.00	0.00	4,720.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00
Chacra									
5,100.0	0.00	0.00	4,777.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
5,200.0	0.00	0.00	4,877.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
5,300.0	0.00	0.00	4,977.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,077.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,177.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,277.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,377.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
5,732.7	0.00	0.00	5,410.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00
Upper Cliffhouse									
5,800.0	0.00	0.00	5,477.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
5,853.7	0.00	0.00	5,531.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00
Mass Cliffhouse									
5,900.0	0.00	0.00	5,577.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
5,927.7	0.00	0.00	5,605.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00
Menefee									
6,000.0	0.00	0.00	5,677.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
6,100.0	0.00	0.00	5,777.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
6,200.0	0.00	0.00	5,877.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
6,232.7	0.00	0.00	5,910.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00
Point Lookout									
6,300.0	0.00	0.00	5,977.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,077.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,177.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,277.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
6,645.7	0.00	0.00	6,323.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00
Mancos									
6,700.0	0.00	0.00	6,377.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,477.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,577.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,677.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
7,100.0	0.00	0.00	6,777.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
7,200.0	0.00	0.00	6,877.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
7,300.0	0.00	0.00	6,977.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,077.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 29-5 Unit 88M
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6793.0ft (Original Well Elev)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6793.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-5 Unit 88M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
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)	
7,461.7	0.00	0.00	7,139.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
Upper Gallup										
7,500.0	0.00	0.00	7,177.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,277.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,377.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,477.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,577.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	7,677.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	7,777.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	7,877.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
8,212.7	0.00	0.00	7,890.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
Greenhorn										
8,264.7	0.00	0.00	7,942.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
Paguate										
8,270.7	0.00	0.00	7,948.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
Graneros										
8,300.0	0.00	0.00	7,977.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
8,332.7	0.00	0.00	8,010.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
Two Well										
8,387.7	0.00	0.00	8,065.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
Upper Cubero										
8,400.0	0.00	0.00	8,077.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
8,447.7	0.00	0.00	8,125.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
Lower Cubero										
8,500.0	0.00	0.00	8,177.3	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
8,501.7	0.00	0.00	8,179.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
Oak Canyon										
8,522.7	0.00	0.00	8,200.0	1,146.8	847.5	1,426.0	0.00	0.00	0.00	
Encinal - Prod SJ 29-5 #88M - PCP #2										

Targets										
Target Name	hit/miss target	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/S (ft)	+E/W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
SJ 29-5 #88M - PCP #2	- plan hits target center	0.00	0.00	8,200.0	1,146.8	847.5	2,065,971.92	644,971.22	36° 40' 36.378 N	107° 20' 20.288 W
	- Point									
SJ 29-5 #88M - ICP #2	- plan hits target center	0.00	0.00	3,911.0	1,146.8	847.5	2,065,971.95	644,971.22	36° 40' 36.379 N	107° 20' 20.288 W
	- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
200.0	200.0	Surface	9-5/8	12-1/4	
4,233.7	3,911.0	Int	7	8-3/4	
8,522.7	8,200.0	Prod	4-1/2	6-1/4	

ConocoPhillips or its affiliates

Planning Report

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Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6793.0ft (Original Well Elev)
Site:	San Juan 29 Wells	North Reference:	True
Well:	SJ 29-5 Unit 88M	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal Wellbore		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,447.7	8,125.0	Lower Cubero		0.00		
4,759.7	4,437.0	Huerfano Bentonite		0.00		
6,232.7	5,910.0	Point Lookout		0.00		
5,732.7	5,410.0	Upper Cliffhouse		0.00		
4,133.6	3,811.0	Lewis		0.00		
7,461.7	7,139.0	Upper Gallup		0.00		
5,042.7	4,720.0	Chacra		0.00		
4,047.4	3,725.0	Pictured Cliffs		0.00		
8,522.7	8,200.0	Encinal		0.00		
3,589.5	3,279.0	Fruitland		0.00		
8,264.7	7,942.0	Paguate		0.00		
5,927.7	5,605.0	Menefee		0.00		
6,645.7	6,323.0	Mancos		0.00		
8,212.7	7,890.0	Greenhorn		0.00		
8,387.7	8,065.0	Upper Cubero		0.00		
3,485.7	3,182.0	Kirtland		0.00		
8,501.7	8,179.0	Oak Canyon		0.00		
3,248.7	2,969.0	Ojo		0.00		
8,332.7	8,010.0	Two Well		0.00		
8,270.7	7,948.0	Graneros		0.00		
5,853.7	5,531.0	Mass Cliffhouse		0.00		

COMPANY
Charge Code
WELL NAME
DUAL WELL
TRIPLE WELL

BURLINGTON RESOURCES		
WAN.RFE.PD07.LX		
SAN JUAN 29 - 5 # 88 M	DATE	7/9/2008
WELL NAME		
WELL NAME		

COORDINATES

SEC	TNSHP	RANGE	LATITUDE	LONGITUDE
J 10	28 N	5 W	36.67363 N	107.34246 W

COUNTY

RIO ARRIBA

RECTIFIER
SOLAR
GROUND BED
240 V METER POLE
480 V METER POLE
D C CABLES
A C CABLES
PRIMARY POWER
DISTANCE TO POWER
UNDERGROUND
PUMPJACK
WATER PUMP

SIZE	NEEDED	EXISTING	1 PHASE	3 PHASE
30/12	X			
	X			
# 8	200'			
# 8	1700'			
			JEMEZ	
			.5 MILES	

COMMENTS

1 PHASE JEMEZ PRIMARY .5 MILES
SANDSTONE
INSTALL SINGLE WELL RECTIFIER SYSTEM
PLOW UGAC 1600'

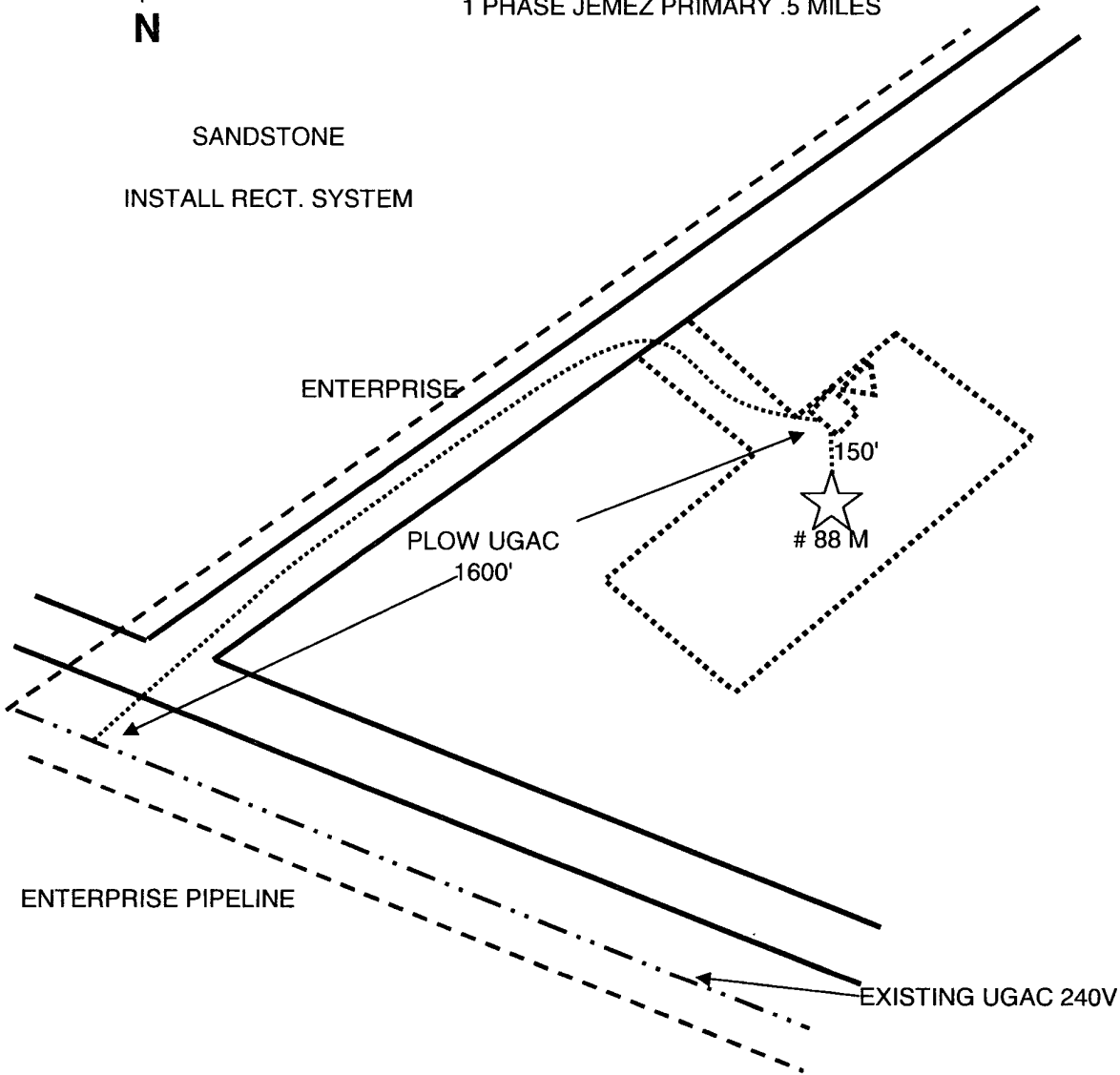
WELL NAME	SAN JUAN 29 - 5 # 88 M
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1 PHASE JEMEZ PRIMARY .5 MILES

SANDSTONE

INSTALL RECT. SYSTEM



TANK 	SEP OR DEHY 	SOLAR 	METER POLE 	PUMP JACK 	GND/BED EXISTING CABLE 
RECT 	PIT 	WELL 	proposed solar/gb 	PROPOSED CABLE 	POWER LINE 
			FOREIGN PL 	CONOCO PL 	

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-5 UNIT 88M

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7482				AFE \$: 1,764,448.51	
Field Name: hBR_SAN JUAN		Rig: XXX Deferred Economic Rig		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist:		Phone:		Prod. Engineer:		Phone:	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
FRR	BASIN DAKOTA (PRORATED GAS)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27							
Latitude: 36.673622		Longitude: -107.341859		X:	Y:	Section: 10	Range: 005W
Footage X: 1441 FEL		Footage Y: 438 FNL		Elevation: 6778 (FT)		Township: 028N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27							
Latitude: 36.677202		Longitude: -107.340269		X:	Y:	Section: 34	Range: 005W
Footage X: 1500 FEL		Footage Y: 870 FSL		Elevation: (FT)		Township: 029N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2020		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6793 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6593	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 159 cuft. Circulate cement to surface.	
OJO ALAMO	2969	3824	☐				
KIRTLAND	3182	3611	☐				
FRUITLAND	3279	3514	☐			Possible Gas	
PICTURED CLIFFS	3725	3068	☐				
LEWIS	3811	2982	☐				
Intermediate Casing	4300	2493	☐			8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 1031 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4437	2356	☐				
CHACRA	4720	2073	☐			Est. Top Perf - 4721 (2073)	
UPPER CLIFF HOUSE	5410	1383	☐			Gas	
MASSIVE CLIFF HOUSE	5531	1262	☐	684		Gas	
MENEFEE	5605	1188	☐				
POINT LOOKOUT	5910	883	☐				
MANCOS	6323	470	☐				
UPPER GALLUP	7139	-346	☐				
GREENHORN	7890	-1097	☐				
PAGUATE	7942	-1149	☐				
GRANEROS	7948	-1155	☐				
TWO WELLS	8010	-1217	☐	2200		Gas	
UPPER CUBERO	8065	-1272	☐				
LOWER CUBERO	8125	-1332	☐			Est. Btm Perf - 8146 (-1352) based on offset wells	
OAK CANYON	8179	-1386	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 29-5 UNIT 88M

DEVELOPMENT

Total Depth	8200	-1407	☐	6-1/4" hole, 4-1/2" 11.6 ppf, J-55 / L-80, LTC casing. Cement w/ 532 cuft. Circulate cement a minimum of 100' inside the previous casing string.
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ENCINAL	8200	-1407	☐	
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Reference Wells:

Reference Type	Well Name	Comments
Production	SJ 28-5 96	28N-5W10 NE SW SE
Production	SJ 29-5 90	29N-5W35 NW SE SW
Production	SJ 29-5 89	29N-5W34 NW NE SW
Production	SJ 28-5 96E	28N-5W11 NE SW SW

Logging Program:

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

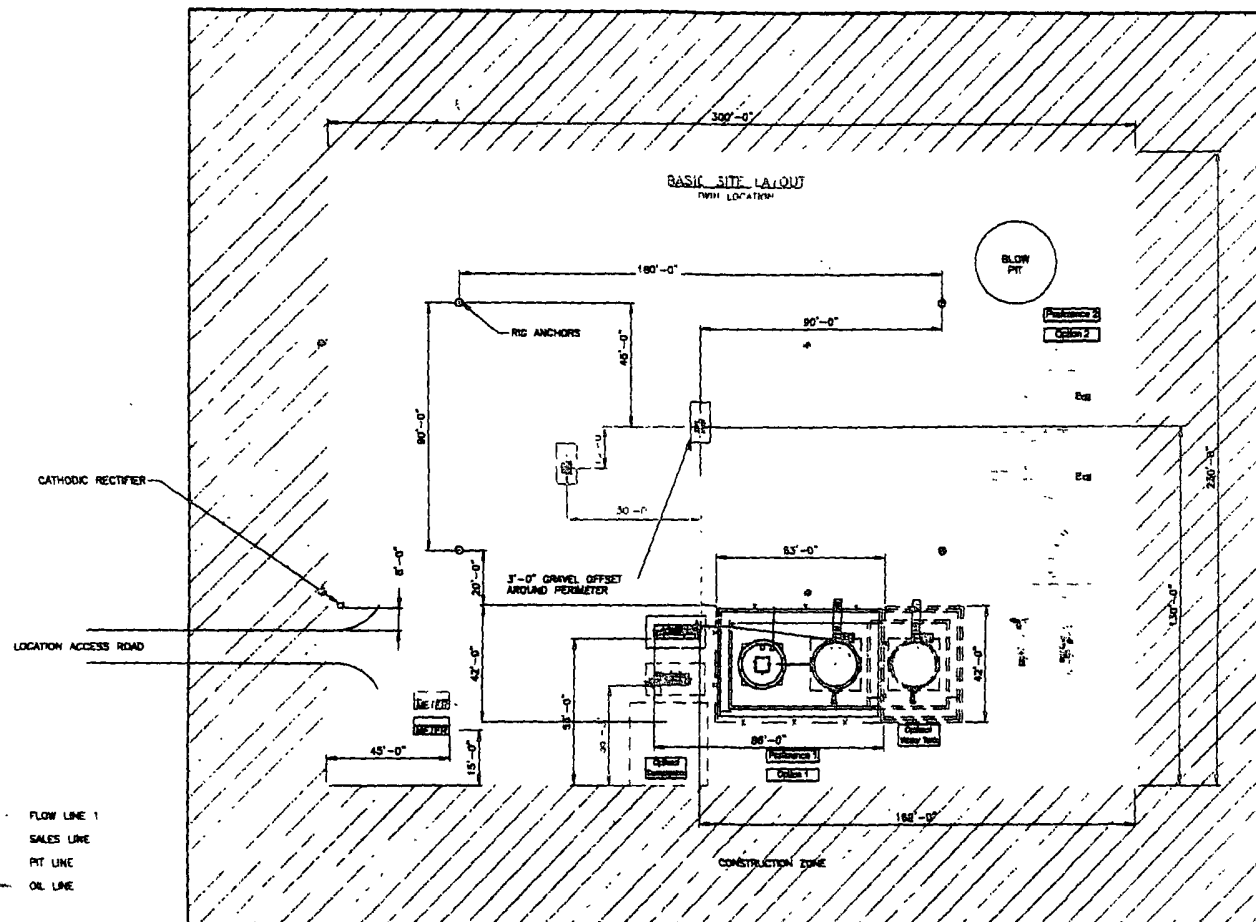
TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other

Cased Hole GR / CBL

Mudlog from 100' above Greenhorn to TD - mudlogger will call TD

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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SEE SHEET 3 & 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPE IS TO BE GRADED A MIN. OF 7'-0" TOP

SHEET 1 OF 3

ENGINEERING REVIEW										REFERENCE DRAWINGS		ConocoPhillips		SAN JUAN BUSINESS UNIT		HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		CLIENT: CONOCO PHILLIPS SCALE: AS SHOWN DATE: 10/14/07		APPROVAL: [Signature] DATE: 10/14/07		SHEET 1 OF 3	
NO.	DESCRIPTION	DATE	BY	CHKD	DATE	BY	CHKD	DATE	BY	NO.	DESCRIPTION												
1	DESIGNER									1	DESIGNER												
2	DATE									2	DATE												
3	BY									3	BY												
4	CHKD									4	CHKD												
5	DATE									5	DATE												
6	BY									6	BY												
7	CHKD									7	CHKD												
8	DATE									8	DATE												
9	BY									9	BY												
10	CHKD									10	CHKD												
11	DATE									11	DATE												
12	BY									12	BY												
13	CHKD									13	CHKD												
14	DATE									14	DATE												
15	BY									15	BY												
16	CHKD									16	CHKD												
17	DATE									17	DATE												
18	BY									18	BY												
19	CHKD									19	CHKD												
20	DATE									20	DATE												
21	BY									21	BY												
22	CHKD									22	CHKD												
23	DATE									23	DATE												
24	BY									24	BY												
25	CHKD									25	CHKD												
26	DATE									26	DATE												
27	BY									27	BY												
28	CHKD									28	CHKD												
29	DATE									29	DATE												
30	BY									30	BY												
31	CHKD									31	CHKD												
32	DATE									32	DATE												
33	BY									33	BY												
34	CHKD									34	CHKD												
35	DATE									35	DATE												
36	BY									36	BY												
37	CHKD									37	CHKD												
38	DATE									38	DATE												
39	BY									39	BY												
40	CHKD									40	CHKD												
41	DATE									41	DATE												
42	BY									42	BY												
43	CHKD									43	CHKD												
44	DATE									44	DATE												
45	BY									45	BY												
46	CHKD									46	CHKD												
47	DATE									47	DATE												
48	BY									48	BY												
49	CHKD									49	CHKD												
50	DATE									50	DATE												

HP3PHASE-REV1