

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD FEB 25 '08
OIL CONS. DIV.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

DIST. 3

AUG 13 AM 7:27

1a. Type of Work DRILL	5. Lease Number SF-079012 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 #4P	
4. Location of Well Surf: Unit O (SWSE), 1280' FSL & 1655' FEL, BH: Unit P (SESE), 750' FSL & 1000' FEL Surf: Latitude 36° 50.2727 N Longitude 107° 27.8551 W BH: Latitude 36° 50.1848 N Longitude 107° 27.7203 W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) 0 Sec. 4, T30N, R6W API # 30-039-30319	
14. Distance in Miles from Nearest Town 48 miles/Blanco	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 750'		
16. Acres in Lease	17. Acres Assigned to Well MV/DK 320 (E/2)	
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 675' from San Juan 31-6 Unit 205A		
19. Proposed Depth 7959' TVD/8085' TMD	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6433' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: Rhonda Rogers (Regulatory Technician)	8-10-07 Date	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY Wayne Townsend TITLE Acting AFM DATE 2-22-08

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

HOLD C104 FOR Directional Survey/AS drilled C-102

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

NMOC

FEB 26 2008

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
GENERAL REQUIREMENTS

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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 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
210 F.A.D. DIVISION
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30319	² Pool Code 72319/71599	³ Pool Name DAKOTA/MESAVERDE
⁴ Property Code 31328	⁵ Property Name SAN JUAN 31-6 UNIT	⁶ Well Number 4P
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 8433'

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
0	4	30-N	6-W		1280'	SOUTH	1655'	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	4	30-N	6-W		750'	SOUTH	1000'	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

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LOT 8	LOT 7	LOT 6	LOT 5
		SF-079012	
		4	
		LAT: 36°50.2727' N. LONG: 107°27.8551' W. NAD 1927	
		LAT: 36.837885' N. LONG: 107.464857' W. NAD 1983 SURFACE	
		LAT: 36° 50.1848' N. LONG: 107°27.7203' W. NAD 1927	
		LAT: 36.838420' N. LONG: 107.462610' W. NAD 1983 BOTTOM HOLE	
		N 89° 49' 44" W 2840.12'	
		1280'	
		1655'	
		1000'	
		750'	

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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

8-10-07

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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
15703
Certificate Number

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

Energy, Minerals and Natural Resources

OIL CONSERVATION DIVISION

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

WELL API NO.

30-039-30319

5. Indicate Type of Lease

STATE ☐

FEE ☐

6. State Oil & Gas Lease No.

Federal Lease SF-079012

7. Lease Name or Unit Agreement Name

San Juan 31-6 Unit

8. Well Number

#4P

9. OGRID Number

217817

10. Pool name or Wildcat

Blanco MV/Basin DK

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.)

1. Type of Well:

Oil Well ☐

Gas Well ☒

Other

2. Name of Operator

ConocoPhillips

3. Address of Operator

3401 E. 30TH STREET, FARMINGTON, NM 87402

4. Well Location

Unit Letter O

:

1280'

feet from the

South

line and

1655'

feet from the

East

line

Section

4

Township

30N

Rng

6W

NMPM

County

Rio Arriba

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

6433'

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:

NA

mil

Below-Grade Tank:

Volume

bbbs;

Construction Material

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

TEMPORARILY ABANDON ☐

PULL OR ALTER CASING ☐

PLUG AND ABANDON ☐

CHANGE PLANS ☐

MULTIPLE COMPL ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

COMMENCE DRILLING OPNS. ☐

CASING/CEMENT JOB ☐

ALTERING CASING ☐

P AND A ☐

OTHER:

New Drill

☒

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 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

8-10-07

Type or print name

Rhonda Rogers

E-mail address:

rogerrs@conocophillips.com

Telephone No.

505-599-4018

For State Use Only

Deputy Oil & Gas Inspector,
District #3

APPROVED BY

[Signature]

TITLE

DATE

FEB 26 2008

Conditions of Approval (if any):

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 31-6 UNIT 4P

DEVELOPMENT

Lease:		AFE #: WAN.CNV.7215				AFE \$:	
Field Name: 31-6		Rig: XXX 2009 Directional		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Glaser, Terry J		Phone: (832)486-2332		Prod. Engineer:		Phone:	
Res. Engineer: Pena, David Fernando		Phone: 832-486-2328		Proj. Field Lead: Fransen, Eric E.		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.837878	Longitude: -107.464252	X:	Y:	Section: 04	Range: 006W		
Footage X: 1655 FEL	Footage Y: 1280 FSL	Elevation: 6433	(FT)	Township: 030N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.836413	Longitude: -107.462005	X:	Y:	Section: 04	Range: 006W		
Footage X: 1000 FEL	Footage Y: 750 FSL	Elevation:	(FT)	Township: 030N			
Tolerance:							
Location Type: Restricted		Start Date (Est.):		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6449 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	215	6234	☐			12-1/4" hole. 9-5/8", 32.3 ppf, H-40, ST&C casing. Cement with 170 cu. ft. Circulate cement to surface.	
NCMT	1399	5050	☐				
OJAM	2374	4075	☐			Possible water flows.	
KRLD	2574	3875	☐				
FRLD	2999	3450	☐			Possible gas.	
PCCF	3369	3080	☐				
LEWS	3569	2880	☐				
Intermediate Casing	3669	2780	☐			8-3/4" hole. 7", 23.0 ppf, L-80, LT&C casing. Cement with 855 cu. ft. Circulate cement to surface.	
CHRA	4519	1930	☐				
CLFH	5339	1110	☐			Gas; possibly wet	
MENF	5379	1070	☐			Gas.	
PTLK	5624	825	☐	600		Gas.	
MNCS	5874	575	☐				
GLLP	6949	-500	☐			Gas. Possibly wet.	
GRHN	7649	-1200	☐	2800		Gas possible, highly fractured	
GRRS	7705	-1256	☐				
TWLS	7813	-1364	☐			Gas	
PAGU	7822	-1373	☐			Gas. Highly Fractured.	
CBBO	7835	-1386	☐			Gas	
CBRL	7874	-1425	☐				

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 4P

DEVELOPMENT

TD	7959	-1510	☐	6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LT&C casing. Cement with 584 cu. ft. Circulate cement a minimum of 100 ft. inside previous casing string. No open hole logs. Cased hole TDT with GR to surface.
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Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	San Juan 31-6 49	5-30N-6W, KB = 6474

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

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

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

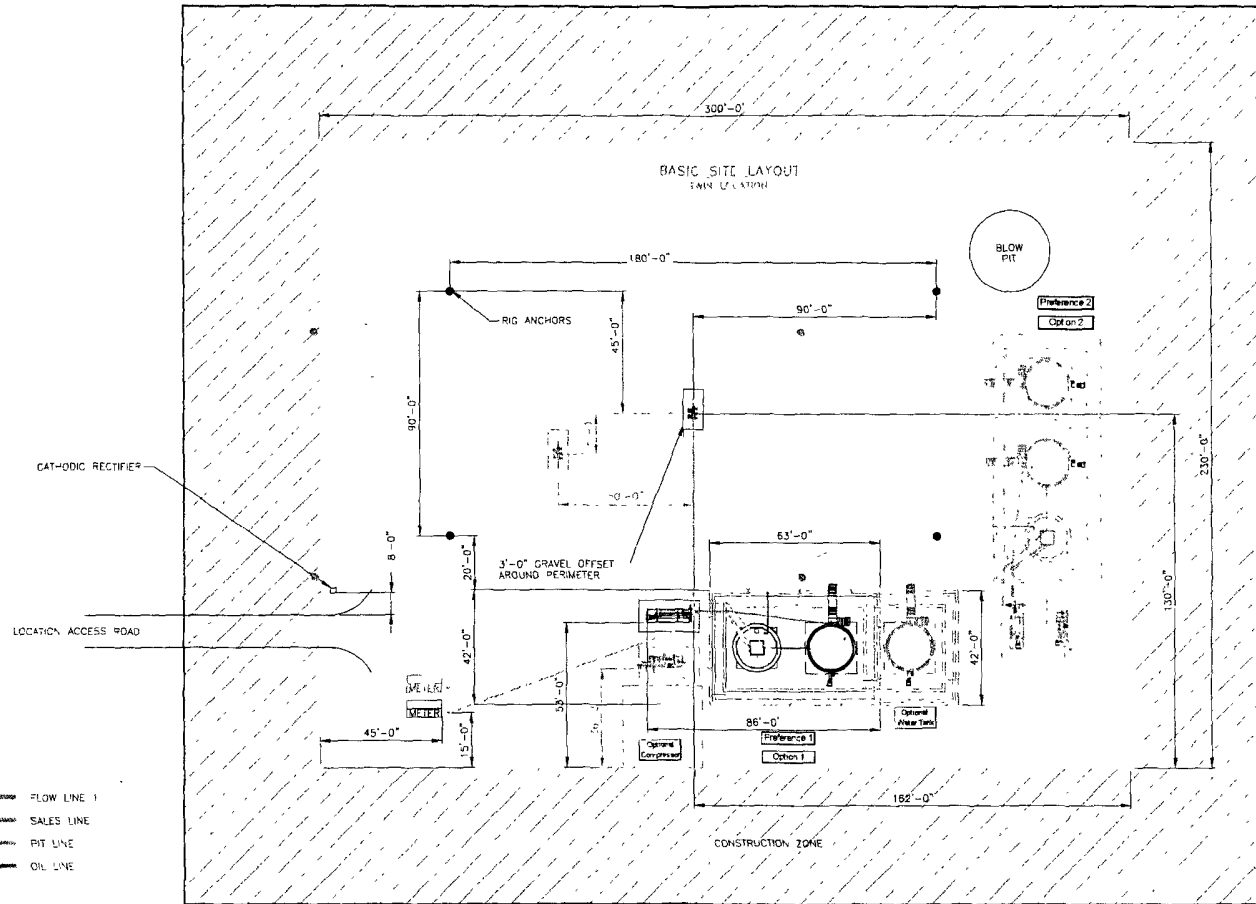
Comments: Location/Tops/Logging - TD is 310' below top of the Greenhorn

ConocoPhillips

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 31-6 #4P
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig KB @ 6448.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig KB @ 6448.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 31-6 #4P	Survey Calculation Method:	Minimum Curvature
Wellbore:	Principal		
Design:	APD Directional Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
1,425.4	1,399.0	Nacimiento		0.00		
2,452.6	2,374.0	Ojo		0.00		
2,663.3	2,574.0	Kirtland		0.00		
3,111.1	2,999.0	Fruitland		0.00		
3,494.0	3,369.0	Pictured Cliffs		0.00		
3,695.2	3,569.0	Lewis		0.00		
4,645.2	4,519.0	Chacra		0.00		
5,465.2	5,339.0	Mass. Cliffhouse		0.00		
5,505.2	5,379.0	Menefee		0.00		
5,750.2	5,624.0	Point Lookout		0.00		
6,000.2	5,874.0	Mancos		0.00		
7,075.2	6,949.0	Upper Gallup		0.00		
7,775.2	7,649.0	Greenhorn		0.00		
7,831.2	7,705.0	Graneros		0.00		
7,939.2	7,813.0	Two Wells		0.00		
7,948.2	7,822.0	Paguate		0.00		
7,961.2	7,835.0	Cubero		0.00		
8,000.2	7,874.0	Lower Cubero		0.00		
8,085.2	7,959.0	TD		0.00		



SEE SHEET 3 & 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPES TO BE BURIED A MIN. OF 3'-0" TOP

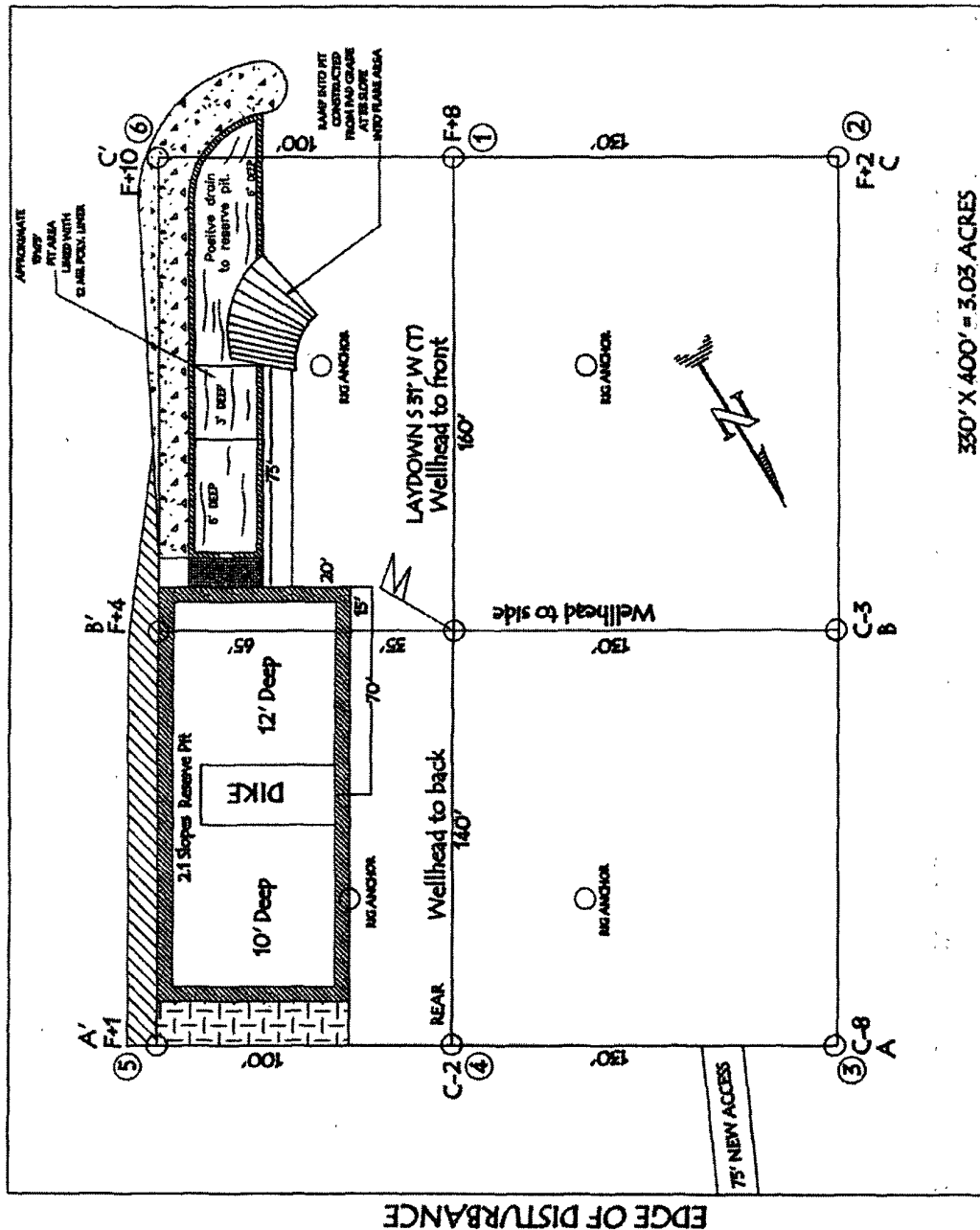
SHEET 1 OF 5

ENGINEERING REVIEW										REFERENCE DRAWINGS		CONOCOPhillips	CONOCOPhillips HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT		
DESCRIPTION	DATE	BY	CHK'D	LINE	DISC	REV	CHECKING	REVIEWED	DATE	NO	DESCRIPTION		CLIENT NO.	CLIENT APPR	APPR DATE
							PROCESS					SAN JUAN BUSINESS UNIT	SCALE: NONE		
							MECHANICAL						DWG NO		CREATION DATE 6/20/07
							PIPING						DRAWN BY		
							ELECTRICAL						HP3PHASE-REV1		SHEET NO 1 OF 5
							I & C								
							CIVIL/STRUCTURAL								
							PROJECT								

San Juan Business Unit, 1101 N. 1st St., Suite 100, San Juan, PR 00901

CONOCOPHILLIPS COMPANY

SAN JUAN 31-6 UNIT 4P, 1280' FSL & 1655' FEL
SECTION 4, T-30-N, R-6-W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6433', DATE: JULY 6, 2006



330' X 400' = 3.03 ACRES

LATITUDE: 36° 50.2727'N LONGITUDE: 107° 27.8551'W NAD27

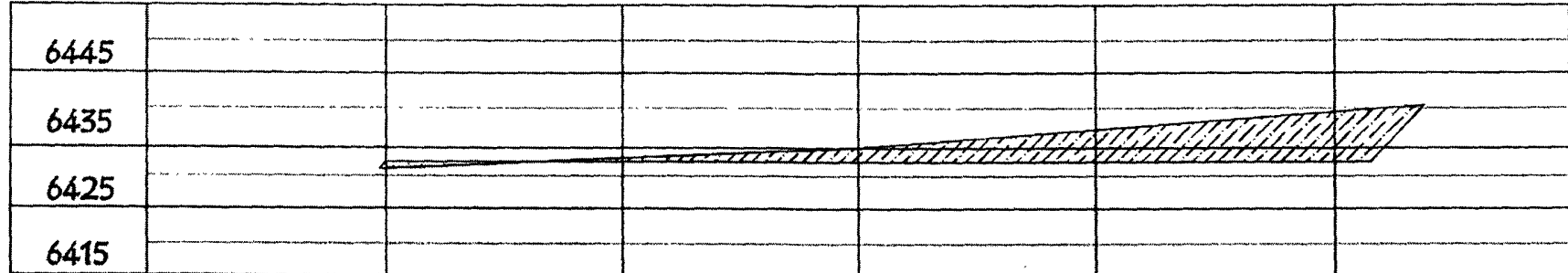
NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

CONOCOPHILLIPS COMPANY

SAN JUAN 31-6 UNIT 4P, 1280' FSL & 1655' FEL
SECTION 4, T-30- N, R-6-W, NMPM, RIO ARRIBA COUNTY, NM
GROUND ELEVATION: 6433', DATE: JULY 6, 2006

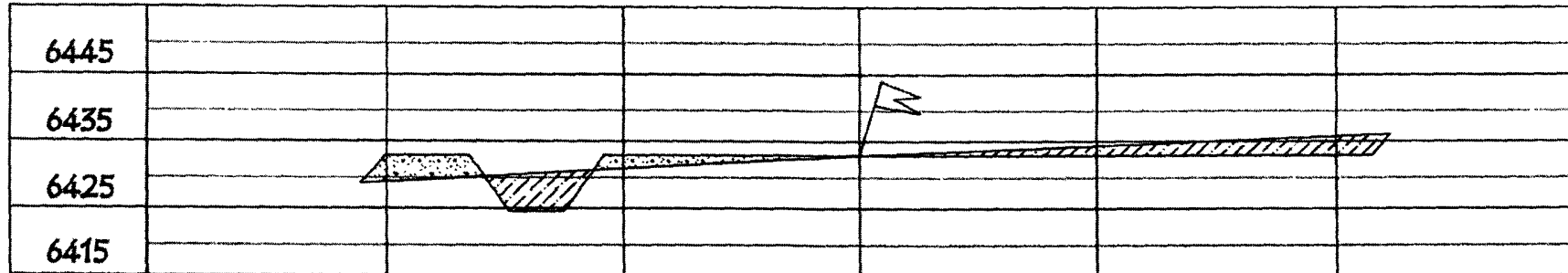
ELEV. A'-A

C/L



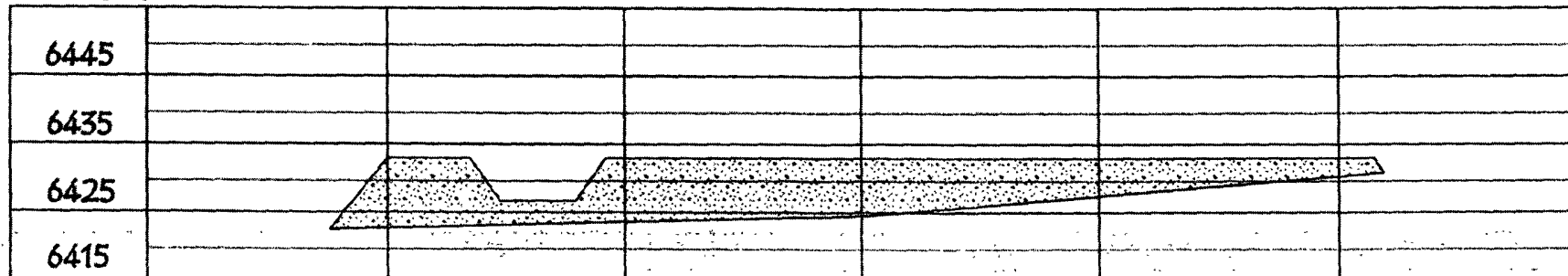
ELEV. B'-B

C/L



ELEV. C'-C

C/L



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CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED
PIPLINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.