

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 18 2010

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

1a. Type of Work DRILL	5. Lease Number SF-078998 Unit Reporting Number	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips Company	7. Unit Agreement Name NMNM-784723 - mV San Juan 32-7 Unit	
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name RCVD DEC 3 '10 OIL CONS. DIV. DIST. 3	
4. Location of Well Surf: Unit L(NWSW), 1412' FSL & 1208' FWL BH: Unit N(SESW), 710' FSL & 1930' FWL Surf: Latitude: 36.896172° N (NAD83) Longitude: 107.599266° W BH: Latitude: 36.894233° N (NAD83) Longitude: 107.596800° W	10. Field, Pool, Wildcat Basin DK/Blanco MV 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 17, T31N, R7W API # 30-045-35217	
14. Distance in Miles from Nearest Town 25.4 Miles from Igancio, CO	12. County San Juan	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 1208'	17. Acres Assigned to Well 320 (W/2)	
16. Acres in Lease 1,718.910	20. Rotary or Cable Tools Rotary	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 71.6' from San Juan 32-7 Unit 231 (FC)	22. Approx. Date Work will Start	
19. Proposed Depth 7979'	23. Proposed Casing and Cementing Program See Operations Plan attached	
21. Elevations (DF, FT, GR, Etc.) 6454' GL	24. Authorized by: Brandie Blakley Brandie Blakley (Staff Regulatory Tech)	
		11-11-10 Date

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 ES-0048 and ES-0085

NMOCD DEC 17 2010

Hold C104
for Directional Survey
and "As Drilled" plat

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Bruzos 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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35217		² Pool Code 71599 / 72319		³ Pool Name BASIN DAKOTA / BLANCO MESAVERDE	
⁴ Property Code 31329		⁵ Property Name SAN JUAN 32-7 UNIT			⁶ Well Number 8A
⁷ OGRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY			⁹ Elevation 6454

¹⁰ SURFACE LOCATION

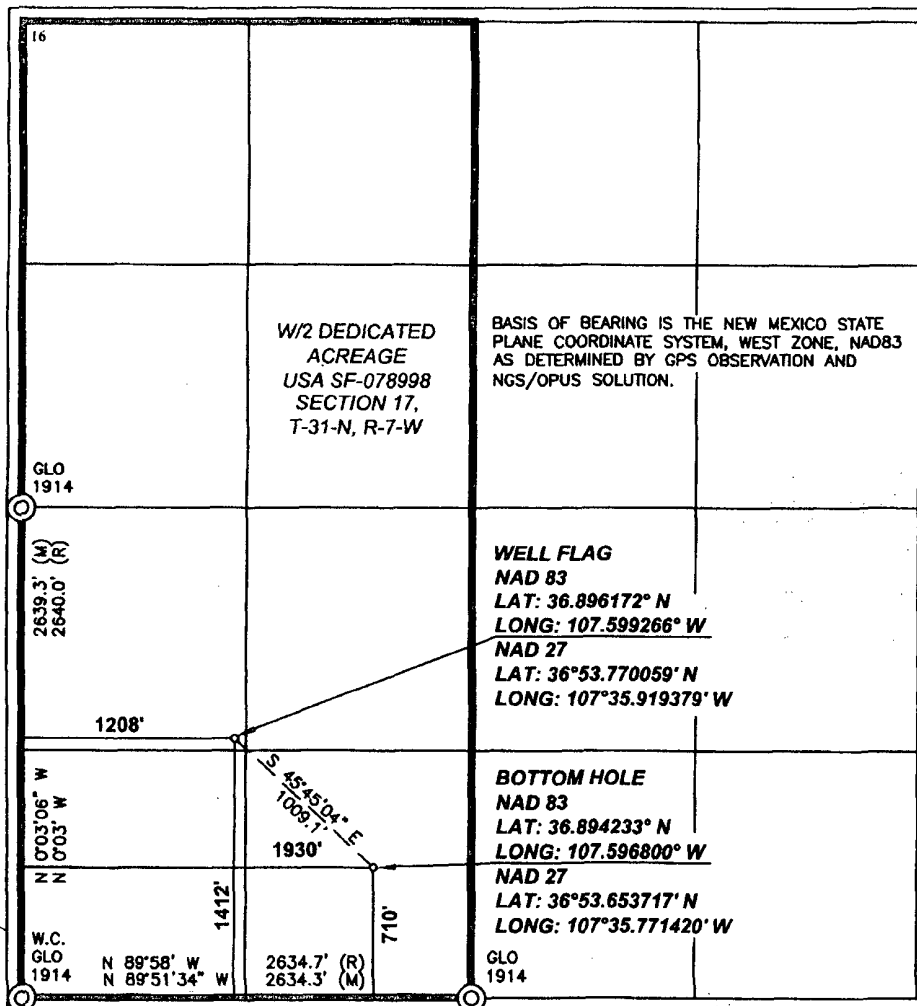
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	17	31-N	7-W		1412	SOUTH	1208	WEST	SAN JUAN

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	17	31-N	7-W		710	SOUTH	1930	WEST	SAN JUAN

¹² Dedicated Acres 320.00 (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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Crystal Tafoya 12/10/09
Signature

Printed Name
Crystal Tafoya
Regulatory Technician

Title and E-mail Address
December 10, 2009

Date

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: 10/26/09

Signature and Seal of Professional Surveyor:



Certificate Number: NM 11393

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 32-7 UNIT 8A

DEVELOPMENT

Lease:		AFE #: WAN.CDR.9361				AFE \$: 849,453.33	
Field Name: SAN JUAN		Rig: Aztec Rig 730		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)						
RON	BLANCO MESAVERDE (PRORATED GAS)						
Location: Surface Datum Code: NAD 27 Directional							
Latitude: 36.896167	Longitude: -107.598656	X:	Y:	Section: 17		Range: 007W	
Footage X: 1208 FWL		Footage Y: 1412 FSL		Elevation: 6454	(FT)	Township: 031N	
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Directional							
Latitude: 36.894228	Longitude: -107.596190	X:	Y:	Section: 17		Range: 007W	
Footage X: 1930 FWL		Footage Y: 710 FSL		Elevation:	(FT)	Township: 031N	
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6469 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	230	6239		☐			12-1/4 hole. 230' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	833	5636		☐			
OJO ALAMO	2233	4236		☐			
KIRTLAND	2351	4118		☐			
FRUITLAND	2865	3604		☐			Possible Gas
PICTURED CLIFFS	3355	3114		☐			
LEWIS	3441	3028		☐			
Intermediate Casing	3541	2928		☐	126	8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 847 cuft. Circulate cement to surface.	
HUERFANITO BENTONITE	4117	2352		☐			
CHACRA	4522	1947		☐			
UPPER CLIFF HOUSE	5127	1342		☐			Gas; Est. Top Perf - 5129 (1340)
MASSIVE CLIFF HOUSE	5331	1138		☐	608		Gas
MENEFEE	5363	1106		☐			
POINT LOOKOUT	5641	828		☐			
MANCOS	6043	426		☐			
UPPER GALLUP	6935	-466		☐			
GREENHORN	7689	-1220		☐			
GRANEROS	7750	-1281		☐			
TWO WELLS	7852	-1383		☐	3424		Gas
PAGUATE	7867	-1398		☐			
UPPER CUBERO	7877	-1408		☐			

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 32-7 UNIT 8A

DEVELOPMENT

LOWER CUBERO	7901	-1432	☐	
ENCINAL	7939	-1470	☐	TD - 40' below T/ENCN; Est. Btm Perf - 7964 (- 1495) based on offset wells
Total Depth	7979	-1510	☐	227 6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 604 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:

Reference Type	Well Name	Comments
Production	Blanco NE Unit 78A	31N 7W 21 C NW NW
Production	SJ 32-7 Unit 20	31N 7W 18 SE NW SW
Production	Lewis Park 1	31N 8W 13 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 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
Company: ConocoPhillips SJB
Project: San Juan Basin - New Mexico Wells
Site: San Juan 32 Wells
Well: SJ 32-7 #8B
Wellbore: Principal Wellbore
Design: Plan #1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well SJ 32-7 #8B
RKB @ 6469.0ft (AWS RIGS)
RKB @ 6469.0ft (AWS RIGS)
True
Minimum Curvature

Project: San Juan Basin - New Mexico Wells, New Mexico, Directional "S"

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico West 3003

System Datum: Mean Sea Level
Using geodetic scale factor

Site: San Juan 32 Wells

Site Position: Northing: 2,159,823.69 ft Latitude: 36° 56' 7.765 N
From: Lat/Long Easting: 546,813.37 ft Longitude: 107° 40' 23.366 W
Position Uncertainty: 15.0 ft Slot Radius: " Grid Convergence: 0.10 °

Well: SJ 32-7 #8B, Directional "S" Curve Short, Lewis not included

Well Position: +N-S 0.0 ft Northing: 2,145,553.19 ft Latitude: 36° 53' 46.204 N
+E-W 0.0 ft Easting: 568,622.37 ft Longitude: 107° 35' 55.163 W
Position Uncertainty: 3.5 ft Wellhead Elevation: ft Ground Level: 6,454.0 ft

Wellbore: Principal Wellbore

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2010	10/12/2010	9.92	63.68	50,912

Design: Plan #1

Audit Notes:

Version: 1 Phase: PROTOTYPE Tie On Depth: 0.0

Vertical Section:	Depth From (TVD) (ft)	+N-S (ft)	+E-W (ft)	Direction (°)
	0.0	0.0	0.0	134.39

Plan Sections

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
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	
1,346.8	30.80	134.39	1,298.1	-188.5	192.5	3.00	3.00	0.00	134.39	
2,265.3	30.80	134.39	2,086.9	-517.5	528.7	0.00	0.00	0.00	0.00	
3,292.1	0.00	0.00	3,065.0	-706.0	721.2	3.00	-3.00	0.00	180.00	SJ 32-7 #8B - VACP
3,768.1	0.00	0.00	3,541.0	-706.0	721.2	0.00	0.00	0.00	0.00	SJ 32-7 #8B - ICP
8,206.1	0.00	0.00	7,979.0	-706.0	721.2	0.00	0.00	0.00	0.00	SJ 32-7 #8B - PCP

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJBU
 Project: San Juan Basin - New Mexico Wells
 Site: San Juan 32 Wells
 Well: SJ 32-7 #8B
 Wellbore: Principal Wellbore
 Design: Plan #1

Local Co-ordinate Reference:
 TVD Reference:
 MD Reference:
 North Reference:
 Survey Calculation Method:

Well SJ 32-7 #8B
 RKB @ 6469.0ft (AWS RIGS)
 RKB @ 6469.0ft (AWS RIGS)
 True
 Minimum Curvature

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
Surfaca									
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	134.39	400.0	-1.2	1.2	1.7	3.00	3.00	0.00
500.0	5.40	134.39	499.7	-5.9	6.1	8.5	3.00	3.00	0.00
600.0	8.40	134.39	599.0	-14.3	14.6	20.5	3.00	3.00	0.00
700.0	11.40	134.39	697.5	-26.4	26.9	37.7	3.00	3.00	0.00
800.0	14.40	134.39	795.0	-42.0	42.9	60.0	3.00	3.00	0.00
839.4	15.58	134.39	833.0	-49.1	50.2	70.2	3.00	3.00	0.00
Nacimlento									
900.0	17.40	134.39	891.1	-61.1	62.5	87.4	3.00	3.00	0.00
1,000.0	20.40	134.39	985.7	-83.8	85.6	119.8	3.00	3.00	0.00
1,100.0	23.40	134.39	1,078.5	-109.9	112.2	157.1	3.00	3.00	0.00
1,200.0	26.40	134.39	1,169.2	-139.3	142.3	199.2	3.00	3.00	0.00
1,300.0	29.40	134.39	1,257.6	-172.1	175.8	246.0	3.00	3.00	0.00
1,346.8	30.80	134.39	1,298.1	-188.5	192.5	269.4	3.00	3.00	0.00
1,400.0	30.80	134.39	1,343.7	-207.5	212.0	296.7	0.00	0.00	0.00
1,500.0	30.80	134.39	1,429.6	-243.4	248.6	347.9	0.00	0.00	0.00
1,600.0	30.80	134.39	1,515.5	-279.2	285.2	399.1	0.00	0.00	0.00
1,700.0	30.80	134.39	1,601.4	-315.0	321.8	450.3	0.00	0.00	0.00
1,800.0	30.80	134.39	1,687.3	-350.8	358.4	501.5	0.00	0.00	0.00
1,900.0	30.80	134.39	1,773.2	-386.7	395.0	552.7	0.00	0.00	0.00
2,000.0	30.80	134.39	1,859.1	-422.5	431.6	603.9	0.00	0.00	0.00
2,100.0	30.80	134.39	1,945.0	-458.3	468.2	655.2	0.00	0.00	0.00
2,200.0	30.80	134.39	2,030.9	-494.1	504.8	706.4	0.00	0.00	0.00
2,265.3	30.80	134.39	2,086.9	-517.5	528.7	739.8	0.00	0.00	0.00
2,300.0	29.76	134.39	2,116.9	-529.8	541.2	757.3	3.00	-3.00	0.00
2,400.0	26.76	134.39	2,205.0	-562.9	575.0	804.7	3.00	-3.00	0.00
2,431.2	25.83	134.39	2,233.0	-572.6	584.9	818.5	3.00	-3.00	0.00
Ojo Alamo									
2,500.0	23.76	134.39	2,295.4	-592.7	605.5	847.3	3.00	-3.00	0.00
2,560.3	21.95	134.39	2,351.0	-609.1	622.2	870.8	3.00	-3.00	0.00
Kirtland									
2,600.0	20.76	134.39	2,388.0	-619.2	632.6	885.2	3.00	-3.00	0.00
2,700.0	17.76	134.39	2,482.3	-642.3	656.1	918.2	3.00	-3.00	0.00
2,800.0	14.76	134.39	2,578.3	-661.9	676.1	946.2	3.00	-3.00	0.00
2,900.0	11.76	134.39	2,675.7	-678.0	692.5	969.1	3.00	-3.00	0.00
3,000.0	8.76	134.39	2,774.0	-690.4	705.3	987.0	3.00	-3.00	0.00
3,091.7	6.01	134.39	2,865.0	-698.7	713.7	998.7	3.00	-3.00	0.00
Fruitland									
3,100.0	5.76	134.39	2,873.2	-699.3	714.3	999.6	3.00	-3.00	0.00
3,200.0	2.76	134.39	2,972.9	-704.5	719.6	1,007.0	3.00	-3.00	0.00
3,292.1	0.00	0.00	3,065.0	-706.0	721.2	1,009.2	3.00	-3.00	0.00
SJ 32-7 #8B - VACP									
3,300.0	0.00	0.00	3,072.9	-706.0	721.2	1,009.2	0.00	0.00	0.00
3,400.0	0.00	0.00	3,172.9	-706.0	721.2	1,009.2	0.00	0.00	0.00
3,500.0	0.00	0.00	3,272.9	-706.0	721.2	1,009.2	0.00	0.00	0.00
3,582.1	0.00	0.00	3,355.0	-706.0	721.2	1,009.2	0.00	0.00	0.00

Pictured Cliffs

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 32-7 #8B
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6469.0ft (AWS RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6469.0ft (AWS RIGS)
Site:	San Juan 32 Wells	North Reference:	True
Well:	SJ 32-7 #8B	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)	
3,600.0	0.00	0.00	3,372.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
3,668.1	0.00	0.00	3,441.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Lewis										
3,700.0	0.00	0.00	3,472.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
3,768.1	0.00	0.00	3,541.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Intermediate - SJ 32-7 #8B - ICP										
3,800.0	0.00	0.00	3,572.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,672.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
4,000.0	0.00	0.00	3,772.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
4,100.0	0.00	0.00	3,872.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
4,200.0	0.00	0.00	3,972.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,072.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
4,344.1	0.00	0.00	4,117.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Huefanito Bentonite										
4,400.0	0.00	0.00	4,172.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,272.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,372.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,472.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
4,749.1	0.00	0.00	4,522.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Chacra										
4,800.0	0.00	0.00	4,572.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,672.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,772.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
5,100.0	0.00	0.00	4,872.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
5,200.0	0.00	0.00	4,972.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,072.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
5,354.1	0.00	0.00	5,127.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Upper Cliff house										
5,400.0	0.00	0.00	5,172.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,272.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
5,558.1	0.00	0.00	5,331.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Massive Cliffhouse										
5,590.1	0.00	0.00	5,363.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Menefee										
5,600.0	0.00	0.00	5,372.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,472.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,572.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
5,868.1	0.00	0.00	5,641.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Point Lookout										
5,900.0	0.00	0.00	5,672.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,772.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
6,100.0	0.00	0.00	5,872.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
6,200.0	0.00	0.00	5,972.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
6,270.1	0.00	0.00	6,043.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Mancos										
6,300.0	0.00	0.00	6,072.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,172.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,272.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,372.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,472.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,572.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,672.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,772.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	

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Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 32-7 #8B
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6469.0ft (AWS RIGS)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6469.0ft (AWS RIGS)
Site:	San Juan 32 Wells	North Reference:	True
Well:	SJ 32-7 #8B	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)	
7,100.0	0.00	0.00	6,872.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
7,162.1	0.00	0.00	6,935.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Upper Gallup										
7,200.0	0.00	0.00	6,972.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,072.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,172.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,272.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,372.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,472.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,572.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,672.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
7,916.1	0.00	0.00	7,689.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Greenhorn										
7,977.1	0.00	0.00	7,750.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Graneros										
8,000.0	0.00	0.00	7,772.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
8,079.1	0.00	0.00	7,852.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Two Wells										
8,094.1	0.00	0.00	7,867.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Paguate										
8,100.0	0.00	0.00	7,872.9	-706.0	721.2	1,009.2	0.00	0.00	0.00	
8,104.1	0.00	0.00	7,877.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Upper Cubero										
8,128.1	0.00	0.00	7,901.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Lower Cubero										
8,166.1	0.00	0.00	7,939.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Encinal										
8,206.1	0.00	0.00	7,979.0	-706.0	721.2	1,009.2	0.00	0.00	0.00	
Total Depth - Production - SJ 32-7 #8B - PCP										

Targets									
Target Name	Dip Angle (°)	Dip Dir (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
hit/miss target									
Shape									
SJ 32-7 #8B - ICP - plan hits target center - Circle (radius 100.0)	0.00	0.00	3,541.0	-706.0	721.2	2,144,849.01	569,345.24	36° 53' 39.223 N	107° 35' 46.285 W
SJ 32-7 #8B - PCP - plan hits target center - Circle (radius 100.0)	0.00	0.00	7,979.0	-706.0	721.2	2,144,849.01	569,345.24	36° 53' 39.223 N	107° 35' 46.285 W
SJ 32-7 #8B - VACP - plan hits target center - Circle (radius 100.0)	0.00	0.00	3,065.0	-706.0	721.2	2,144,849.01	569,345.24	36° 53' 39.223 N	107° 35' 46.285 W

ConocoPhillips or its affiliates Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJB
 Project: San Juan Basin - New Mexico Wells
 Site: San Juan 32 Wells
 Well: SJ 32-7 #8B
 Wellbore: Principal Wellbore
 Design: Plan #1

Local Co-ordinate Reference: Well SJ 32-7 #8B
 TVD Reference: RKB @ 6469.0ft (AWS RIGS)
 MD Reference: RKB @ 6469.0ft (AWS RIGS)
 North Reference: True
 Survey Calculation Method: Minimum Curvature

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
8,206.1	7,979.0	Production	4-1/2	6-1/4
3,768.1	3,541.0	Intermediate	7	8-3/4
230.0	230.0	Surface	9-5/8	12-1/4

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,091.7	2,865.0	Fruitland		0.00	
7,977.1	7,750.0	Graneros		0.00	
5,868.1	5,641.0	Point Lookout		0.00	
839.4	833.0	Nacimiento		0.00	
6,270.1	6,043.0	Mancos		0.00	
5,354.1	5,127.0	Upper Cliff house		0.00	
7,162.1	6,935.0	Upper Gallup		0.00	
4,749.1	4,522.0	Chacra		0.00	
5,558.1	5,331.0	Massive Cliffhouse		0.00	
8,094.1	7,867.0	Paguate		0.00	
7,916.1	7,689.0	Greenhorn		0.00	
8,166.1	7,939.0	Encinal		0.00	
5,590.1	5,363.0	Menefee		0.00	
3,582.1	3,355.0	Pictured Cliffs		0.00	
2,431.2	2,233.0	Ojo Alamo		0.00	
4,344.1	4,117.0	Huefanito Bentonite		0.00	
3,668.1	3,441.0	Lewis		0.00	
8,128.1	7,901.0	Lower Cubero		0.00	
8,206.1	7,979.0	Total Depth		0.00	
8,079.1	7,852.0	Two Wells		0.00	
8,104.1	7,877.0	Upper Cubero		0.00	
2,560.3	2,351.0	Kirtland		0.00	

REFERENCE INFORMATION

RKB @ 6469.0ft (AWS RIGS)
Ground Elevation 6454.0
Reference Lat: 36° 53' 46.204 N
Reference Long: 107° 35' 55.163 W

Project: San Juan Basin - New Mexico Well

Site: San Juan 32 Wells

Well: SJ 32-7 #8B

Wellbore: Principal Wellbore

Design: Plan #1

ConocoPhillips

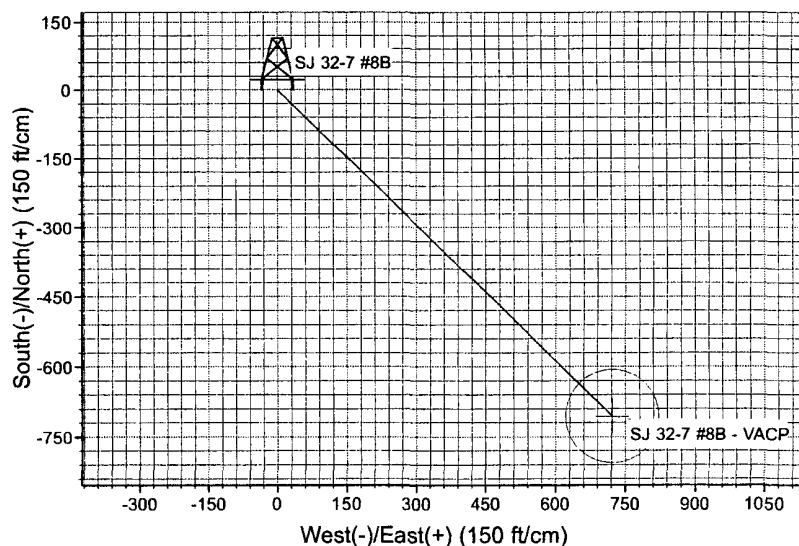
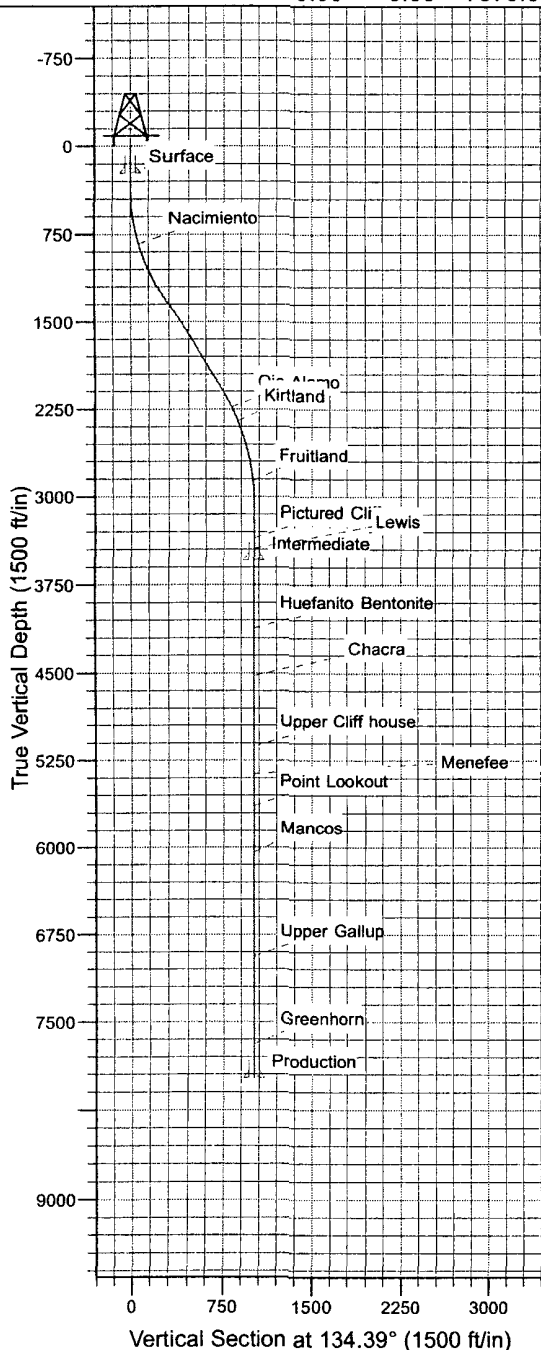
SECTION DETAILS

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	1346.8	30.80	134.39	1298.1	-188.5	192.5	3.00	134.39	269.4	
4	2265.3	30.80	134.39	2086.9	-517.5	528.7	0.00	0.00	739.8	
5	3292.1	0.00	0.00	3065.0	-706.0	721.2	3.00	180.00	1009.2	SJ 32-7 #8B - VACP
6	3768.1	0.00	0.00	3541.0	-706.0	721.2	0.00	0.00	1009.2	SJ 32-7 #8B - ICP
7	8206.1	0.00	0.00	7979.0	-706.0	721.2	0.00	0.00	1009.2	SJ 32-7 #8B - PCP

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
833.0	839.4	Nacimiento
2233.0	2431.2	Ojo Alamo
2351.0	2560.3	Kirtland
2865.0	3091.7	Fruitland
3355.0	3582.1	Pictured Cliffs
3441.0	3668.1	Lewis
4117.0	4344.1	Huefanito Bentonite
4522.0	4749.1	Chacra
5127.0	5354.1	Upper Cliff house
5331.0	5558.1	Massive Cliffhouse
5363.0	5590.1	Menefee
5641.0	5868.1	Point Lookout
6043.0	6270.1	Mancos
6935.0	7162.1	Upper Gallup
7689.0	7916.1	Greenhorn
7750.0	7977.1	Graneros
7852.0	8079.1	Two Wells
7867.0	8094.1	Paguate
7877.0	8104.1	Upper Cubero
7901.0	8128.1	Lower Cubero
7939.0	8166.1	Encinal
7979.0	8206.1	Total Depth

T
M
Azimuths to True North
Magnetic North: 9.92°
Magnetic Field
Strength: 50911.8snT
Dip Angle: 63.68°
Date: 10/12/2010
Model: BGGM2010



CONOCOPHILLIPS COMPANY

SAN JUAN 32-7 UNIT #8A

1412' FSL, 1208' FWL

SECTION 17, T-31-N, R-7-W, N.M.P.M.,

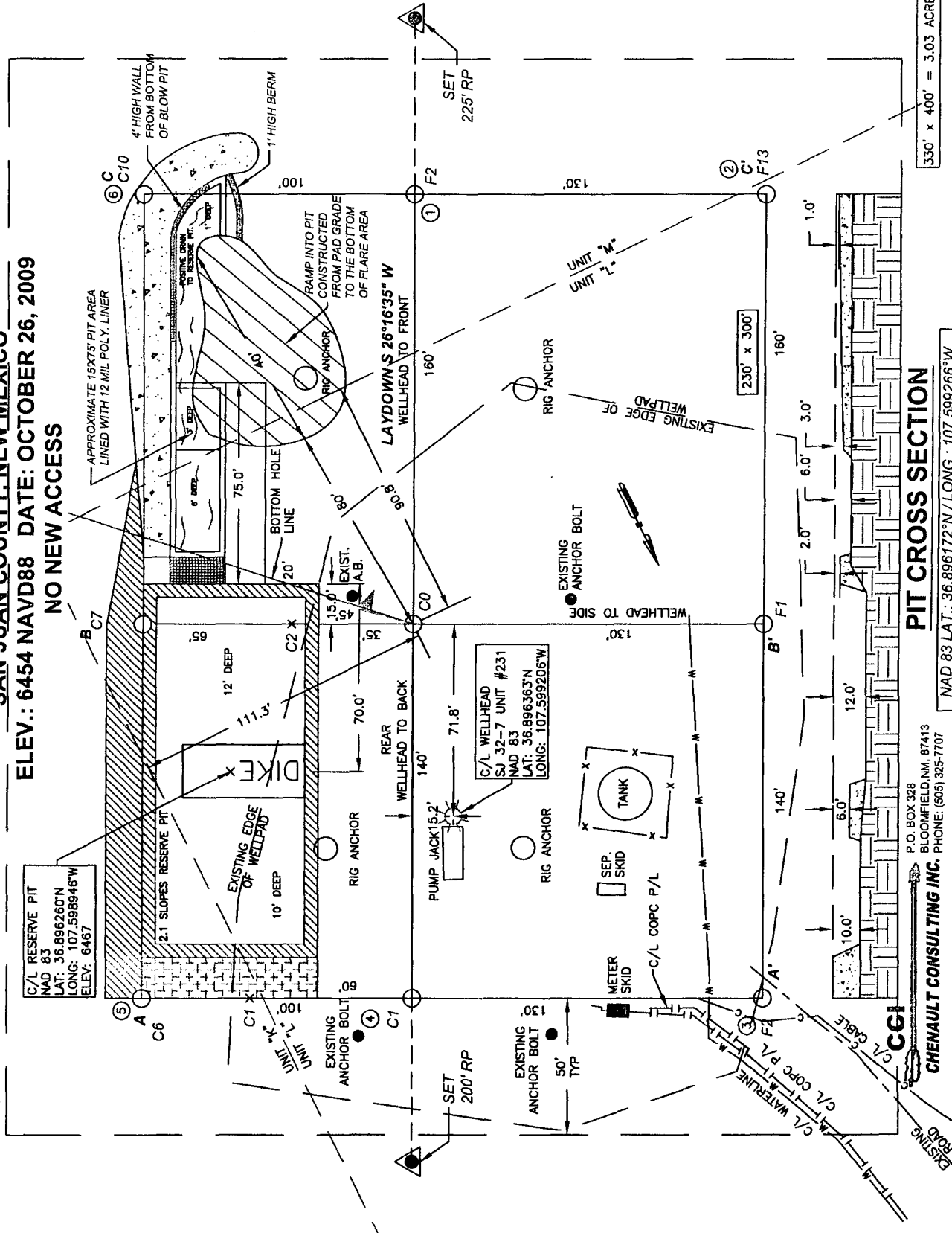
SAN JUAN COUNTY, NEW MEXICO

ELEV.: 6454 NAVD88 DATE: OCTOBER 26, 2009

NO NEW ACCESS

BASIS OF BEARING IS THE NEW MEXICO STATE
PLANE COORDINATE SYSTEM, WEST ZONE, NAD 83
AS DETERMINED BY GPS OBSERVATION AND
NGS/OPUS SOLUTION.

C/L RESERVE PIT
NAD 83
LAT: 36.896260°N
LONG: 107.598946°W
ELEV: 6467



NOTES:

1. RESERVE PIT DIKE: TO BE 8' ABOVE DEEP SIDE (OVERFLOW-3' WIDE AND 1' ABOVE SHALLOW SIDE).
2. C.C.I. SURVEYS IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

PIT CROSS SECTION

NAD 83 LAT.: 36.896172°N / LONG.: 107.599266°W

P.O. BOX 328
BLOOMFIELD, NM, 87413
CHENAULT CONSULTING INC. PHONE: (505) 325-7707

CONOCOPHILLIPS COMPANY

SAN JUAN 32-7 UNIT #8A
1412' FSL, 1208' FWL
SECTION 17, T-31-N, R-7-W, N.M.P.M.,
SAN JUAN COUNTY, NEW MEXICO
NAD 83 LAT.: 36.896172°N LONG.: 107.599266°W
ELEV.: 6454 NAVD88
NO NEW ACCESS

FROM IGNACIO, COLORADO:

- GO 11.9 MI. SOUTHEASTERLY TOWARDS ALLISON ON HWY. 151. TURN RIGHT (SOUTH) ON C.R. 330.
- GO 2.0 MI. SOUTH. TURN RIGHT (WEST) ON C.R. 4020.
- GO 2.0 MI. WEST AND SOUTH UPHILL ON C.R. 4020. CONTINUE STRAIGHT (SOUTH) AT ROAD INTERSECTION (BY SELFS PROPERTY GATE).
- CONTINUE 5.6 MI. SOUTH AND SOUTHEAST ON PINE RIVER ROAD TO C.R. 4000 INTERSECTION.
- GO 2.8 MI. SOUTH ON C.R. 4000. STAY RIGHT AT JUNCTION OF C.R. 2018. CONTINUE ON C.R. 4000.
- GO 0.5 MI. SOUTH. TURN RIGHT (WEST).
- GO 0.6 MI. WEST & SOUTH TO COPC SJ 32-7 UNIT #231 LOCATION. NEW WELL TWINNED HERE.