

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD DEC 18 '07

OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	5. Lease Number NM-SF-078740	
1b. Type of Well GAS	6. If Indian, All. or Tribe	
2. Operator ConocoPhillips	7. Unit Agreement Name NMNM-078419A-MV NMNM-078419B-DK San Juan 30-5 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 Unit C (NENW), 745' FNL & 1785' FWL, Unit F (SENW), 2175, FNL & 2255' FWL, Latitude 36.799409 N. Longitude 107.381945 W.	9. Well Number #27F	
10. Field, Pool, Wildcat Basin Dakota/Mesaverde	11. Sec., Twn, Rge, Mer. (NMPM) C Sec. 20, T30N, R5W Sec. 20, T30N, R5W API # 30-039-36128	
14. Distance in Miles from Nearest Town 47' /Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 745'	17. Acres Assigned to Well 320.00 W/2	
16. Acres in Lease 2560.000	18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 75' /San Juan 30-5 Unit 27M	
19. Proposed Depth 7890' TVD 8208' TMD	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6379' GL	22. Approx. Date Work will Start 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	
23. Proposed Casing and Cementing Program See Operations Plan attached	24. Authorized by: <u>Jamie Goodwin</u> Jamie Goodwin (Regulatory Technician)	

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

DATE

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

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

HOLD CDM FOR

NMOCD

DEC 20 2007

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

DISTRICT I
1825 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 87506

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

DEC 3 2007

Bureau of Land Management
Farmington Field Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039-30128		*Pool Code 71599 7 72319	*Pool Name DAKOTA/MESAVERDE
*Property Code 31327	*Property Name SAN JUAN 30-6 UNIT		*Well Number 27F
*OGRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY		*Elevation 8379'

10 Surface Location

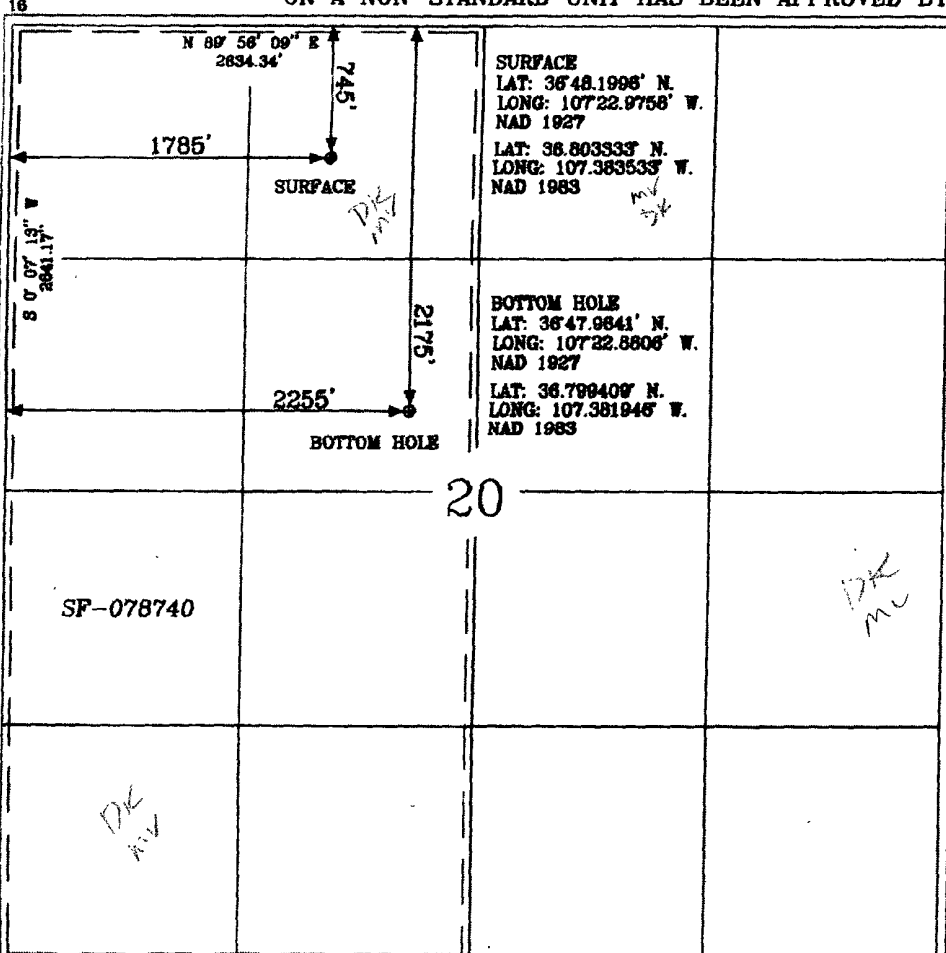
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	20	30-N	5-W		745'	NORTH	1785'	WEST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	20	30-N	5-W		2175'	NORTH	2255'	WEST	RIO ARriba

*Dedicated Acres 320	*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

		17 OPERATOR CERTIFICATION <i>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 undivided 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.</i> Signature: <u>Patsy Clugston</u> 8/28/07 Printed Name: <u>Patsy Clugston</u>
18 SURVEYOR CERTIFICATION <i>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.</i> Date of Survey: <u>8-24-07</u> Signature: <u>Gen W. Russell</u> Certificate Number: <u>15703</u>		

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OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.	30-039- 30128
5. Indicate Type of Lease	STATE ☐ FEE ☒
6. State Oil & Gas Lease No.	SF-078740
7. Lease Name or Unit Agreement Name	San Juan 30-5 Unit
8. Well Number	27F
9. OGRID Number	217817
10. Pool name or Wildcat	Blanco Mesaverde/Basin Dakota

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DFEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well: Oil Well ☐ Gas Well ☒ Other

2. Name of Operator
ConocoPhillips Company

3. Address of Operator
3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location
Unit Letter C : 745' feet from the North line and 1785' feet from the West line
Section 20 Township 30N Rng 5W NMPM County Rio Arriba

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
6379'

Pit or Below-grade Tank Application ☐ or Closure ☒

Pit type New Drill Depth to Groundwater >100' Distance from nearest fresh water well >1000' Distance from nearest surface water >1000'

Pit Liner Thickness: 12 mil Below-Grade Tank: Volume 4400 bbls; Construction Material Synthetic

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: New Drill ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ P AND A ☐
 CASING/CEMENT JOB ☐

OTHER: ☐

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, Lined:

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 lined 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 lined 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 Sasha Spangler TITLE Regulatory Technician DATE 12/3/2007

Type or print name Sasha Spangler E-mail address: spangs@conocophillips.com Telephone No. 505-326-9568

For State Use Only

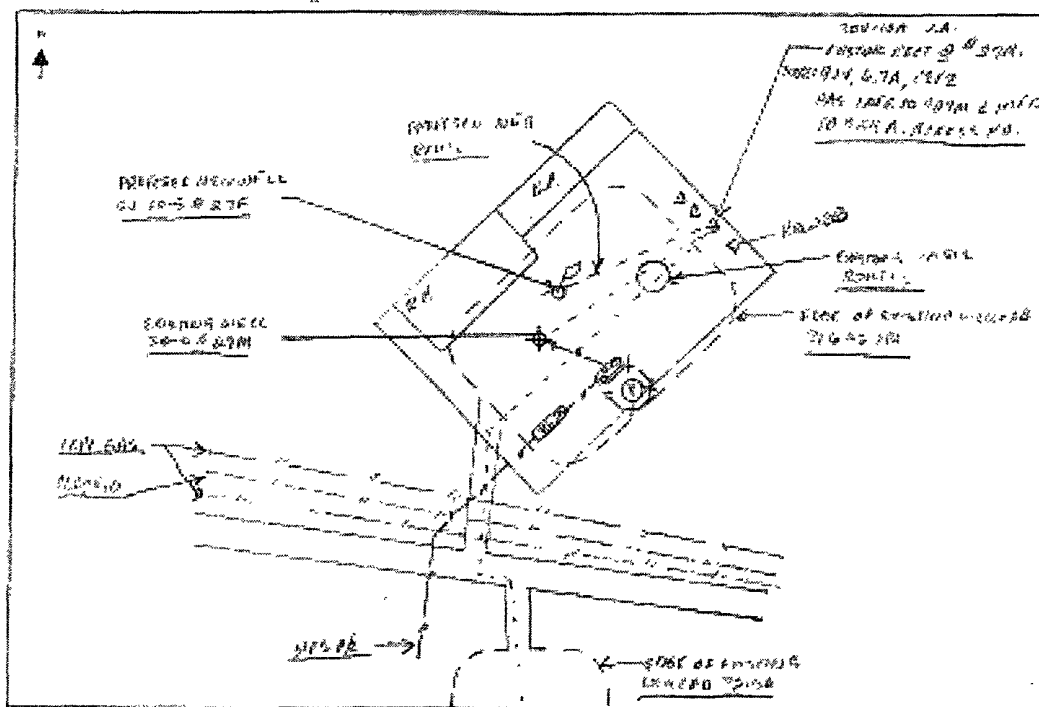
APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE DEC 20 2007

Conditions of Approval (if any):



WELL NAME 51-30-6 #210 LEGALS 5-30-30-6 COUNTY 24

PURPOSED C.P. SYSTEM: HEAVY DUTY 8" NEG FROM EXISTING HEAT IN STP AND
 14" DIA 450 LBS / SEC 432 IN WEST. 14" DIA DUCT TO EXISTING IN 14" DIA. and 14" DIA
 DUCT EA on the column in location.



COMMENTS: γ_i (2.8) was obtained on 2/25 / 91 γ_i / $\ln T_m = 1.4 \text{ atm } 63$

NEAREST POWER SOURCE 115KV ACCT NO# 270190 DISTANCE: 200
PIPELINES IN AREA:

TECHNICIAN: [Signature] DATE: 11-3-07

6 CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-0271 CELL: 505-783-8953

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PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 27F

DEVELOPMENT

Lease:		AFE #: WAN.CBM.7132		AFE \$:	
Field Name: 30-5		Rig: Aztec Rig 673		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist: Head, Chip F		Phone: 505-326-9772		Prod. Engineer:	
Res. Engineer: Prabowo, Wahyu		Phone: 505-326-9797		Proj. Field Lead: Fransen, Eric E.	
Primary Objective (Zones):					
Zone	Zone Name				
R20076	DAKOTA(R20076)				
R20002	MESAVERDE(R20002)				
Location: Surface Datum Code: NAD 27 Deviated					
Latitude: 36.803326	Longitude: -107.382931	X:	Y:	Section: 20	Range: 005W
Footage X: 1785 FWL	Footage Y: 745 FNL	Elevation: 6379	(FT)	Township: 030N	
Tolerance:					
Location: Bottom Hole Datum Code: NAD 27 Deviated					
Latitude: 36.799402	Longitude: -107.381344	X:	Y:	Section: 20	Range: 005W
Footage X: 2255 FWL	Footage Y: 2175 FNL	Elevation:	(FT)	Township: 030N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:	
Formation Data: Assume KB = 6391		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
Surface Casing	200	6191	☐		
OJO ALAMO	2506	3885	☐		
KIRTLAND	2616	3775	☐		
FRUITLAND	2951	3440	☐		Possible Gas
PICTURED CLIFFS	3315	3076	☐		
LEWIS	3416	2975	☐		
HUERFANITO BENTONITE	4088	2303	☐		
CHACRA	4425	1966	☐		
Intermediate Casing	4600	1791	☐		
MASSIVE CLIFF HOUSE	5268	1123	☐	400	
MENEFEE	5306	1085	☐		
MASSIVE POINT LOOKOUT	5551	840	☐		
MANCOS	5804	587	☐		
UPPER GALLUP	6834	-443	☐		
GREENHORN	7561	-1170	☐		
GRANEROS	7617	-1226	☐		
TWO WELLS	7732	-1341	☐	1400	Gas
UPPER CUBERO	7748	-1357	☐		
LOWER CUBERO	7792	-1401	☐		
ENCINAL	7862	-1471	☐		
TOTAL DEPTH DK	7890	-1499	☐		
12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 170 cu. ft. Circulate cement to surface.					
8 3/4" Hole. 7", 23 ppf, L-80, LTC Casing. Cement with 1104 cu. ft. Circulate cement to surface.					
6-1/4" Hole. 4-1/2", 11.6 ppf, L-80 LTC casing. Cement with 451 cu. ft. Circulate cement a minimum of 100' inside the previous casing string.					

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 30-5 UNIT 27F

DEVELOPMENT

Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	SJ 30-5 48	20-30N-5W, KB = 6437
Intermediate	SJ 30-5 89	20-30N-5W, KB = 6425
Intermediate	SJ 30-5 75	21-30N-5W-SW, KB = 6540

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

TD Logs:	☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Mudlog from ~100' above the Greenhorn to TD.	

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

Comments: Location/Tops/Logging - TD is 267' below GRHN

Zones - DK 30N05W20NW2 MVNM030N005W20NW2

General/Work Description - Location Moved due to Access

Project moved from 2008 to 2009 per J. Carrillo 7/9/07 - LM

Project moved from 2007 to 2008 because well will not be ready to drill in time with restrictions 7/3/07 - LM
5/22/07-will pass DD economics per Julian Carrillo. wfp

RAM team needs logs run on this well. The cost for logs on these is \$12K-\$15K, so I'm not sure that would warrant having to re-AFE the projects. Other than capital considerations, our major problem is most of these are on MV/DK wells, so we'll need to verify PC/FTC interest before we can do this. If the interest in the shallow zones differs from the deep horizons, then we may have to write a separate AFE for the logging

ConocoPhillips or its affiliates

Planning Report

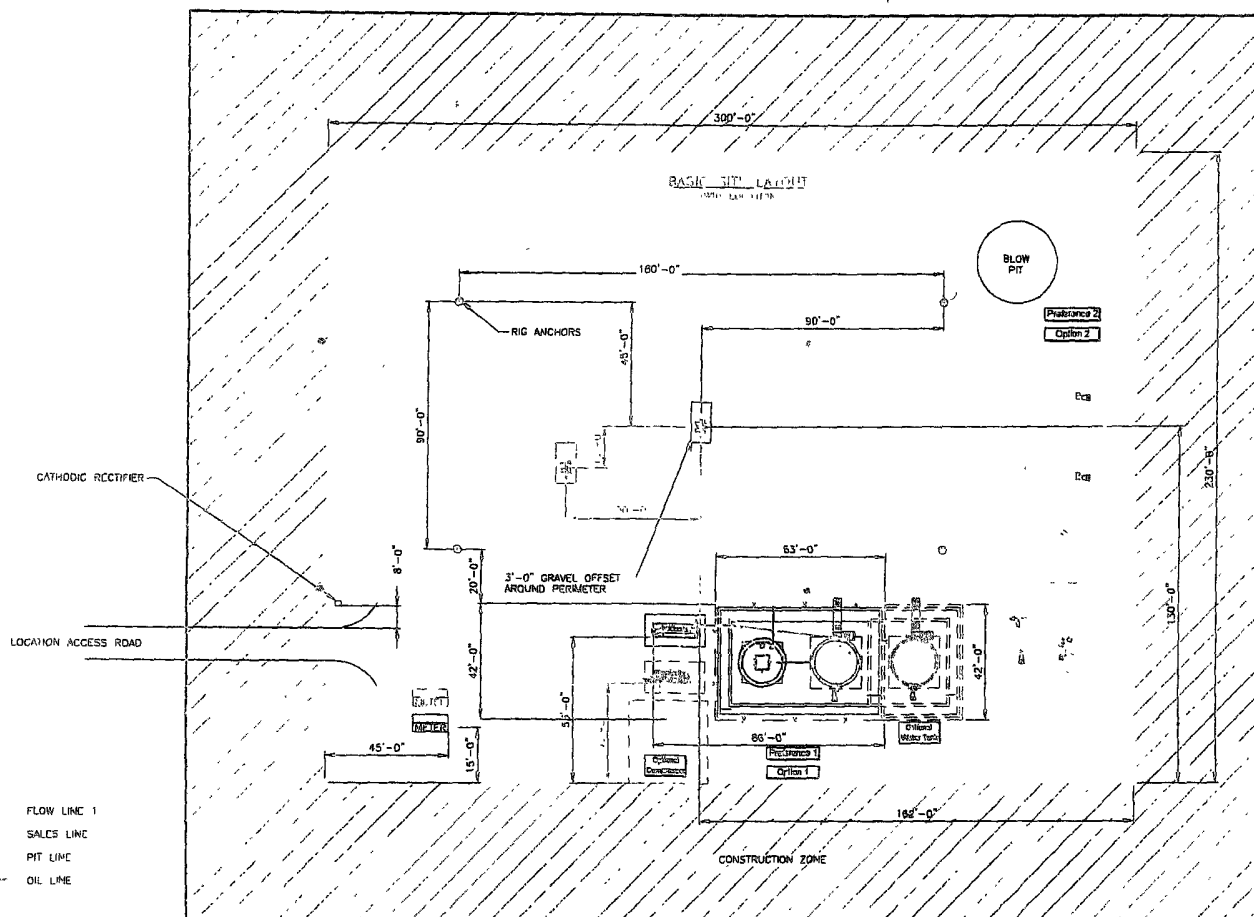
Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 30-5 #27F
Company:	ConocoPhillips SJB	TVD Reference:	Generic Rig RKB @ 6394.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig RKB @ 6394.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 30-5 #27F	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 30-5 #27F		
Design:	APD Directional Plan		

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)
TD - SJ 30-5 #27F - PCP									

Targets									
Target Name	hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (m)	Easting (m)	Latitude Longitude
SJ 30-5 #27F - PCP	- plan hits target	0.00	0.00	7,890.0	-1,429.0	464.6	643,298.06	192,735.87	36° 47' 57.846 N 107° 22' 52.836 W
- Point									
SJ 30-5 #27F - ICP	- plan hits target	0.00	0.00	4,600.0	-1,429.0	464.6	643,298.06	192,735.87	36° 47' 57.846 N 107° 22' 52.836 W
- Point									

Casing Points						Casing Diameter (in)	Hole Diameter (in)
Measured Depth (ft)	Vertical Depth (ft)	Name					
215.0	215.0	9 5/8"				9.625	12.250
4,917.7	4,600.0	7"				7.000	8.750
8,207.6	7,889.9	4 1/2"				4.500	6.250

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
2,641.3	2,506.0	Ojo		0.00		
2,764.7	2,616.0	Kirtland		0.00		
3,140.5	2,951.0	Fruitland		0.00		
3,548.8	3,315.0	Pictured Cliffs		0.00		
3,662.1	3,416.0	Lewis		0.00		
4,399.3	4,088.0	Huerfano Bentonite		0.00		
4,742.4	4,425.0	Chacra		0.00		
5,585.7	5,268.0	Cliffhouse		0.00		
5,623.7	5,306.0	Menefee		0.00		
5,868.7	5,551.0	Point Lookout		0.00		
6,121.7	5,804.0	Mancos		0.00		
7,151.7	6,834.0	Upper Gallup		0.00		
7,878.7	7,561.0	Greenhorn		0.00		
7,934.7	7,617.0	Graneros		0.00		
8,049.7	7,732.0	Two Wells		0.00		
8,065.7	7,748.0	Cubero		0.00		
8,109.7	7,792.0	Lower Cubero		0.00		
8,207.7	7,890.0	TD		0.00		

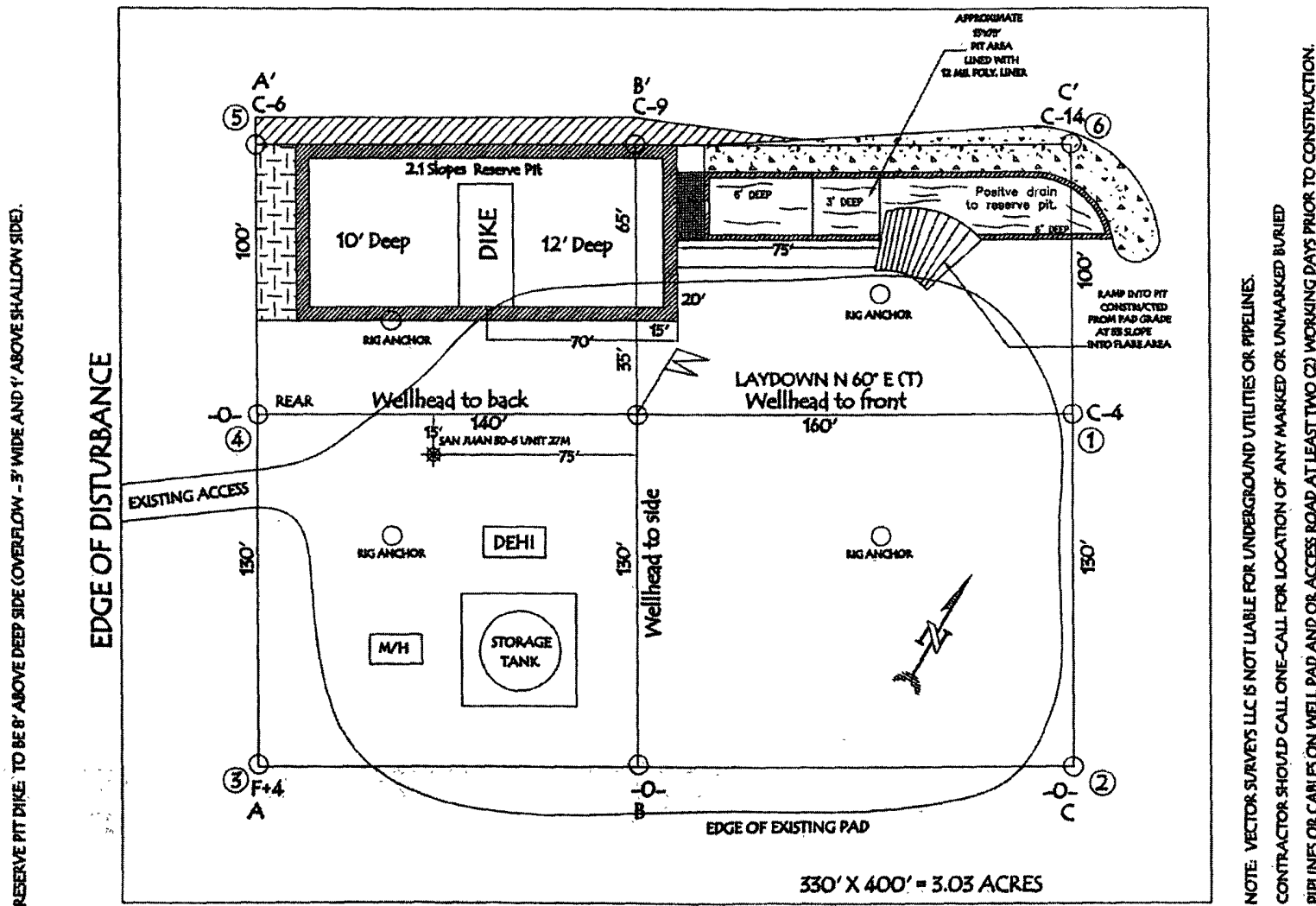


SEE SHEET 2, 3, 4 FOR MORE DETAILS
ALL UNDERGROUND PIPE IS TO BE SURVED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS		CONOCO PHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT				
										DESCRIPTION	DATE	BY	NO.	DESCRIPTION					
										PROCESS									
										MECHANICAL									
										PIPING									
										ELECTRICAL									
										I. & C.									
										CIVIL/STRUCTURAL									
										PROJECT									
DESCRIPTION										DATE	BY	CHKD.	ENG.	DEC.	REV.	SAN JUAN BUSINESS UNIT			
																CLIENT FILE	CLIENT APPR.	APPR. P&E	
																DRAWN BY	SCALE: N.P.C.	CONTINUED: BASIC 6/15/97	
																REV. FILE			
																HP3PHASE-REV1		SHEET NO. 1 OF 5	

CONOCOPHILLIPS COMPANY
SAN JUAN 30-5 UNIT 27F, 745' FNL & 1785' FWL
SECTION 20, T-30-N, R-5-W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6379', DATE: JUNE 18, 2007



LATITUDE: 36° 48.1996'N LONGITUDE: 107° 22.9758'W NAD27

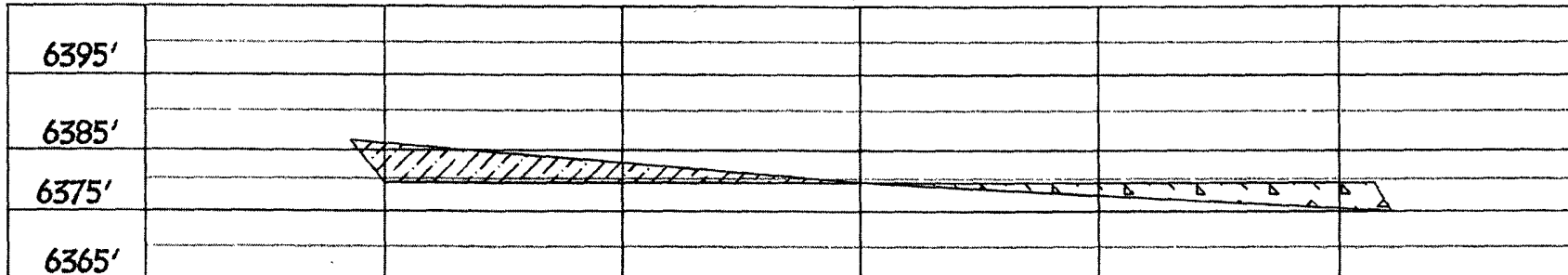
NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

CONOCOPHILLIPS COMPANY

SAN JUAN 30-5 UNIT 27F, 745' FNL & 1785' FWL
SECTION 20, T-30- N, R-5-W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6379', DATE: JUNE 18, 2007

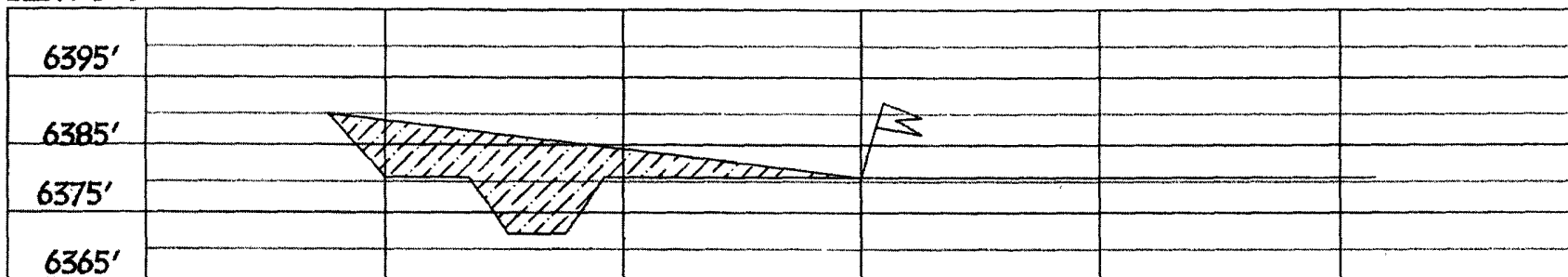
ELEV. A'-A

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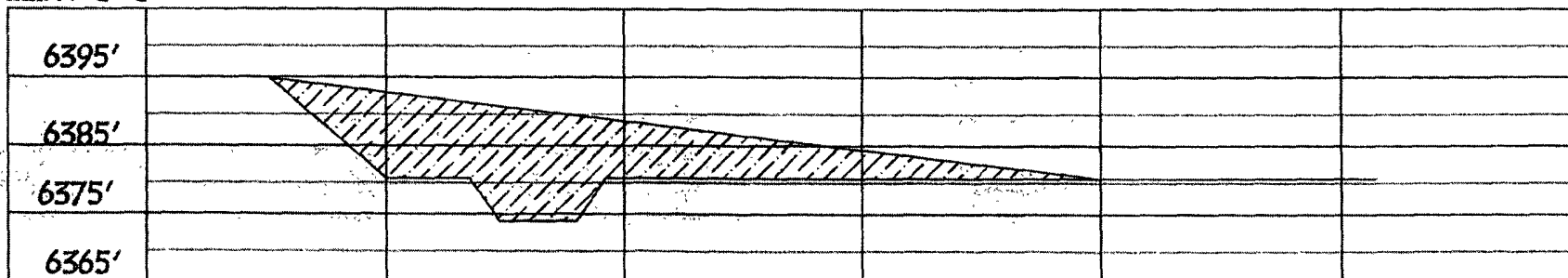
ELEV. B'-B

CL



ELEV. C'-C

CL



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PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.