

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-101
August 1, 2011

Permit 278968

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address COLGATE OPERATING, LLC 306 W Wall Street Midland, TX 79701		2. OGRID Number 371449
		3. API Number 30-015-46805
4. Property Code 327171	5. Property Name BIG BURRO 27 STATE COM	6. Well No. 124H

7. Surface Location

UL - Lot P	Section 27	Township 19S	Range 28E	Lot Idn p	Feet From 910	N/S Line S	Feet From 20	E/W Line E	County Eddy
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8. Proposed Bottom Hole Location

UL - Lot M	Section 28	Township 19S	Range 28E	Lot Idn M	Feet From 330	N/S Line S	Feet From 10	E/W Line W	County Eddy
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9. Pool Information

WINCHESTER; BONE SPRING, WEST	97569
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Additional Well Information

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3336
16. Multiple N	17. Proposed Depth 17665	18. Formation Bone Spring	19. Contractor	20. Spud Date 3/16/2020
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	200	131	0
Int1	12.25	9.625	36	3050	827	0
Prod	8.75	5.5	20	17665	3783	2050

Casing/Cement Program: Additional Comments

Production casing grade is HCP-110; Surface fluid - Fresh water spud mud; Int 1 fluid - Brine water; Prod fluid - Cut-brine poly-oil mud
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22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	10000	5000	Shaffer
Double Ram	10000	5000	Shaffer

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒ if applicable.

OIL CONSERVATION DIVISION

Signature:			
Printed Name:	Electronically filed by Mikah Thomas	Approved By:	Raymond Podany
Title:	Operations Tech	Title:	Geologist
Email Address:	mthomas@colgateenergy.com	Approved Date:	3/9/2020
Date:	3/3/2020	Expiration Date:	3/9/2022
Phone: 432-695-4272		Conditions of Approval Attached	

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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 August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-	² Pool Code 97569	³ Pool Name WINCHESTER; BONE SPRING, WEST
⁴ Property Code 327171	⁵ Property Name BIG BURRO 27 STATE COM	⁶ Well Number 124H
⁷ OGRID No. 371449	⁸ Operator Name COLGATE OPERATING, LLC	⁹ Elevation 3344.8

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	27	19 S	28 E		910	SOUTH	20	EAST	EDDY

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
M	28	19 S	28 E		330	SOUTH	10	WEST	EDDY

¹² Dedicated Acres 320.00	¹³ Joint or Infill	¹⁴ Consolidation Code C	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.

	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. 3-3-20 Signature _____ Date _____ BRIAN WOOD Printed Name _____ brian@permitswest.com E-mail Address _____ 505 466-8120
	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. JANUARY 29, 2020 Date of Survey _____ Signature and Seal of Professional Surveyor: _____ Certificate Number: PAUL MONTE JARAMILLO PLS 12797 SURVEY NO. 7923

Intent ☐ As Drilled ☐

API #		
Operator Name:	Property Name:	Well Number

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

First Take Point (FTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Feet	From N/S	Feet	From E/W	County
Latitude					Longitude				NAD

Is this well the defining well for the Horizontal Spacing Unit? ☐Is this well an infill well? ☐

If infill is yes please provide API if available, Operator Name and well number for Defining well for Horizontal Spacing Unit.

API #		
Operator Name:	Property Name:	Well Number

KZ 06/29/2018

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Oil Conservation Division
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Santa Fe, NM 87505

GAS CAPTURE PLAN

Date: 3/9/2020

☒ Original

Operator & OGRID No.: [371449] COLGATE OPERATING, LLC

☐ Amended - Reason for
Amendment: _____

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
BIG BURRO 27 STATE COM #124H	30-015-46805	P-27-19S-28E	0910S 0020E	3000	Flared	

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to DCP OPERATING COMPANY, LP and will be connected to DCP OPERATING COMPANY, LP High Pressure gathering system located in Eddy County, New Mexico. It will require 4100' of pipeline to connect the facility to High Pressure gathering system. COLGATE OPERATING, LLC provides (periodically) to DCP OPERATING COMPANY, LP a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, COLGATE OPERATING, LLC and DCP OPERATING COMPANY, LP have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at DCP OPERATING COMPANY, LP Processing Plant located in Sec. 27, Twn. 19S, Rng. 28E, Eddy County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on DCP OPERATING COMPANY, LP system at that time. Based on current information, it is COLGATE OPERATING, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
 - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
 - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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Form APD Comments

Permit 278968

PERMIT COMMENTS

Operator Name and Address: COLGATE OPERATING, LLC [371449] 306 W Wall Street Midland, TX 79701		API Number: 30-015-46805
		Well: BIG BURRO 27 STATE COM #124H
Created By	Comment	Comment Date

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Santa Fe, NM 87505

Form APD Conditions

Permit 278968

PERMIT CONDITIONS OF APPROVAL

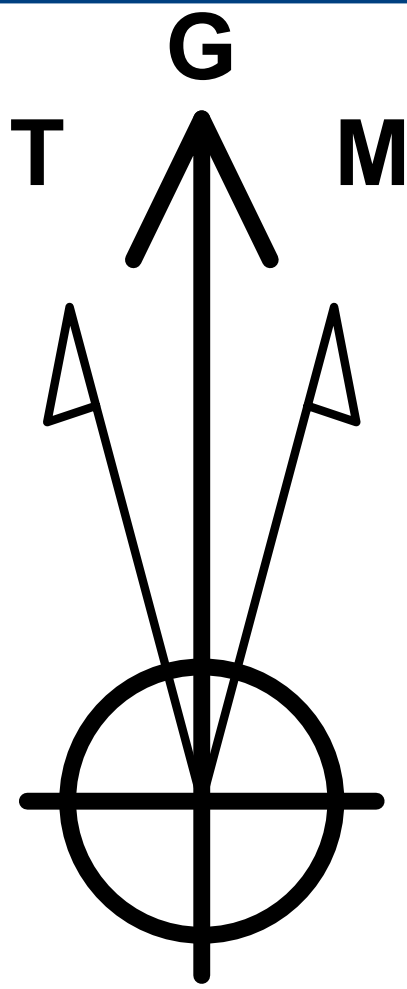
Operator Name and Address:		API Number:
COLGATE OPERATING, LLC [371449]		30-015-46805
306 W Wall Street		Well:
Midland, TX 79701		BIG BURRO 27 STATE COM #124H

OCD Reviewer	Condition
ksimmons	Will require a directional survey with the C-104
ksimmons	Cement is required to circulate on both surface and intermediate1 strings of casing
ksimmons	Operator must notify operator(s) of other well(s) in same quarter-quarter section before both drilling and completing.



WELL DETAILS: Big Burro 27 State Com 124H

Northing	Easting	Latitude	Longitude	Slot
591890.67	595963.93	32.62703196	-104.15589422	



Azimuths to Grid North
True North: -0.10°
Magnetic North: 6.91°

Magnetic Field
Strength: 47811.0snT
Dip Angle: 60.22°
Date: 2/12/2020
Model: IGRF2020

PROJECT DETAILS: Eddy County, NM (N83-NME)
Well Name: Big Burro 27 State Com 124H
Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level
Local North: Grid
KB Elevation: KB @ 3361.00usft (Permit)
Elevation: 3336.00

Site: Big Burro 27 State Com
Well: Big Burro 27 State Com 124H
Wellbore: OH
Plan: Plan #1

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
138.00	138.00	Rustler
246.00	246.00	Top of Salt
578.00	578.00	Base of Salt
815.00	815.00	Yates
2081.00	2085.13	Capitan
2584.00	2591.72	DLWR Mnt. Group
3304.00	3316.87	Lower Brushy Canyon
3911.00	3928.21	Bone Spring Lime
6386.00	6419.53	1st Bone Spring SD
6536.00	6569.55	2nd Bone Spring LM
7311.00	7383.63	2nd Bone Spring SD

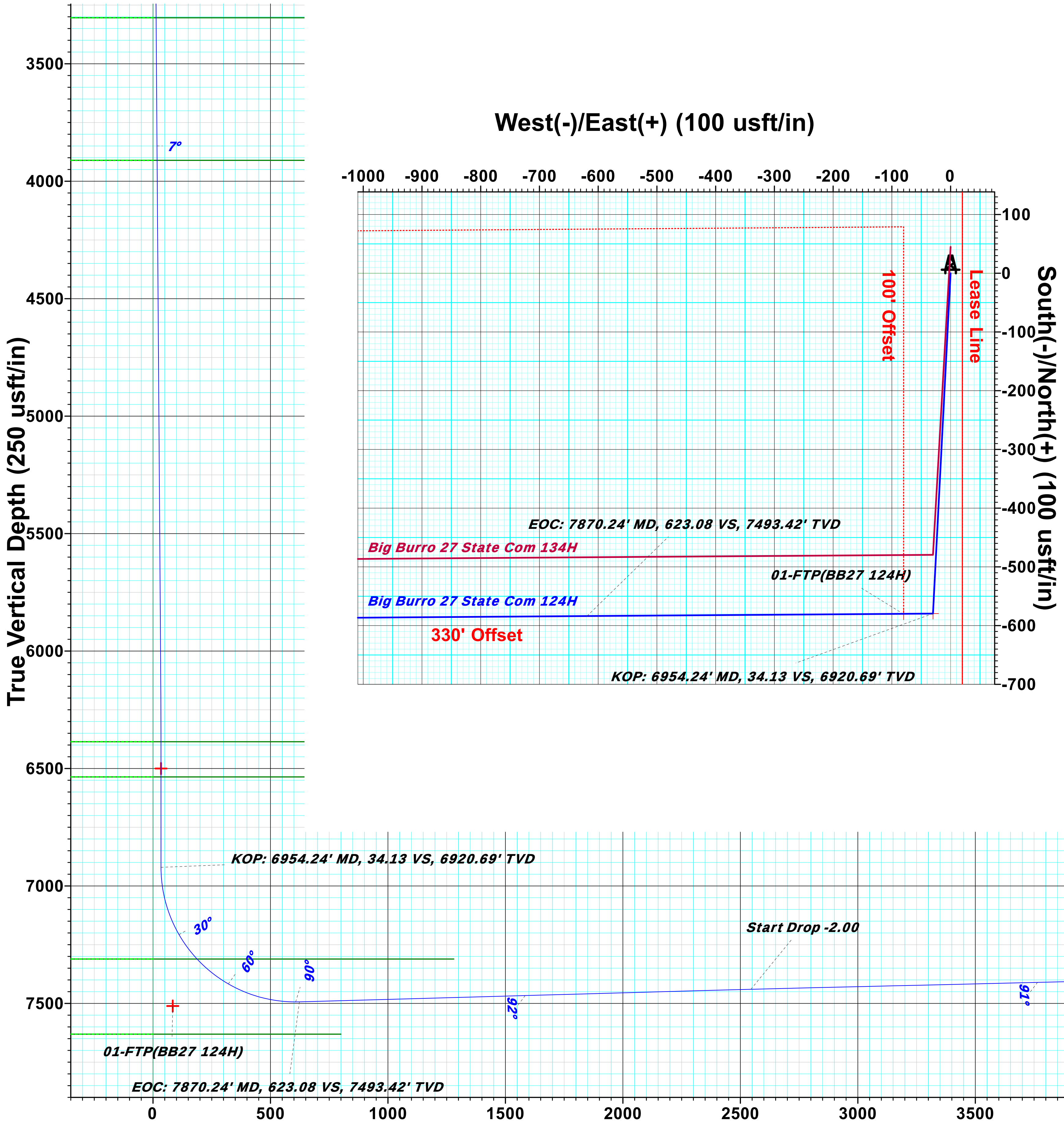
Section Details

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00
3	1655.40	6.83	182.96	1654.32	-27.08	-1.40	1.50	182.96	1.59
4	6078.15	6.83	182.96	6045.68	-552.42	-28.58	0.00	0.00	32.53
5	6533.55	0.00	0.00	6500.00	-579.50	-29.98	1.50	180.00	34.13
6	6954.24	0.00	0.00	6920.69	-579.50	-29.98	0.00	0.00	34.13
7	7870.24	91.60	269.59	7493.42	-583.71	-618.92	10.00	269.59	623.08
8	9792.91	91.60	269.59	7439.74	-597.47	-2540.79	0.00	0.00	2545.00
9	9804.41	91.37	269.59	7439.44	-597.55	-2552.29	2.00	180.00	2556.50
10	12221.60	91.37	269.59	7381.65	-614.84	-4968.73	0.00	0.00	4973.00
11	12244.60	91.83	269.59	7381.01	-615.01	-4991.72	2.00	0.00	4995.99
12	14717.87	91.83	269.59	7302.03	-632.70	-7463.66	0.00	0.00	7468.00
13	14751.90	91.15	269.59	7301.14	-632.94	-7497.68	2.00	179.67	7502.02
14	17664.92	91.15	269.59	7242.71	-653.58	-10410.04	0.00	0.00	10414.45

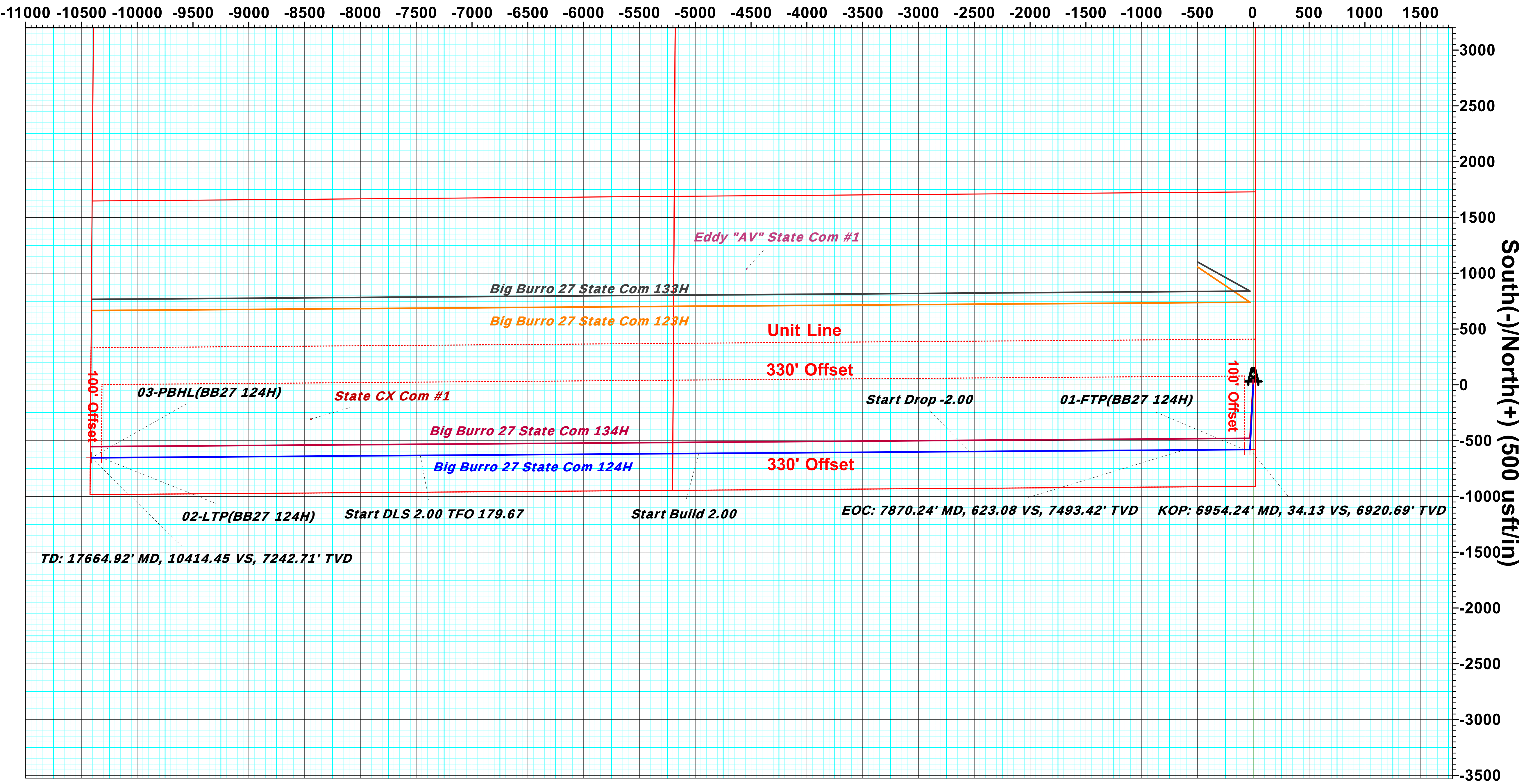
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
00-EON(BB27 124H)	6500.00	-579.50	-29.98	591311.17	595933.95	32.62543922	-104.15599475
01-FTP(BB27 124H)	7511.00	-580.43	-79.96	591310.24	595883.97	32.62543689	-104.15615709
02-LTP(BB27 124H)	7244.52	-652.94	-10320.06	591237.73	585643.87	32.62528011	-104.18941890
03-PBHL(BB27 124H)	7242.71	-653.58	-10410.04	591237.09	585553.89	32.62527868	-104.18971117

West(-)/East(+) (100 usft/in)



West(-)/East(+) (500 usft/in)



Vertical Section at 269.59° (250 usft/in)





Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Big Burro 27 State Com 124H
Company:	Colgate Energy	TVD Reference:	KB @ 3361.00usft (Permit)
Project:	Eddy County, NM (N83-NME)	MD Reference:	KB @ 3361.00usft (Permit)
Site:	Big Burro 27 State Com	North Reference:	Grid
Well:	Big Burro 27 State Com 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Eddy County, NM (N83-NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Big Burro 27 State Com				
Site Position:		Northing:	592,946.93 usft	Latitude:	32.62993761
From:	Map	Easting:	595,464.19 usft	Longitude:	-104.15751180
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.09

Well	Big Burro 27 State Com 124H					
Well Position	+N/-S	-1,056.26 usft	Northing:	591,890.67 usft	Latitude:	32.62703196
	+E/-W	499.74 usft	Easting:	595,963.93 usft	Longitude:	-104.15589422
Position Uncertainty	0.00 usft		Wellhead Elevation:		Ground Level:	3,336.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2020	2/12/2020	7.00	60.22	47,811.02430489

Design	Plan #1				
Audit Notes:					
Version:		Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	269.59	

Plan Survey Tool Program	Date	2/13/2020			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.00	17,664.92 Plan #1 (OH)	OWSG MWD Rev 4		
			OWSG MWD - Standard		



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Big Burro 27 State Com 124H
Company:	Colgate Energy	TVD Reference:	KB @ 3361.00usft (Permit)
Project:	Eddy County, NM (N83-NME)	MD Reference:	KB @ 3361.00usft (Permit)
Site:	Big Burro 27 State Com	North Reference:	Grid
Well:	Big Burro 27 State Com 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,655.40	6.83	182.96	1,654.32	-27.08	-1.40	1.50	1.50	0.00	182.96	
6,078.15	6.83	182.96	6,045.68	-552.42	-28.58	0.00	0.00	0.00	0.00	
6,533.55	0.00	0.00	6,500.00	-579.50	-29.98	1.50	-1.50	0.00	180.00	00-EON(BB27 124H)
6,954.24	0.00	0.00	6,920.69	-579.50	-29.98	0.00	0.00	0.00	0.00	
7,870.24	91.60	269.59	7,493.42	-583.71	-618.92	10.00	10.00	0.00	269.59	
9,792.91	91.60	269.59	7,439.74	-597.47	-2,540.79	0.00	0.00	0.00	0.00	
9,804.41	91.37	269.59	7,439.44	-597.55	-2,552.29	2.00	-2.00	0.00	180.00	
12,221.60	91.37	269.59	7,381.65	-614.84	-4,968.73	0.00	0.00	0.00	0.00	
12,244.60	91.83	269.59	7,381.01	-615.01	-4,991.72	2.00	2.00	0.00	0.00	
14,717.87	91.83	269.59	7,302.03	-632.70	-7,463.66	0.00	0.00	0.00	0.00	
14,751.91	91.15	269.59	7,301.14	-632.94	-7,497.68	2.00	-2.00	0.01	179.67	
17,664.92	91.15	269.59	7,242.71	-653.58	-10,410.04	0.00	0.00	0.00	0.00	03-PBHL(BB27 124H)



Planning Report

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Company:	Colgate Energy	TVD Reference:	KB @ 3361.00usft (Permit)
Project:	Eddy County, NM (N83-NME)	MD Reference:	KB @ 3361.00usft (Permit)
Site:	Big Burro 27 State Com	North Reference:	Grid
Well:	Big Burro 27 State Com 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
138.00	0.00	0.00	138.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
246.00	0.00	0.00	246.00	0.00	0.00	0.00	0.00	0.00	0.00
Top of Salt									
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
578.00	0.00	0.00	578.00	0.00	0.00	0.00	0.00	0.00	0.00
Base of Salt									
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
815.00	0.00	0.00	815.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates									
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	1.50	182.96	1,299.99	-1.31	-0.07	0.08	1.50	1.50	0.00
1,400.00	3.00	182.96	1,399.91	-5.23	-0.27	0.31	1.50	1.50	0.00
1,500.00	4.50	182.96	1,499.69	-11.76	-0.61	0.69	1.50	1.50	0.00
1,600.00	6.00	182.96	1,599.27	-20.90	-1.08	1.23	1.50	1.50	0.00
1,655.40	6.83	182.96	1,654.32	-27.08	-1.40	1.59	1.50	1.50	0.00
1,700.00	6.83	182.96	1,698.61	-32.38	-1.68	1.91	0.00	0.00	0.00
1,800.00	6.83	182.96	1,797.90	-44.25	-2.29	2.61	0.00	0.00	0.00
1,900.00	6.83	182.96	1,897.19	-56.13	-2.90	3.31	0.00	0.00	0.00
2,000.00	6.83	182.96	1,996.48	-68.01	-3.52	4.01	0.00	0.00	0.00
2,085.13	6.83	182.96	2,081.00	-78.12	-4.04	4.60	0.00	0.00	0.00
Capitan									
2,100.00	6.83	182.96	2,095.77	-79.89	-4.13	4.70	0.00	0.00	0.00
2,200.00	6.83	182.96	2,195.06	-91.77	-4.75	5.40	0.00	0.00	0.00
2,300.00	6.83	182.96	2,294.35	-103.65	-5.36	6.10	0.00	0.00	0.00
2,400.00	6.83	182.96	2,393.64	-115.52	-5.98	6.80	0.00	0.00	0.00
2,500.00	6.83	182.96	2,492.93	-127.40	-6.59	7.50	0.00	0.00	0.00
2,591.72	6.83	182.96	2,584.00	-138.30	-7.16	8.14	0.00	0.00	0.00
DLWR Mnt. Group									
2,600.00	6.83	182.96	2,592.22	-139.28	-7.21	8.20	0.00	0.00	0.00
2,700.00	6.83	182.96	2,691.51	-151.16	-7.82	8.90	0.00	0.00	0.00
2,800.00	6.83	182.96	2,790.80	-163.04	-8.44	9.60	0.00	0.00	0.00
2,900.00	6.83	182.96	2,890.09	-174.91	-9.05	10.30	0.00	0.00	0.00
3,000.00	6.83	182.96	2,989.38	-186.79	-9.66	11.00	0.00	0.00	0.00
3,100.00	6.83	182.96	3,088.67	-198.67	-10.28	11.70	0.00	0.00	0.00
3,200.00	6.83	182.96	3,187.96	-210.55	-10.89	12.40	0.00	0.00	0.00
3,300.00	6.83	182.96	3,287.25	-222.43	-11.51	13.10	0.00	0.00	0.00
3,316.87	6.83	182.96	3,304.00	-224.43	-11.61	13.22	0.00	0.00	0.00
Lower Brushy Canyon									
3,400.00	6.83	182.96	3,386.54	-234.31	-12.12	13.80	0.00	0.00	0.00
3,500.00	6.83	182.96	3,485.83	-246.18	-12.74	14.50	0.00	0.00	0.00
3,600.00	6.83	182.96	3,585.12	-258.06	-13.35	15.20	0.00	0.00	0.00
3,700.00	6.83	182.96	3,684.41	-269.94	-13.97	15.90	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Big Burro 27 State Com 124H
Company:	Colgate Energy	TVD Reference:	KB @ 3361.00usft (Permit)
Project:	Eddy County, NM (N83-NME)	MD Reference:	KB @ 3361.00usft (Permit)
Site:	Big Burro 27 State Com	North Reference:	Grid
Well:	Big Burro 27 State Com 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
3,800.00	6.83	182.96	3,783.70	-281.82	-14.58	16.60	0.00	0.00	0.00
3,900.00	6.83	182.96	3,882.99	-293.70	-15.20	17.30	0.00	0.00	0.00
3,928.21	6.83	182.96	3,911.00	-297.05	-15.37	17.49	0.00	0.00	0.00
Bone Spring Lime									
4,000.00	6.83	182.96	3,982.28	-305.57	-15.81	18.00	0.00	0.00	0.00
4,100.00	6.83	182.96	4,081.57	-317.45	-16.42	18.70	0.00	0.00	0.00
4,200.00	6.83	182.96	4,180.86	-329.33	-17.04	19.40	0.00	0.00	0.00
4,300.00	6.83	182.96	4,280.15	-341.21	-17.65	20.09	0.00	0.00	0.00
4,400.00	6.83	182.96	4,379.44	-353.09	-18.27	20.79	0.00	0.00	0.00
4,500.00	6.83	182.96	4,478.73	-364.97	-18.88	21.49	0.00	0.00	0.00
4,600.00	6.83	182.96	4,578.02	-376.84	-19.50	22.19	0.00	0.00	0.00
4,700.00	6.83	182.96	4,677.31	-388.72	-20.11	22.89	0.00	0.00	0.00
4,800.00	6.83	182.96	4,776.60	-400.60	-20.73	23.59	0.00	0.00	0.00
4,900.00	6.83	182.96	4,875.89	-412.48	-21.34	24.29	0.00	0.00	0.00
5,000.00	6.83	182.96	4,975.18	-424.36	-21.96	24.99	0.00	0.00	0.00
5,100.00	6.83	182.96	5,074.47	-436.23	-22.57	25.69	0.00	0.00	0.00
5,200.00	6.83	182.96	5,173.76	-448.11	-23.18	26.39	0.00	0.00	0.00
5,300.00	6.83	182.96	5,273.05	-459.99	-23.80	27.09	0.00	0.00	0.00
5,400.00	6.83	182.96	5,372.34	-471.87	-24.41	27.79	0.00	0.00	0.00
5,500.00	6.83	182.96	5,471.63	-483.75	-25.03	28.49	0.00	0.00	0.00
5,600.00	6.83	182.96	5,570.92	-495.63	-25.64	29.19	0.00	0.00	0.00
5,700.00	6.83	182.96	5,670.21	-507.50	-26.26	29.89	0.00	0.00	0.00
5,800.00	6.83	182.96	5,769.50	-519.38	-26.87	30.59	0.00	0.00	0.00
5,900.00	6.83	182.96	5,868.79	-531.26	-27.49	31.29	0.00	0.00	0.00
6,000.00	6.83	182.96	5,968.08	-543.14	-28.10	31.99	0.00	0.00	0.00
6,078.15	6.83	182.96	6,045.68	-552.42	-28.58	32.53	0.00	0.00	0.00
6,100.00	6.50	182.96	6,067.38	-554.95	-28.71	32.68	1.50	-1.50	0.00
6,200.00	5.00	182.96	6,166.87	-564.97	-29.23	33.27	1.50	-1.50	0.00
6,300.00	3.50	182.96	6,266.59	-572.37	-29.61	33.71	1.50	-1.50	0.00
6,400.00	2.00	182.96	6,366.48	-577.17	-29.86	33.99	1.50	-1.50	0.00
6,419.53	1.71	182.96	6,386.00	-577.80	-29.89	34.03	1.50	-1.50	0.00
1st Bone Spring SD									
6,500.00	0.50	182.96	6,466.45	-579.35	-29.97	34.12	1.50	-1.50	0.00
6,533.55	0.00	0.00	6,500.00	-579.50	-29.98	34.13	1.50	-1.50	0.00
00-EON(BB27 124H)									
6,569.55	0.00	0.00	6,536.00	-579.50	-29.98	34.13	0.00	0.00	0.00
2nd Bone Spring LM									
6,600.00	0.00	0.00	6,566.45	-579.50	-29.98	34.13	0.00	0.00	0.00
6,700.00	0.00	0.00	6,666.45	-579.50	-29.98	34.13	0.00	0.00	0.00
6,800.00	0.00	0.00	6,766.45	-579.50	-29.98	34.13	0.00	0.00	0.00
6,900.00	0.00	0.00	6,866.45	-579.50	-29.98	34.13	0.00	0.00	0.00
6,954.24	0.00	0.00	6,920.69	-579.50	-29.98	34.13	0.00	0.00	0.00
KOP: 6954.24' MD, 34.13 VS, 6920.69' TVD									
7,000.00	4.58	269.59	6,966.40	-579.51	-31.81	35.95	10.00	10.00	0.00
7,050.00	9.58	269.59	7,016.00	-579.56	-37.97	42.11	10.00	10.00	0.00
7,100.00	14.58	269.59	7,064.88	-579.63	-48.42	52.57	10.00	10.00	0.00
7,150.00	19.58	269.59	7,112.66	-579.74	-63.10	67.25	10.00	10.00	0.00
7,200.00	24.58	269.59	7,158.98	-579.87	-81.88	86.03	10.00	10.00	0.00
7,250.00	29.58	269.59	7,203.49	-580.03	-104.64	108.78	10.00	10.00	0.00
7,300.00	34.58	269.59	7,245.84	-580.22	-131.18	135.33	10.00	10.00	0.00
7,350.00	39.58	269.59	7,285.72	-580.44	-161.31	165.46	10.00	10.00	0.00
7,383.63	42.94	269.59	7,311.00	-580.60	-183.49	187.64	10.00	10.00	0.00
2nd Bone Spring SD									



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Big Burro 27 State Com 124H
Company:	Colgate Energy	TVD Reference:	KB @ 3361.00usft (Permit)
Project:	Eddy County, NM (N83-NME)	MD Reference:	KB @ 3361.00usft (Permit)
Site:	Big Burro 27 State Com	North Reference:	Grid
Well:	Big Burro 27 State Com 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,400.00	44.58	269.59	7,322.82	-580.68	-194.81	198.96	10.00	10.00	0.00
7,444.07	48.98	269.59	7,353.00	-580.91	-226.91	231.07	10.00	10.00	0.00
01-FTP(BB27 124H)									
7,450.00	49.58	269.59	7,356.86	-580.94	-231.41	235.56	10.00	10.00	0.00
7,500.00	54.58	269.59	7,387.58	-581.22	-270.83	274.99	10.00	10.00	0.00
7,550.00	59.58	269.59	7,414.75	-581.52	-312.79	316.94	10.00	10.00	0.00
7,600.00	64.58	269.59	7,438.16	-581.84	-356.95	361.11	10.00	10.00	0.00
7,650.00	69.58	269.59	7,457.63	-582.17	-402.99	407.14	10.00	10.00	0.00
7,700.00	74.58	269.59	7,473.01	-582.51	-450.54	454.70	10.00	10.00	0.00
7,750.00	79.58	269.59	7,484.19	-582.86	-499.26	503.42	10.00	10.00	0.00
7,800.00	84.58	269.59	7,491.08	-583.21	-548.77	552.93	10.00	10.00	0.00
7,850.00	89.58	269.59	7,493.63	-583.57	-598.68	602.84	10.00	10.00	0.00
7,870.24	91.60	269.59	7,493.42	-583.71	-618.92	623.08	10.00	10.00	0.00
EOC: 7870.24' MD, 623.08 VS, 7493.42' TVD									
7,900.00	91.60	269.59	7,492.59	-583.93	-648.67	652.83	0.00	0.00	0.00
8,000.00	91.60	269.59	7,489.80	-584.64	-748.63	752.79	0.00	0.00	0.00
8,100.00	91.60	269.59	7,487.01	-585.36	-848.59	852.75	0.00	0.00	0.00
8,200.00	91.60	269.59	7,484.22	-586.07	-948.54	952.71	0.00	0.00	0.00
8,300.00	91.60	269.59	7,481.43	-586.79	-1,048.50	1,052.67	0.00	0.00	0.00
8,400.00	91.60	269.59	7,478.63	-587.50	-1,148.46	1,152.64	0.00	0.00	0.00
8,500.00	91.60	269.59	7,475.84	-588.22	-1,248.42	1,252.60	0.00	0.00	0.00
8,600.00	91.60	269.59	7,473.05	-588.93	-1,348.38	1,352.56	0.00	0.00	0.00
8,700.00	91.60	269.59	7,470.26	-589.65	-1,448.34	1,452.52	0.00	0.00	0.00
8,800.00	91.60	269.59	7,467.46	-590.37	-1,548.30	1,552.48	0.00	0.00	0.00
8,900.00	91.60	269.59	7,464.67	-591.08	-1,648.25	1,652.44	0.00	0.00	0.00
9,000.00	91.60	269.59	7,461.88	-591.80	-1,748.21	1,752.40	0.00	0.00	0.00
9,100.00	91.60	269.59	7,459.09	-592.51	-1,848.17	1,852.36	0.00	0.00	0.00
9,200.00	91.60	269.59	7,456.30	-593.23	-1,948.13	1,952.32	0.00	0.00	0.00
9,300.00	91.60	269.59	7,453.50	-593.94	-2,048.09	2,052.29	0.00	0.00	0.00
9,400.00	91.60	269.59	7,450.71	-594.66	-2,148.05	2,152.25	0.00	0.00	0.00
9,500.00	91.60	269.59	7,447.92	-595.37	-2,248.00	2,252.21	0.00	0.00	0.00
9,600.00	91.60	269.59	7,445.13	-596.09	-2,347.96	2,352.17	0.00	0.00	0.00
9,700.00	91.60	269.59	7,442.33	-596.80	-2,447.92	2,452.13	0.00	0.00	0.00
9,792.91	91.60	269.59	7,439.74	-597.47	-2,540.79	2,545.00	0.00	0.00	0.00
Start Drop -2.00									
9,804.41	91.37	269.59	7,439.44	-597.55	-2,552.29	2,556.50	2.00	-2.00	0.00
9,900.00	91.37	269.59	7,437.16	-598.23	-2,647.85	2,652.06	0.00	0.00	0.00
10,000.00	91.37	269.59	7,434.77	-598.95	-2,747.82	2,752.03	0.00	0.00	0.00
10,100.00	91.37	269.59	7,432.38	-599.66	-2,847.79	2,852.00	0.00	0.00	0.00
10,200.00	91.37	269.59	7,429.98	-600.38	-2,947.76	2,951.98	0.00	0.00	0.00
10,300.00	91.37	269.59	7,427.59	-601.09	-3,047.72	3,051.95	0.00	0.00	0.00
10,400.00	91.37	269.59	7,425.20	-601.81	-3,147.69	3,151.92	0.00	0.00	0.00
10,500.00	91.37	269.59	7,422.81	-602.53	-3,247.66	3,251.89	0.00	0.00	0.00
10,600.00	91.37	269.59	7,420.42	-603.24	-3,347.63	3,351.86	0.00	0.00	0.00
10,700.00	91.37	269.59	7,418.03	-603.96	-3,447.60	3,451.83	0.00	0.00	0.00
10,800.00	91.37	269.59	7,415.64	-604.67	-3,547.57	3,551.80	0.00	0.00	0.00
10,900.00	91.37	269.59	7,413.25	-605.39	-3,647.54	3,651.78	0.00	0.00	0.00
11,000.00	91.37	269.59	7,410.86	-606.10	-3,747.51	3,751.75	0.00	0.00	0.00
11,100.00	91.37	269.59	7,408.47	-606.82	-3,847.48	3,851.72	0.00	0.00	0.00
11,200.00	91.37	269.59	7,406.08	-607.53	-3,947.44	3,951.69	0.00	0.00	0.00
11,300.00	91.37	269.59	7,403.68	-608.25	-4,047.41	4,051.66	0.00	0.00	0.00
11,400.00	91.37	269.59	7,401.29	-608.96	-4,147.38	4,151.63	0.00	0.00	0.00
11,500.00	91.37	269.59	7,398.90	-609.68	-4,247.35	4,251.60	0.00	0.00	0.00



Planning Report

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Site:	Big Burro 27 State Com	North Reference:	Grid
Well:	Big Burro 27 State Com 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,600.00	91.37	269.59	7,396.51	-610.39	-4,347.32	4,351.58	0.00	0.00	0.00
11,700.00	91.37	269.59	7,394.12	-611.11	-4,447.29	4,451.55	0.00	0.00	0.00
11,800.00	91.37	269.59	7,391.73	-611.83	-4,547.26	4,551.52	0.00	0.00	0.00
11,900.00	91.37	269.59	7,389.34	-612.54	-4,647.23	4,651.49	0.00	0.00	0.00
12,000.00	91.37	269.59	7,386.95	-613.26	-4,747.19	4,751.46	0.00	0.00	0.00
12,100.00	91.37	269.59	7,384.56	-613.97	-4,847.16	4,851.43	0.00	0.00	0.00
12,200.00	91.37	269.59	7,382.17	-614.69	-4,947.13	4,951.40	0.00	0.00	0.00
12,221.60	91.37	269.59	7,381.65	-614.84	-4,968.73	4,973.00	0.00	0.00	0.00
Start Build 2.00									
12,244.60	91.83	269.59	7,381.01	-615.01	-4,991.72	4,995.99	2.00	2.00	0.00
12,300.00	91.83	269.59	7,379.24	-615.40	-5,047.09	5,051.36	0.00	0.00	0.00
12,400.00	91.83	269.59	7,376.05	-616.12	-5,147.03	5,151.31	0.00	0.00	0.00
12,500.00	91.83	269.59	7,372.85	-616.83	-5,246.98	5,251.26	0.00	0.00	0.00
12,600.00	91.83	269.59	7,369.66	-617.55	-5,346.93	5,351.21	0.00	0.00	0.00
12,700.00	91.83	269.59	7,366.47	-618.26	-5,446.87	5,451.16	0.00	0.00	0.00
12,800.00	91.83	269.59	7,363.27	-618.98	-5,546.82	5,551.11	0.00	0.00	0.00
12,900.00	91.83	269.59	7,360.08	-619.69	-5,646.77	5,651.05	0.00	0.00	0.00
13,000.00	91.83	269.59	7,356.89	-620.41	-5,746.71	5,751.00	0.00	0.00	0.00
13,100.00	91.83	269.59	7,353.69	-621.12	-5,846.66	5,850.95	0.00	0.00	0.00
13,200.00	91.83	269.59	7,350.50	-621.84	-5,946.60	5,950.90	0.00	0.00	0.00
13,300.00	91.83	269.59	7,347.31	-622.55	-6,046.55	6,050.85	0.00	0.00	0.00
13,400.00	91.83	269.59	7,344.11	-623.27	-6,146.50	6,150.80	0.00	0.00	0.00
13,500.00	91.83	269.59	7,340.92	-623.98	-6,246.44	6,250.75	0.00	0.00	0.00
13,600.00	91.83	269.59	7,337.72	-624.70	-6,346.39	6,350.70	0.00	0.00	0.00
13,700.00	91.83	269.59	7,334.53	-625.42	-6,446.34	6,450.65	0.00	0.00	0.00
13,800.00	91.83	269.59	7,331.34	-626.13	-6,546.28	6,550.60	0.00	0.00	0.00
13,900.00	91.83	269.59	7,328.14	-626.85	-6,646.23	6,650.54	0.00	0.00	0.00
14,000.00	91.83	269.59	7,324.95	-627.56	-6,746.18	6,750.49	0.00	0.00	0.00
14,100.00	91.83	269.59	7,321.76	-628.28	-6,846.12	6,850.44	0.00	0.00	0.00
14,200.00	91.83	269.59	7,318.56	-628.99	-6,946.07	6,950.39	0.00	0.00	0.00
14,300.00	91.83	269.59	7,315.37	-629.71	-7,046.02	7,050.34	0.00	0.00	0.00
14,400.00	91.83	269.59	7,312.18	-630.42	-7,145.96	7,150.29	0.00	0.00	0.00
14,500.00	91.83	269.59	7,308.98	-631.14	-7,245.91	7,250.24	0.00	0.00	0.00
14,600.00	91.83	269.59	7,305.79	-631.85	-7,345.85	7,350.19	0.00	0.00	0.00
14,700.00	91.83	269.59	7,302.60	-632.57	-7,445.80	7,450.14	0.00	0.00	0.00
14,717.87	91.83	269.59	7,302.03	-632.70	-7,463.66	7,468.00	0.00	0.00	0.00
Start DLS 2.00 TFO 179.67									
14,751.91	91.15	269.59	7,301.14	-632.94	-7,497.68	7,502.02	2.00	-2.00	0.01
14,800.00	91.15	269.59	7,300.18	-633.28	-7,545.77	7,550.11	0.00	0.00	0.00
14,900.00	91.15	269.59	7,298.17	-633.99	-7,645.75	7,650.09	0.00	0.00	0.00
15,000.00	91.15	269.59	7,296.17	-634.70	-7,745.72	7,750.07	0.00	0.00	0.00
15,100.00	91.15	269.59	7,294.16	-635.40	-7,845.70	7,850.05	0.00	0.00	0.00
15,200.00	91.15	269.59	7,292.15	-636.11	-7,945.68	7,950.03	0.00	0.00	0.00
15,300.00	91.15	269.59	7,290.15	-636.82	-8,045.65	8,050.01	0.00	0.00	0.00
15,400.00	91.15	269.59	7,288.14	-637.53	-8,145.63	8,149.99	0.00	0.00	0.00
15,500.00	91.15	269.59	7,286.14	-638.24	-8,245.61	8,249.97	0.00	0.00	0.00
15,600.00	91.15	269.59	7,284.13	-638.95	-8,345.59	8,349.95	0.00	0.00	0.00
15,700.00	91.15	269.59	7,282.12	-639.66	-8,445.56	8,449.93	0.00	0.00	0.00
15,800.00	91.15	269.59	7,280.12	-640.36	-8,545.54	8,549.91	0.00	0.00	0.00
15,900.00	91.15	269.59	7,278.11	-641.07	-8,645.52	8,649.89	0.00	0.00	0.00
16,000.00	91.15	269.59	7,276.11	-641.78	-8,745.50	8,749.86	0.00	0.00	0.00
16,100.00	91.15	269.59	7,274.10	-642.49	-8,845.47	8,849.84	0.00	0.00	0.00
16,200.00	91.15	269.59	7,272.09	-643.20	-8,945.45	8,949.82	0.00	0.00	0.00
16,300.00	91.15	269.59	7,270.09	-643.91	-9,045.43	9,049.80	0.00	0.00	0.00



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Big Burro 27 State Com 124H
Company:	Colgate Energy	TVD Reference:	KB @ 3361.00usft (Permit)
Project:	Eddy County, NM (N83-NME)	MD Reference:	KB @ 3361.00usft (Permit)
Site:	Big Burro 27 State Com	North Reference:	Grid
Well:	Big Burro 27 State Com 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
16,400.00	91.15	269.59	7,268.08	-644.62	-9,145.41	9,149.78	0.00	0.00	0.00
16,500.00	91.15	269.59	7,266.08	-645.33	-9,245.38	9,249.76	0.00	0.00	0.00
16,600.00	91.15	269.59	7,264.07	-646.03	-9,345.36	9,349.74	0.00	0.00	0.00
16,700.00	91.15	269.59	7,262.07	-646.74	-9,445.34	9,449.72	0.00	0.00	0.00
16,800.00	91.15	269.59	7,260.06	-647.45	-9,545.32	9,549.70	0.00	0.00	0.00
16,900.00	91.15	269.59	7,258.05	-648.16	-9,645.29	9,649.68	0.00	0.00	0.00
17,000.00	91.15	269.59	7,256.05	-648.87	-9,745.27	9,749.66	0.00	0.00	0.00
17,100.00	91.15	269.59	7,254.04	-649.58	-9,845.25	9,849.64	0.00	0.00	0.00
17,200.00	91.15	269.59	7,252.04	-650.29	-9,945.22	9,949.62	0.00	0.00	0.00
17,300.00	91.15	269.59	7,250.03	-650.99	-10,045.20	10,049.60	0.00	0.00	0.00
17,400.00	91.15	269.59	7,248.02	-651.70	-10,145.18	10,149.58	0.00	0.00	0.00
17,500.00	91.15	269.59	7,246.02	-652.41	-10,245.16	10,249.56	0.00	0.00	0.00
17,574.92	91.15	269.59	7,244.52	-652.94	-10,320.06	10,324.47	0.00	0.00	0.00
02-LTP(BB27 124H)									
17,600.00	91.15	269.59	7,244.01	-653.12	-10,345.13	10,349.54	0.00	0.00	0.00
17,664.92	91.15	269.59	7,242.71	-653.58	-10,410.04	10,414.45	0.00	0.00	0.00
TD: 17664.92' MD, 10414.45 VS, 7242.71' TVD - 03-PBHL(BB27 124H)									

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
00-EON(BB27 124H) - plan hits target center - Point	0.00	0.00	6,500.00	-579.50	-29.98	591,311.17	595,933.95	32.62543922	-104.15599475
03-PBHL(BB27 124H) - plan hits target center - Point	0.00	0.00	7,242.71	-653.58	-10,410.04	591,237.09	585,553.89	32.62527868	-104.18971117
02-LTP(BB27 124H) - plan misses target center by 0.01usft at 17574.92usft MD (7244.52 TVD, -652.94 N, -10320.06 E) - Point	0.00	0.00	7,244.52	-652.94	-10,320.06	591,237.73	585,643.87	32.62528010	-104.18941890
01-FTP(BB27 124H) - plan misses target center by 215.78usft at 7444.07usft MD (7353.00 TVD, -580.91 N, -226.91 E) - Point	0.00	0.00	7,511.00	-580.43	-79.96	591,310.24	595,883.97	32.62543689	-104.15615709



Planning Report

Database:	EDM 5000.14 Single User Db	Local Co-ordinate Reference:	Well Big Burro 27 State Com 124H
Company:	Colgate Energy	TVD Reference:	KB @ 3361.00usft (Permit)
Project:	Eddy County, NM (N83-NME)	MD Reference:	KB @ 3361.00usft (Permit)
Site:	Big Burro 27 State Com	North Reference:	Grid
Well:	Big Burro 27 State Com 124H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
138.00	138.00	Rustler				
246.00	246.00	Top of Salt				
578.00	578.00	Base of Salt				
815.00	815.00	Yates				
2,085.13	2,081.00	Capitan				
2,591.72	2,584.00	DLWR Mnt. Group				
3,316.87	3,304.00	Lower Brushy Canyon				
3,928.21	3,911.00	Bone Spring Lime				
6,419.53	6,386.00	1st Bone Spring SD				
6,569.55	6,536.00	2nd Bone Spring LM				
7,383.63	7,311.00	2nd Bone Spring SD				

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
6,954.24	6,920.69	-579.50	-29.98	KOP: 6954.24' MD, 34.13 VS, 6920.69' TVD	
7,870.24	7,493.42	-583.71	-618.92	EOC: 7870.24' MD, 623.08 VS, 7493.42' TVD	
9,792.91	7,439.74	-597.47	-2,540.79	Start Drop -2.00	
12,221.60	7,381.65	-597.55	-2,552.29	Start Build 2.00	
14,717.87	7,302.03	-614.84	-4,968.73	Start DLS 2.00 TFO 179.67	
17,664.92	7,242.71	-615.01	-4,991.72	TD: 17664.92' MD, 10414.45 VS, 7242.71' TVD	