

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RCVD OCT 2 '07
OIL CONS. DIV.

DIST. 3

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. Type of Work DRILL	RECEIVED SEP 13 2007 Bureau of Land Management Farmington Field Office	5. Lease Number SF-078999
1b. Type of Well GAS		Unit Reporting Number NMNM-78421B-DK 6. If Indian, All. or Tribe NMNM-78421A-MV
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	
4. Location of Well Unit P (SESE), 855' FSL & 845' FEL, Unit J (NWSE), 1600' FSL & 1980' FEL, Surf: Latitude 36° 51.0710 N Longitude 107° 25.5276 W BH: Latitude 36° 51.1923 N Longitude 107° 25.7606 W	9. Well Number #31P 10. Field, Pool, Wildcat Blanco MV/Basin DK 11. Sec., Twn, Rge, Mer. (NMPM) P Sec. 35, T31N, R6W API # 30-039-30357	
14. Distance in Miles from Nearest Town 19 miles/ Gobernador	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 845'	17. Acres Assigned to Well MV 320 (E/2)/DK 320 (S/2)	
16. Acres in Lease		
18. Distance from Proposed Location to Nearest Well, Drig, Compl, or Applied for on this Lease 50' from San Juan 31-6 Unit 31		
19. Proposed Depth 7986' TVD/8272' TMD 8252'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6404' 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 9-12-07 Date	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: Rhonda Rogers (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".

NMOC

NOTIFY AZTEC OGD 24 HRS.

PRIOR TO CASING AND CEMENTING

OCT 18 2007

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

HOLD 0104 FOR directional survey &
as drilled C-102 form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, 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 & Natural Resources Department

Form C-102
Revised October 12, 2005
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

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

RECEIVED

SEP 13 2007

☐ AMENDED REPORT

Bureau of Land Management
Farmington Field Office

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-039- 30357		*Pool Code 72319 / 71599	*Pool Name BLANCO MESAVERDE / BASIN DAKOTA
*Property Code 31328	*Property Name SAN JUAN 31-6 UNIT		*Well Number 31P
*GRID No. 217817	*Operator Name CONOCOPHILLIPS COMPANY		*Elevation 6404'

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	35	31N	6W		855	SOUTH	845	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	35	31N	6W		1600	SOUTH	1980	EAST	RIO ARriba

12 Dedicated Acres	320.0 Acres - E/2 (MV) 320.0 Acres - S/2 (DK)	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 working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Kandis Roland 3/12/07 Signature Date Kandis Roland 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 Survey Date: DECEMBER 13, 2006 Signature and Seal of Professional Surveyor JASON C. EDWARDS Certificate Number 15269

District I

Energy, Minerals and Natural Resources

May 27, 2004

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- 30357

5. Indicate Type of Lease

STATE ☐

FEE ☐

6. State Oil & Gas Lease No.

Federal Lease SF-078999

7. Lease Name or Unit Agreement Name

San Juan 31-6 Unit

8. Well Number

#31P

9. OGRID Number

217817

10. Pool name or Wildcat

Blanco MV/Basin DK

SUNDY 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 P : 855' feet from the South line and 845' feet from the East line
Section 35 Township 31N Rng 6W NMPM County Rio Arriba

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

6404'

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 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 ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐

P AND A ☐

CASING/CEMENT JOB ☐

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, 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 NMOCDD 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 NMOCDD guidelines ☐, a general permit ☒ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Rhonda Rogers TITLE Regulatory Technician

DATE 9-12-07

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 OCT 18 2007

Conditions of Approval (if any):

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 31P

DEVELOPMENT

Lease:		AFE #: WAN.CNV.7226				AFE \$:	
Field Name: 31-6		Rig: Aztec Rig 777		State: NM	County: RIO ARRIBA		API #:
Geologist:		Phone:		Geophysicist:		Phone:	
Geoscientist: Glaser, Terry J		Phone: (832)486-2332		Prod. Engineer:		Phone:	
Res. Engineer: Tomberlin, Timothy A		Phone: (832) 486-2328		Proj. Field Lead:		Phone:	
Primary Objective (Zones):							
Zone	Zone Name						
R20002	MESAVERDE(R20002)						
R20076	DAKOTA(R20076)						
Location: Surface Datum Code: NAD 27 Deviated							
Latitude: 36.851184	Longitude: -107.425457	X:	Y:	Section: 35		Range: 006W	
Footage X: 845 FEL	Footage Y: 855 FSL	Elevation: 6404	(FT)	Township: 031N			
Tolerance:							
Location: Bottom Hole Datum Code: NAD 27 Deviated							
Latitude: 36.853199	Longitude: -107.428740	X:	Y:	Section: 35		Range: 006W	
Footage X: 1980 FEL	Footage Y: 1600 FSL	Elevation:	(FT)	Township: 031N			
Tolerance:							
Location Type: Restricted		Start Date (Est.): 1/1/2008		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6416 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks	
Surface Casing	200	6216	☐			12-1/4 hole. 200' 9 5/8" 32.3 ppf, H-40, STC casing. Cement with 203 cuft. Circulate cement to surface.	
OJO ALAMO	2352	4064	☐				
KIRTLAND	2526	3890	☐				
FRUITLAND COAL	3027	3389	☐			Possible Gas	
PICTURED CLIFFS	3315	3101	☐				
LEWIS	3531	2885	☐				
HUERFANITO BENTONITE	4096	2320	☐				
Intermediate Casing	4200	2216	☐			8 3/4" Hole. 7", 20 ppf, J-55, STC Casing. Cement with 996 cuft. Circulate cement to surface.	
CHACRA	4495	1921	☐				
MASSIVE CLIFF HOUSE	5346	1070	☐	425		Gas	
MENEFEE	5379	1037	☐				
MASSIVE POINT LOOKOUT	5611	805	☐				
MANCOS	5916	500	☐				
UPPER GALLUP	6916	-500	☐				
GREENHORN	7650	-1234	☐				
GRANEROS	7701	-1285	☐				
PAGUATE	7810	-1394	☐	1500			
UPPER CUBERO	7818	-1402	☐				
LOWER CUBERO	7865	-1449	☐				
ENCINAL	7933	-1517	☐				
TOTAL DEPTH DK	7986	-1570	☐			6-1/4" Hole. 4-1/2", 10.6/11.6 ppf, J-55 STC/LTC casing. Cement with 517 cuft. Circulate cement a minimum of 100' inside the previous casing string.	

PROJECT PROPOSAL - New Drill / Sidetrack

SAN JUAN 31-6 UNIT 31P

DEVELOPMENT

Reference Wells:

Reference Type	Well Name	Comments
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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 ~100' above the Greenhorn to TD. Mudloggers will call TD.

Additional Information:

Log Type	Stage	From (Ft)	To (Ft)	Tool Type/Name	Remarks
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ConocoPhillips or its affiliates

Survey Report

Company:	ConocoPhillips Lower 48	Local Co-ordinate Reference:	Well SJ 31-6 #31P
Project:	San Juan Basin	TVD Reference:	WELL @ 6419.0ft (Original Well Elev)
Site:	Monty's Site for directional MV/DK wells	MD Reference:	WELL @ 6419.0ft (Original Well Elev)
Well:	SJ 31-6 #31P	North Reference:	True
Wellbore:	SJ 31-6 #31P	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)
8,130.7	0.00	0.00	7,865.0	745.0	-1,135.0	1,357.7	0.00	0.00	0.00
Lower Cubero									
8,198.7	0.00	0.00	7,933.0	745.0	-1,135.0	1,357.7	0.00	0.00	0.00
Encinal									
8,200.0	0.00	0.00	7,934.3	745.0	-1,135.0	1,357.7	0.00	0.00	0.00
8,251.7	0.00	0.00	7,986.0	745.0	-1,135.0	1,357.7	0.00	0.00	0.00
TD - SJ 31-6 #31P - PCP									

Targets

Target Name	hit/miss target	Dip Angle (d)	Dip Dir (d)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (m)	Easting (m)	Latitude	Longitude
SJ 31-6 #31P - ICP	- plan hits target	0.00	0.00	4,200.0	745.0	-1,135.0	232.06	-342.73	30° 59' 31.886" N	109° 25' 57.133" W
	- Point									
SJ 31-6 #31P - PCP	- plan hits target	0.00	0.00	7,986.0	745.0	-1,135.0	232.06	-342.73	30° 59' 31.886" N	109° 25' 57.133" W
	- Point									

Formations

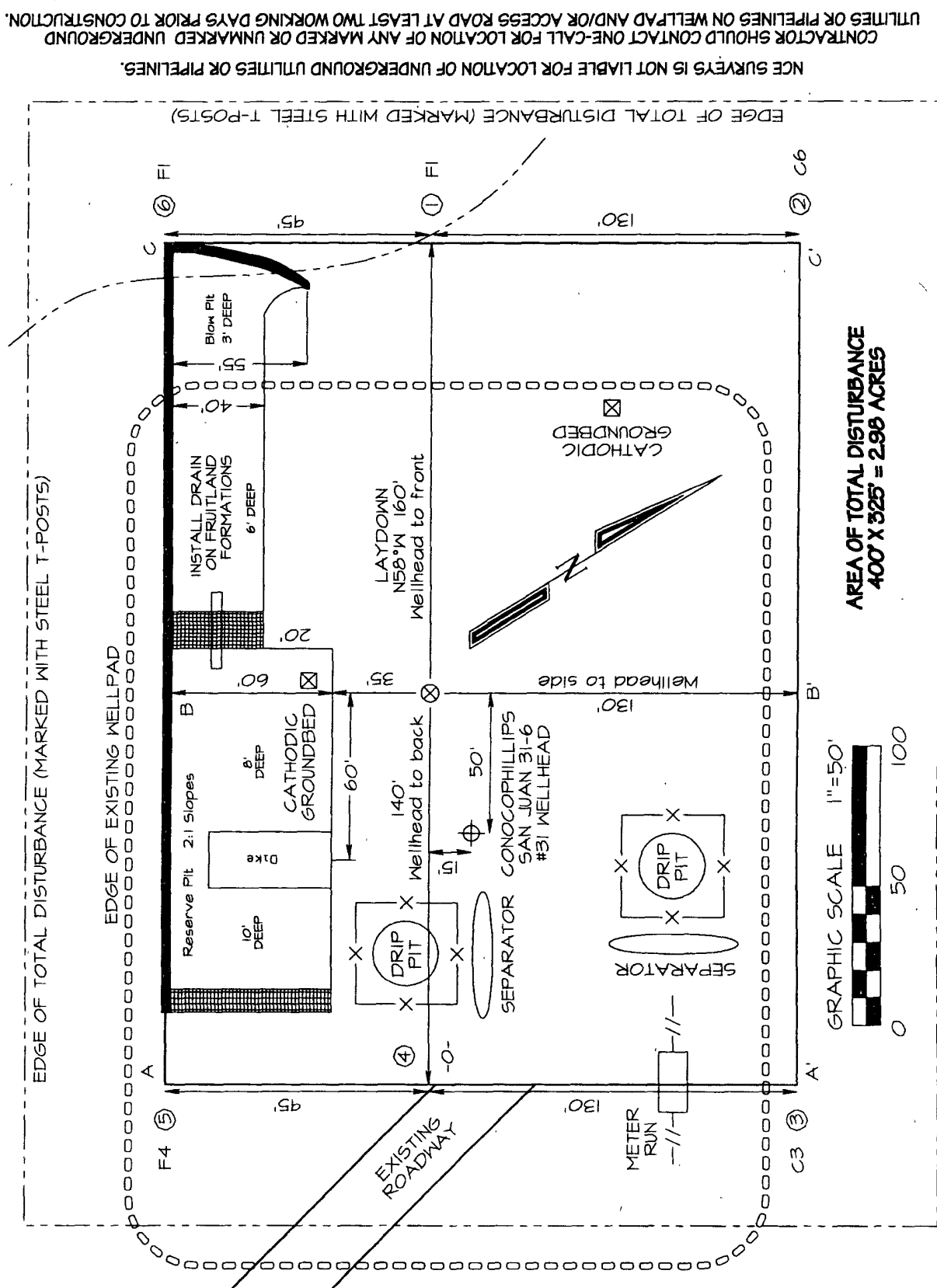
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (d)	Dip Direction (d)
2,492.2	2,352.0	Ojo Alamo		0.00	
2,682.9	2,526.0	Kirtland		0.00	
3,231.7	3,027.0	Fruitland		0.00	
3,547.2	3,315.0	Pictured Cliffs		0.00	
3,782.2	3,531.0	Lewis		0.00	
4,361.7	4,096.0	Huerfano Bentonite		0.00	
4,760.7	4,495.0	Chacra		0.00	
5,611.7	5,346.0	Cliffhouse		0.00	
5,644.7	5,379.0	Menefee		0.00	
5,876.7	5,611.0	Pt. Lookout		0.00	
6,181.7	5,916.0	Mancos		0.00	
7,181.7	6,916.0	Upper Gallup		0.00	
7,915.7	7,650.0	Greenhorn		0.00	
7,966.7	7,701.0	Graneros		0.00	
8,075.7	7,810.0	Paguate		0.00	
8,083.7	7,818.0	Upper Cubero		0.00	
8,130.7	7,865.0	Lower Cubero		0.00	
8,198.7	7,933.0	Encinal		0.00	
8,251.7	7,986.0	TD		0.00	

Checked By: _____	Approved By: _____	Date: _____
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**CONOCOPHILLIPS COMPANY SAN JUAN 31-6 UNIT #31P
855' FSL & 845' FEL, SECTION 35, T31N, R6W, NMPM
RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6404'**

LATITUDE: 36°51.0710N
LONGITUDE: 107°25.5276W
DATUM: NAD1927

~ SURFACE OWNER ~
Bureau of Land Management



CONTRACTOR SHOULD CONTACT ONE-CALL FOR LOCATION OF ANY MARKED OR UNMARKED UNDERGROUND UTILITIES OR PIPELINES ON WELLPAD AND/OR ACCESS ROAD AT LEAST TWO WORKING DAYS PRIOR TO CONSTRUCTION.

NCE SURVEYS IS NOT LIABLE FOR LOCATION OF UNDERGROUND UTILITIES OR PIPELINES.

EDGE OF TOTAL DISTURBANCE (MARKED WITH STEEL T-POSTS)

EDGE OF EXISTING WELLPAD

AREA OF TOTAL DISTURBANCE
400' X 325' = 2.96 ACRES

GRAPHIC SCALE 1"=50'

0 50 100

EXISTING ROADWAY

METER RUN

SEPARATOR

DRIFT PIT

SEPARATOR

140' Wellhead to back

50' Wellhead to side

130' Wellhead to front

LAYDOWN
N58°W 160'
Wellhead to front

6' DEEP
CATHODIC GROUND BED

10' DEEP
Reserve Pit

2:1 Slopes

6' DEEP
Blow Pit

3' DEEP
Blow Pit

INSTALL DRAIN
ON FRUITLAND
FORMATIONS
6' DEEP

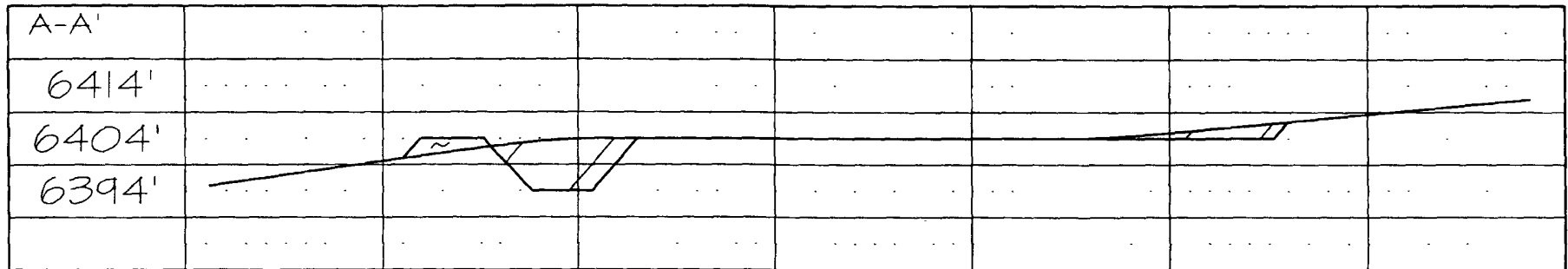
EDGE OF TOTAL DISTURBANCE (MARKED WITH STEEL T-POSTS)

CONOCOPHILLIPS COMPANY SAN JUAN 31-6 UNIT #31P
855' FSL & 845' FEL, SECTION 35, T31N, R6W, NMPM
RIO ARriba COUNTY, NEW MEXICO ELEVATION: 6404'

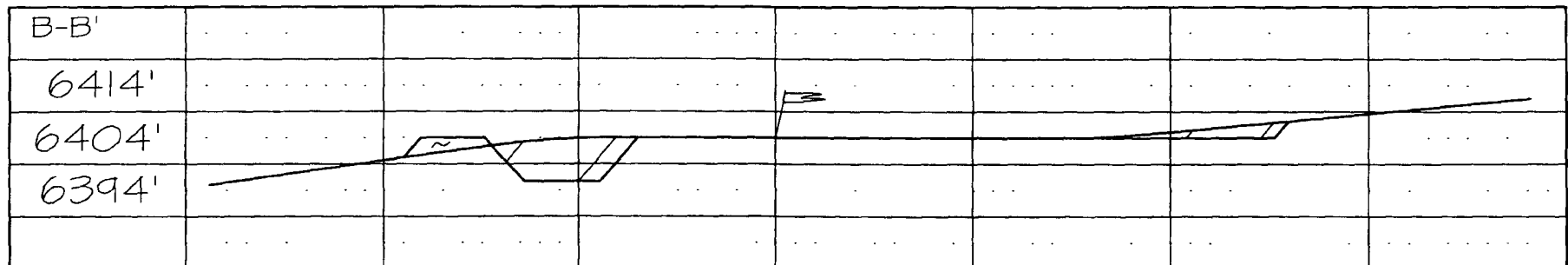
HORIZONTAL SCALE 1"=40'

C/L

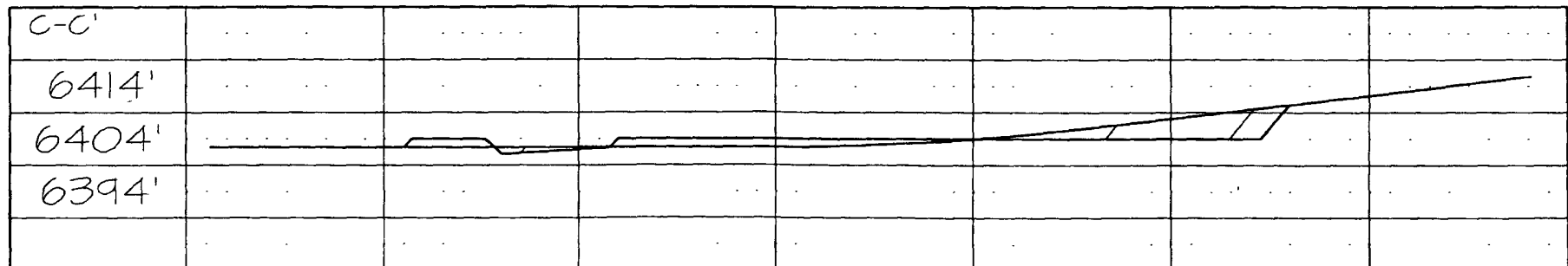
VERTICAL SCALE 1"=30'



C/L



C/L



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