

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

APR 19 2011

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Farmington Field Office
Bureau of Land Management

1a. Type of Work DRILL	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	5. Lease Number SF-078995 Unit Reporting Number
1b. Type of Well GAS		6. If Indian, All. or Tribe
2. Operator ConocoPhillips Company		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 RCVD JUN 17 '11 OIL CONS. DIV. DIST. 3
4. Location of Well Surface: Unit P (SESE), 535' FSL & 40' FEL BHL: Unit I (NESE), 1750' FSL & 700' FEL Surface: Latitude: 36.850249° N (NAD83) Longitude: 107.495395° W BHL: Latitude: 36.853585° N (NAD83) Longitude: 107.497660° W		10. Field, Pool, Wildcat Basin FC / Rosa PC 11. Sec., Twn, Rge, Mer. (NMPM) Sec. 31, T31N, R6W API # 30-039- 31058
14. Distance in Miles from Nearest Town 49 miles from Blanco, NM	12. County Rio Arriba	13. State NM
15. Distance from Proposed Location to Nearest Property or Lease Line 40'		
16. Acres in Lease 1920.00 acres	17. Acres Assigned to Well FC 320.00 acres E/2 PC 160.00 acres SE/4	
18. Distance from Proposed Location to Nearest Well, Drlg, Compl, or Applied for on this Lease 1540' from SJ 31-6 Unit 10 (MV)		
19. Proposed Depth 3611'	20. Rotary or Cable Tools Rotary	
21. Elevations (DF, FT, GR, Etc.) 6439' GL	22. Approx. Date Work will Start	
23. Proposed Casing and Cementing Program See Operations Plan attached		
24. Authorized by: <u>Dollie L. Busse</u> Dollie L. Busse (Staff Regulatory Tech)	Date <u>April 18, 2011</u>	

PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY Joe Hewitt TITLE Acting ADM DATE 6-16-11

Archaeological Report attached A gas recovery unit may or may not be used on this location.

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 2

Bond Numbers ES-0048 and ES-0085

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

JUL 01 2011

for Directional Survey
and "As Drilled" plat

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.9
and appeal pursuant to 43 CFR 3165.4

Hold C104
for Directional Survey
and "As Drilled" plat
NOTIFY AZTEC OCD 24 HRS.
PRIOR TO CASING & CEMENT

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

APR 19 2011

Harrington Field Office
2. Reservoir Management

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31058	² Pool Code 71629/961745	³ Pool Name Rosa
⁴ Property Code 31328	⁵ Property Name SAN JUAN 31-6 UNIT	⁶ Well Number 224A
⁷ GRID No. 217817	⁸ Operator Name CONOCOPHILLIPS COMPANY	⁹ Elevation 6439'

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	31	31-N	6-W		535'	SOUTH	40'	EAST	RIO ARRIBA

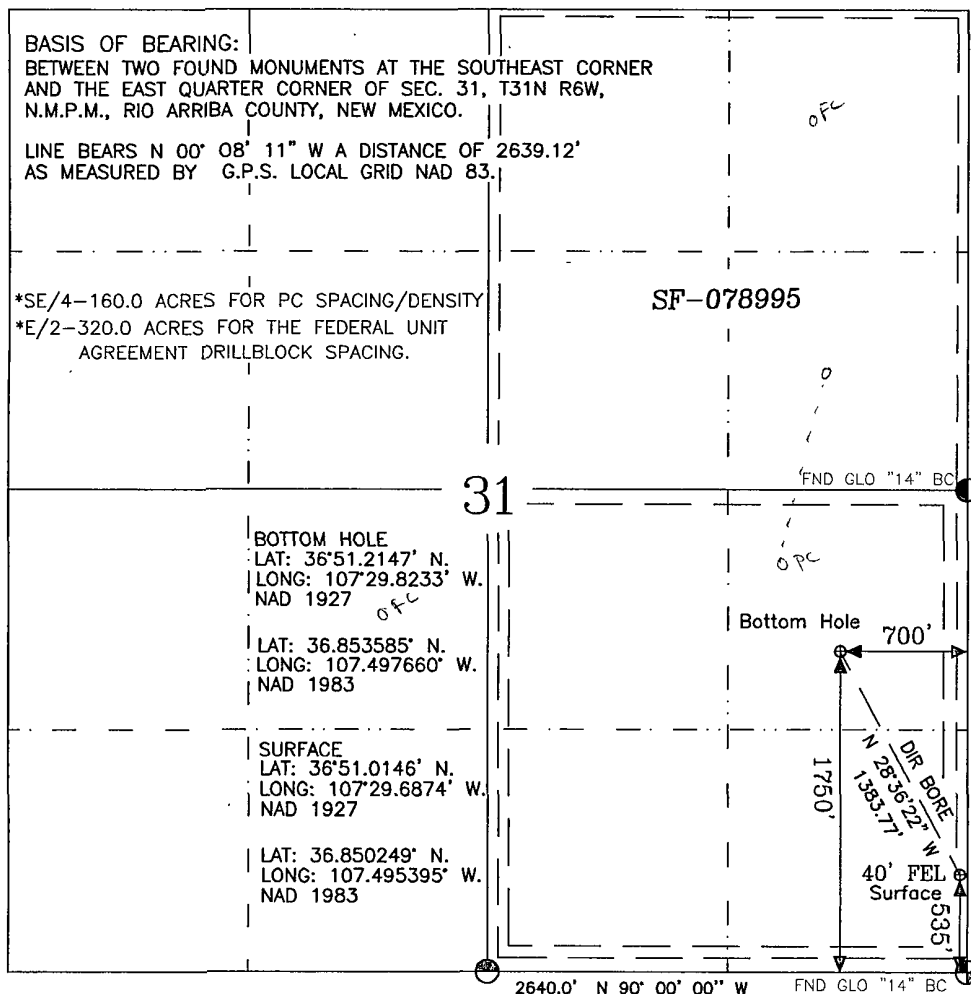
¹¹ Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	31	31-N	6-W		1750'	SOUTH	700'	EAST	RIO ARRIBA

¹² Dedicated Acres FC 320.0 ACRES E/2 PC 160.0 ACRES SE/4 * SEE NOTE BELOW	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
a working interest, or to a voluntary pooling agreement
or a compulsory pooling order heretofore entered by the
division.

Brandie Blakley 9-2-10
Signature

Brandie Blakley 9-2-10
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.

AUGUST 17, 2010

Date of Survey

Signature and Seal of Professional Surveyor



GLEN W. RUSSELL
Certificate Number

15703

PROJECT PROPOSAL - New Drill / Sidetrack

San Juan Business Unit

SAN JUAN 31-6 UNIT 224A

DEVELOPMENT

Lease:		AFE #: WAN.CDR.7194		AFE \$: 1,254,985.44	
Field Name: 31-6		Rig: Aztec Rig 711		State: NM	County: RIO ARRIBA
Geologist:		Phone:		Geophysicist:	
Geoscientist: Clark, Dave D		Phone: +1 505-326-9762		Prod. Engineer: Bergman, Pat W.	
Res. Engineer:		Phone:		Phone: +1 832 486 2358	
		Proj. Field Lead:		Phone:	

Primary Objective (Zones):

Zone	Zone Name
R20001	FRUITLAND COAL(R20001)
R20003	PICTURED CLIFFS(R20003)

Location: Surface		Datum Code: NAD 27		Directional	
Latitude: 36.850243	Longitude: -107.494790	X: 599053.00	Y: 2128925.00	Section: 31	Range: 006W
Footage X: 40 FEL	Footage Y: 535 FSL	Elevation: 6439	(FT)	Township: 031N	
Tolerance:					

Location: Bottom Hole		Datum Code: NAD 27		Directional	
Latitude: 36.853579	Longitude: -107.497055	X: 598386.00	Y: 2130137.00	Section: 31	Range: 006W
Footage X: 700 FEL	Footage Y: 1750 FSL	Elevation:	(FT)	Township: 031N	
Tolerance:					

Location Type: Restricted		Start Date (Est.): 1/1/2011		Completion Date:		Date In Operation:	
Formation Data: Assume KB = 6454 Units = FT							
Formation Call & Casing Points	Depth (TVD in Ft)	SS (Ft)	MD (Ft)	Depletion (Yes/No)	BHP (PSIG)	BHT	Remarks
Surface Casing	120	6334		☐			8-3/4 hole. 7" 20 ppf, J-55 STC csg. Cement with 50 cuft. Circulate cement to surface.
NACIMIENTO	1141	5313		☐			
OJO ALAMO	2361	4093		☐			
KIRTLAND	2470	3984		☐			
FRUITLAND	2910	3544		☐	147	Gas	
FRUITLAND COAL	3248	3206		☐			
PICTURED CLIFFS	3411	3043		☐	1038	Gas; TD - 200' below T/PCCF	
Total Depth	3611	2843		☐			6-1/4" hole. 4-1/2" 11.6 ppf, J-55, LTC casing. Cement with 532 cuft. Circulate cement to surface.

Reference Wells:		
Reference Type	Well Name	Comments
Intermediate	SJ 31-6 5	31-31N-6W-SW, KB = 6220

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

TD Logs:	☒ Triple Combo ☐ Dipmeter ☐ RFT ☐ Sonic ☐ VSP ☐ TDT ☒ Other
Platform express over minimum footages.	

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 #224A
Company:	ConocoPhillips SJB	TVD Reference:	RKB @ 6454.0ft
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6454 0ft
Site:	San Juan 31 Wells	North Reference:	True
Well:	SJ 31-6 #224A	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 31-6 #224A		
Design:	Plan #1		

Project	San Juan Basin - New Mexico West Wells, New Mexico, Directional "S"		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico West 3003		Using geodetic scale factor

Site	San Juan 31 Wells				
Site Position:		Northing:	782,567,847 23 ft	Latitude:	36° 50' 45.429 N
From:	Lat/Long	Easting:	-103,766,633 21 ft	Longitude:	107° 29' 49 149 E
Position Uncertainty:	15 0 ft	Slot Radius:	"	Grid Convergence:	0.00 °

Well	SJ 31-6 #224A					
Well Position	+N/-S	0 0 ft	Northing:	2,128,925 42 ft	Latitude:	36° 51' 0 876 N
	+E/-W	0.0 ft	Easting:	599,053.51 ft	Longitude:	107° 29' 41 244 W
Position Uncertainty		3.5 ft	Wellhead Elevation:	0 0 ft	Ground Level:	6,439 0 ft

Wellbore	SJ 31-6 #224A				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	BGGM2005	3/29/2007	(°)	(°)	(nT)
			10.34	63 75	51,277

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0.0	0 0	0.0	331.37

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0 0	0.00	0 00	0 0	0.0	0 0	0.00	0 00	0.00	0 00	
300.0	0.00	0 00	300 0	0.0	0 0	0 00	0.00	0.00	0.00	
1,138.5	33.54	331.37	1,091.4	209.3	-114.3	4.00	4 00	0.00	331.37	
2,778.7	33.54	331.37	2,458.6	1,004.9	-548.4	0 00	0.00	0 00	0.00	
3,617.3	0.00	0 00	3,250.0	1,214.2	-662.7	4 00	-4.00	0.00	180.00	Depth to vertical
3,978.3	0 00	0.00	3,611.0	1,214.2	-662.7	0.00	0.00	0.00	0 00	Production casing

ConocoPhillips or its affiliates

Planning Report

Database: EDM Central Planning
 Company: ConocoPhillips SJBU
 Project: San Juan Basin - New Mexico West Wells
 Site: San Juan 31 Wells
 Well: SJ 31-6 #224A
 Wellbore: SJ 31-6 #224A
 Design: Plan #1

Local Co-ordinate Reference: Well SJ 31-6 #224A
 TVD Reference: RKB @ 6454.0ft
 MD Reference: RKB @ 6454.0ft
 North Reference: True
 Survey Calculation Method: Minimum Curvature

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)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
120.0	0.00	0.00	120.0	0.0	0.0	0.0	0.00	0.00	0.00
Surface casing									
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	4.00	331.37	399.9	3.1	-1.7	3.5	4.00	4.00	0.00
500.0	8.00	331.37	499.4	12.2	-6.7	13.9	4.00	4.00	0.00
600.0	12.00	331.37	597.8	27.5	-15.0	31.3	4.00	4.00	0.00
700.0	16.00	331.37	694.8	48.7	-26.6	55.5	4.00	4.00	0.00
800.0	20.00	331.37	789.9	75.8	-41.4	86.4	4.00	4.00	0.00
900.0	24.00	331.37	882.6	108.7	-59.3	123.8	4.00	4.00	0.00
1,000.0	28.00	331.37	972.5	147.2	-80.3	167.7	4.00	4.00	0.00
1,100.0	32.00	331.37	1,059.1	191.1	-104.3	217.7	4.00	4.00	0.00
1,138.5	33.54	331.37	1,091.4	209.3	-114.3	238.5	4.00	4.00	0.00
1,198.0	33.54	331.37	1,141.0	238.2	-130.0	271.4	0.00	0.00	0.00
Nacimiento									
1,200.0	33.54	331.37	1,142.7	239.2	-130.5	272.5	0.00	0.00	0.00
1,300.0	33.54	331.37	1,226.0	287.7	-157.0	327.7	0.00	0.00	0.00
1,400.0	33.54	331.37	1,309.4	336.2	-183.5	383.0	0.00	0.00	0.00
1,500.0	33.54	331.37	1,392.7	384.7	-209.9	438.2	0.00	0.00	0.00
1,600.0	33.54	331.37	1,476.1	433.2	-236.4	493.5	0.00	0.00	0.00
1,700.0	33.54	331.37	1,559.4	481.7	-262.9	548.7	0.00	0.00	0.00
1,800.0	33.54	331.37	1,642.8	530.2	-289.4	604.0	0.00	0.00	0.00
1,900.0	33.54	331.37	1,726.1	578.7	-315.8	659.2	0.00	0.00	0.00
2,000.0	33.54	331.37	1,809.5	627.2	-342.3	714.5	0.00	0.00	0.00
2,100.0	33.54	331.37	1,892.8	675.7	-368.8	769.7	0.00	0.00	0.00
2,200.0	33.54	331.37	1,976.2	724.2	-395.2	825.0	0.00	0.00	0.00
2,300.0	33.54	331.37	2,059.5	772.7	-421.7	880.3	0.00	0.00	0.00
2,400.0	33.54	331.37	2,142.9	821.2	-448.2	935.5	0.00	0.00	0.00
2,500.0	33.54	331.37	2,226.2	869.7	-474.7	990.8	0.00	0.00	0.00
2,600.0	33.54	331.37	2,309.6	918.2	-501.1	1,046.0	0.00	0.00	0.00
2,661.7	33.54	331.37	2,361.0	948.1	-517.5	1,080.1	0.00	0.00	0.00
Ojo Alamo									
2,700.0	33.54	331.37	2,392.9	966.7	-527.6	1,101.3	0.00	0.00	0.00
2,778.7	33.54	331.37	2,458.6	1,004.9	-548.4	1,144.8	0.00	0.00	0.00
2,792.4	32.99	331.37	2,470.0	1,011.4	-552.0	1,152.3	4.00	-4.00	0.00
Kirtland									
2,800.0	32.69	331.37	2,476.4	1,015.0	-554.0	1,156.4	4.00	-4.00	0.00
2,900.0	28.69	331.37	2,562.3	1,059.8	-578.4	1,207.4	4.00	-4.00	0.00
3,000.0	24.69	331.37	2,651.7	1,099.3	-600.0	1,252.3	4.00	-4.00	0.00
3,100.0	20.69	331.37	2,743.9	1,133.1	-618.4	1,290.9	4.00	-4.00	0.00
3,200.0	16.69	331.37	2,838.6	1,161.2	-633.8	1,322.9	4.00	-4.00	0.00
3,274.0	13.73	331.37	2,910.0	1,178.3	-643.1	1,342.3	4.00	-4.00	0.00
Fruitland									
3,300.0	12.69	331.37	2,935.3	1,183.5	-645.9	1,348.3	4.00	-4.00	0.00
3,400.0	8.69	331.37	3,033.6	1,199.8	-654.8	1,366.8	4.00	-4.00	0.00
3,500.0	4.69	331.37	3,132.9	1,210.0	-660.4	1,378.5	4.00	-4.00	0.00
3,600.0	0.69	331.37	3,232.7	1,214.1	-662.7	1,383.2	4.00	-4.00	0.00
3,615.3	0.08	331.37	3,248.0	1,214.2	-662.7	1,383.3	4.00	-4.00	0.00
Fruitland Coal									
3,617.3	0.00	0.00	3,250.0	1,214.2	-662.7	1,383.3	4.00	-4.00	0.00
Depth to vertical									

ConocoPhillips or its affiliates

Planning Report

Database:	EDM Central Planning	Local Co-ordinate Reference:	Well SJ 31-6 #224A
Company:	ConocoPhillips SJBU	TVD Reference:	RKB @ 6454 0ft
Project:	San Juan Basin - New Mexico West Wells	MD Reference:	RKB @ 6454 0ft
Site:	San Juan 31 Wells	North Reference:	True
Well:	SJ 31-6 #224A	Survey Calculation Method:	Minimum Curvature
Wellbore:	SJ 31-6 #224A		
Design:	Plan #1		

Planned Survey

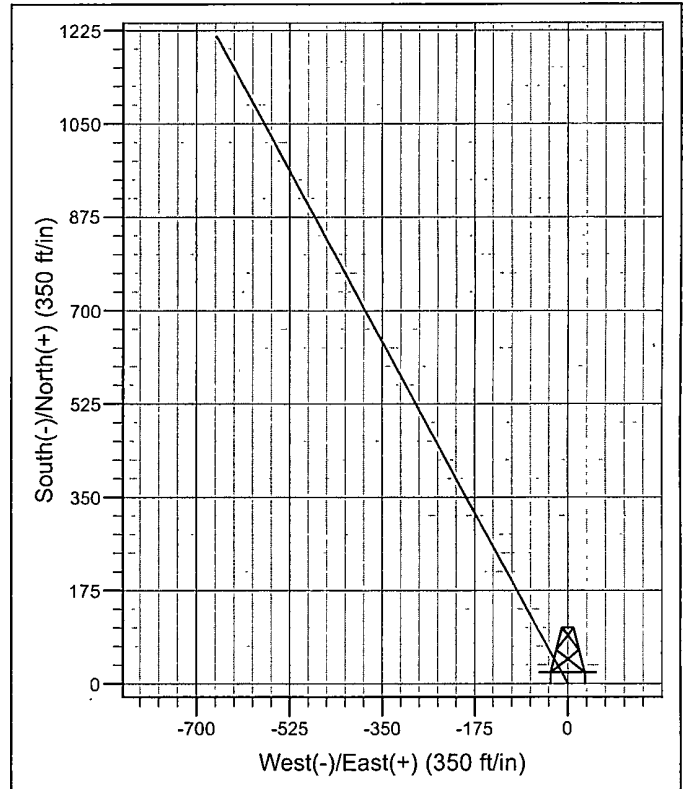
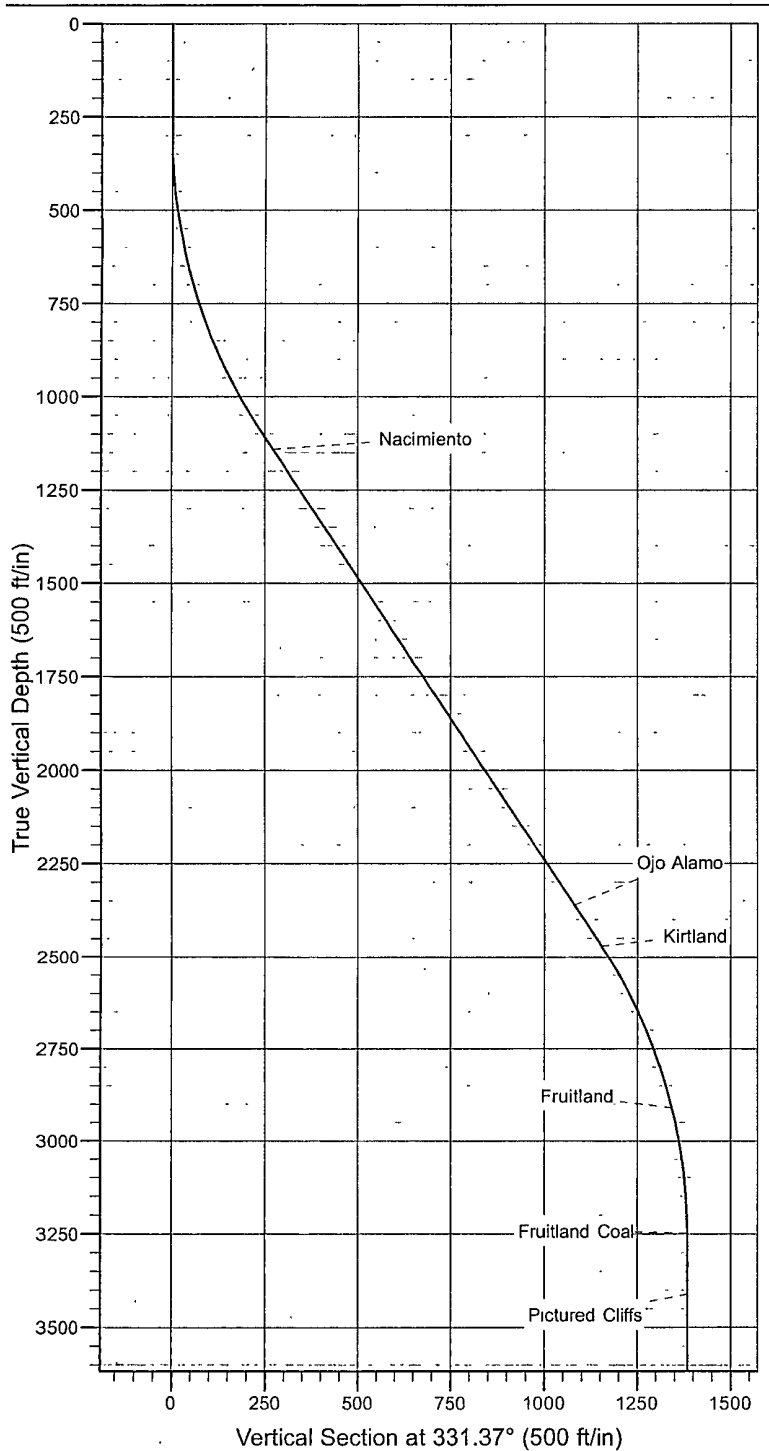
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,700.0	0.00	0.00	3,332.7	1,214.2	-662.7	1,383.3	0.00	0.00	0.00
3,778.3	0.00	0.00	3,411.0	1,214.2	-662.7	1,383.3	0.00	0.00	0.00
Pictured Cliffs									
3,800.0	0.00	0.00	3,432.7	1,214.2	-662.7	1,383.3	0.00	0.00	0.00
3,900.0	0.00	0.00	3,532.7	1,214.2	-662.7	1,383.3	0.00	0.00	0.00
3,978.3	0.00	0.00	3,611.0	1,214.2	-662.7	1,383.3	0.00	0.00	0.00
Production casing - Production casing									

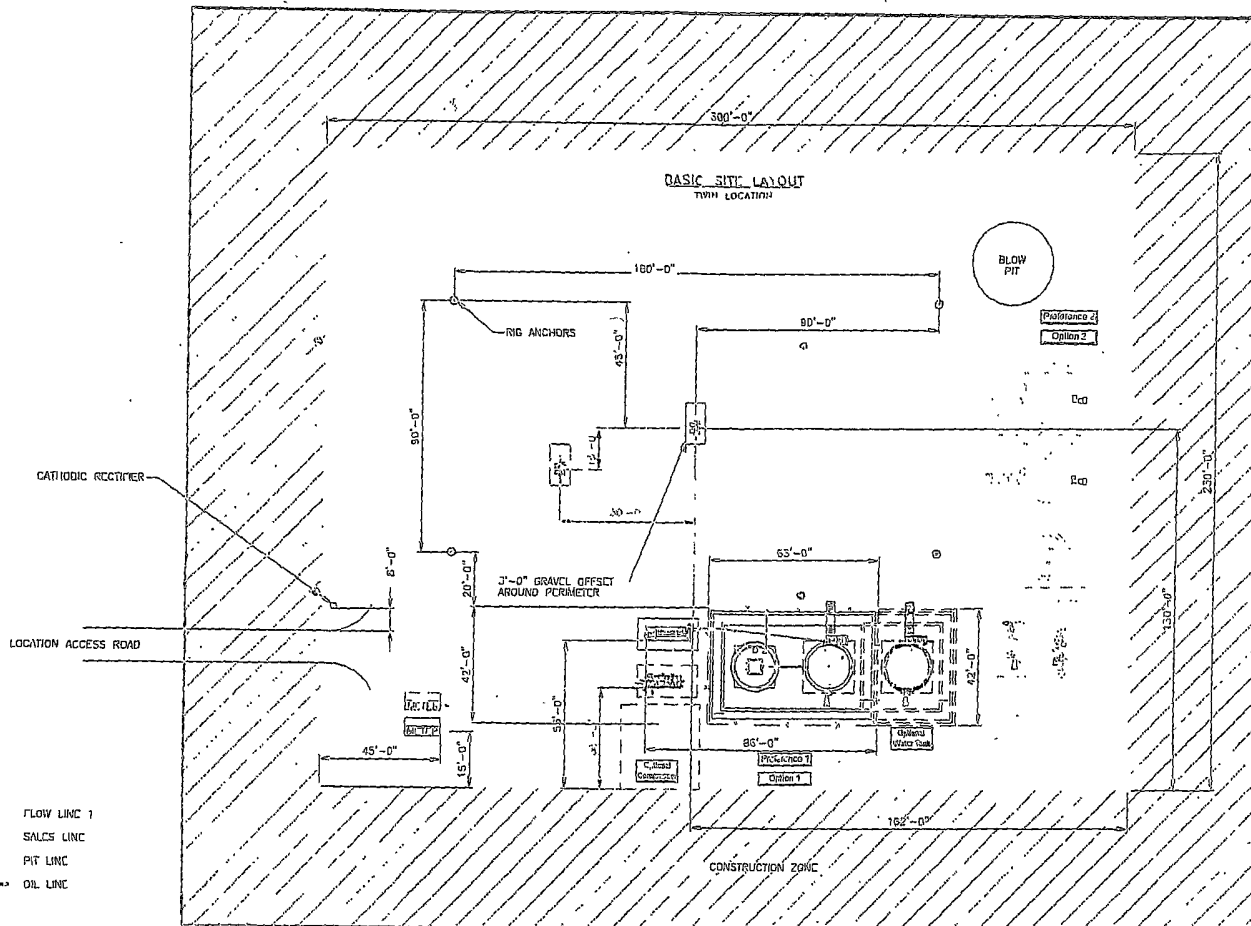
Targets

Target Name -hit/miss target -Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Depth to vertical - plan hits target center - Point	0.00	0.00	3,250.0	1,214.2	-662.7	2,130,137.17	598,386.56	36° 51' 12.882 N	107° 29' 49.398 W
Production casing - plan hits target center - Point	0.00	0.00	3,611.0	1,214.2	-662.7	2,130,137.19	598,386.52	36° 51' 12.882 N	107° 29' 49.398 W

WELL DETAILS: SJ 31-6 #224A

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	2128925.42	599053.53	36° 51' 0.87" N	107° 29' 41.244" W	





SEE SHEET 3 & 4 FOR PIPING DETAILS
ALL UNDERGROUND PIPE IS TO BE DUNED & LHM OF 3'-0" TOP

SHEET 1 OF 5

ENGINEERING REVIEW										REFERENCE DRAWINGS		CONOCOPHILLIPS		HIGH PRESSURE 3 PHASE FACILITY DIAGRAM- SITE LAYOUT	
DISCIPLINE										REV.	DESCRIPTION	CUST# 100		CUST# 100	
MECHANICAL												SHEET 100		SHEET 100	
ELECTRICAL												SHEET 100		SHEET 100	
I & E												SHEET 100		SHEET 100	
CONSTRUCTION												SHEET 100		SHEET 100	
PROJECT												SHEET 100		SHEET 100	
CLIENT 100												SHEET 100		SHEET 100	
SCHEMATIC												SHEET 100		SHEET 100	
PROCESS												SHEET 100		SHEET 100	
MECHANICAL												SHEET 100		SHEET 100	
Piping												SHEET 100		SHEET 100	
ELECTRICAL												SHEET 100		SHEET 100	
I & E												SHEET 100		SHEET 100	
CONSTRUCTION												SHEET 100		SHEET 100	
PROJECT												SHEET 100		SHEET 100	
CLIENT 100												SHEET 100		SHEET 100	
SCHEMATIC												SHEET 100		SHEET 100	
PROCESS												SHEET 100		SHEET 100	
MECHANICAL												SHEET 100		SHEET 100	
Piping												SHEET 100		SHEET 100	
ELECTRICAL												SHEET 100		SHEET 100	
I & E												SHEET 100		SHEET 100	
CONSTRUCTION												SHEET 100		SHEET 100	
PROJECT												SHEET 100		SHEET 100	
CLIENT 100												SHEET 100		SHEET 100	
SCHEMATIC												SHEET 100		SHEET 100	
PROCESS												SHEET 100		SHEET 100	
MECHANICAL												SHEET 100		SHEET 100	
Piping												SHEET 100		SHEET 100	
ELECTRICAL												SHEET 100		SHEET 100	
I & E												SHEET 100		SHEET 100	
CONSTRUCTION												SHEET 100		SHEET 100	
PROJECT												SHEET 100		SHEET 100	
CLIENT 100												SHEET 100		SHEET 100	
SCHEMATIC												SHEET 100		SHEET 100	
PROCESS												SHEET 100		SHEET 100	
MECHANICAL												SHEET 100		SHEET 100	
Piping												SHEET 100		SHEET 100	
ELECTRICAL												SHEET 100		SHEET 100	
I & E												SHEET 100		SHEET 100	
CONSTRUCTION												SHEET 100		SHEET 100	
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