

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD FEB 8 '08
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

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 #27M	
4. Location of Well Surf: Unit H (SENE), 2175' FNL & 455' FEL, BH: Unit E (SWNW), 2500' FNL & 700' FNL, Surf: Latitude 36° 52.3092 N Longitude 107° 28.6866 W BH: Latitude 36° 52.2552 N Longitude 107° 28.4499 W	10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) 5H Sec. 29, T31N, R6W BH Sec 28, T31N, R6W API # 30-039-30320	
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 455'		
16. Acres in Lease	17. Acres Assigned to Well DK & MV - 320 - (W/2) Sect 8	
18. Distance from Proposed Location to Nearest Well, Drig. Compl, or Applied for on this Lease 634' from San Juan 31-6 Unit 44		
19. Proposed Depth 8079' TVD/8314' TMD	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6499' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached	HOLD C104 FOR Directional Survey as drilled 2-10-07 8-9-07	
24. Authorized by: Rhonda Rogers (Regulatory Technician)	Date	

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

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

NMOCD

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

FEB 12 2008 -AV

DISTRICT II
 1001 West Grand Avenue, Suite, P.M. 88210

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr
 Santa Fe, NM 87505

Submit to Appropriate District Office
 State Lease - 4 Copies
 Fee Lease - 3 Copies
 2007 AUG 13 AM 7:56
 RECEIVED
 2125-0011
☐ AMENDED REPORT

DISTRICT IV
 200 S. St. Francis Dr., Santa Fe, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

*Well Number 30-039-30320	*Pool Code 72319/71599	*Pool Name Blanco Mesaverde / Basin Dakota
*Property Code 31328	*Property Name SAN JUAN 31-6 UNIT	*Well Number 27M
*ORDN No. 217817	*Operator Name CONOCOPhillips COMPANY	*Elevation 6499'

10 Surface Location

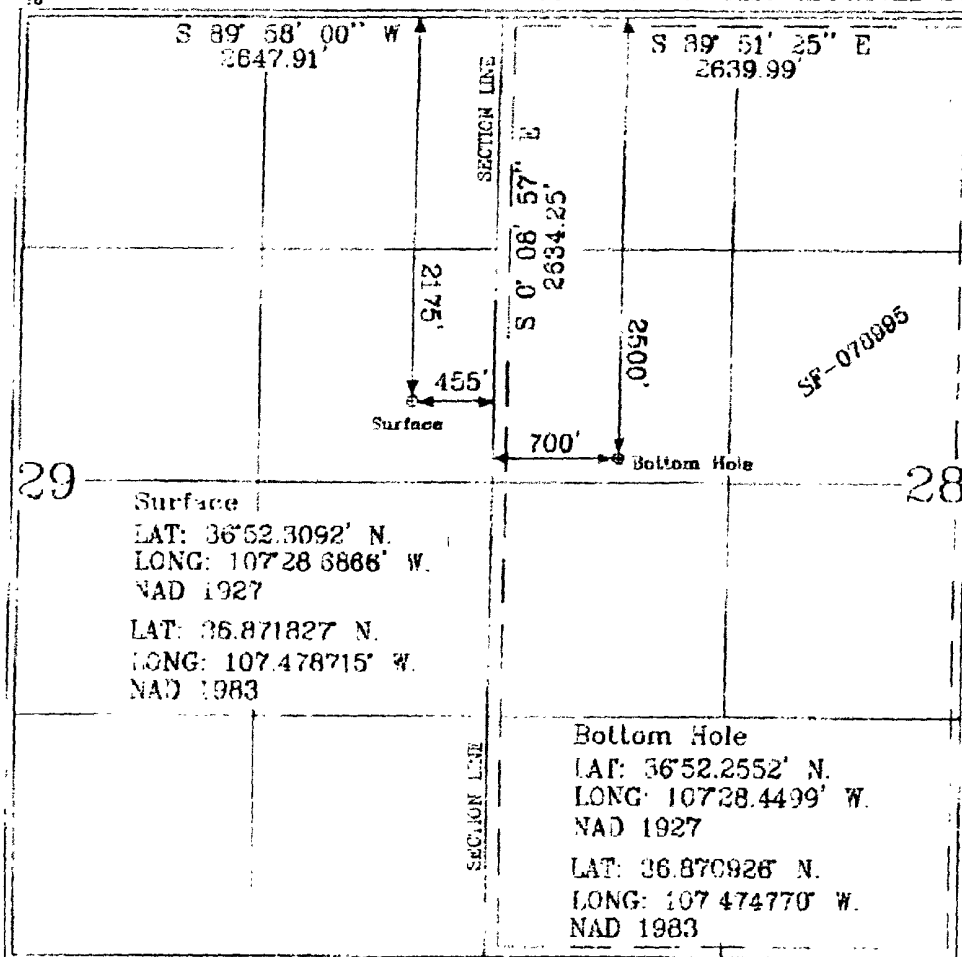
UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
H	29	31-N	6-W		2175'	NORTH	455'	EAST	RIO ARriba

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
E	28	31-N	6-W		2500'	NORTH	700'	WEST	RIO ARriba

*Dedicated Acres 320 acres W2	*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 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.

Signature
 Patsy Clugston/Sr. Regulatory
 Printed Name
 Specialist

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
 15703
 Certificate Number
 15703

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. 30-039-30320
1. Type of Well: Oil Well ☐ Gas Well ☒ Other ☐		5. Indicate Type of Lease STATE ☐ FEE ☐
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 H : 2175' feet from the North line and 455' feet from the East line Section 29 Township 31N Rng 6W NMPM County Rio Arriba		8. Well Number #27M
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 5499'		9. OGRID Number 217817
Pit or Below-grade Tank Application ☐ or Closure ☐		10. Pool name or Wildcat Blanco MV/Basin DK
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 bbls; 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 ☐

OTHER:

New Drill ☒

SUBSEQUENT REPORT OF:

 REMEDIAL WORK ☐
 COMMENCE DRILLING OPNS. ☐
 CASING/CEMENT JOB ☐

 ALTERING CASING ☐
 P AND A ☐
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, Unlined:

ConocoPhillips proposes to construct a new drilling pit, an associated vent/flame 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/flame 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 8-9-07

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

For State Use Only

 APPROVED BY *[Signature]* TITLE Deputy Oil & Gas Inspector, District #3 DATE FEB 12 2008

Conditions of Approval (if any):

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 27M

DEVELOPMENT

Lease:		AFE #: WAN.CNV.7199		AFE \$:	
Field Name: 31-6		Rig: XXX 2009 Directional		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist: Pippin, Eddie A		Phone: 505-326-9780		Prod. Engineer:	
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: 36.871821	Longitude: -107.478110	X:	Y:	Section: 29	Range: 006W
Footage X: 455 FEL	Footage Y: 2175 FNL	Elevation: 6499	(FT)	Township: 031N	
Tolerance:					

Location: Bottom Hole		Datum Code: NAD 27		Deviated	
Latitude: 36.870920	Longitude: -107.474165	X:	Y:	Section: 28	Range: 006W
Footage X: 700 FWL	Footage Y: 2500 FNL	Elevation:	(FT)	Township: 031N	
Tolerance:					

Location Type: Restricted	Start Date (Est.):	Completion Date:	Date In Operation:
Formation Data: Assume KB = 6515 Units = FT			

Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	215	6300	☐			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	1015	5500	☐			
OJAM	2490	4025	☐			Possible water flows.
KRLD	2690	3825	☐			
FRLD	3115	3400	☐			Possible gas.
PCCF	3465	3050	☐			
LEWS	3665	2850	☐			
Intermediate Casing	3865	2650	☐			8-3/4" hole. 7", 23.0, L-80, LT&C casing. Cement with 870 cu. ft. Circulate cement to surface.
CHRA	4655	1860	☐			
CLFH	5460	1055	☐			Gas; possibly wet
MENF	5500	1015	☐			Gas.
PTLK	5765	750	☐	600		Gas.
GLLP	7015	-500	☐			Gas. Possibly wet.
GRHN	7790	-1275	☐	2400		Gas possible, highly fractured
GRRS	7850	-1335	☐			
PAGU	7952	-1437	☐			Gas. Highly Fractured.
CBBO	7965	-1450	☐			Gas
CBRL	8004	-1489	☐			
TD	8079	-1564	☐			6-1/4" hole. 4-1/2", 11.6#, L-80, LT&C casing. Cement with 605 cu. ft. Circulate cement a minimum of 100 ft. inside the previous casing string. No open hole logs. Cased hole TDT with GR to surface.

Reference Wells:

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 31-6 UNIT 27M

DEVELOPMENT

Reference Type	Well Name	Comments
Intermediate	SJ 31-6 44	29-31N-6W, KB = 6515

Logging Program:

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

TD Logs: ☐ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☒ TDT

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

Comments: Zones - DK 31N06W28NW2 MVNM031N006W28NW2

General/Work Description - DRILLING: LPT. (R Wall/RAM Team)

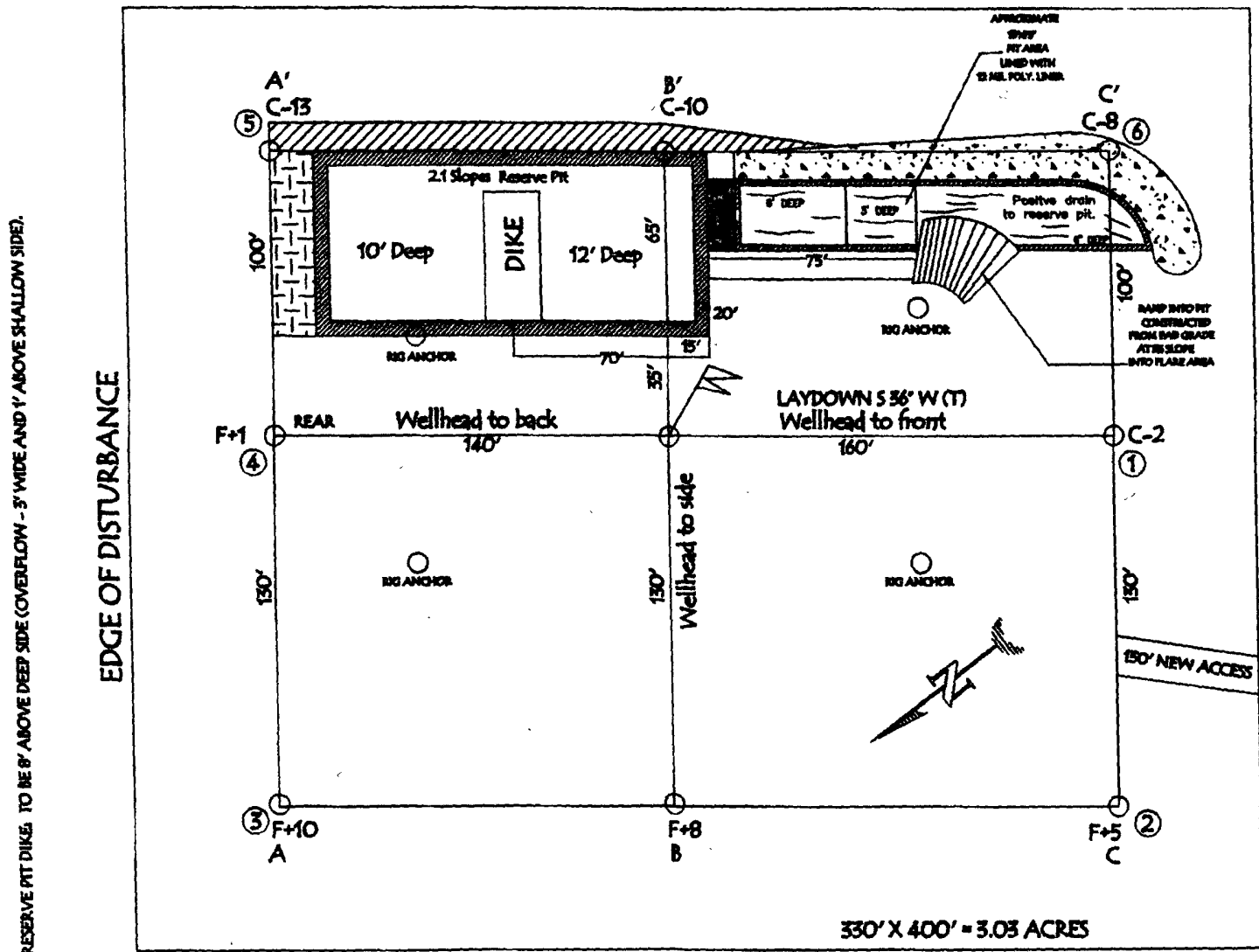
Well will be directional from #229R loc.

ConocoPhillips Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 31-6 #27M
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig KB @ 6514.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig KB @ 6514.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 31-6 #27M	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 31-6 #27M		
Design:	Principal		

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)
1,026.2	1,015.0	Nacimiento		0.00	
2,642.7	2,490.0	Ojo		0.00	
2,862.4	2,690.0	Kirtland		0.00	
3,329.1	3,115.0	Fruitland		0.00	
3,696.8	3,465.0	Pictured Cliffs		0.00	
3,899.5	3,665.0	Lewis		0.00	
4,889.8	4,655.0	Chacra		0.00	
5,694.8	5,460.0	Mass. Cliffhouse		0.00	
5,734.8	5,500.0	Menefee		0.00	
5,999.8	5,765.0	Point Lookout		0.00	
7,249.8	7,015.0	Upper Gallup		0.00	
8,024.8	7,790.0	Greenhorn		0.00	
8,084.8	7,850.0	Graneros		0.00	
8,186.8	7,952.0	Paguate		0.00	
8,199.8	7,965.0	Cubero		0.00	
8,238.8	8,004.0	Lower Cubero		0.00	
8,313.8	8,079.0	TD		0.00	

CONOCOPHILLIPS COMPANY
SAN JUAN 31-6 UNIT #27M, 2175' FNL & 455' FEL
SECTION 29, T-31- N, R-6-W, NMPM, RIO ARRIBA COUNTY, NM
GROUND ELEVATION: 6499', DATE: JUNE 29, 2006



LATITUDE: 36° 52.3092'N LONGITUDE: 107° 28.6866'W NAD27

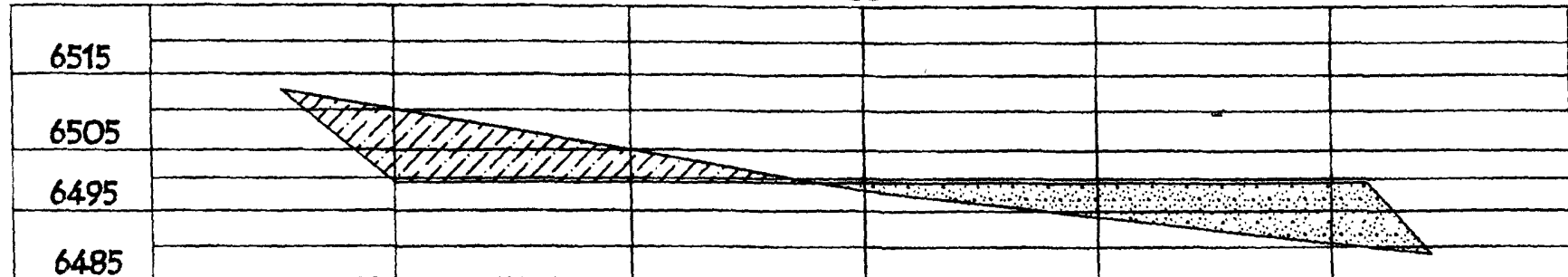
NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES. CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

CONOCOPHILLIPS COMPANY

SAN JUAN 31-6 UNIT 27M, 2175' FNL & 455' FEL
SECTION 29, T-31- N, R-6-W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6499', DATE: JUNE 29, 2006

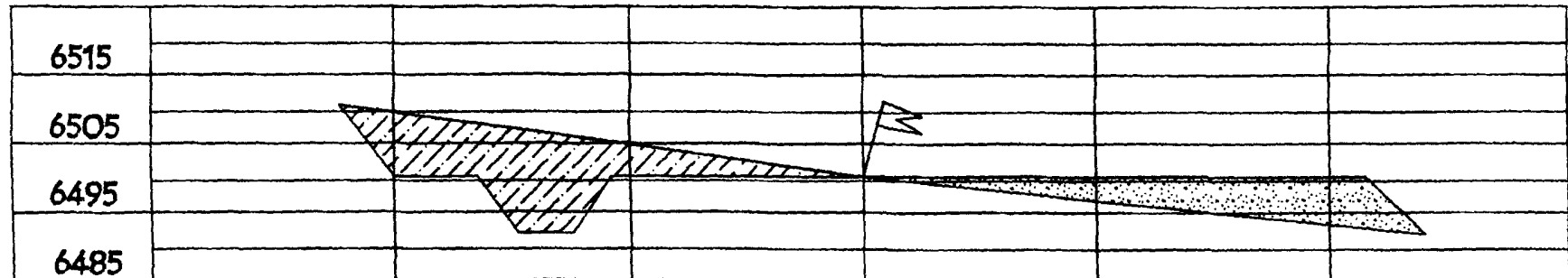
ELEV. A'-A

C/L



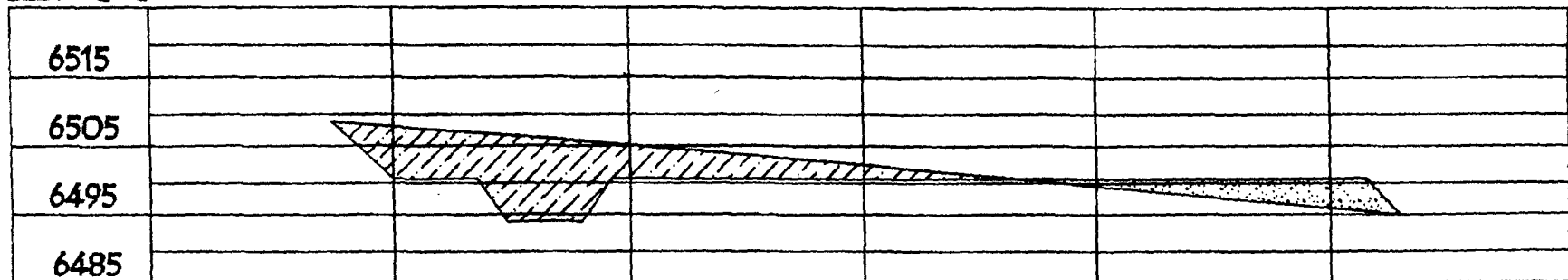
ELEV. B'-B

C/L



ELEV. C'-C

C/L



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