

UNITED STATES

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

2007 JUL 18 PM 3:04

1a. Type of Work DRILL	5. Lease Number SF-078995 Unit Reporting Number
1b. Type of Well GAS	6. If Indian, All. or Tribe
2. Operator ConocoPhillips	7. Unit Agreement Name San Juan 31-6 Unit
3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700	8. Farm or Lease Name 9. Well Number #45N
4. Location of Well Surf: Unit P (SESE), 480' FSL & 130' FEL, BH: Unit J (NWSE), 1380' FSL & 1475' FEL, Surf: Latitude 36° 51.0146 N Longitude 107° 29.6874 W BH: Latitude 36° 51.1537N Longitude 107° 29.9820 W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 31, T31N, R6W API # 30-039-30298
14. Distance in Miles from Nearest Town 49 miles/ Blanco	12. County Rio Arriba 13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 130'	
16. Acres in Lease	17. Acres Assigned to Well MV/DK 320 (E/2)
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1640' from San Juan 31-6 Unit 10	
19. Proposed Depth 7922' TVD/ 8293' TMD	20. Rotary or Cable Tools Rotary
21. Elevations (DF, FT, GR, Etc.) 6436' GL	22. Approx. Date Work will Start RCVD JUL 25 '07 OIL CONS. DIV. DIST. 3
23. Proposed Casing and Cementing Program See Operations Plan attached	
24. Authorized by: <u>Rhonda Rogers</u> Rhonda Rogers (Regulatory Technician)	7-18-07 Date

[Handwritten initials]

PERMIT NO.	APPROVAL DATE
APPROVED BY <u>[Signature]</u>	TITLE <u>Acting AFM Minerals</u> DATE <u>7/25/07</u>

Archaeological Report attached
 Threatened and Endangered Species Report attached
 NOTE: This format is issued in lieu of U.S. BLM Form 3160-3
 Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or presentations as to any matter within its jurisdiction.

Example Master Plan Type 3
 Bond Numbers ES-0048 and ES-0085
 800-07 BH
 NMOC
 NOTIFY AZTEC OGD 24 HRS. PRIOR TO CASING & CEMENT

HOLD ON FOR directional survey
 Gas drilled C-102 for BHZ.

Test BOPE minimum 750 psi

DISTRICT I
1625 N. French Dr., Hobbs, N.M. 88240

DISTRICT II
1301 West 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

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 - 4 Copies
Fee Lease - 3 Copies

RECEIVED
OIL
213 543100

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT, NM

¹ API Number 30-039-30298		² Pool Code 72319/71599	³ Pool Name Basin Dakota/Blanco Mesaverde
⁴ Property Code 31328	⁵ Property Name SAN JUAN 31-6 UNIT		⁶ Well Number 45N
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY		⁹ Elevation 6436'

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
P	31	31-N	6-W		480'	SOUTH	130'	EAST	RIO ARRIBA

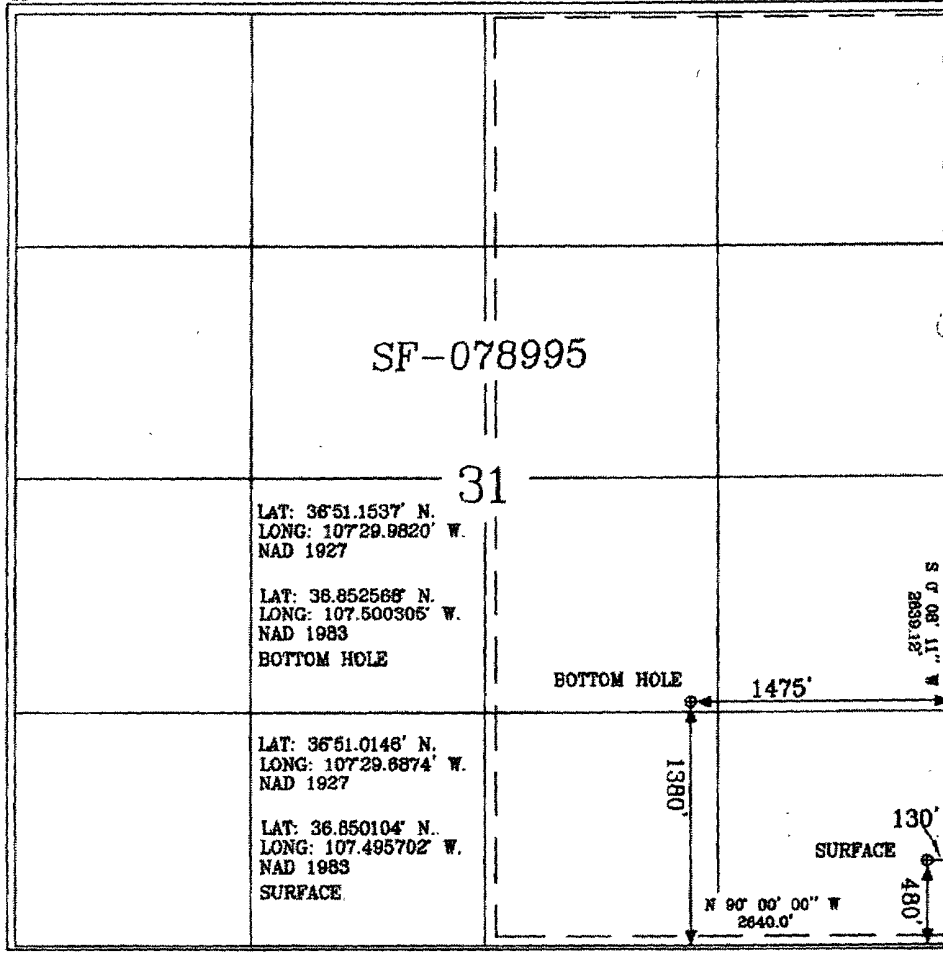
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	31	31-N	6-W		1380'	SOUTH	1475'	EAST	RIO ARRIBA

¹² Dedicated Acres 320. 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 a working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division.

Rhonda Rogers
Signature
Rhonda Rogers
Printed Name
7-10-07

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.

3-7-07
Date of Survey
Signature and Seal of Professional Surveyor:
Calvin W. Russell
Certificate Number 15703

Submit 3 Copies To Appropriate District Office
 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 1301 W. Grand Ave., 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 and Natural Resources
OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

Form C-103
 May 27, 2004

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)		WELL API NO. 30-039- 30298
1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other		5. Indicate Type of Lease STATE <input type="checkbox"/> FEE <input type="checkbox"/>
2. Name of Operator ConocoPhillips		6. State Oil & Gas Lease No. Federal Lease SF-078995
3. Address of Operator 3401 E. 30TH STREET, FARMINGTON, NM 87402		7. Lease Name or Unit Agreement Name San Juan 31-6 Unit
4. Well Location Unit Letter <u>P</u> : <u>480'</u> feet from the <u>South</u> line and <u>130'</u> feet from the <u>East</u> line Section <u>31</u> Township <u>31N</u> Rng <u>6W</u> NMPM County <u>Rio Arriba</u>		8. Well Number #45N
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 6436'		9. OGRID Number 217817
Pit or Below-grade Tank Application <input type="checkbox"/> or Closure <input type="checkbox"/>		10. Pool name or Wildcat Blanco MV/Basin DK
Pit type <u>New Drill</u> Depth to Groundwater <u>>100</u> Distance from nearest fresh water well <u>>1000'</u> Distance from nearest surface water <u>>200</u> Pit Liner Thickness: <u>NA</u> mil Below-Grade Tank: <u>Volume</u> bbls: Construction Material <u>21000</u>		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK <input type="checkbox"/>	PLUG AND ABANDON <input type="checkbox"/>	REMEDIAL WORK <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
TEMPORARILY ABANDON <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	COMMENCE DRILLING OPNS <input type="checkbox"/>	P AND A <input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	MULTIPLE COMPL <input type="checkbox"/>	CASING/CEMENT JOB <input type="checkbox"/>	
OTHER: <u>New Drill</u> <input checked="" type="checkbox"/>		OTHER: <input type="checkbox"/>	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 1103 For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

New Drill, Unlined:

ConocoPhillips proposes to construct a new drilling pit, an associated vent/flare pit and a pre-set mud pit (if required) Based on ConocoPhillips' interpretation of the Ecosphere's risk ranking criteria, the new drilling pit and pre-set mud pit will be unlined pits as detailed in ConocoPhillips' General Plan dated June 2005 on file at the NMOCD office. A portion of the vent/flare pit will be designed to manage fluids and that portion will be unlined as per the risk ranking criteria. ConocoPhillips anticipates closing these pits according to the November 1, 2004 Guidelines.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines , a general permit or an (attached) alternative OCD-approved plan .

SIGNATURE Rhonda Rogers TITLE Regulatory Technician DATE 7-17-07

Type or print name Rhonda Rogers E-mail address: rogerrs@conocophillips.com Telephone No 505-599-4018

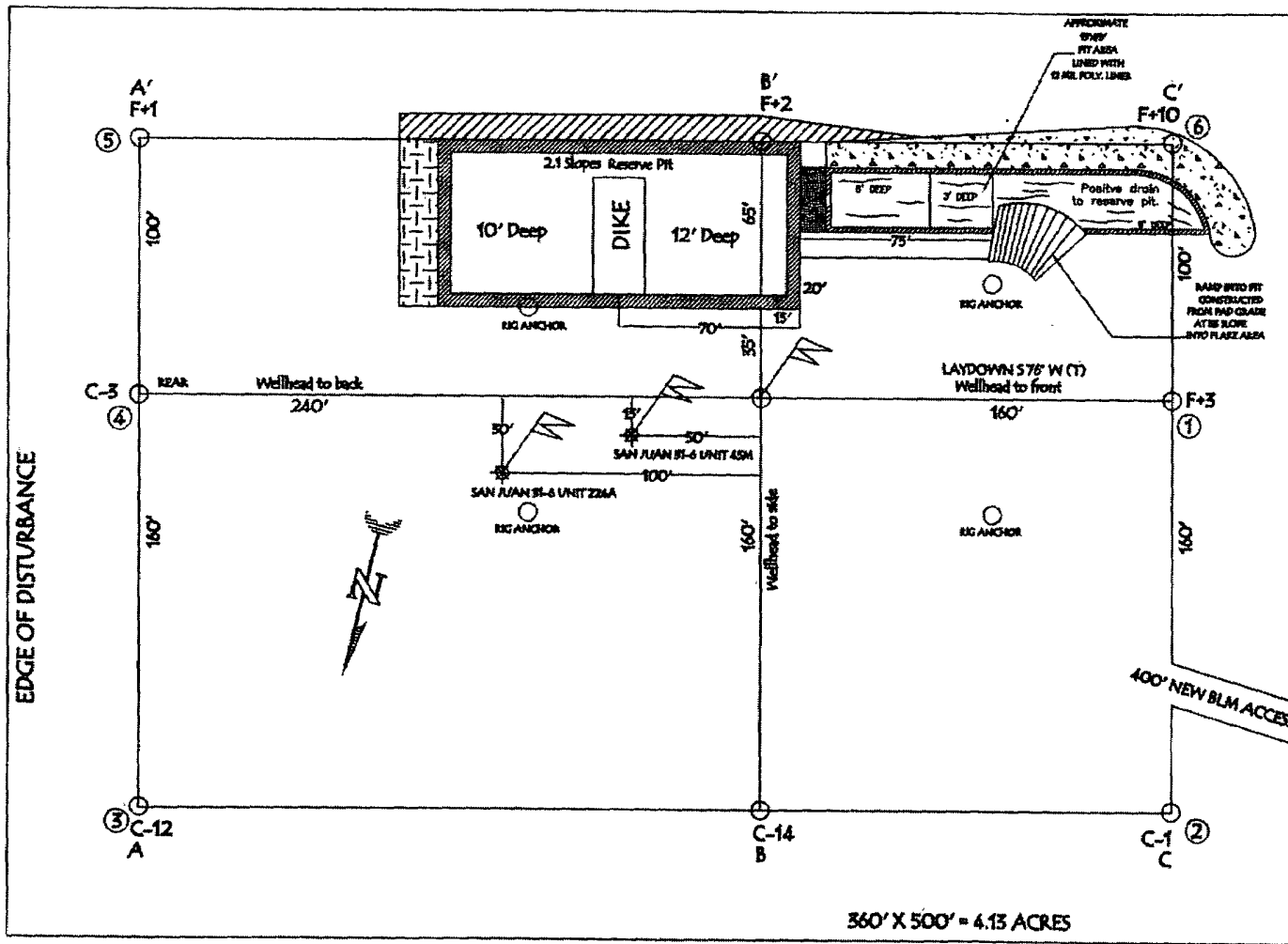
For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE AUG 06 2007

Conditions of Approval (if any):

CONOCOPHILLIPS COMPANY
SAN JUAN 31-6 UNIT 45N, 480' FSL & 130' FEL
SECTION 31, T-31- N, R-6-W, NMPM, RIO ARRIBA COUNTY, NM
GROUND ELEVATION: 6436', DATE: AUGUST 9, 2006

RESERVE PIT DIKE TO BE 8' ABOVE DEEP SIDE (OVERFLOW - 3' WIDE AND 1' ABOVE SHALLOW SIDE).



360' X 500' = 4.13 ACRES

LATITUDE: 36° 51.0146'N LONGITUDE: 107° 29.6874'W NAD27

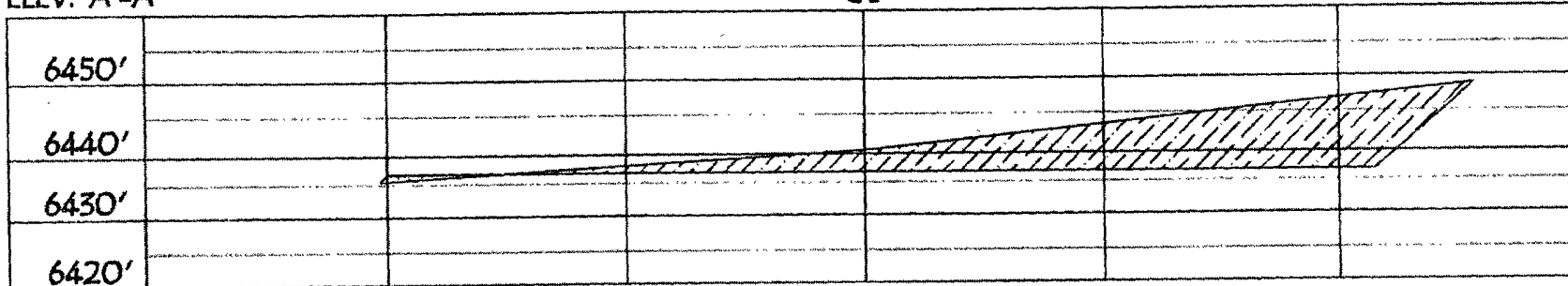
NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND/OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

CONOCOPHILLIPS COMPANY

SAN JUAN 31-6 UNIT 45N, 480' FSL & 130' FEL
 SECTION 31, T-31- N, R-6-W, NMPM, RIO ARRIBA COUNTY, NM
 GROUND ELEVATION: 6436', DATE: AUGUST 9, 2006

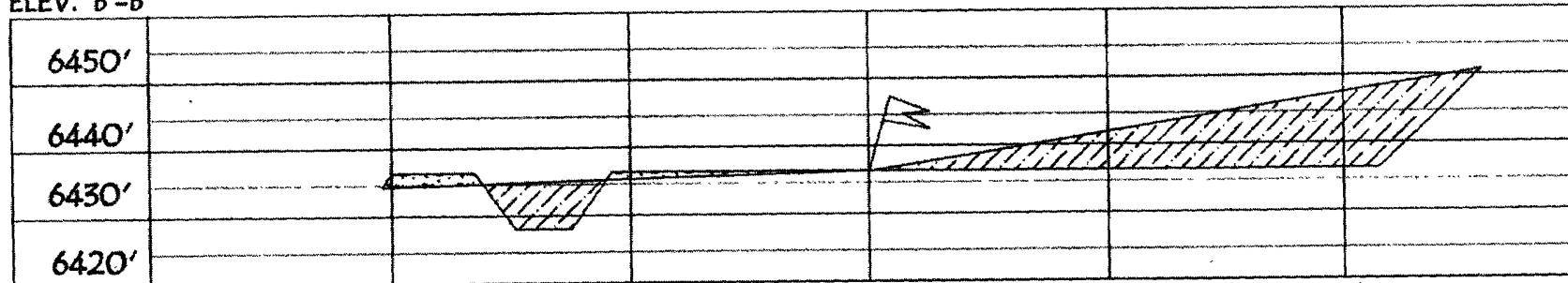
ELEV. A'-A

CL



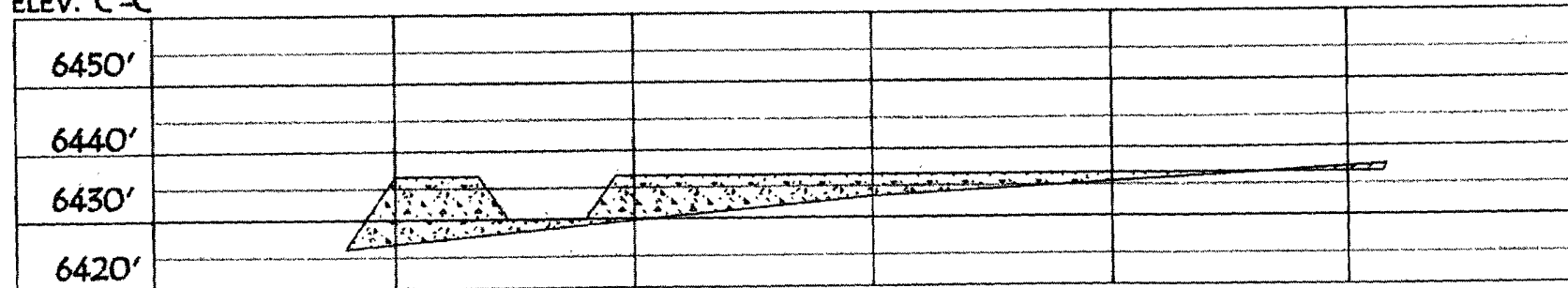
ELEV. B'-B

CL



ELEV. C'-C

CL



NOTE: VECTOR SURVEYS LLC 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.

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 45N

DEVELOPMENT

Lease:		AFE #: WAN.CNV.7210		AFE \$:	
Field Name: 31-6		Rig: Aztec Riq 730		State: NM	County: RIO ARRIBA
API #:		Geologist:		Phone:	
Geoscientist: Glaser, Terry J		Phone: (832)486-2332		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead: Fransen, Eric E.	
Phone:		Phone:		Phone:	

Primary Objective (Zones):

Zone	Zone Name
R20002	MESAVERDE(R20002)
R20076	DAKOTA(R20076)

Location: Surface Datum Code: NAD 27 Deviated

Latitude: 36.850098	Longitude: -107.495097	X: 598963.00	Y: 2128872.00	Section: 31	Range: 006W
Footage X: 130 FEL	Footage Y: 480 FSL	Elevation: 6436 (FT)	Township: 031N		

Tolerance:

Location: Bottom Hole Datum Code: NAD 27 Deviated

Latitude: 36.852562	Longitude: -107.499700	X: 597176.00	Y: 2130596.00	Section: 31	Range: 006W
Footage X: 1475 FEL	Footage Y: 1380 FSL	Elevation: (FT)	Township: 031N		

Tolerance:

Location Type: Restricted Start Date (Est.): Completion Date: Date In Operation:

Formation Data: Assume KB = 6450 Units = FT

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	213	6237	<input type="checkbox"/>			12-1/4" hole, 9-5/8" 32.3 ppf, H-40, STC casing. Cement w/ 203 cuft. Circulate Cmt to surface.
NCMT	1250	5200	<input type="checkbox"/>			
OJAM	2548	3902	<input type="checkbox"/>			Possible water flows.
KRLD	2717	3733	<input type="checkbox"/>			
FRLD	2981	3469	<input type="checkbox"/>			Possible gas.
PCCF	3218	3232	<input type="checkbox"/>			
LEWS	3391	3059	<input type="checkbox"/>			
HURF	4082	2368	<input type="checkbox"/>			
Intermediate Casing	4300	2150	<input type="checkbox"/>			8 3/4" hole. 7" 20 ppf J-55, STC casing. Circulate cement to surface. Cement with 1042 cu.ft.
CHRA	4458	1992	<input type="checkbox"/>			
UCLFH	4964	1486	<input type="checkbox"/>			
CLFH	5281	1169	<input type="checkbox"/>			Gas; possibly wet
MENF	5337	1113	<input type="checkbox"/>			Gas.
PTLK	5599	851	<input type="checkbox"/>			Gas.
UPPER GLLP	6839	-389	<input type="checkbox"/>			Gas. Possibly wet.
GRHN	7632	-1182	<input type="checkbox"/>			Gas possible, highly fractured
GRRS	7683	-1233	<input type="checkbox"/>			
TWLS	7800	-1350	<input type="checkbox"/>			Gas
PAGU	7811	-1361	<input type="checkbox"/>			Gas. Highly Fractured.
CBBO	7820	-1370	<input type="checkbox"/>			Gas
CBRL	7857	-1407	<input type="checkbox"/>			

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 31-6 UNIT 45N

DEVELOPMENT

TOTAL DEPTH DK 7922 -1472 2300 6-1/4" Hole. 4-1/2", 10.5/11.6 ppf, J-55 STC/LTC casing. Cement with 467 cuft. Circulate cement a minimum of 100' inside the previous casing string.

Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	SJ 31-6 5	31-31N-6W-SW, KB = 6220
Intermediate	SJ 31-6 50	31-31N-6W-SW, KB = 6208

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

TD Logs: Triple Combo Dipmeter RFT Sonic VSP TDT Other
 CBL/GR

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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Comments: Location/Tops/Logging - TD is 290' below T/GRHN, reach = 1600', Azimuth = 302 degrees MVNM031N006W31SE2 AND DK 31N06W31SE2

Zones - MVNM031N006W31SE2 AND DK 31N06W31SE2

ConocoPhillips Survey Report

Company:	ConocoPhillips Lower 48	Local Co-ordinate Reference:	Well SJ 31-6 #45N
Project:	San Juan Basin	TVD Reference:	WELL @ 6451'0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	MD Reference:	WELL @ 6451'0ft (Original Well Elev)
Well:	SJ 31-6 #45N	North Reference:	True
Wellbore:	SJ 31-6 #45N	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	EDM Central Planning

Planned Survey										
Measured Depth (ft)	Inclination (d)	Azimuth (d)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (d/100ft)	Build Rate (d/100ft)	Turn Rate (d/100ft)	
8,181.9	0.00	0.00	7,811.0	900.0	-1,345.0	1,618.3	0.00	0.00	0.00	
Paguate										
8,190.9	0.00	0.00	7,820.0	900.0	-1,345.0	1,618.3	0.00	0.00	0.00	
Upper Cubero										
8,200.0	0.00	0.00	7,829.1	900.0	-1,345.0	1,618.3	0.00	0.00	0.00	
8,227.9	0.00	0.00	7,857.0	900.0	-1,345.0	1,618.3	0.00	0.00	0.00	
Lower Cubero										
8,292.9	0.00	0.00	7,922.0	900.0	-1,345.0	1,618.3	0.00	0.00	0.00	
TD - SJ 31-6 #45N - PCP										

Targets										
Target Name	Dip Angle (d)	Dip Dir. (d)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude	
SJ 31-6 #45N - ICP - plan hits target - Point	0.00	0.00	4,300.0	900.0	-1,345.0	280.23	-406.06	30° 59' 33.420" N	109° 25' 59.545" W	
SJ 31-6 #45N - PCP - plan hits target - Point	0.00	0.00	7,922.0	900.0	-1,345.0	280.23	-406.06	30° 59' 33.420" N	109° 25' 59.545" W	

Formations							
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)		
1,287.2	1,250.0	Nacimiento		0.00			
2,764.2	2,548.0	Ojo Alamo		0.00			
2,956.5	2,717.0	Kirtland		0.00			
3,257.0	2,981.0	Fruitland		0.00			
3,526.7	3,218.0	Pictured Cliffs		0.00			
3,723.5	3,391.0	Lewis		0.00			
4,452.4	4,082.0	Huerfano Bentonite		0.00			
4,828.9	4,458.0	Chacra		0.00			
5,334.9	4,964.0	Upper Cliff		0.00			
5,651.9	5,281.0	Cliffhouse		0.00			
5,707.9	5,337.0	Menefee		0.00			
5,969.9	5,599.0	Pt Lookout		0.00			
7,209.9	6,839.0	Upper Gallup		0.00			
8,002.9	7,632.0	Greenhorn		0.00			
8,053.9	7,683.0	Graneros		0.00			
8,170.9	7,800.0	Two Wells		0.00			
8,181.9	7,811.0	Paguate		0.00			
8,190.9	7,820.0	Upper Cubero		0.00			
8,227.9	7,857.0	Lower Cubero		0.00			
8,292.9	7,922.0	TD		0.00			

Checked By: _____ Approved By: _____ Date: _____