

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

JAN 14 2011

1a. Type of Work DRILL	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		5. Lease Number SF-080854 Farmington Field Office Unit Reporting Number Land Management NmNm-78424A-MV NmNm-78424D-DK
1b. Type of Well GAS			6. If Indian, All. or Tribe
2. Operator ConocoPhillips	Company		7. Unit Agreement Name San Juan 32-8 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700			8. Farm or Lease Name
4. Location of Well Surf: Unit G(SWNE), 1697' FNL & 1415' FEL BH :Unit H(SENW), 2100' FNL & 840' FEL Surf: Latitude: 36.899657° N (NAD83) Longitude: 107.641095° W BH: Latitude: 36.898537° N (NAD83) Longitude: 107.639113° W	10. Field, Pool, Wildcat Basin DK/Blanco MV		9. Well Number 30
	11. Sec., Twn, Rge, Mer. (NMPM) Sec. 14, T31N, R8W		API # 30-045- 35228
14. Distance in Miles from Nearest Town 35 Miles from Bloomfield	12. County San Juan	13. State NM	
15. Distance from Proposed Location to Nearest Property or Lease Line 840'	17. Acres Assigned to Well 320.00 Acres-DK/MV (W/2) E		
16. Acres in Lease 952.760	18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 285.7' from San Juan 32-8 Unit #244 (FC)		
19. Proposed Depth 8107'	20. Rotary or Cable Tools Rotary		
21. Elevations (DF, FT, GR, Etc.) 6578' GL	22. Approx. Date Work will Start		
23. Proposed Casing and Cementing Program See Operations Plan attached			
24. Authorized by: Brandie Blakley	Date 1-11-11		
Brandie Blakley (Staff Regulatory Tech)			

Hold C104

for Directional Survey
and "As Drilled" plat

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOCD FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOCD PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

PERMIT NO. APPROVAL DATE
APPROVED BY [Signature] TITLE AFM DATE 6/23/11

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

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

JUL 25 2011

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

NOTIFY AZ:EC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

JAN 14 2011

Armington Field Office
Plat

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-045-35228		² Pool Code 71599/72319		³ Pool Name Basin DAKOTA / MESAVERDE	
⁴ Property Code 31330		⁵ Property Name SAN JUAN 32-8 UNIT			⁶ Well Number 30
⁷ OGRID No. 217817		⁸ Operator Name CONOCOPHILLIPS COMPANY			⁹ Elevation 6578

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
G	14	31-N	8-W		1697	NORTH	1415	EAST	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
H	14	31-N	8-W		2100	NORTH	840	EAST	SAN JUAN

¹² Dedicated Acres 320.00 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		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: <i>Brandie Blakley</i> Printed Name: Brandie Blakley Title and E-mail Address: Staff Regulatory Technician Date: 08-23-10	
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: 7/07/10 Signature and Seal of Professional Surveyor: <i>Henry P. Broadhurst</i> 	
E/2 DEDICATED ACREAGE USA SF-080854 SECTION 14, T-31-N, R-8-W		Certificate Number: NM 11393	

CONOCOPHILLIPS COMPANY

SAN JUAN 32-8 UNIT #30

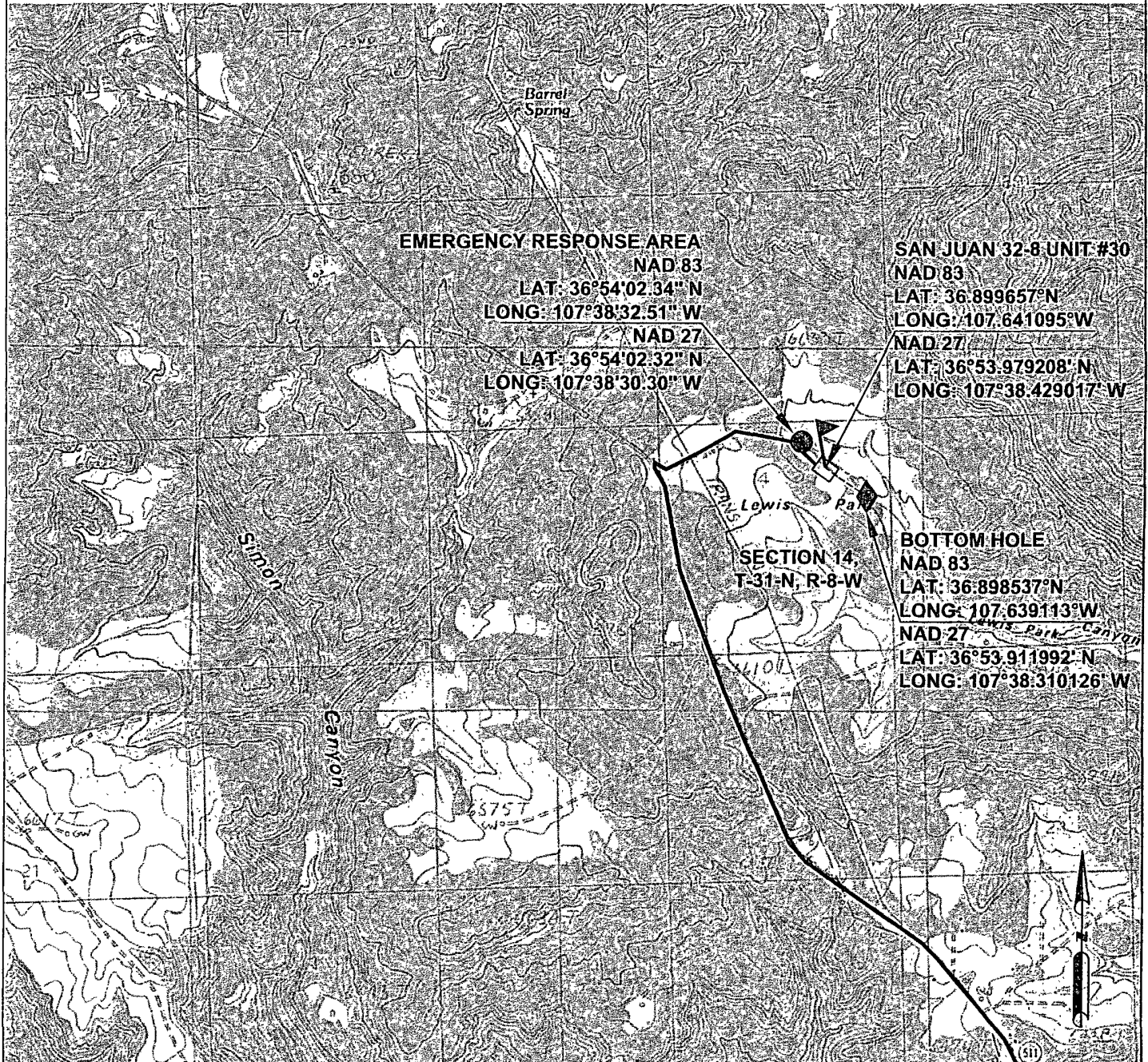
1697' FNL, 1415' FEL

SECTION 14, T-31-N, R-8-W, N.M.P.M.,

SAN JUAN COUNTY, NEW MEXICO

ELEV.: 6578 NAVD88

NO NEW ACCESS



0 1000' 2000' 4000'

NOTE..

REVISIONS

NO	DESCRIPTION	REVISED BY	DATE
1	ISSUED FOR REVIEW	LH	6/07/10
2	WELL MOVE	TJR	7/07/10

CCI

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

CHENAULT CONSULTING INC.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 32-8 UNIT 30

DEVELOPMENT

Lease:		AFE #: WAN.CNV.7125		AFE \$: 1,545,580.39	
Field Name: 32-8		Rig: Aztec Rig 920		State: NM	County: SAN JUAN
Geologist:		Phone:		Geophysicist:	
Geoscientist:		Phone:		Phone: +1 832-486-3486	
Res. Engineer: McKee, Cory J		Phone: +1 505-326-9826		Prod. Engineer: Piotrowicz, Greg M.	
				Phone: +1-432-368-1215	
Proj. Field Lead: Fransen, Eric E.					
Primary Objective (Zones):					
Zone	Zone Name				
R20076	DAKOTA(R20076)				
R20002	MESAVERDE(R20002)				
Location: Surface Datum Code: NAD 27 Directional					
Latitude: 36.899653	Longitude: -107.640483	X:	Y:	Section: 14	Range: 008W
Footage X: 1415 FEL	Footage Y: 1697 FNL	Elevation: 6578	(FT)	Township: 031N	
Tolerance:					
Location: Bottom Hole Datum Code: NAD 27 Directional					
Latitude: 36.898533	Longitude: -107.638501	X:	Y:	Section: 14	Range: 008W
Footage X: 1465 FEL	Footage Y: 2100 FNL	Elevation:	(FT)	Township: 031N	
Tolerance: 840					
Location Type: Restricted		Start Date (Est.): 1/1/2012		Completion Date:	
Date In Operation:					
Formation Data: Assume KB = 6593 Units = FT					
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)
BHT	Remarks				
Surface Casing	200	6393		☐	12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 121 cuft. Circulate cement to surface.
NACIMIENTO	881	5712		☐	
OJO ALAMO	2304	4289		☐	
KIRTLAND	2396	4197		☐	
FRUITLAND	2983	3610		☐	Possible Gas
PICTURED CLIFFS	3475	3118		☐	
LEWIS	3585	3008		☐	
Intermediate Casing	3685	2908		☐	128 8 3/4" Hole. 7", 23 ppf, J-55, LTC Casing. Cement with 848 cuft. Circulate cement to surface.
HUERFANITO BENTONITE	4247	2346		☐	
CHACRA	4641	1952		☐	
UPPER CLIFF HOUSE	5088	1505		☐	Gas; Est. Top Perf - 5090 (1503)
MASSIVE CLIFF HOUSE	5426	1167		☐	596 Gas; Cliff House is dry
MENEFEE	5475	1118		☐	
POINT LOOKOUT	5785	808		☐	
MANCOS	6129	464		☐	
UPPER GALLUP	7090	-497		☐	
GREENHORN	7819	-1226		☐	
GRANEROS	7872	-1279		☐	
TWO WELLS	7976	-1383		☐	3420 Gas
PAGUATE	7995	-1402		☐	
UPPER CUBERO	8008	-1415		☐	

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 32-8 UNIT 30

DEVELOPMENT

LOWER CUBERO	8037	-1444	☐	Est. Btm Perf - 8087 (- 1494) based on offset wells
ENCINAL	8107	-1514	☐	
Total Depth	8107	-1514	☐	6-1/4" hole, 4-1/2" 11.6 ppf, L-80, LTC casing. Cement w/ 601 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	SJ 32-8 303	14-31N-8W-NW, KB = 6656

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 the Mancos to TD and mudlogger will call TD.
Weatherford cuttings from Mancos to Dakota.

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

REFERENCE INFORMATION

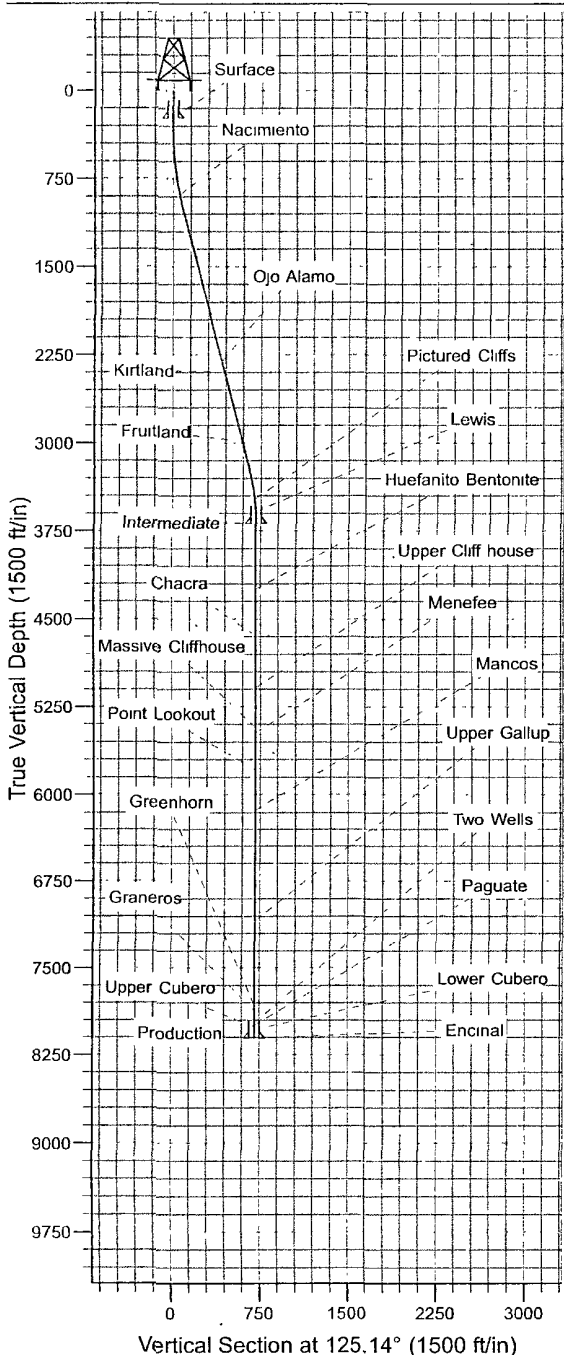
RKB @ 6593.0ft (AWS Rig)
Ground Elevation 6578.0
Reference Lat: 36° 53' 58.752 N
Reference Long: 107° 38' 25.741 W

Project: San Juan Basin - New Mexico Wells
Site: San Juan 32 Wells
Well: SJ 32-8 #30
Wellbore: Original Hole
Design: Plan #1

ConocoPhillips

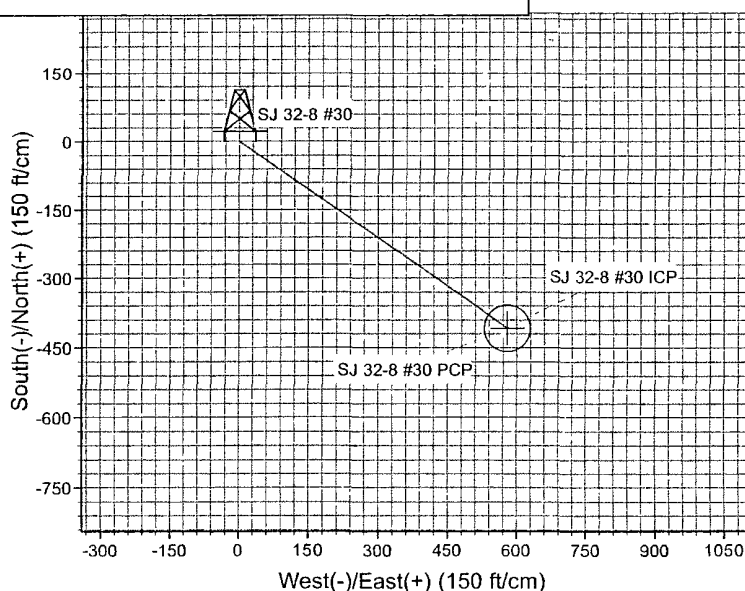
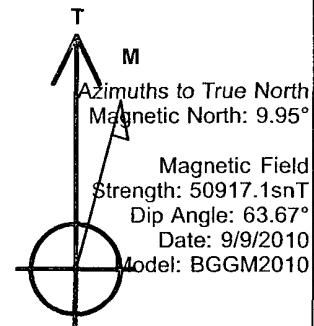
SECTION DETAILS

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	1039.3	14.39	125.14	1031.7	-51.7	73.5	2.00	125.14	89.8	
4	3288.6	14.39	125.14	3210.5	-373.3	530.4	0.00	0.00	648.6	
5	3768.1	0.00	0.00	3685.0	-407.8	579.4	3.00	180.00	708.5	SJ 32-8 #30 ICP
6	8190.1	0.00	0.00	8107.0	-407.8	579.4	0.00	0.00	708.5	SJ 32-8 #30 PCP



FORMATION TOP DETAILS

TVDPath	MDPath	Formation
881.0	884.6	Nacimiento
2304.0	2352.7	Ojo Alamo
2396.0	2447.7	Kirtland
2983.0	3053.7	Fruitland
3475.0	3557.7	Pictured Cliffs
3585.0	3668.0	Lewis
4247.0	4330.1	Huefanito Bentonite
4641.0	4724.1	Chacra
5088.0	5171.1	Upper Cliff house
5426.0	5509.1	Massive Cliffhouse
5475.0	5558.1	Menefee
5785.0	5868.1	Point Lookout
6129.0	6212.1	Mancos
7090.0	7173.1	Upper Gallup
7819.0	7902.1	Greenhorn
7872.0	7955.1	Graneros
7976.0	8059.1	Two Wells
7995.0	8078.1	Pagate
8008.0	8091.1	Upper Cubero
8037.0	8120.1	Lower Cubero
8107.0	8190.1	Encinal



ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 32-8 #30
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6593.0ft (AWS Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6593.0ft (AWS Rig)
Site:	San Juan 32 Wells	North Reference:	True
Well:	SJ 32-8 #30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Project:	San Juan Basin - New Mexico 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 West 3003		Using geodetic scale factor

Site:	San Juan 32 Wells		
Site Position:	Lat/Long	Northing:	2,159,823.69 ft
From:		Easting:	546,813.37 ft
Position Uncertainty:	15.0 ft	Slot Radius:	"
		Latitude:	36° 56' 7.765 N
		Longitude:	107° 40' 23.366 W
		Grid Convergence:	0.10 °

Well:	SJ 32-8 #30; Directional S Curve Short Stepout		
Well Position	+N/-S	0.0 ft	Northing:
	+E/-W	0.0 ft	Easting:
Position Uncertainty	3.5 ft	Wellhead Elevation:	ft
		Latitude:	36° 53' 58.752 N
		Longitude:	107° 38' 25.741 W
		Ground Level:	6,578.0 ft

Wellbore:	Original Hole				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2010	9/9/2010	(°)	(°)	(nT)
			9.95	63.68	50,917

Design:	Plan #1			
Audit Notes:				
Version:	1	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	125.14

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	
320.0	0.00	0.00	320.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,039.3	14.39	125.14	1,031.7	-51.7	73.5	2.00	2.00	0.00	125.14	
3,288.6	14.39	125.14	3,210.5	-373.3	530.4	0.00	0.00	0.00	0.00	
3,768.1	0.00	0.00	3,685.0	-407.8	579.4	3.00	-3.00	0.00	180.00	SJ 32-8 #30 ICP
8,190.1	0.00	0.00	8,107.0	-407.8	579.4	0.00	0.00	0.00	0.00	SJ 32-8 #30 PCP

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 32-8 #30
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6593.0ft (AWS Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6593.0ft (AWS Rig)
Site:	San Juan 32 Wells	North Reference:	True
Well:	SJ 32-8 #30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
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
320.0	0.00	0.00	320.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	1.60	125.14	400.0	-0.6	0.9	1.1	2.00	2.00	0.00
500.0	3.60	125.14	499.9	-3.3	4.6	5.7	2.00	2.00	0.00
600.0	5.60	125.14	599.6	-7.9	11.2	13.7	2.00	2.00	0.00
700.0	7.60	125.14	698.9	-14.5	20.6	25.2	2.00	2.00	0.00
800.0	9.60	125.14	797.8	-23.1	32.8	40.1	2.00	2.00	0.00
884.6	11.29	125.14	881.0	-31.9	45.4	55.5	2.00	2.00	0.00
Nacimiento									
900.0	11.60	125.14	896.0	-33.7	47.9	58.5	2.00	2.00	0.00
1,000.0	13.60	125.14	993.6	-46.2	65.7	80.3	2.00	2.00	0.00
1,039.3	14.39	125.14	1,031.7	-51.7	73.5	89.8	2.00	2.00	0.00
1,100.0	14.39	125.14	1,090.6	-60.4	85.8	104.9	0.00	0.00	0.00
1,200.0	14.39	125.14	1,187.4	-74.7	106.1	129.8	0.00	0.00	0.00
1,300.0	14.39	125.14	1,284.3	-89.0	126.4	154.6	0.00	0.00	0.00
1,400.0	14.39	125.14	1,381.2	-103.3	146.7	179.4	0.00	0.00	0.00
1,500.0	14.39	125.14	1,478.0	-117.6	167.1	204.3	0.00	0.00	0.00
1,600.0	14.39	125.14	1,574.9	-131.9	187.4	229.1	0.00	0.00	0.00
1,700.0	14.39	125.14	1,671.8	-146.2	207.7	254.0	0.00	0.00	0.00
1,800.0	14.39	125.14	1,768.6	-160.5	228.0	278.8	0.00	0.00	0.00
1,900.0	14.39	125.14	1,865.5	-174.8	248.3	303.7	0.00	0.00	0.00
2,000.0	14.39	125.14	1,962.3	-189.1	268.6	328.5	0.00	0.00	0.00
2,100.0	14.39	125.14	2,059.2	-203.4	289.0	353.3	0.00	0.00	0.00
2,200.0	14.39	125.14	2,156.1	-217.7	309.3	378.2	0.00	0.00	0.00
2,300.0	14.39	125.14	2,252.9	-232.0	329.6	403.0	0.00	0.00	0.00
2,352.7	14.39	125.14	2,304.0	-239.5	340.3	416.1	0.00	0.00	0.00
Ojo Alamo									
2,400.0	14.39	125.14	2,349.8	-246.3	349.9	427.9	0.00	0.00	0.00
2,447.7	14.39	125.14	2,396.0	-253.1	359.6	439.7	0.00	0.00	0.00
Kirtland									
2,500.0	14.39	125.14	2,446.7	-260.6	370.2	452.7	0.00	0.00	0.00
2,600.0	14.39	125.14	2,543.5	-274.9	390.5	477.6	0.00	0.00	0.00
2,700.0	14.39	125.14	2,640.4	-289.2	410.9	502.4	0.00	0.00	0.00
2,800.0	14.39	125.14	2,737.3	-303.4	431.2	527.3	0.00	0.00	0.00
2,900.0	14.39	125.14	2,834.1	-317.7	451.5	552.1	0.00	0.00	0.00
3,000.0	14.39	125.14	2,931.0	-332.0	471.8	576.9	0.00	0.00	0.00
3,053.7	14.39	125.14	2,983.0	-339.7	482.7	590.3	0.00	0.00	0.00
Fruitland									
3,100.0	14.39	125.14	3,027.9	-346.3	492.1	601.8	0.00	0.00	0.00
3,200.0	14.39	125.14	3,124.7	-360.6	512.4	626.6	0.00	0.00	0.00
3,288.6	14.39	125.14	3,210.5	-373.3	530.4	648.6	0.00	0.00	0.00
3,300.0	14.04	125.14	3,221.6	-374.9	532.7	651.4	3.00	-3.00	0.00
3,400.0	11.04	125.14	3,319.2	-387.4	550.5	673.2	3.00	-3.00	0.00
3,500.0	8.04	125.14	3,417.8	-397.0	564.1	689.7	3.00	-3.00	0.00
3,557.7	6.31	125.14	3,475.0	-401.1	569.9	696.9	3.00	-3.00	0.00
Pictured Cliffs									
3,600.0	5.04	125.14	3,517.1	-403.5	573.4	701.1	3.00	-3.00	0.00
3,668.0	3.00	125.14	3,585.0	-406.3	577.3	705.9	3.00	-3.00	0.00

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 32-8 #30
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6593 0ft (AWS Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6593 0ft (AWS Rig)
Site:	San Juan 32 Wells	North Reference:	True
Well:	SJ 32-8 #30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
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)	
Lewis										
3,700.0	2.04	125.14	3,616.9	-407.1	578.4	707.3	3.00	-3.00	0.00	
3,768.1	0.00	0.00	3,685.0	-407.8	579.4	708.5	3.00	-3.00	0.00	
Intermediate - SJ 32-8 #30 ICP										
3,800.0	0.00	0.00	3,716.9	-407.8	579.4	708.5	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,816.9	-407.8	579.4	708.5	0.00	0.00	0.00	
4,000.0	0.00	0.00	3,916.9	-407.8	579.4	708.5	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,016.9	-407.8	579.4	708.5	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,116.9	-407.8	579.4	708.5	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,216.9	-407.8	579.4	708.5	0.00	0.00	0.00	
4,330.1	0.00	0.00	4,247.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Huefanito Bentonite										
4,400.0	0.00	0.00	4,316.9	-407.8	579.4	708.5	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,416.9	-407.8	579.4	708.5	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,516.9	-407.8	579.4	708.5	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,616.9	-407.8	579.4	708.5	0.00	0.00	0.00	
4,724.1	0.00	0.00	4,641.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Chacra										
4,800.0	0.00	0.00	4,716.9	-407.8	579.4	708.5	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,816.9	-407.8	579.4	708.5	0.00	0.00	0.00	
5,000.0	0.00	0.00	4,916.9	-407.8	579.4	708.5	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,016.9	-407.8	579.4	708.5	0.00	0.00	0.00	
5,171.1	0.00	0.00	5,088.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Upper Cliff house										
5,200.0	0.00	0.00	5,116.9	-407.8	579.4	708.5	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,216.9	-407.8	579.4	708.5	0.00	0.00	0.00	
5,400.0	0.00	0.00	5,316.9	-407.8	579.4	708.5	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,416.9	-407.8	579.4	708.5	0.00	0.00	0.00	
5,509.1	0.00	0.00	5,426.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Massive Cliffhouse										
5,558.1	0.00	0.00	5,475.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Menefee										
5,600.0	0.00	0.00	5,516.9	-407.8	579.4	708.5	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,616.9	-407.8	579.4	708.5	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,716.9	-407.8	579.4	708.5	0.00	0.00	0.00	
5,868.1	0.00	0.00	5,785.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Point Lookout										
5,900.0	0.00	0.00	5,816.9	-407.8	579.4	708.5	0.00	0.00	0.00	
6,000.0	0.00	0.00	5,916.9	-407.8	579.4	708.5	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,016.9	-407.8	579.4	708.5	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,116.9	-407.8	579.4	708.5	0.00	0.00	0.00	
6,212.1	0.00	0.00	6,129.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Mancos										
6,300.0	0.00	0.00	6,216.9	-407.8	579.4	708.5	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,316.9	-407.8	579.4	708.5	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,416.9	-407.8	579.4	708.5	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,516.9	-407.8	579.4	708.5	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,616.9	-407.8	579.4	708.5	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,716.9	-407.8	579.4	708.5	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,816.9	-407.8	579.4	708.5	0.00	0.00	0.00	
7,000.0	0.00	0.00	6,916.9	-407.8	579.4	708.5	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,016.9	-407.8	579.4	708.5	0.00	0.00	0.00	

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Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 32-8 #30
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6593 0ft (AWS Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6593 0ft (AWS Rig)
Site:	San Juan 32 Wells	North Reference:	True
Well:	SJ 32-8 #30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
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)	
7,173.1	0.00	0.00	7,090.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Upper Gallup										
7,200.0	0.00	0.00	7,116.9	-407.8	579.4	708.5	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,216.9	-407.8	579.4	708.5	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,316.9	-407.8	579.4	708.5	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,416.9	-407.8	579.4	708.5	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,516.9	-407.8	579.4	708.5	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,616.9	-407.8	579.4	708.5	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,716.9	-407.8	579.4	708.5	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,816.9	-407.8	579.4	708.5	0.00	0.00	0.00	
7,902.1	0.00	0.00	7,819.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Greenhorn										
7,955.1	0.00	0.00	7,872.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Graneros										
8,000.0	0.00	0.00	7,916.9	-407.8	579.4	708.5	0.00	0.00	0.00	
8,059.1	0.00	0.00	7,976.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Two Wells										
8,078.1	0.00	0.00	7,995.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Paguate										
8,091.1	0.00	0.00	8,008.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Upper Cubero										
8,100.0	0.00	0.00	8,016.9	-407.8	579.4	708.5	0.00	0.00	0.00	
8,120.1	0.00	0.00	8,037.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Lower Cubero										
8,190.1	0.00	0.00	8,107.0	-407.8	579.4	708.5	0.00	0.00	0.00	
Encinal - Production - SJ 32-8 #30 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
SJ 32-8 #30 ICP	- plan hits target center - Circle (radius 50.0)	0.00	0.00	3,685.0	-407.8	579.4	2,146,388.16	556,969.19	36° 53' 54.720 N	107° 38' 18.608 W
SJ 32-8 #30 PCP	- plan hits target center - Circle (radius 50.0)	0.00	0.00	8,107.0	-407.8	579.4	2,146,388.13	556,969.18	36° 53' 54.720 N	107° 38' 18.608 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	
3,768.1	3,685.0	Intermediate	7	8-3/4	
8,190.1	8,107.0	Production	4-1/2	6-1/4	

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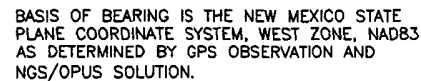
Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 32-8 #30
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6593.0ft (AWS Rig)
Project:	San Juan Basin - New Mexico Wells	MD Reference:	RKB @ 6593.0ft (AWS Rig)
Site:	San Juan 32 Wells	North Reference:	True
Well:	SJ 32-8 #30	Survey Calculation Method:	Minimum Curvature
Wellbore:	Original Hole		
Design:	Plan #1		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
8,120.1	8,037.0	Lower Cubero		0.00		
5,509.1	5,426.0	Massive Cliffhouse		0.00		
7,955.1	7,872.0	Graneros		0.00		
884.6	881.0	Nacimiento		0.00		
3,053.7	2,983.0	Fruitland		0.00		
7,173.1	7,090.0	Upper Gallup		0.00		
5,558.1	5,475.0	Menefee		0.00		
4,724.1	4,641.0	Chacra		0.00		
8,059.1	7,976.0	Two Wells		0.00		
8,078.1	7,995.0	Paguate		0.00		
8,190.1	8,107.0	Encinal		0.00		
3,557.7	3,475.0	Pictured Cliffs		0.00		
4,330.1	4,247.0	Huefanito Bentonite		0.00		
5,171.1	5,088.0	Upper Cliff house		0.00		
2,447.7	2,396.0	Kirtland		0.00		
2,352.7	2,304.0	Ojo Alamo		0.00		
3,668.0	3,585.0	Lewis		0.00		
7,902.1	7,819.0	Greenhorn		0.00		
8,091.1	8,008.0	Upper Cubero		0.00		
5,868.1	5,785.0	Point Lookout		0.00		
6,212.1	6,129.0	Mancos		0.00		

NO NEW ACCESS

SEASONAL DRAINAGE
(3'D X 8'W)



330' x 400' = 3.03 ACRES

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.

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