

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD APR 10 '08
OIL CONS. DIV.
DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED FEB 05 2008 Bureau of Land Management Farmington Field Office	5. Lease Number USA NM - 03404	NMNM-78421A-MV NMNM 78421B-DK
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 #49P	
4. Location of Well Unit I (NESE), 1460' FSL & 145' FEL, Unit I (NESE), 2125' FSL & 710' FEL Latitude 36.838340 N. Longitude 107.477710W. Latitude 36.840157 N. Longitude 107.479643 W.	10. Field, Pool, Wildcat Basin Dakota/Blanco Mesaverde 11. Sec., Twn, Rge, Mer. (NMPM) I Sec. 5, T30N, R6W Sec. 5, T30N, R6W API # 30-039-30476		
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 1460'	17. Acres Assigned to Well 319.67 (E/2)		
16. Acres in Lease 636.160			
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 492' from San Juan 31-6 Unit 212A			
19. Proposed Depth 7885'	20. Rotary or Cable Tools Rotary		
21. Elevations (DF, FT, GR, Etc.) 6350' 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)	Date <u>4/8/08</u>		

PERMIT NO.

APPROVAL DATE

APPROVED BY Wayne Townsend

TITLE

Acting AFM

DATE 4/8/08

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

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

APR 14 2008

AV

NMOCD

NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

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

FEB 05 2008

Bureau of Land Management
Farmington Field Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039- 30476	² Pool Code 71599/72319	³ Pool Name Basin DAKOTA/MESAVERDE, Blanco
⁴ Property Code 31328	⁵ Property Name SAN JUAN 31-6 UNIT	⁶ Well Number 49P
⁷ CGRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6350'

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
1	5	30-N	6-W		1460'	SOUTH	145'	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
1	5	30-N	6-W		2125'	SOUTH	710'	EAST	RIO ARriba

¹² Dedicated Acres 319.67 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

LOT 8	LOT 7	LOT 6	LOT 5
		USA NM-03404	
	5		
	BOTTOM HOLE LAT: 36°50.4091' N. LONG: 107°28.7423' W. NAD 1927 LAT: 36.840157 N. LONG: 107.479843 W. NAD 1983		
	SURFACE LAT: 36°50.3004' N. LONG: 107°28.6626' W. NAD 1927 LAT: 36.838340 N. LONG: 107.477710 W. NAD 1983		

Bottom Hole 710'
2125'
145'
Surface
1460'
N 0° 01' 00" W
2640.0'
S 89° 54' W
2625.2'

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.

Jamie Goodwin
Signature
Jamie Goodwin 02/04/2008
Printed Name

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.

4-30-07
Date of Survey
Signature and Seal of Professional Surveyor:
CLAYTON W. RUSSELL
15703
LICENSED PROFESSIONAL SURVEYOR

Clayton W. Russell
Certificate Number
15703

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

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

WELL API NO.

30-039- 30476

5. Indicate Type of Lease

STATE ☐

FEE ☐

6. State Oil & Gas Lease No

USA NM - 03404

7. Lease Name or Unit Agreement Name

San Juan 31-6 Unit

8. Well Number

#49P

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 I : 1460' feet from the South line and 145' feet from the East line
Section 5 Township 30N Rng 6W NMPM County Rio Arriba

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

6350'

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

bbls:

Construction Material

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, 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 Jamie Goodyear TITLE Regulatory Technician DATE 2/4/08

Type or print name Jamie Goodyear E-mail address: goodwin@conocophillips.com Telephone No. 505-326-9784

For State Use Only

APPROVED BY [Signature] TITLE Deputy Oil & Gas Inspector, District #3 DATE APR 14 2008

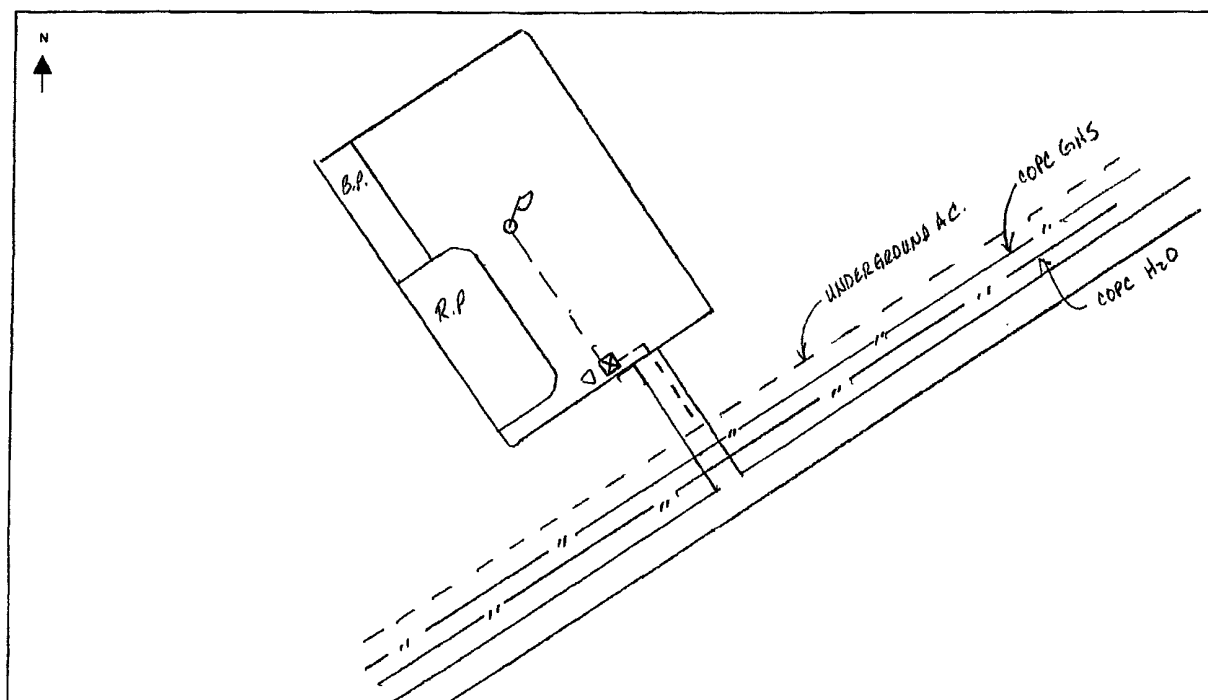
Conditions of Approval (if any):



CATHODIC PROTECTION PLAN FOR NEW WELLS

WELL NAME S.J. 31-6 #49P (STAKE AS 49M IN FIELD) LEGALS I-5-30-6 COUNTY R.A.

PURPOSED C.P. SYSTEM: DRILL G.B. & SET RECT @ SOUTH EDGE OF LOC. TRENCH @ 200' ± B
NEG. FROM RECT TO W.H. TRENCH @ 600' OF A.C. FROM EDGE OF MAIN RD TO
RECT.



EXISTING WELLHEAD	METER HOUSE	G.B.	POWER SOURCE	CABLE	NEW WELL	OVERHEAD A.C.

COMMENTS: _____

NEAREST POWER SOURCE A.G. A.C. @ MAIN RDWY DISTANCE: 600'
PIPELINES IN AREA: (2) COPC 1-GAS, 1-H₂O

TECHNICIAN:

DATE: 10-21-07

6 CR 5412 BLOOMFIELD, N.M. 87413
OFFICE: 505-634-0271 CELL: 505-793-6953

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 49P

DEVELOPMENT

Lease:		AFE #: WAN.CNV7213		AFE \$:	
Field Name: 31-6		Rig: XXX 2009 Deep 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					
Latitude: 36.838334	Longitude: -107.477105	X: 0.00	Y: 0.00	Section: 05p	Range: 006W
Footage X: 1460 FSL	Footage Y: 145 FSL	Elevation: 6350 (FT)	Township: 030N		
Tolerance: F&L F&L					
Location: Bottom Hole Datum Code: NAD 27					
Latitude:	Longitude:	X:	Y:	Section: 05	Range: 006W
Footage X: 710 FEL	Footage Y: 2125 FSL	Elevation:	(FT)	Township: 030N	
Tolerance:					
Location Type: Restricted		Start Date (Est.): 1/1/2009		Completion Date:	
Formation Data: Assume KB = 6363		Units = FT			
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT
SURFACE CSG	200	6163	☐		
NCMT	1163	5200	☐		
OJAM	2313	4050	☐		
KRLD	2471	3892	☐		
FRLD	2790	3573	☐		
PCCF	3180	3183	☐		
LEWS	3574	2789	☐		
Intermediate Casing	3624	2739	☐		
CHRA	4390	1973	☐		
UPPER CLIFF HOUSE	4910	1453	☐		
CLFH	5187	1176	☐		
MENF	5249	1114	☐		
PTLK	5516	847	☐	600	
MNCS	5849	514	☐		
GLLP	6873	-510	☐		
GRHN	7552	-1189	☐	2400	
GRRS	7605	-1242	☐		
TWLS	7717	-1354	☐		
PAGU	7725	-1362	☐		
CBBO	7733	-1370	☐		
CBRL	7778	-1415	☐		
ENCINAL	7835	-1472	☐		

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 49P

DEVELOPMENT

TD	7885	-1522	☐	6-1/4" hole. 4-1/2", 11.6 ppf, L-80, LT&C casing. Cement with 573 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.
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Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	San Juan 31-6 51	5-30N-6W, KB = 6305
Intermediate	31-6 49F	NE5-30-6

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

TD Logs:	☐ Triple Combo	☐ Dipmeter	☐ RFT	☐ Sonic	☐ VSP	☐ TDT ☒	☐ Other
GR/CBL							
Mudlog from 200' above top of Greenhorn to TD - mudlogger will call TD.							

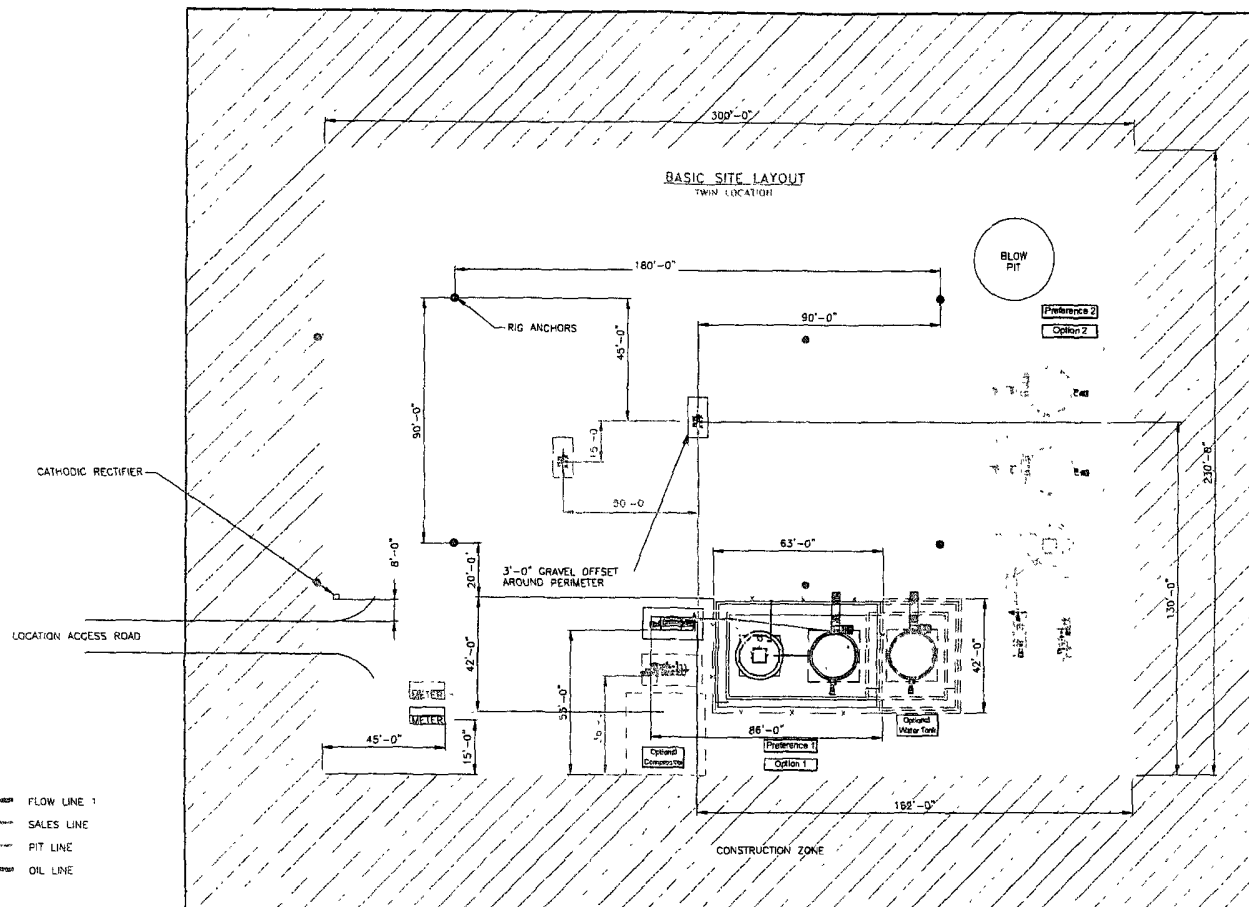
Additional Information:					
Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 31-6 #49P
Company:	ConocoPhillips Lower 48	TVD Reference:	Generic Rig RKB @ 6365.0ft (Generic Rig)
Project:	San Juan Basin	MD Reference:	Generic Rig RKB @ 6365.0ft (Generic Rig)
Site:	Russell's Site for Directional MV/DK wells	North Reference:	True
Well:	SJ 31-6 #49P	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 31-6 #49P		
Design:	APD Well Plan		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)	
2,399.0	2,304.0	Ojo		0.00		
2,564.2	2,455.0	Kirtland		0.00		
3,119.0	2,977.0	Fruitland		0.00		
3,473.2	3,325.0	Pictured Cliffs		0.00		
3,563.7	3,415.0	Lewis		0.00		
4,158.1	4,009.0	Huerfanto Bentonite		0.00		
4,220.1	4,071.0	Chacra		0.00		
5,076.1	4,927.0	Upper Cliffhouse		0.00		
5,350.1	5,201.0	Mass Cliffhouse		0.00		
5,404.1	5,255.0	Menefee		0.00		
5,680.1	5,531.0	Point Lookout		0.00		
6,018.1	5,869.0	Mancos		0.00		
6,983.1	6,834.0	Upper Gallup		0.00		
7,705.1	7,556.0	Greenhorn		0.00		
7,768.1	7,619.0	Graneros		0.00		
7,881.1	7,732.0	Two Wells		0.00		
7,896.1	7,747.0	Paguate		0.00		
7,909.1	7,760.0	Cubero		0.00		
7,945.1	7,796.0	Lower Cubero		0.00		
	7,901.0	TD		0.00		



FLOW LINE 1
 SALES LINE
 PIT LINE
 OIL LINE

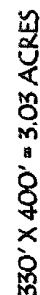
SEE SHEET 3 & 4 FOR PIPING DETAILS
 ALL UNDERGROUND PIPS IS TO BE BURIED A MIN. OF 3'-0" TOP

SHEET 1 OF 5

										ENGINEERING REVIEW			REFERENCE DRAWINGS				CONOCOPHILLIPS HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT				
										DISCIPLINE	REVIEWED	DATE	NO	DESCRIPTION							
										PROCESS						SAN JUAN BUSINESS UNIT			CLIENT NO.	CLIENT APPR.	APPRO. DATE
										MECHANICAL									SCALE: 1/8"=1'		REVISION DATE: 6/20/07
										PIPING											
										ELECTRICAL											
										I & C											
										DATA/STRUCTURAL						HP3PHASE-REV1			SHEET NO. 1 OF 5		
										CONSTRUCTION											
DESCRIPTION										DATE	BY	CHK'D	ENG	OSC	PRJ						

Forming Site Diagrams and Maps for the Location Site Layout, 06/28/2007 - 06/28/2007

SAN JUAN 31-6 UNIT 49P, 1460' FSL & 145' FEL
SECTION 5, T-30-N, R-6-W, NMPM, RIO ARRIBA COUNTY, NM
GROUND ELEVATION: 6350', DATE: MARCH 7, 2007



LATITUDE: 36° 50.3004' N LONGITUDE: 107° 28.6626' W NAD27

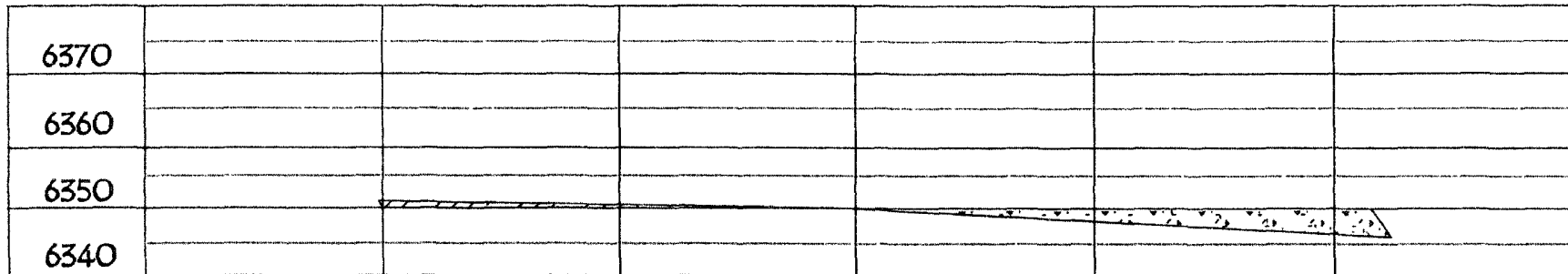
NOTE: VECTOR SURVEYS LLC IS NOT LIABLE FOR UNDERGROUND UTILITIES OR PIPELINES.
CONTRACTOR SHOULD CALL ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED BURIED
PIPELINES OR CABLES ON WELL PAD AND OR ACCESS ROAD AT LEAST TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION.

CONOCOPHILLIPS COMPANY

SAN JUAN 31-6 UNIT 49P, 1460' FSL & 145' FEL
SECTION 5, T-30-N, R-6-W, NMPM, RIO ARriba COUNTY, NM
GROUND ELEVATION: 6350', DATE: MARCH 7, 2007

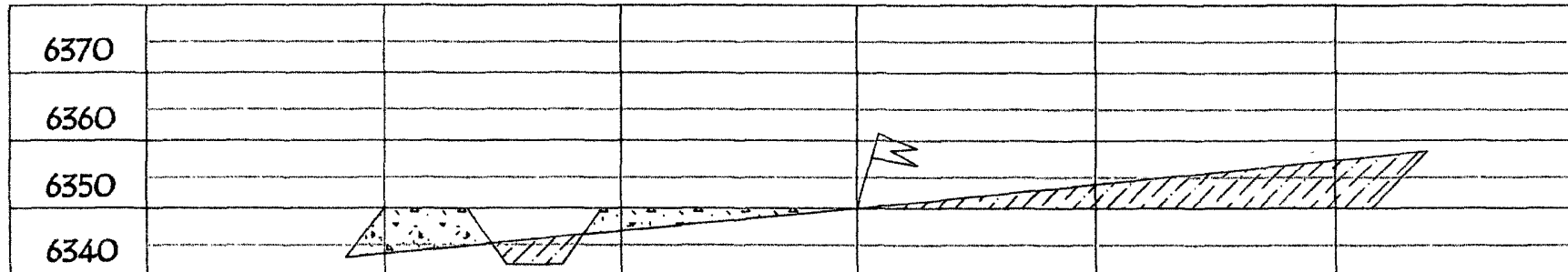
ELEV. A'-A

C/L



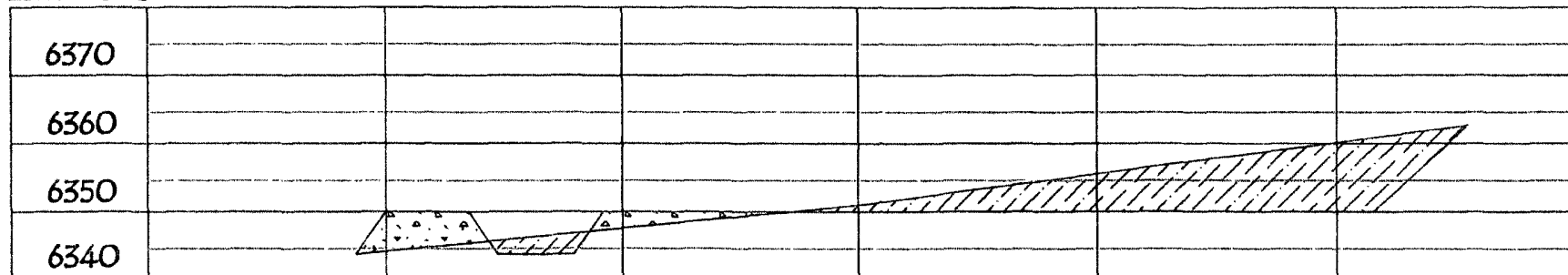
ELEV. B'-B

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.