

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address Colgate Operating, LLC 300 N Marienfeld Street, Suite 1000 Midland, Tx 79701				² OGRID Number 371449			
				³ Reason for Filing Code/ Effective Date RT			
⁴ API Number 30 – 015 – 47462		⁵ Pool Name WINCHESTER; BONE SPRING, WEST				⁶ Pool Code 97569	
⁷ Property Code 329347		⁸ Property Name RINCON 22 STATE				⁹ Well Number 124H	

II. ¹⁰ Surface Location

UL or lot no. L	Section 22	Township 19S	Range 28E	Lot Idn	Feet from the 1388	North/South Line South	Feet from the 413	East/West line West	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. P	Section 22	Township 19S	Range 28E	Lot Idn	Feet from the 338	North/South line South	Feet from the 23	East/West line East	County Eddy
¹² Lse Code F	¹³ Producing Method Code P		¹⁴ Gas Connection Date 03/01/2021		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

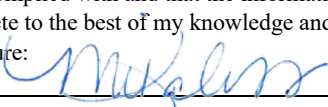
¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
329097	LM TOUCHDOWN, LLC	O
329097	LM TOUCHDOWN, LLC	G

IV. Well Completion Data

²¹ Spud Date 02/28/2022	²² Ready Date 07/01/2022	²³ TD 12,278 MD 7,473 TVD	²⁴ PBTD 12,180 MD 7,472 TVD	²⁵ Perforations 7,931 – 12,061	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	
22		13.375		222	
12.25		9.625		2,825	
7.875		5.5		12,268	

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method

⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 		OIL CONSERVATION DIVISION	
Printed name: Mikah Thomas		Approved by: John Garcia	
Title: Sr. Regulatory Analyst		Title: Petroleum Engineer	
E-mail Address: mthomas@colgateenergy.com		Approval Date: 6/22/2022	
Date: 06/15/2022	Phone: 432-695-4272	C-104RT only effective 7/1/2022 - 9/1/2022	

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 Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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 30-015-47462	2 Pool Code 97569	3 Pool Name WINCHESTER; BONE SPRING, WEST
4 Property Code 329347	5 Property Name RINCON 22 STATE	6 Well Number 124H
7 OGRID No. 371449	8 Operator Name COLGATE OPERATING, LLC	9 Elevation 3397.45'

10 Surface Location

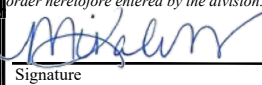
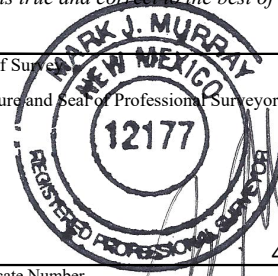
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	22	19-S	28-E		1388'	SOUTH	413'	WEST	EDDY

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
P	22	19-S	28-E		338'	SOUTH	23'	EAST	EDDY

12 Dedicated Acres 160	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.

CORNER DATA NEW MEXICO EAST - NAD 83 A - FOUND MONUMENT N:601487.49' E:590787.58' B - FOUND IRON PIPE W/ BRASS CAP N:601512.46' E:593384.47' C - CALCULATED CORNER N:601537.44' E:595981.36' D - FOUND IRON PIPE W/ BRASS CAP N:598897.79' E:595983.55' E - FOUND IRON PIPE W/ BRASS CAP N:596258.72' E:595984.31' F - FOUND IRON PIPE W/ BRASS CAP N:596236.89' E:593385.18' G - FOUND IRON PIPE W/ BRASS CAP N:596216.35' E:590789.98' H - FOUND MONUMENT N:598852.66' E:590787.16'	SURFACE HOLE LOCATION (SHL) ELEV. = 3397.45' NEW MEXICO EAST - NAD 83 X=591201.60 LAT. = 32.64276689° N Y=597607.53 LONG. = 104.17133497° W NEW MEXICO EAST - NAD 27 X=550021.75 LAT. = 32.64264995° N Y=597545.59 LONG. = -104.17082654° W 1388' FSL, 413' FWL - SECTION 22 POINT OF PENETRATION (POP) NEW MEXICO EAST - NAD 83 X=590882.61 LAT. = 32.64001856° N Y=596607.18 LONG. = 104.17237623° W NEW MEXICO EAST - NAD 27 X=549702.75 LAT. = 32.63990161° N Y=596545.27 LONG. = -104.17186784° W 390' FSL, 93' FWL - SECTION 22 MD = 6,870.00' FIRST TAKE POINT (FTP) NEW MEXICO EAST - NAD 83 X=591046.82 LAT. = 32.64004741° N Y=596617.93 LONG. = 104.17184273° W NEW MEXICO EAST - NAD 27 X=549866.95 LAT. = 32.63993045° N Y=596556.01 LONG. = -104.17133435° W 400' FSL, 257' FWL - SECTION 22 MD = 7,312.69' LAST TAKE POINT (LTP) NEW MEXICO EAST - NAD 83 X=595883.71 LAT. = 32.63995021° N Y=596590.27 LONG. = 104.15612933° W NEW MEXICO EAST - NAD 27 X=554703.84 LAT. = 32.63983309° N Y=596528.32 LONG. = -104.15562133° W 332' FSL, 101' FWL - SECTION 22 MD = 12,200.05' BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST - NAD 83 X=595961.41 LAT. = 32.63996673° N Y=596596.42 LONG. = 104.15587686° W NEW MEXICO EAST - NAD 27 X=554781.54 LAT. = 32.63984961° N Y=596534.46 LONG. = -104.15536887° W 338' FSL, 23' FWL - SECTION 22 MD = 12,278.00'	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.  04.07.2022 Signature Date Mikah Thomas Printed Name mthomas@colgateenergy.com E-mail Address 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 Signature and Seal of Professional Surveyor 4/6/2022 Certificate Number
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Colgate Energy

Eddy County, NM (N83-NME)

Rincon 22 State

(04) Rincon 22 State 124H - Slot 04-R-124H

30-015-47462

124H

Design: 124H

Standard Survey Report

29 March, 2022



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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	Rincon 22 State		
Site Position:		Northing:	597,607.00 usft
From:	Map	Easting:	591,172.00 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32.64276556
		Longitude:	-104.17143115

Well	(04) Rincon 22 State 124H - Slot 04-R-124H		
Well Position	+N/-S	0.00 usft	Northing: 597,607.53 usft
	+E/-W	0.00 usft	Easting: 591,201.60 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	0.09 °	Ground Level:	3,397.00 usft

Wellbore	124H		
Magnetics	Model Name	Sample Date	Declination (°)
	IFR	3/19/2022	7.10
			Dip Angle (°)
			60.36
			Field Strength (nT)
			47,661.10000000

Design	124H		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°)
			89.53

Survey Program	Date	3/29/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
14.63	12,220.00	Survey #1_Gordon MWD (124H)	MWD+IFR1+SAG+FDIR (SQ OWSG MWD + IFR1 + Sag + FDIR Correction	
12,278.00	12,278.00	Survey #2_PTB (124H)	BLIND	BLIND

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	
14.63	0.08	294.01	14.63	0.00	-0.01	-0.01	0.55	0.55	0.00	
29.25	0.16	294.07	29.25	0.02	-0.04	-0.04	0.55	0.55	0.41	
43.88	0.24	294.14	43.88	0.04	-0.08	-0.08	0.55	0.55	0.48	
58.50	0.31	294.20	58.50	0.07	-0.15	-0.15	0.48	0.48	0.41	
73.13	0.39	294.27	73.13	0.10	-0.23	-0.23	0.55	0.55	0.48	
87.75	0.47	294.34	87.75	0.15	-0.33	-0.33	0.55	0.55	0.48	
102.38	0.54	294.40	102.38	0.20	-0.45	-0.45	0.48	0.48	0.41	
117.00	0.62	294.47	117.00	0.26	-0.58	-0.58	0.55	0.55	0.48	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)
131.63	0.70	294.54	131.63	0.33	-0.73	-0.73	0.55	0.55	0.48
146.25	0.77	294.61	146.25	0.41	-0.91	-0.90	0.48	0.48	0.48
160.88	0.85	294.68	160.87	0.50	-1.09	-1.09	0.55	0.55	0.48
169.01	0.89	294.71	169.00	0.55	-1.21	-1.20	0.48	0.48	0.42
Rustler									
175.50	0.92	294.74	175.49	0.59	-1.30	-1.29	0.48	0.48	0.39
190.13	0.99	294.81	190.12	0.69	-1.52	-1.51	0.48	0.48	0.48
204.75	1.07	294.88	204.74	0.80	-1.76	-1.75	0.55	0.55	0.48
219.38	1.14	294.95	219.37	0.92	-2.01	-2.01	0.48	0.48	0.48
234.00	1.22	295.02	233.98	1.05	-2.29	-2.28	0.55	0.55	0.48
239.02	1.23	294.94	239.00	1.10	-2.38	-2.38	0.21	0.21	-1.53
Top of Salt									
248.57	1.25	294.80	248.55	1.18	-2.57	-2.56	0.21	0.21	-1.50
263.14	1.29	294.56	263.12	1.32	-2.87	-2.85	0.28	0.27	-1.65
277.71	1.33	294.31	277.68	1.45	-3.17	-3.16	0.28	0.27	-1.72
292.29	1.37	294.08	292.26	1.60	-3.48	-3.47	0.28	0.27	-1.58
306.86	1.40	293.87	306.82	1.74	-3.80	-3.79	0.21	0.21	-1.44
321.43	1.42	293.69	321.39	1.88	-4.13	-4.12	0.14	0.14	-1.24
336.00	1.44	293.54	335.95	2.03	-4.47	-4.45	0.14	0.14	-1.03
349.29	1.42	293.45	349.24	2.16	-4.77	-4.75	0.15	-0.15	-0.68
362.57	1.40	293.42	362.52	2.29	-5.07	-5.05	0.15	-0.15	-0.23
375.86	1.37	293.43	375.80	2.42	-5.36	-5.34	0.23	-0.23	0.08
389.14	1.33	293.51	389.08	2.54	-5.65	-5.63	0.30	-0.30	0.60
402.43	1.29	293.67	402.36	2.66	-5.93	-5.91	0.30	-0.30	1.20
415.71	1.25	293.94	415.64	2.78	-6.20	-6.18	0.30	-0.30	2.03
429.00	1.22	294.38	428.93	2.90	-6.46	-6.44	0.24	-0.23	3.31
442.43	1.19	295.07	442.36	3.02	-6.72	-6.69	0.25	-0.22	5.14
455.86	1.17	295.92	455.78	3.14	-6.97	-6.94	0.20	-0.15	6.33
469.29	1.16	296.88	469.21	3.26	-7.21	-7.18	0.16	-0.07	7.15
482.71	1.14	297.91	482.63	3.38	-7.45	-7.42	0.21	-0.15	7.68
496.14	1.13	298.98	496.05	3.51	-7.68	-7.65	0.17	-0.07	7.97
509.57	1.13	300.05	509.48	3.64	-7.91	-7.88	0.16	0.00	7.97
523.00	1.13	301.10	522.91	3.78	-8.14	-8.11	0.15	0.00	7.82
536.43	1.13	302.09	536.34	3.91	-8.37	-8.34	0.15	0.00	7.37
549.86	1.13	303.04	549.76	4.06	-8.59	-8.56	0.14	0.00	7.07
563.29	1.14	303.93	563.19	4.20	-8.81	-8.78	0.15	0.07	6.63
569.10	1.14	304.31	569.00	4.27	-8.91	-8.87	0.15	0.08	6.55
Base of Salt									
576.71	1.15	304.76	576.61	4.35	-9.03	-9.00	0.14	0.07	5.91
590.14	1.16	305.51	590.04	4.51	-9.26	-9.22	0.13	0.07	5.58
603.57	1.17	306.17	603.46	4.67	-9.48	-9.44	0.12	0.07	4.91
617.00	1.18	306.70	616.89	4.83	-9.70	-9.66	0.11	0.07	3.95
630.57	1.19	307.08	630.46	5.00	-9.92	-9.88	0.09	0.07	2.80
644.14	1.19	307.35	644.02	5.17	-10.15	-10.10	0.04	0.00	1.99



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)
657.71	1.20	307.53	657.59	5.34	-10.37	-10.33	0.08	0.07	1.33
671.29	1.20	307.65	671.17	5.52	-10.60	-10.55	0.02	0.00	0.88
684.86	1.21	307.73	684.74	5.69	-10.82	-10.78	0.07	0.07	0.59
698.43	1.21	307.78	698.30	5.87	-11.05	-11.00	0.01	0.00	0.37
712.00	1.22	307.82	711.87	6.04	-11.28	-11.23	0.07	0.07	0.29
725.20	1.22	307.88	725.07	6.22	-11.50	-11.45	0.01	0.00	0.45
738.40	1.23	307.99	738.26	6.39	-11.72	-11.67	0.08	0.08	0.83
751.60	1.25	308.22	751.46	6.57	-11.95	-11.89	0.16	0.15	1.74
764.80	1.28	308.63	764.66	6.75	-12.17	-12.12	0.24	0.23	3.11
769.14	1.30	308.86	769.00	6.81	-12.25	-12.19	0.54	0.53	5.26
Yates									
778.00	1.35	309.30	777.85	6.94	-12.41	-12.35	0.54	0.53	4.99
791.29	1.46	310.32	791.14	7.15	-12.66	-12.60	0.85	0.83	7.67
804.57	1.60	311.36	804.42	7.38	-12.93	-12.87	1.07	1.05	7.83
817.86	1.75	312.25	817.70	7.64	-13.22	-13.16	1.15	1.13	6.70
831.14	1.91	312.92	830.97	7.93	-13.53	-13.46	1.22	1.20	5.05
844.43	2.07	313.35	844.25	8.24	-13.87	-13.80	1.21	1.20	3.24
857.71	2.21	313.48	857.53	8.58	-14.23	-14.16	1.05	1.05	0.98
871.00	2.33	313.28	870.80	8.94	-14.61	-14.54	0.90	0.90	-1.50
884.43	3.03	318.63	884.22	9.40	-15.04	-14.97	5.53	5.21	39.84
897.86	3.72	323.69	897.63	10.01	-15.54	-15.45	5.59	5.14	37.68
911.29	4.19	325.96	911.02	10.77	-16.07	-15.98	3.69	3.50	16.90
924.71	4.16	324.62	924.41	11.57	-16.62	-16.53	0.76	-0.22	-9.99
938.14	4.11	323.02	937.80	12.36	-17.20	-17.09	0.94	-0.37	-11.91
951.57	4.07	321.23	951.20	13.11	-17.78	-17.68	1.00	-0.30	-13.33
965.00	4.03	319.34	964.60	13.84	-18.39	-18.28	1.04	-0.30	-14.07
978.29	3.99	317.52	977.85	14.54	-19.01	-18.89	1.00	-0.30	-13.69
991.57	3.96	315.66	991.10	15.21	-19.64	-19.51	1.00	-0.23	-14.01
1,004.86	3.95	313.77	1,004.36	15.85	-20.29	-20.16	0.98	-0.08	-14.22
1,018.14	3.94	311.87	1,017.61	16.47	-20.96	-20.82	0.99	-0.08	-14.31
1,031.43	3.95	309.99	1,030.87	17.07	-21.65	-21.51	0.98	0.08	-14.15
1,044.71	3.96	308.15	1,044.12	17.65	-22.36	-22.22	0.96	0.08	-13.86
1,058.00	3.99	306.40	1,057.37	18.21	-23.10	-22.95	0.94	0.23	-13.17
1,071.43	4.02	304.68	1,070.77	18.75	-23.86	-23.70	0.92	0.22	-12.81
1,084.86	4.06	303.03	1,084.17	19.28	-24.64	-24.49	0.92	0.30	-12.29
1,098.29	4.11	301.45	1,097.56	19.79	-25.45	-25.29	0.92	0.37	-11.76
1,111.71	4.18	299.94	1,110.95	20.28	-26.29	-26.12	0.97	0.52	-11.25
1,125.14	4.25	298.50	1,124.34	20.76	-27.15	-26.98	0.94	0.52	-10.72
1,138.57	4.35	297.16	1,137.73	21.23	-28.04	-27.86	1.06	0.74	-9.98
1,152.00	4.46	295.92	1,151.12	21.70	-28.96	-28.78	1.08	0.82	-9.23
1,165.43	4.60	294.65	1,164.51	22.15	-29.92	-29.74	1.28	1.04	-9.46
1,178.86	4.80	292.68	1,177.90	22.59	-30.93	-30.74	1.91	1.49	-14.67
1,192.29	5.31	285.91	1,191.28	22.98	-32.05	-31.86	5.84	3.80	-50.41



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)
1,205.71	5.78	278.57	1,204.63	23.25	-33.31	-33.12	6.33	3.50	-54.69
1,219.14	6.26	272.55	1,217.99	23.38	-34.71	-34.52	5.90	3.57	-44.83
1,232.57	6.44	271.77	1,231.34	23.44	-36.20	-36.00	1.49	1.34	-5.81
1,246.00	6.57	271.31	1,244.68	23.48	-37.72	-37.52	1.04	0.97	-3.43
1,259.43	6.67	270.81	1,258.02	23.51	-39.26	-39.07	0.86	0.74	-3.72
1,272.86	6.74	270.28	1,271.36	23.52	-40.83	-40.64	0.70	0.52	-3.95
1,286.29	6.79	269.74	1,284.70	23.52	-42.41	-42.22	0.60	0.37	-4.02
1,299.71	6.84	269.21	1,298.02	23.51	-44.01	-43.81	0.60	0.37	-3.95
1,313.14	6.88	268.70	1,311.35	23.48	-45.61	-45.42	0.54	0.30	-3.80
1,326.57	6.92	268.23	1,324.69	23.43	-47.22	-47.03	0.52	0.30	-3.50
1,340.00	7.11	265.21	1,338.02	23.34	-48.86	-48.67	3.09	1.41	-22.49
1,353.57	7.49	260.30	1,351.48	23.12	-50.57	-50.38	5.38	2.80	-36.18
1,367.14	7.92	256.17	1,364.92	22.75	-52.35	-52.16	5.16	3.17	-30.43
1,380.71	8.38	251.86	1,378.36	22.22	-54.20	-54.01	5.63	3.39	-31.76
1,394.29	8.65	249.71	1,391.79	21.55	-56.09	-55.92	3.07	1.99	-15.83
1,407.86	8.72	249.78	1,405.20	20.85	-58.02	-57.84	0.52	0.52	0.52
1,421.43	8.80	249.84	1,418.61	20.13	-59.96	-59.79	0.59	0.59	0.44
1,435.00	8.88	249.78	1,432.02	19.41	-61.91	-61.75	0.59	0.59	-0.44
1,448.43	8.94	249.50	1,445.29	18.69	-63.86	-63.71	0.55	0.45	-2.08
1,461.86	9.00	249.06	1,458.56	17.95	-65.82	-65.67	0.68	0.45	-3.28
1,475.29	9.06	248.54	1,471.82	17.19	-67.79	-67.64	0.75	0.45	-3.87
1,488.71	9.12	247.97	1,485.07	16.40	-69.76	-69.62	0.81	0.45	-4.25
1,502.14	9.18	247.39	1,498.33	15.59	-71.73	-71.60	0.82	0.45	-4.32
1,515.57	9.24	246.83	1,511.59	14.75	-73.71	-73.59	0.80	0.45	-4.17
1,529.00	9.39	244.71	1,524.84	13.86	-75.69	-75.58	2.79	1.12	-15.79
1,542.29	9.77	240.92	1,537.94	12.85	-77.66	-77.55	5.54	2.86	-28.52
1,555.57	10.26	237.68	1,551.02	11.67	-79.64	-79.55	5.62	3.69	-24.40
1,568.86	10.56	234.00	1,564.09	10.32	-81.63	-81.54	5.49	2.26	-27.69
1,582.14	11.06	230.97	1,577.14	8.80	-83.60	-83.53	5.70	3.77	-22.82
1,595.43	11.54	227.89	1,590.17	7.11	-85.58	-85.52	5.80	3.61	-23.18
1,608.71	11.95	224.67	1,603.17	5.24	-87.53	-87.49	5.82	3.09	-24.25
1,622.00	12.19	222.85	1,616.17	3.23	-89.45	-89.42	3.39	1.81	-13.69
1,635.29	12.31	222.28	1,629.16	1.16	-91.36	-91.35	1.28	0.90	-4.29
1,648.57	12.43	221.63	1,642.13	-0.96	-93.26	-93.27	1.38	0.90	-4.89
1,661.86	12.54	220.95	1,655.10	-3.12	-95.16	-95.18	1.38	0.83	-5.12
1,675.14	12.48	218.32	1,668.07	-5.33	-96.99	-97.03	4.31	-0.45	-19.80
1,688.43	12.37	214.41	1,681.05	-7.63	-98.69	-98.75	6.38	-0.83	-29.42
1,701.71	12.28	210.37	1,694.02	-10.03	-100.21	-100.28	6.53	-0.68	-30.42
1,715.00	12.27	207.53	1,707.01	-12.50	-101.57	-101.67	4.54	-0.08	-21.37
1,728.57	12.36	206.67	1,720.27	-15.07	-102.89	-103.01	1.51	0.66	-6.34
1,742.14	12.44	205.79	1,733.52	-17.69	-104.18	-104.32	1.51	0.59	-6.48
1,755.71	12.52	204.97	1,746.77	-20.34	-105.44	-105.60	1.43	0.59	-6.04
1,769.29	12.22	202.65	1,760.03	-23.00	-106.61	-106.80	4.27	-2.21	-17.08



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)
1,782.86	11.93	198.77	1,773.30	-25.65	-107.62	-107.82	6.35	-2.14	-28.59
1,796.43	11.86	194.51	1,786.58	-28.33	-108.42	-108.64	6.49	-0.52	-31.39
1,810.00	11.92	193.59	1,799.86	-31.04	-109.09	-109.35	1.47	0.44	-6.78
1,823.43	11.96	193.37	1,813.00	-33.74	-109.74	-110.02	0.45	0.30	-1.64
1,836.86	12.00	193.26	1,826.14	-36.46	-110.38	-110.68	0.34	0.30	-0.82
1,850.29	12.03	193.24	1,839.27	-39.18	-111.03	-111.34	0.23	0.22	-0.15
1,863.71	12.06	193.27	1,852.40	-41.90	-111.67	-112.01	0.23	0.22	0.22
1,877.14	12.07	193.33	1,865.53	-44.64	-112.31	-112.68	0.12	0.07	0.45
1,890.57	12.09	193.40	1,878.66	-47.37	-112.96	-113.35	0.18	0.15	0.52
1,904.00	12.09	193.48	1,891.80	-50.11	-113.62	-114.02	0.12	0.00	0.60
1,917.29	12.08	193.53	1,904.79	-52.81	-114.27	-114.70	0.11	-0.08	0.38
1,930.57	12.05	193.56	1,917.78	-55.51	-114.92	-115.37	0.23	-0.23	0.23
1,943.86	12.03	193.60	1,930.78	-58.20	-115.57	-116.04	0.16	-0.15	0.30
1,957.14	12.00	193.63	1,943.77	-60.89	-116.22	-116.71	0.23	-0.23	0.23
1,970.43	11.97	193.66	1,956.77	-63.57	-116.87	-117.39	0.23	-0.23	0.23
1,983.71	11.95	193.69	1,969.76	-66.25	-117.52	-118.06	0.16	-0.15	0.23
1,997.00	11.93	193.73	1,982.76	-68.92	-118.17	-118.73	0.16	-0.15	0.30
2,010.29	11.92	193.76	1,995.76	-71.59	-118.82	-119.41	0.09	-0.08	0.23
2,023.57	11.92	193.79	2,008.76	-74.25	-119.48	-120.08	0.05	0.00	0.23
2,036.86	11.92	193.83	2,021.76	-76.92	-120.13	-120.76	0.06	0.00	0.30
2,050.14	11.92	193.88	2,034.75	-79.58	-120.79	-121.44	0.08	0.00	0.38
2,063.43	11.93	193.95	2,047.76	-82.24	-121.45	-122.12	0.13	0.08	0.53
2,076.71	11.94	194.03	2,060.75	-84.91	-122.11	-122.81	0.15	0.08	0.60
2,090.00	11.95	194.15	2,073.75	-87.58	-122.78	-123.50	0.20	0.08	0.90
2,103.43	11.97	194.31	2,086.89	-90.27	-123.47	-124.20	0.29	0.15	1.19
2,116.86	11.99	194.51	2,100.03	-92.97	-124.16	-124.92	0.34	0.15	1.49
2,126.03	12.01	194.65	2,109.00	-94.82	-124.64	-125.41	0.38	0.22	1.49
Capitan									
2,130.29	12.02	194.71	2,113.16	-95.68	-124.87	-125.65	0.38	0.22	1.49
2,143.71	12.05	194.92	2,126.29	-98.38	-125.58	-126.38	0.40	0.22	1.56
2,157.14	12.10	195.13	2,139.42	-101.10	-126.31	-127.13	0.50	0.37	1.56
2,170.57	12.17	195.31	2,152.55	-103.82	-127.05	-127.90	0.59	0.52	1.34
2,184.00	12.26	195.47	2,165.68	-106.56	-127.80	-128.67	0.72	0.67	1.19
2,197.43	12.40	195.59	2,178.80	-109.32	-128.57	-129.47	1.06	1.04	0.89
2,210.86	12.55	195.68	2,191.91	-112.12	-129.35	-130.27	1.13	1.12	0.67
2,224.29	12.59	193.84	2,205.02	-114.94	-130.10	-131.04	3.00	0.30	-13.70
2,237.71	12.68	190.00	2,218.11	-117.81	-130.70	-131.67	6.29	0.67	-28.61
2,251.14	13.11	186.54	2,231.21	-120.78	-131.13	-132.12	6.58	3.20	-25.76
2,264.57	13.25	186.64	2,244.28	-123.82	-131.49	-132.50	1.06	1.04	0.74
2,278.00	13.37	186.74	2,257.35	-126.89	-131.85	-132.88	0.91	0.89	0.74
2,291.43	13.44	186.81	2,270.42	-129.98	-132.21	-133.27	0.54	0.52	0.52
2,304.86	13.48	186.87	2,283.48	-133.09	-132.59	-133.67	0.32	0.30	0.45
2,318.29	13.51	186.92	2,296.54	-136.20	-132.96	-134.07	0.24	0.22	0.37
2,331.71	13.52	186.96	2,309.58	-139.31	-133.34	-134.48	0.10	0.07	0.30



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)	
2,345.14	13.52	187.01	2,322.64	-142.43	-133.72	-134.89	0.09	0.00	0.37	
2,358.57	13.53	187.05	2,335.70	-145.54	-134.11	-135.30	0.10	0.07	0.30	
2,372.00	13.55	187.09	2,348.76	-148.67	-134.49	-135.71	0.16	0.15	0.30	
2,385.29	13.58	187.13	2,361.68	-151.76	-134.88	-136.12	0.24	0.23	0.30	
2,398.57	13.62	187.17	2,374.58	-154.86	-135.27	-136.53	0.31	0.30	0.30	
2,411.86	13.67	187.21	2,387.50	-157.97	-135.66	-136.95	0.38	0.38	0.30	
2,425.14	13.72	187.25	2,400.40	-161.09	-136.06	-137.37	0.38	0.38	0.30	
2,438.43	13.77	187.28	2,413.31	-164.22	-136.46	-137.80	0.38	0.38	0.23	
2,451.71	13.82	187.31	2,426.21	-167.36	-136.86	-138.23	0.38	0.38	0.23	
2,465.00	13.88	187.34	2,439.11	-170.52	-137.26	-138.66	0.45	0.45	0.23	
2,478.43	13.94	187.35	2,452.15	-173.72	-137.68	-139.10	0.45	0.45	0.07	
2,491.86	13.99	187.36	2,465.18	-176.93	-138.09	-139.54	0.37	0.37	0.07	
2,505.29	14.05	187.37	2,478.21	-180.16	-138.51	-139.98	0.45	0.45	0.07	
2,518.71	14.10	187.38	2,491.23	-183.40	-138.93	-140.43	0.37	0.37	0.07	
2,532.14	14.15	187.39	2,504.25	-186.65	-139.35	-140.87	0.37	0.37	0.07	
2,545.57	14.20	187.41	2,517.27	-189.91	-139.77	-141.33	0.37	0.37	0.15	
2,559.00	14.24	187.44	2,530.29	-193.18	-140.20	-141.78	0.30	0.30	0.22	
2,572.43	14.28	187.48	2,543.31	-196.46	-140.63	-142.23	0.31	0.30	0.30	
2,585.86	14.32	187.54	2,556.32	-199.75	-141.06	-142.70	0.32	0.30	0.45	
2,599.29	14.35	187.60	2,569.33	-203.04	-141.50	-143.16	0.25	0.22	0.45	
2,612.71	14.38	187.67	2,582.33	-206.34	-141.94	-143.63	0.26	0.22	0.52	
2,626.14	14.41	187.74	2,595.34	-209.65	-142.39	-144.10	0.26	0.22	0.52	
2,639.57	14.44	187.82	2,608.35	-212.97	-142.84	-144.58	0.27	0.22	0.60	
2,653.00	14.47	187.90	2,621.35	-216.29	-143.30	-145.07	0.27	0.22	0.60	
2,666.43	14.50	187.98	2,634.36	-219.61	-143.76	-145.56	0.27	0.22	0.60	
2,679.86	14.54	188.06	2,647.36	-222.95	-144.23	-146.06	0.33	0.30	0.60	
2,693.29	14.57	188.15	2,660.36	-226.29	-144.71	-146.56	0.28	0.22	0.67	
2,706.71	14.61	188.24	2,673.34	-229.64	-145.19	-147.07	0.34	0.30	0.67	
2,720.14	14.63	188.33	2,686.34	-232.99	-145.68	-147.59	0.23	0.15	0.67	
2,733.57	14.65	188.42	2,699.33	-236.35	-146.18	-148.11	0.23	0.15	0.67	
2,747.00	14.67	188.51	2,712.32	-239.71	-146.68	-148.64	0.23	0.15	0.67	
2,761.00	14.66	188.61	2,725.87	-243.22	-147.20	-149.19	0.19	-0.07	0.71	
2,775.00	14.65	188.71	2,739.41	-246.72	-147.74	-149.76	0.19	-0.07	0.71	
2,789.00	14.62	188.81	2,752.96	-250.21	-148.28	-150.32	0.28	-0.21	0.71	
2,803.00	14.60	188.91	2,766.51	-253.70	-148.82	-150.90	0.23	-0.14	0.71	
2,817.00	14.56	189.02	2,780.06	-257.18	-149.37	-151.47	0.35	-0.29	0.79	
2,831.00	14.53	189.13	2,793.61	-260.66	-149.92	-152.06	0.29	-0.21	0.79	
2,845.00	14.49	189.25	2,807.16	-264.12	-150.48	-152.64	0.36	-0.29	0.86	
2,859.00	14.45	189.37	2,820.72	-267.57	-151.05	-153.24	0.36	-0.29	0.86	
2,873.00	14.42	189.51	2,834.27	-271.01	-151.62	-153.84	0.33	-0.21	1.00	
2,887.46	14.38	189.67	2,848.28	-274.56	-152.22	-154.47	0.39	-0.28	1.11	
2,901.92	14.35	189.84	2,862.29	-278.09	-152.83	-155.10	0.36	-0.21	1.18	
2,908.85	14.33	189.92	2,869.00	-279.78	-153.12	-155.41	0.40	-0.28	1.17	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)
DLWR Mnt. Group									
2,916.38	14.31	190.01	2,876.30	-281.62	-153.45	-155.75	0.40	-0.28	1.18
2,930.85	14.28	190.19	2,890.32	-285.14	-154.07	-156.41	0.37	-0.21	1.24
2,945.31	14.24	190.37	2,904.33	-288.64	-154.71	-157.07	0.41	-0.28	1.24
2,959.77	14.20	190.55	2,918.35	-292.13	-155.35	-157.74	0.41	-0.28	1.24
2,974.23	14.15	190.73	2,932.37	-295.61	-156.01	-158.43	0.46	-0.35	1.24
2,988.69	14.10	190.91	2,946.39	-299.08	-156.67	-159.12	0.46	-0.35	1.24
3,003.15	14.05	191.08	2,960.42	-302.53	-157.34	-159.82	0.45	-0.35	1.18
3,017.62	13.99	191.25	2,974.46	-305.97	-158.02	-160.52	0.50	-0.41	1.17
3,032.08	13.92	191.41	2,988.49	-309.39	-158.70	-161.24	0.55	-0.48	1.11
3,046.54	13.84	191.56	3,002.53	-312.79	-159.39	-161.95	0.61	-0.55	1.04
3,061.00	13.74	191.70	3,016.57	-316.17	-160.09	-162.68	0.73	-0.69	0.97
3,075.46	13.62	191.82	3,030.62	-319.51	-160.79	-163.40	0.85	-0.83	0.83
3,089.92	13.48	191.91	3,044.68	-322.83	-161.48	-164.12	0.98	-0.97	0.62
3,104.38	13.32	192.00	3,058.75	-326.11	-162.18	-164.85	1.12	-1.11	0.62
3,118.85	13.16	192.07	3,072.83	-329.35	-162.87	-165.56	1.11	-1.11	0.48
3,133.31	12.99	192.14	3,086.92	-332.55	-163.55	-166.28	1.18	-1.18	0.48
3,147.77	12.82	192.20	3,101.01	-335.70	-164.23	-166.98	1.18	-1.18	0.41
3,162.23	12.65	192.25	3,115.12	-338.82	-164.91	-167.68	1.18	-1.18	0.35
3,176.69	12.49	192.29	3,129.23	-341.90	-165.58	-168.38	1.11	-1.11	0.28
3,191.15	12.32	192.33	3,143.35	-344.93	-166.24	-169.06	1.18	-1.18	0.28
3,205.62	12.16	192.35	3,157.49	-347.93	-166.90	-169.74	1.11	-1.11	0.14
3,220.08	12.01	192.36	3,171.63	-350.88	-167.54	-170.42	1.04	-1.04	0.07
3,234.54	11.87	192.36	3,185.78	-353.81	-168.18	-171.08	0.97	-0.97	0.00
3,249.00	11.76	192.34	3,199.93	-356.70	-168.82	-171.74	0.76	-0.76	-0.14
3,263.54	11.69	192.30	3,214.17	-359.59	-169.45	-172.39	0.48	-0.48	-0.28
3,278.08	11.64	192.24	3,228.41	-362.46	-170.07	-173.04	0.35	-0.34	-0.41
3,278.68	11.64	192.24	3,229.00	-362.58	-170.10	-173.07	0.00	0.00	0.00
Lower Brushy Canyon									
3,292.62	11.60	192.16	3,242.65	-365.32	-170.69	-173.68	0.31	-0.29	-0.57
3,307.15	11.58	192.07	3,256.89	-368.17	-171.30	-174.32	0.19	-0.14	-0.62
3,321.69	11.56	191.97	3,271.13	-371.03	-171.91	-174.95	0.19	-0.14	-0.69
3,336.23	11.54	191.86	3,285.38	-373.88	-172.51	-175.57	0.20	-0.14	-0.76
3,350.77	11.53	191.74	3,299.62	-376.72	-173.11	-176.19	0.18	-0.07	-0.83
3,365.31	11.52	191.61	3,313.87	-379.57	-173.69	-176.80	0.19	-0.07	-0.89
3,379.85	11.51	191.48	3,328.12	-382.41	-174.28	-177.41	0.19	-0.07	-0.89
3,394.38	11.50	191.35	3,342.35	-385.25	-174.85	-178.00	0.19	-0.07	-0.89
3,408.92	11.48	191.22	3,356.60	-388.09	-175.42	-178.59	0.23	-0.14	-0.89
3,423.46	11.46	191.10	3,370.85	-390.93	-175.98	-179.18	0.21	-0.14	-0.83
3,438.00	11.43	191.00	3,385.10	-393.76	-176.53	-179.75	0.25	-0.21	-0.69
3,452.46	11.39	190.94	3,399.28	-396.57	-177.07	-180.32	0.29	-0.28	-0.41
3,466.92	11.33	190.90	3,413.45	-399.36	-177.61	-180.88	0.42	-0.41	-0.28
3,481.38	11.28	190.88	3,427.63	-402.15	-178.15	-181.44	0.35	-0.35	-0.14
3,482.77	11.27	190.88	3,429.00	-402.42	-178.20	-181.49	0.48	-0.48	-0.21



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)
Bone Spring Lime									
3,495.85	11.21	190.85	3,441.83	-404.92	-178.68	-182.00	0.49	-0.48	-0.21
3,510.31	11.15	190.83	3,456.01	-407.67	-179.21	-182.54	0.42	-0.41	-0.14
3,524.77	11.08	190.80	3,470.20	-410.41	-179.73	-183.09	0.49	-0.48	-0.21
3,539.23	11.00	190.76	3,484.39	-413.13	-180.25	-183.63	0.56	-0.55	-0.28
3,553.69	10.93	190.72	3,498.59	-415.83	-180.76	-184.17	0.49	-0.48	-0.28
3,568.15	10.85	190.65	3,512.79	-418.52	-181.27	-184.69	0.56	-0.55	-0.48
3,582.62	10.76	190.56	3,527.00	-421.18	-181.77	-185.21	0.63	-0.62	-0.62
3,597.08	10.67	190.44	3,541.21	-423.83	-182.26	-185.73	0.64	-0.62	-0.83
3,611.54	10.56	190.27	3,555.42	-426.45	-182.73	-186.23	0.79	-0.76	-1.18
3,626.00	10.45	190.03	3,569.64	-429.04	-183.20	-186.71	0.82	-0.76	-1.66
3,640.38	10.31	189.69	3,583.78	-431.60	-183.64	-187.18	1.06	-0.97	-2.36
3,654.77	10.16	189.27	3,597.95	-434.12	-184.06	-187.62	1.16	-1.04	-2.92
3,669.15	10.00	188.80	3,612.10	-436.60	-184.46	-188.03	1.25	-1.11	-3.27
3,683.54	9.85	188.30	3,626.28	-439.06	-184.83	-188.42	1.20	-1.04	-3.47
3,697.92	9.69	187.79	3,640.45	-441.47	-185.17	-188.79	1.26	-1.11	-3.55
3,712.31	9.53	187.28	3,654.64	-443.85	-185.49	-189.12	1.26	-1.11	-3.54
3,726.69	10.12	188.06	3,668.81	-446.29	-185.81	-189.47	4.21	4.10	5.42
3,741.08	11.22	189.38	3,682.95	-448.92	-186.22	-189.89	7.83	7.64	9.17
3,755.46	11.58	189.63	3,697.04	-451.72	-186.69	-190.39	2.53	2.50	1.74
3,769.85	11.42	189.28	3,711.15	-454.55	-187.16	-190.88	1.21	-1.11	-2.43
3,784.23	11.26	188.93	3,725.24	-457.34	-187.61	-191.35	1.21	-1.11	-2.43
3,798.62	11.09	188.60	3,739.36	-460.10	-188.03	-191.80	1.26	-1.18	-2.29
3,813.00	10.93	188.32	3,753.48	-462.82	-188.44	-192.23	1.17	-1.11	-1.95
3,827.38	10.78	188.19	3,767.60	-465.50	-188.82	-192.64	1.06	-1.04	-0.90
3,841.77	10.63	188.11	3,781.74	-468.14	-189.20	-193.04	1.05	-1.04	-0.56
3,856.15	10.48	188.08	3,795.88	-470.75	-189.57	-193.43	1.04	-1.04	-0.21
3,870.54	10.34	188.07	3,810.03	-473.32	-189.94	-193.82	0.97	-0.97	-0.07
3,884.92	10.21	188.07	3,824.18	-475.86	-190.30	-194.20	0.90	-0.90	0.00
3,899.31	10.08	188.08	3,838.34	-478.37	-190.66	-194.57	0.90	-0.90	0.07
3,913.69	10.85	189.82	3,852.48	-480.95	-191.06	-195.00	5.79	5.35	12.10
3,928.08	11.95	191.55	3,866.59	-483.75	-191.59	-195.55	8.00	7.64	12.02
3,942.46	12.78	192.63	3,880.64	-486.76	-192.24	-196.23	5.99	5.77	7.51
3,956.85	12.66	192.69	3,894.67	-489.85	-192.93	-196.95	0.84	-0.83	0.42
3,971.23	12.55	192.77	3,908.71	-492.91	-193.62	-197.66	0.77	-0.76	0.56
3,985.62	12.45	192.85	3,922.76	-495.95	-194.32	-198.38	0.71	-0.69	0.56
4,000.00	12.36	192.91	3,936.80	-498.96	-195.00	-199.09	0.63	-0.63	0.42
4,014.54	12.29	192.91	3,951.00	-501.98	-195.70	-199.81	0.48	-0.48	0.00
4,029.08	12.24	192.89	3,965.21	-504.99	-196.39	-200.52	0.35	-0.34	-0.14
4,043.62	12.19	192.85	3,979.42	-507.99	-197.07	-201.23	0.35	-0.34	-0.28
4,058.15	12.15	192.80	3,993.63	-510.98	-197.75	-201.94	0.28	-0.28	-0.34
4,072.69	12.11	192.74	4,007.84	-513.96	-198.43	-202.64	0.29	-0.28	-0.41
4,087.23	12.07	192.68	4,022.06	-516.93	-199.10	-203.33	0.29	-0.28	-0.41



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)	
4,101.77	13.03	193.41	4,036.25	-520.01	-199.81	-204.07	6.69	6.60	5.02	
4,116.31	14.09	195.34	4,050.39	-523.31	-200.66	-204.95	7.93	7.29	13.27	
4,130.85	14.04	195.30	4,064.49	-526.72	-201.59	-205.91	0.35	-0.34	-0.28	
4,145.38	14.00	195.27	4,078.59	-530.11	-202.52	-206.86	0.28	-0.28	-0.21	
4,159.92	13.95	195.22	4,092.70	-533.50	-203.44	-207.81	0.35	-0.34	-0.34	
4,174.46	13.89	195.18	4,106.81	-536.88	-204.36	-208.76	0.42	-0.41	-0.28	
4,189.00	13.82	195.13	4,120.93	-540.24	-205.27	-209.70	0.49	-0.48	-0.34	
4,203.46	13.72	195.07	4,134.97	-543.56	-206.17	-210.62	0.70	-0.69	-0.41	
4,217.92	13.60	195.00	4,149.02	-546.86	-207.05	-211.53	0.84	-0.83	-0.48	
4,232.38	13.48	194.93	4,163.08	-550.13	-207.93	-212.43	0.84	-0.83	-0.48	
4,246.85	13.35	194.85	4,177.16	-553.37	-208.79	-213.32	0.91	-0.90	-0.55	
4,261.31	13.22	194.76	4,191.23	-556.59	-209.64	-214.20	0.91	-0.90	-0.62	
4,275.77	13.08	194.67	4,205.31	-559.77	-210.48	-215.06	0.98	-0.97	-0.62	
4,290.23	12.95	194.58	4,219.40	-562.92	-211.30	-215.91	0.91	-0.90	-0.62	
4,304.69	12.82	194.48	4,233.49	-566.04	-212.11	-216.74	0.91	-0.90	-0.69	
4,319.15	12.70	194.37	4,247.60	-569.13	-212.90	-217.56	0.85	-0.83	-0.76	
4,333.62	12.58	194.27	4,261.72	-572.20	-213.69	-218.37	0.84	-0.83	-0.69	
4,348.08	12.48	194.15	4,275.83	-575.24	-214.46	-219.17	0.71	-0.69	-0.83	
4,362.54	12.40	194.04	4,289.95	-578.26	-215.21	-219.95	0.58	-0.55	-0.76	
4,377.00	12.34	193.92	4,304.08	-581.27	-215.96	-220.72	0.45	-0.41	-0.83	
4,391.46	12.33	193.80	4,318.20	-584.27	-216.70	-221.49	0.19	-0.07	-0.83	
4,405.92	12.35	193.68	4,332.33	-587.27	-217.44	-222.25	0.22	0.14	-0.83	
4,420.38	12.39	193.56	4,346.45	-590.28	-218.17	-223.00	0.33	0.28	-0.83	
4,434.85	12.43	193.43	4,360.59	-593.30	-218.89	-223.75	0.34	0.28	-0.90	
4,449.31	12.49	193.30	4,374.71	-596.34	-219.61	-224.50	0.46	0.41	-0.90	
4,463.77	12.55	193.18	4,388.82	-599.39	-220.33	-225.24	0.45	0.41	-0.83	
4,478.23	12.61	193.05	4,402.93	-602.46	-221.05	-225.98	0.46	0.41	-0.90	
4,492.69	12.67	192.93	4,417.04	-605.54	-221.76	-226.72	0.45	0.41	-0.83	
4,507.15	12.72	192.82	4,431.15	-608.64	-222.47	-227.45	0.38	0.35	-0.76	
4,521.62	12.77	192.71	4,445.26	-611.75	-223.17	-228.18	0.38	0.35	-0.76	
4,536.08	12.80	192.62	4,459.37	-614.88	-223.87	-228.91	0.25	0.21	-0.62	
4,550.54	13.03	191.65	4,473.46	-618.03	-224.55	-229.61	2.19	1.59	-6.71	
4,565.00	13.90	190.15	4,487.52	-621.34	-225.19	-230.28	6.48	6.02	-10.37	
4,579.46	14.38	190.42	4,501.54	-624.82	-225.82	-230.94	3.35	3.32	1.87	
4,593.92	14.33	190.43	4,515.55	-628.34	-226.47	-231.61	0.35	-0.35	0.07	
4,608.38	14.26	190.44	4,529.56	-631.85	-227.11	-232.29	0.48	-0.48	0.07	
4,622.85	14.20	190.47	4,543.59	-635.35	-227.76	-232.96	0.42	-0.41	0.21	
4,637.31	14.12	190.50	4,557.61	-638.83	-228.40	-233.63	0.56	-0.55	0.21	
4,651.77	14.04	190.54	4,571.64	-642.29	-229.04	-234.31	0.56	-0.55	0.28	
4,666.23	13.96	190.58	4,585.67	-645.73	-229.69	-234.97	0.56	-0.55	0.28	
4,680.69	13.87	190.61	4,599.70	-649.15	-230.32	-235.64	0.62	-0.62	0.21	
4,695.15	13.78	190.64	4,613.74	-652.54	-230.96	-236.31	0.62	-0.62	0.21	
4,709.62	13.69	190.66	4,627.80	-655.92	-231.60	-236.97	0.62	-0.62	0.14	
4,724.08	13.59	190.67	4,641.85	-659.27	-232.23	-237.63	0.69	-0.69	0.07	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)
4,738.54	13.49	190.65	4,655.91	-662.60	-232.85	-238.28	0.69	-0.69	-0.14
4,753.00	13.38	190.59	4,669.97	-665.90	-233.47	-238.93	0.77	-0.76	-0.41
4,767.54	13.27	190.47	4,684.12	-669.19	-234.09	-239.57	0.78	-0.76	-0.83
4,782.08	13.14	190.30	4,698.28	-672.46	-234.68	-240.19	0.93	-0.89	-1.17
4,796.62	13.02	190.11	4,712.44	-675.70	-235.27	-240.80	0.88	-0.83	-1.31
4,811.15	12.89	189.90	4,726.60	-678.91	-235.83	-241.39	0.95	-0.89	-1.45
4,825.69	12.77	189.68	4,740.78	-682.09	-236.38	-241.97	0.89	-0.83	-1.51
4,840.23	12.64	189.45	4,754.96	-685.24	-236.91	-242.53	0.96	-0.89	-1.58
4,854.77	12.51	189.22	4,769.15	-688.37	-237.43	-243.07	0.96	-0.89	-1.58
4,869.31	12.39	189.00	4,783.35	-691.46	-237.92	-243.59	0.89	-0.83	-1.51
4,883.85	12.27	188.79	4,797.56	-694.53	-238.40	-244.09	0.88	-0.83	-1.44
4,898.38	12.15	188.60	4,811.76	-697.57	-238.87	-244.58	0.87	-0.83	-1.31
4,912.92	12.04	188.45	4,825.98	-700.58	-239.32	-245.06	0.79	-0.76	-1.03
4,927.46	11.95	188.37	4,840.20	-703.57	-239.76	-245.53	0.63	-0.62	-0.55
4,942.00	11.87	188.38	4,854.42	-706.54	-240.20	-245.99	0.55	-0.55	0.07
4,956.23	11.83	188.56	4,868.35	-709.43	-240.63	-246.44	0.38	-0.28	1.26
4,970.46	11.81	188.83	4,882.28	-712.31	-241.07	-246.90	0.41	-0.14	1.90
4,984.69	11.80	189.15	4,896.21	-715.18	-241.52	-247.38	0.47	-0.07	2.25
4,998.92	11.80	189.51	4,910.14	-718.06	-242.00	-247.88	0.52	0.00	2.53
5,013.15	11.80	189.88	4,924.07	-720.92	-242.49	-248.39	0.53	0.00	2.60
5,027.38	11.80	190.24	4,938.00	-723.79	-243.00	-248.92	0.52	0.00	2.53
5,041.62	11.86	190.60	4,951.93	-726.66	-243.52	-249.48	0.67	0.42	2.53
5,055.85	12.89	191.04	4,965.83	-729.66	-244.10	-250.07	7.27	7.24	3.09
5,070.08	13.94	194.39	4,979.67	-732.87	-244.83	-250.83	9.18	7.38	23.54
5,084.31	13.92	194.67	4,993.49	-736.19	-245.69	-251.72	0.49	-0.14	1.97
5,098.54	13.91	194.96	5,007.30	-739.50	-246.56	-252.62	0.50	-0.07	2.04
5,112.77	13.88	195.24	5,021.11	-742.80	-247.45	-253.54	0.52	-0.21	1.97
5,127.00	13.84	195.46	5,034.93	-746.08	-248.35	-254.46	0.46	-0.28	1.55
5,141.46	13.78	195.59	5,048.97	-749.41	-249.28	-255.42	0.47	-0.41	0.90
5,155.92	13.69	195.65	5,063.02	-752.72	-250.20	-256.37	0.63	-0.62	0.41
5,170.38	13.59	195.67	5,077.07	-756.00	-251.12	-257.31	0.69	-0.69	0.14
5,184.85	13.49	195.66	5,091.14	-759.26	-252.04	-258.26	0.69	-0.69	-0.07
5,199.31	13.37	195.63	5,105.20	-762.50	-252.94	-259.19	0.83	-0.83	-0.21
5,213.77	13.25	195.58	5,119.27	-765.70	-253.84	-260.11	0.83	-0.83	-0.35
5,228.23	13.13	195.53	5,133.35	-768.88	-254.72	-261.02	0.83	-0.83	-0.35
5,242.69	13.01	195.46	5,147.44	-772.03	-255.60	-261.92	0.84	-0.83	-0.48
5,257.15	12.88	195.39	5,161.53	-775.15	-256.46	-262.81	0.91	-0.90	-0.48
5,271.62	12.74	195.32	5,175.64	-778.25	-257.31	-263.68	0.97	-0.97	-0.48
5,286.08	12.61	195.25	5,189.75	-781.31	-258.14	-264.54	0.91	-0.90	-0.48
5,300.54	12.47	195.19	5,203.86	-784.34	-258.97	-265.39	0.97	-0.97	-0.41
5,315.00	12.33	195.16	5,217.98	-787.33	-259.78	-266.23	0.97	-0.97	-0.21
5,329.54	12.19	195.18	5,232.19	-790.31	-260.59	-267.06	0.96	-0.96	0.14
5,344.08	12.04	195.23	5,246.41	-793.26	-261.39	-267.89	1.03	-1.03	0.34



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)	
5,358.62	11.89	195.29	5,260.63	-796.17	-262.18	-268.70	1.04	-1.03	0.41	
5,373.15	11.75	195.36	5,274.86	-799.04	-262.97	-269.51	0.97	-0.96	0.48	
5,387.69	11.60	195.43	5,289.09	-801.87	-263.75	-270.32	1.04	-1.03	0.48	
5,402.23	12.42	196.46	5,303.32	-804.78	-264.58	-271.17	5.83	5.64	7.08	
5,416.77	13.17	197.42	5,317.49	-807.86	-265.52	-272.14	5.36	5.16	6.60	
5,431.31	13.02	197.51	5,331.66	-811.01	-266.51	-273.15	1.04	-1.03	0.62	
5,445.85	12.87	197.60	5,345.83	-814.11	-267.49	-274.16	1.04	-1.03	0.62	
5,460.38	12.72	197.68	5,360.00	-817.18	-268.47	-275.16	1.04	-1.03	0.55	
5,474.92	12.57	197.76	5,374.18	-820.21	-269.44	-276.16	1.04	-1.03	0.55	
5,489.46	12.44	197.82	5,388.38	-823.21	-270.40	-277.14	0.90	-0.89	0.41	
5,504.00	12.31	197.84	5,402.58	-826.17	-271.35	-278.12	0.89	-0.89	0.14	
5,518.46	12.22	197.81	5,416.71	-829.10	-272.29	-279.08	0.62	-0.62	-0.21	
5,532.92	12.14	197.73	5,430.85	-832.00	-273.22	-280.04	0.57	-0.55	-0.55	
5,547.38	12.07	197.64	5,444.98	-834.89	-274.14	-280.98	0.50	-0.48	-0.62	
5,561.85	12.00	197.53	5,459.14	-837.77	-275.06	-281.92	0.51	-0.48	-0.76	
5,576.31	11.93	197.41	5,473.28	-840.63	-275.96	-282.84	0.51	-0.48	-0.83	
5,590.77	11.84	197.30	5,487.43	-843.47	-276.84	-283.75	0.64	-0.62	-0.76	
5,605.23	12.67	196.52	5,501.56	-846.41	-277.74	-284.67	5.85	5.74	-5.39	
5,619.69	13.72	195.03	5,515.64	-849.58	-278.63	-285.59	7.63	7.26	-10.30	
5,634.15	14.54	194.12	5,529.66	-853.00	-279.52	-286.51	5.88	5.67	-6.29	
5,648.62	14.42	194.04	5,543.67	-856.51	-280.40	-287.42	0.84	-0.83	-0.55	
5,663.08	14.30	193.96	5,557.68	-859.99	-281.27	-288.31	0.84	-0.83	-0.55	
5,677.54	14.16	193.87	5,571.70	-863.44	-282.12	-289.20	0.98	-0.97	-0.62	
5,692.00	13.99	193.77	5,585.72	-866.85	-282.96	-290.06	1.19	-1.18	-0.69	
5,706.46	13.76	193.68	5,599.76	-870.22	-283.78	-290.91	1.60	-1.59	-0.62	
5,720.92	13.49	193.57	5,613.81	-873.53	-284.59	-291.74	1.88	-1.87	-0.76	
5,735.38	13.21	193.45	5,627.88	-876.78	-285.37	-292.55	1.95	-1.94	-0.83	
5,749.85	12.90	193.32	5,641.98	-879.96	-286.12	-293.33	2.15	-2.14	-0.90	
5,764.31	12.58	193.18	5,656.08	-883.06	-286.86	-294.09	2.22	-2.21	-0.97	
5,778.77	12.26	193.03	5,670.21	-886.09	-287.56	-294.82	2.22	-2.21	-1.04	
5,793.23	11.92	192.87	5,684.34	-889.04	-288.24	-295.52	2.36	-2.35	-1.11	
5,807.69	11.58	192.70	5,698.50	-891.92	-288.89	-296.20	2.36	-2.35	-1.18	
5,822.15	11.24	192.52	5,712.68	-894.71	-289.52	-296.84	2.36	-2.35	-1.24	
5,836.62	10.89	192.33	5,726.88	-897.42	-290.11	-297.46	2.43	-2.42	-1.31	
5,851.08	10.54	192.13	5,741.08	-900.05	-290.68	-298.06	2.43	-2.42	-1.38	
5,865.54	10.19	191.92	5,755.31	-902.59	-291.22	-298.62	2.43	-2.42	-1.45	
5,880.00	9.84	191.71	5,769.55	-905.05	-291.74	-299.15	2.43	-2.42	-1.45	
5,894.46	9.48	191.58	5,783.80	-907.43	-292.23	-299.66	2.49	-2.49	-0.90	
5,908.92	9.13	191.46	5,798.07	-909.72	-292.70	-300.15	2.42	-2.42	-0.83	
5,923.38	8.77	191.34	5,812.36	-911.93	-293.14	-300.61	2.49	-2.49	-0.83	
5,937.85	8.42	191.21	5,826.66	-914.05	-293.56	-301.05	2.42	-2.42	-0.90	
5,952.31	8.07	191.08	5,840.97	-916.08	-293.96	-301.47	2.42	-2.42	-0.90	
5,966.77	7.72	190.93	5,855.30	-918.03	-294.34	-301.86	2.42	-2.42	-1.04	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)	
5,981.23	7.37	190.77	5,869.63	-919.90	-294.70	-302.24	2.42	-2.42	-1.11	
5,995.69	7.03	190.61	5,883.98	-921.68	-295.04	-302.59	2.36	-2.35	-1.11	
6,010.15	6.70	190.43	5,898.33	-923.38	-295.35	-302.92	2.29	-2.28	-1.24	
6,024.62	6.37	190.24	5,912.71	-925.00	-295.65	-303.23	2.29	-2.28	-1.31	
6,039.08	6.06	190.06	5,927.09	-926.54	-295.92	-303.52	2.15	-2.14	-1.24	
6,053.54	5.78	189.90	5,941.47	-928.01	-296.18	-303.79	1.94	-1.94	-1.11	
6,068.00	5.53	189.78	5,955.86	-929.41	-296.43	-304.04	1.73	-1.73	-0.83	
6,082.57	5.34	189.80	5,970.36	-930.77	-296.66	-304.29	1.30	-1.30	0.14	
6,097.14	5.18	189.88	5,984.87	-932.08	-296.89	-304.53	1.10	-1.10	0.55	
6,111.71	5.04	190.01	5,999.38	-933.36	-297.11	-304.76	0.96	-0.96	0.89	
6,126.29	4.91	190.18	6,013.91	-934.61	-297.34	-304.99	0.90	-0.89	1.17	
6,140.86	4.77	190.39	6,028.43	-935.82	-297.55	-305.22	0.97	-0.96	1.44	
6,155.43	4.62	190.66	6,042.95	-936.99	-297.77	-305.45	1.04	-1.03	1.85	
6,170.00	5.98	193.05	6,057.45	-938.31	-298.05	-305.74	9.45	9.33	16.40	
6,183.43	7.11	192.82	6,070.80	-939.80	-298.39	-306.09	8.42	8.41	-1.71	
6,196.86	7.63	193.87	6,084.12	-941.47	-298.79	-306.51	4.00	3.87	7.82	
6,210.29	7.39	194.30	6,097.43	-943.18	-299.22	-306.95	1.84	-1.79	3.20	
6,223.71	7.13	194.75	6,110.74	-944.82	-299.65	-307.39	1.98	-1.94	3.35	
6,237.14	7.36	195.48	6,124.07	-946.45	-300.09	-307.84	1.84	1.71	5.44	
6,250.57	8.83	197.33	6,137.36	-948.27	-300.62	-308.39	11.11	10.95	13.78	
6,264.00	9.51	199.62	6,150.62	-950.30	-301.30	-309.09	5.75	5.06	17.05	
6,272.49	9.34	199.49	6,159.00	-951.61	-301.77	-309.56	2.01	-1.99	-1.53	
1st Bone Spring SD										
6,277.57	9.24	199.41	6,164.01	-952.38	-302.04	-309.84	2.01	-1.99	-1.58	
6,291.14	8.96	199.06	6,177.41	-954.41	-302.75	-310.57	2.10	-2.06	-2.58	
6,304.71	8.69	198.61	6,190.82	-956.38	-303.42	-311.26	2.05	-1.99	-3.32	
6,318.29	8.42	198.10	6,204.25	-958.29	-304.06	-311.91	2.07	-1.99	-3.76	
6,331.86	8.16	197.57	6,217.67	-960.16	-304.66	-312.52	2.00	-1.92	-3.91	
6,345.43	7.91	197.06	6,231.11	-961.97	-305.22	-313.10	1.92	-1.84	-3.76	
6,359.00	7.68	196.65	6,244.56	-963.73	-305.76	-313.65	1.74	-1.69	-3.02	
6,372.43	7.49	196.54	6,257.87	-965.43	-306.26	-314.17	1.42	-1.41	-0.82	
6,385.86	7.32	196.57	6,271.19	-967.09	-306.75	-314.68	1.27	-1.27	0.22	
6,393.74	7.23	196.64	6,279.00	-968.04	-307.04	-314.97	1.20	-1.19	0.89	
2nd Bone Spring LM										
6,399.29	7.16	196.69	6,284.51	-968.71	-307.24	-315.18	1.20	-1.19	0.91	
6,412.71	7.00	196.89	6,297.83	-970.29	-307.72	-315.67	1.21	-1.19	1.49	
6,426.14	6.84	197.14	6,311.16	-971.84	-308.19	-316.15	1.21	-1.19	1.86	
6,439.57	6.67	197.44	6,324.50	-973.35	-308.66	-316.63	1.29	-1.27	2.23	
6,453.00	6.48	197.79	6,337.84	-974.81	-309.13	-317.11	1.45	-1.41	2.61	
6,466.57	6.25	198.14	6,351.32	-976.24	-309.59	-317.59	1.72	-1.69	2.58	
6,480.14	6.00	198.53	6,364.82	-977.62	-310.04	-318.05	1.87	-1.84	2.87	
6,493.71	5.74	198.95	6,378.32	-978.93	-310.49	-318.51	1.94	-1.92	3.10	
6,507.29	5.48	199.42	6,391.83	-980.19	-310.93	-318.96	1.94	-1.91	3.46	
6,520.86	5.22	199.91	6,405.34	-981.38	-311.35	-319.39	1.95	-1.92	3.61	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)	
6,534.43	4.98	200.43	6,418.86	-982.51	-311.77	-319.82	1.80	-1.77	3.83	
6,548.00	4.76	200.95	6,432.38	-983.59	-312.17	-320.23	1.65	-1.62	3.83	
6,561.29	4.59	201.32	6,445.62	-984.60	-312.57	-320.63	1.30	-1.28	2.78	
6,574.57	4.44	201.67	6,458.86	-985.57	-312.95	-321.02	1.15	-1.13	2.64	
6,587.86	4.31	202.00	6,472.11	-986.51	-313.33	-321.41	1.00	-0.98	2.48	
6,601.14	4.19	202.31	6,485.36	-987.42	-313.70	-321.79	0.92	-0.90	2.33	
6,614.43	4.08	202.60	6,498.61	-988.31	-314.06	-322.16	0.84	-0.83	2.18	
6,627.71	3.97	202.87	6,511.86	-989.17	-314.42	-322.53	0.84	-0.83	2.03	
6,641.00	3.86	203.13	6,525.12	-990.00	-314.78	-322.89	0.84	-0.83	1.96	
6,654.43	3.75	203.35	6,538.52	-990.82	-315.13	-323.25	0.83	-0.82	1.64	
6,667.86	3.63	203.54	6,551.92	-991.62	-315.47	-323.60	0.90	-0.89	1.41	
6,681.29	3.51	203.71	6,565.33	-992.38	-315.81	-323.94	0.90	-0.89	1.27	
6,694.71	3.40	203.87	6,578.72	-993.12	-316.13	-324.27	0.82	-0.82	1.19	
6,708.14	3.29	204.01	6,592.13	-993.84	-316.45	-324.59	0.82	-0.82	1.04	
6,721.57	3.19	204.14	6,605.54	-994.53	-316.76	-324.91	0.75	-0.74	0.97	
6,735.00	3.11	204.27	6,618.95	-995.20	-317.06	-325.22	0.60	-0.60	0.97	
6,748.29	3.06	204.45	6,632.22	-995.86	-317.36	-325.52	0.38	-0.38	1.35	
6,761.57	3.01	204.57	6,645.48	-996.50	-317.65	-325.81	0.38	-0.38	0.90	
6,774.86	2.95	204.54	6,658.75	-997.12	-317.94	-326.11	0.45	-0.45	-0.23	
6,788.14	2.87	204.25	6,672.01	-997.74	-318.22	-326.39	0.61	-0.60	-2.18	
6,801.43	2.73	203.51	6,685.29	-998.33	-318.48	-326.66	1.09	-1.05	-5.57	
6,814.71	2.51	201.93	6,698.55	-998.89	-318.71	-326.90	1.74	-1.66	-11.90	
6,828.00	2.17	198.61	6,711.83	-999.40	-318.90	-327.09	2.75	-2.56	-24.98	
6,841.43	1.63	191.85	6,725.26	-999.83	-319.02	-327.21	4.35	-4.02	-50.34	
6,854.86	1.07	175.96	6,738.68	-1,000.14	-319.05	-327.25	4.98	-4.17	-118.32	
6,868.29	0.72	139.08	6,752.11	-1,000.33	-318.99	-327.18	4.89	-2.61	-274.61	
6,870.00	0.64	147.11	6,753.82	-1,000.34	-318.98	-327.17	7.13	-4.45	469.77	
KOP: 6870.00' MD, -327.17' VS, 6753.82' TVD										
6,881.71	0.71	223.14	6,765.53	-1,000.45	-318.99	-327.19	7.13	0.56	649.25	
6,895.14	0.50	191.90	6,778.96	-1,000.57	-319.06	-327.26	2.86	-1.56	-232.61	
6,908.57	1.74	108.88	6,792.39	-1,000.69	-318.88	-327.08	13.04	9.23	-618.17	
6,922.00	3.56	101.69	6,805.80	-1,000.84	-318.28	-326.48	13.75	13.55	-53.54	
6,935.43	5.35	94.80	6,819.19	-1,000.98	-317.25	-325.45	13.89	13.33	-51.30	
6,948.86	7.13	89.55	6,832.54	-1,001.03	-315.79	-323.99	13.90	13.25	-39.09	
6,962.29	9.00	87.65	6,845.84	-1,000.98	-313.91	-322.11	14.06	13.92	-14.15	
6,973.38	10.48	88.44	6,856.77	-1,000.91	-312.03	-320.23	13.39	13.34	7.13	
100'FWL: 6973.38' MD, -320.23' VS, 6856.77' TVD										
6,975.71	10.79	88.58	6,859.06	-1,000.90	-311.60	-319.80	13.39	13.35	5.96	
6,989.14	11.93	84.60	6,872.22	-1,000.74	-308.96	-317.16	10.30	8.49	-29.64	
7,002.57	13.16	80.81	6,885.33	-1,000.37	-306.07	-314.27	11.02	9.16	-28.22	
7,016.00	14.78	78.66	6,898.37	-999.79	-302.88	-311.07	12.66	12.06	-16.01	
7,029.43	16.33	77.05	6,911.30	-999.03	-299.36	-307.55	11.98	11.54	-11.99	
7,042.86	17.64	74.60	6,924.15	-998.06	-295.56	-303.74	11.11	9.75	-18.24	
7,056.29	19.23	74.85	6,936.89	-996.94	-291.46	-299.63	11.85	11.84	1.86	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)	
7,069.71	20.77	75.96	6,949.50	-995.79	-287.02	-295.18	11.82	11.48	8.27	
7,083.14	21.69	77.82	6,962.02	-994.69	-282.28	-290.43	8.49	6.85	13.85	
7,096.57	22.68	79.41	6,974.45	-993.69	-277.31	-285.46	8.62	7.37	11.84	
7,110.00	23.65	81.52	6,986.80	-992.82	-272.10	-280.24	9.50	7.22	15.71	
7,123.57	24.71	83.90	6,999.18	-992.11	-266.59	-274.72	10.61	7.81	17.54	
7,137.14	26.03	86.02	7,011.44	-991.60	-260.80	-268.93	11.81	9.73	15.62	
7,150.71	27.65	87.95	7,023.55	-991.28	-254.68	-262.81	13.55	11.94	14.22	
7,164.29	29.35	88.99	7,035.48	-991.11	-248.21	-256.33	13.04	12.52	7.66	
7,177.86	30.87	90.65	7,047.22	-991.09	-241.40	-249.52	12.77	11.20	12.23	
7,191.43	32.61	89.81	7,058.76	-991.12	-234.26	-242.38	13.23	12.82	-6.19	
7,205.00	34.52	89.34	7,070.07	-991.07	-226.76	-234.88	14.20	14.08	-3.46	
7,218.43	36.43	89.19	7,081.00	-990.97	-218.97	-227.09	14.24	14.22	-1.12	
7,231.86	38.32	88.81	7,091.68	-990.82	-210.81	-218.94	14.18	14.07	-2.83	
7,245.29	40.22	88.50	7,102.07	-990.62	-202.32	-210.44	14.22	14.15	-2.31	
7,258.71	42.11	88.68	7,112.18	-990.41	-193.49	-201.60	14.11	14.08	1.34	
7,272.14	43.84	88.56	7,122.00	-990.18	-184.33	-192.45	12.90	12.88	-0.89	
7,285.57	45.82	88.67	7,131.53	-989.96	-174.87	-182.98	14.75	14.74	0.82	
7,299.00	47.80	88.86	7,140.72	-989.75	-165.08	-173.19	14.78	14.74	1.41	
7,312.57	49.75	89.47	7,149.66	-989.60	-154.88	-162.99	14.76	14.37	4.50	
7,312.69	49.75	89.47	7,149.74	-989.60	-154.79	-162.90	0.00	0.00	0.00	
01-FTP(R-124H)										
7,326.14	51.64	90.19	7,158.26	-989.57	-144.38	-152.49	14.65	14.05	5.35	
7,339.71	53.49	90.85	7,166.50	-989.67	-133.60	-141.72	14.17	13.63	4.86	
7,353.29	55.34	90.98	7,174.41	-989.84	-122.56	-130.68	13.65	13.62	0.96	
7,366.86	56.89	90.80	7,181.97	-990.02	-111.30	-119.41	11.48	11.42	-1.33	
7,366.91	56.89	90.80	7,182.00	-990.02	-111.25	-119.37	0.00	0.00	0.00	
2nd Bone Spring SD										
7,380.43	58.53	90.84	7,189.22	-990.18	-99.83	-107.95	12.14	12.13	0.30	
7,394.00	60.23	91.27	7,196.13	-990.40	-88.15	-96.27	12.82	12.53	3.17	
7,407.29	61.37	91.71	7,202.62	-990.70	-76.55	-84.68	9.05	8.58	3.31	
7,420.57	61.34	91.79	7,208.98	-991.05	-64.90	-73.03	0.57	-0.23	0.60	
7,433.86	61.41	91.87	7,215.35	-991.43	-53.25	-61.38	0.75	0.53	0.60	
7,447.14	61.53	91.95	7,221.69	-991.82	-41.58	-49.72	1.05	0.90	0.60	
7,460.43	62.85	92.29	7,227.89	-992.25	-29.84	-37.98	10.19	9.93	2.56	
7,473.71	64.42	92.69	7,233.79	-992.77	-17.95	-26.09	12.13	11.82	3.01	
7,487.00	65.83	93.22	7,239.38	-993.39	-5.91	-14.06	11.21	10.61	3.99	
7,500.43	66.04	93.54	7,244.85	-994.11	6.33	-1.82	2.68	1.56	2.38	
7,513.86	65.67	93.62	7,250.35	-994.88	18.56	10.40	2.81	-2.76	0.60	
7,527.29	65.50	93.70	7,255.90	-995.66	30.77	22.60	1.38	-1.27	0.60	
7,540.71	65.40	93.76	7,261.48	-996.45	42.95	34.77	0.85	-0.75	0.45	
7,554.14	66.35	93.97	7,266.96	-997.28	55.18	46.99	7.22	7.07	1.56	
7,567.57	67.17	94.38	7,272.26	-998.18	67.48	59.29	6.72	6.11	3.05	
7,581.00	68.26	94.42	7,277.36	-999.13	79.87	71.68	8.12	8.12	0.30	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)
7,594.57	68.89	94.28	7,282.31	-1,000.09	92.47	84.26	4.74	4.64	-1.03
7,608.14	69.14	94.22	7,287.17	-1,001.03	105.10	96.89	1.89	1.84	-0.44
7,621.71	69.40	94.16	7,291.98	-1,001.96	117.76	109.54	1.96	1.92	-0.44
7,635.29	69.69	94.08	7,296.72	-1,002.87	130.45	122.22	2.21	2.14	-0.59
7,648.86	70.56	94.85	7,301.34	-1,003.86	143.18	134.94	8.34	6.41	5.67
7,662.43	72.03	95.28	7,305.69	-1,005.00	155.98	147.73	11.24	10.83	3.17
7,676.00	73.92	95.10	7,309.66	-1,006.17	168.90	160.64	13.99	13.93	-1.33
7,689.29	75.81	94.72	7,313.13	-1,007.27	181.68	173.41	14.49	14.22	-2.86
7,702.57	77.41	94.51	7,316.21	-1,008.31	194.56	186.28	12.15	12.05	-1.58
7,715.86	77.09	94.39	7,319.14	-1,009.31	207.48	199.20	2.56	-2.41	-0.90
7,729.14	77.01	94.26	7,322.11	-1,010.29	220.39	212.09	1.13	-0.60	-0.98
7,742.43	77.80	93.86	7,325.01	-1,011.21	233.32	225.02	6.63	5.94	-3.01
7,755.71	78.93	94.18	7,327.69	-1,012.12	246.30	237.99	8.83	8.51	2.41
7,769.00	78.74	94.05	7,330.26	-1,013.06	259.30	250.99	1.72	-1.43	-0.98
7,782.29	78.66	93.92	7,332.87	-1,013.96	272.30	263.98	1.13	-0.60	-0.98
7,795.57	78.64	93.80	7,335.48	-1,014.84	285.30	276.96	0.90	-0.15	-0.90
7,808.86	78.71	93.67	7,338.09	-1,015.69	298.30	289.96	1.09	0.53	-0.98
7,822.14	78.89	93.54	7,340.67	-1,016.51	311.30	302.95	1.66	1.36	-0.98
7,835.43	79.82	93.20	7,343.13	-1,017.27	324.34	315.98	7.44	7.00	-2.56
7,848.71	81.29	92.84	7,345.31	-1,017.96	337.42	329.06	11.39	11.07	-2.71
7,862.00	82.89	92.61	7,347.13	-1,018.59	350.57	342.20	12.16	12.04	-1.73
7,875.43	83.78	92.44	7,348.69	-1,019.18	363.89	355.52	6.75	6.63	-1.27
7,888.86	83.75	92.26	7,350.15	-1,019.73	377.23	368.86	1.35	-0.22	-1.34
7,902.29	83.77	92.07	7,351.61	-1,020.23	390.58	382.19	1.41	0.15	-1.41
7,915.71	83.86	91.89	7,353.06	-1,020.69	403.91	395.52	1.49	0.67	-1.34
7,929.14	85.03	91.59	7,354.36	-1,021.10	417.27	408.88	8.99	8.71	-2.23
7,942.57	86.23	91.32	7,355.38	-1,021.44	430.66	422.26	9.16	8.94	-2.01
7,952.00	86.89	91.25	7,355.95	-1,021.65	440.07	431.67	7.04	7.00	-0.74
EOC: 7952.00' MD, 431.67' VS, 7355.95' TVD									
7,956.00	87.17	91.22	7,356.15	-1,021.73	444.06	435.66	7.04	7.00	-0.74
7,969.43	87.18	91.10	7,356.82	-1,022.00	457.47	449.07	0.90	0.07	-0.89
7,982.86	87.22	90.98	7,357.47	-1,022.25	470.88	462.48	0.94	0.30	-0.89
7,996.29	87.23	90.87	7,358.12	-1,022.46	484.30	475.89	0.82	0.07	-0.82
8,009.71	87.23	90.76	7,358.77	-1,022.66	497.70	489.29	0.82	0.00	-0.82
8,023.14	87.24	90.66	7,359.42	-1,022.82	511.11	502.70	0.75	0.07	-0.74
8,036.57	87.28	90.56	7,360.06	-1,022.96	524.53	516.12	0.80	0.30	-0.74
8,050.00	87.31	90.48	7,360.69	-1,023.09	537.94	529.53	0.64	0.22	-0.60
8,063.43	87.32	90.41	7,361.32	-1,023.19	551.35	542.94	0.53	0.07	-0.52
8,076.86	87.34	90.36	7,361.95	-1,023.28	564.77	556.36	0.40	0.15	-0.37
8,090.29	87.37	90.31	7,362.57	-1,023.36	578.19	569.77	0.43	0.22	-0.37
8,103.71	87.42	90.26	7,363.18	-1,023.43	591.59	583.18	0.53	0.37	-0.37
8,117.14	87.45	90.22	7,363.78	-1,023.48	605.01	596.59	0.37	0.22	-0.30
8,130.57	87.46	90.16	7,364.38	-1,023.53	618.42	610.01	0.45	0.07	-0.45
8,144.00	87.43	90.11	7,364.97	-1,023.56	631.84	623.42	0.43	-0.22	-0.37



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)
8,157.29	87.37	90.03	7,365.58	-1,023.57	645.12	636.70	0.75	-0.45	-0.60
8,170.57	87.30	89.95	7,366.19	-1,023.57	658.38	649.96	0.80	-0.53	-0.60
8,183.86	87.19	89.88	7,366.83	-1,023.55	671.66	663.24	0.98	-0.83	-0.53
8,197.14	87.07	89.81	7,367.50	-1,023.52	684.92	676.50	1.05	-0.90	-0.53
8,210.43	86.96	89.77	7,368.19	-1,023.47	698.19	689.77	0.88	-0.83	-0.30
8,223.71	86.82	89.76	7,368.91	-1,023.41	711.45	703.03	1.06	-1.05	-0.08
8,237.00	86.68	89.80	7,369.66	-1,023.36	724.72	716.30	1.10	-1.05	0.30
8,250.57	86.54	89.93	7,370.47	-1,023.33	738.27	729.85	1.41	-1.03	0.96
8,264.14	86.47	90.11	7,371.29	-1,023.34	751.81	743.39	1.42	-0.52	1.33
8,277.71	86.50	90.30	7,372.13	-1,023.38	765.36	756.94	1.41	0.22	1.40
8,291.29	86.69	90.47	7,372.93	-1,023.47	778.91	770.49	1.88	1.40	1.25
8,304.86	87.67	90.73	7,373.60	-1,023.62	792.47	784.04	7.47	7.22	1.92
8,318.43	88.81	91.50	7,374.02	-1,023.88	806.03	797.60	10.14	8.40	5.67
8,332.00	89.03	91.71	7,374.27	-1,024.26	819.59	811.16	2.24	1.62	1.55
8,345.43	89.12	91.69	7,374.49	-1,024.66	833.01	824.58	0.69	0.67	-0.15
8,358.86	89.18	91.62	7,374.69	-1,025.05	846.43	838.00	0.69	0.45	-0.52
8,372.29	89.23	91.53	7,374.88	-1,025.42	859.86	851.42	0.77	0.37	-0.67
8,385.71	89.29	91.41	7,375.05	-1,025.76	873.27	864.83	1.00	0.45	-0.89
8,399.14	89.55	91.27	7,375.18	-1,026.07	886.70	878.25	2.20	1.94	-1.04
8,412.57	91.09	90.94	7,375.11	-1,026.33	900.12	891.67	11.73	11.47	-2.46
8,426.00	91.44	90.97	7,374.81	-1,026.56	913.55	905.10	2.62	2.61	0.22
8,439.43	91.50	90.79	7,374.47	-1,026.76	926.97	918.52	1.41	0.45	-1.34
8,452.86	91.48	90.60	7,374.12	-1,026.93	940.40	931.94	1.42	-0.15	-1.41
8,466.29	91.43	90.39	7,373.78	-1,027.04	953.82	945.37	1.61	-0.37	-1.56
8,479.71	91.40	90.18	7,373.45	-1,027.11	967.24	958.78	1.58	-0.22	-1.56
8,493.14	91.37	89.96	7,373.12	-1,027.13	980.66	972.21	1.65	-0.22	-1.64
8,506.57	91.34	89.75	7,372.80	-1,027.09	994.09	985.63	1.58	-0.22	-1.56
8,520.00	91.35	89.54	7,372.49	-1,027.01	1,007.52	999.06	1.57	0.07	-1.56
8,533.43	91.39	89.34	7,372.17	-1,026.88	1,020.94	1,012.48	1.52	0.30	-1.49
8,546.86	91.41	89.15	7,371.84	-1,026.70	1,034.37	1,025.91	1.42	0.15	-1.41
8,560.29	91.45	88.97	7,371.51	-1,026.48	1,047.79	1,039.34	1.37	0.30	-1.34
8,573.71	91.52	88.80	7,371.16	-1,026.22	1,061.20	1,052.75	1.37	0.52	-1.27
8,587.14	91.61	88.66	7,370.79	-1,025.92	1,074.63	1,066.17	1.24	0.67	-1.04
8,600.57	91.73	88.55	7,370.40	-1,025.59	1,088.05	1,079.60	1.21	0.89	-0.82
8,614.00	91.81	88.49	7,369.98	-1,025.25	1,101.47	1,093.02	0.74	0.60	-0.45
8,627.43	91.85	88.50	7,369.56	-1,024.90	1,114.88	1,106.44	0.31	0.30	0.07
8,640.86	91.86	88.56	7,369.12	-1,024.55	1,128.30	1,119.86	0.45	0.07	0.45
8,654.29	91.82	88.62	7,368.69	-1,024.22	1,141.72	1,133.28	0.54	-0.30	0.45
8,667.71	91.61	88.68	7,368.29	-1,023.90	1,155.13	1,146.69	1.63	-1.56	0.45
8,681.14	90.62	89.40	7,368.03	-1,023.68	1,168.56	1,160.12	9.11	-7.37	5.36
8,694.57	89.86	89.96	7,367.97	-1,023.60	1,181.99	1,173.55	7.03	-5.66	4.17
8,708.00	89.64	89.94	7,368.03	-1,023.59	1,195.42	1,186.98	1.64	-1.64	-0.15
8,721.14	89.58	89.85	7,368.12	-1,023.57	1,208.56	1,200.12	0.82	-0.46	-0.68



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)	
8,734.29	89.66	89.71	7,368.21	-1,023.52	1,221.71	1,213.27	1.23	0.61	-1.06	
8,747.43	89.76	89.55	7,368.27	-1,023.43	1,234.84	1,226.41	1.44	0.76	-1.22	
8,760.57	89.86	89.37	7,368.32	-1,023.31	1,247.98	1,239.55	1.57	0.76	-1.37	
8,773.71	89.96	89.18	7,368.34	-1,023.14	1,261.12	1,252.69	1.63	0.76	-1.45	
8,786.86	90.18	89.62	7,368.32	-1,023.01	1,274.27	1,265.84	3.74	1.67	3.35	
8,800.00	90.38	90.33	7,368.26	-1,023.00	1,287.41	1,278.98	5.61	1.52	5.40	
8,813.57	90.30	90.09	7,368.18	-1,023.05	1,300.98	1,292.55	1.86	-0.59	-1.77	
8,827.14	90.25	89.83	7,368.11	-1,023.04	1,314.55	1,306.12	1.95	-0.37	-1.92	
8,840.71	90.20	89.57	7,368.06	-1,022.97	1,328.12	1,319.69	1.95	-0.37	-1.92	
8,854.29	90.14	89.30	7,368.02	-1,022.84	1,341.70	1,333.27	2.04	-0.44	-1.99	
8,867.86	90.07	89.05	7,367.99	-1,022.64	1,355.27	1,346.83	1.91	-0.52	-1.84	
8,881.43	90.00	88.82	7,367.98	-1,022.39	1,368.84	1,360.40	1.77	-0.52	-1.69	
8,895.00	89.97	88.61	7,367.99	-1,022.08	1,382.40	1,373.97	1.56	-0.22	-1.55	
8,908.43	89.98	88.46	7,367.99	-1,021.74	1,395.83	1,387.40	1.12	0.07	-1.12	
8,921.86	90.01	88.34	7,367.99	-1,021.36	1,409.25	1,400.83	0.92	0.22	-0.89	
8,935.29	90.04	88.24	7,367.99	-1,020.96	1,422.68	1,414.25	0.78	0.22	-0.74	
8,948.71	90.08	88.15	7,367.97	-1,020.54	1,436.09	1,427.67	0.73	0.30	-0.67	
8,962.14	90.11	88.06	7,367.95	-1,020.10	1,449.51	1,441.10	0.71	0.22	-0.67	
8,975.57	90.16	88.63	7,367.92	-1,019.71	1,462.94	1,454.52	4.26	0.37	4.24	
8,989.00	90.38	90.13	7,367.86	-1,019.56	1,476.37	1,467.95	11.29	1.64	11.17	
9,002.43	90.57	90.73	7,367.75	-1,019.66	1,489.80	1,481.38	4.69	1.41	4.47	
9,015.86	90.56	90.59	7,367.61	-1,019.82	1,503.22	1,494.81	1.05	-0.07	-1.04	
9,029.29	90.50	90.44	7,367.49	-1,019.94	1,516.65	1,508.24	1.20	-0.45	-1.12	
9,042.71	90.39	90.29	7,367.38	-1,020.03	1,530.07	1,521.65	1.39	-0.82	-1.12	
9,056.14	90.21	90.14	7,367.31	-1,020.08	1,543.50	1,535.08	1.74	-1.34	-1.12	
9,069.57	89.74	90.58	7,367.32	-1,020.16	1,556.93	1,548.51	4.79	-3.50	3.28	
9,083.00	89.12	91.62	7,367.45	-1,020.42	1,570.36	1,561.94	9.02	-4.62	7.74	
9,096.43	88.92	91.46	7,367.68	-1,020.78	1,583.78	1,575.35	1.91	-1.49	-1.19	
9,109.86	88.81	91.31	7,367.95	-1,021.10	1,597.21	1,588.78	1.38	-0.82	-1.12	
9,123.29	88.76	91.16	7,368.23	-1,021.39	1,610.63	1,602.20	1.18	-0.37	-1.12	
9,136.71	88.70	91.01	7,368.53	-1,021.65	1,624.04	1,615.61	1.20	-0.45	-1.12	
9,150.14	88.60	90.88	7,368.85	-1,021.87	1,637.47	1,629.03	1.22	-0.74	-0.97	
9,163.57	88.46	90.77	7,369.19	-1,022.06	1,650.89	1,642.45	1.33	-1.04	-0.82	
9,177.00	88.31	90.69	7,369.57	-1,022.23	1,664.32	1,655.87	1.27	-1.12	-0.60	
9,190.29	88.20	90.65	7,369.98	-1,022.39	1,677.60	1,669.16	0.88	-0.83	-0.30	
9,203.57	88.15	90.65	7,370.40	-1,022.54	1,690.87	1,682.43	0.38	-0.38	0.00	
9,216.86	88.17	90.65	7,370.83	-1,022.69	1,704.15	1,695.71	0.15	0.15	0.00	
9,230.14	88.27	90.65	7,371.24	-1,022.84	1,717.43	1,708.98	0.75	0.75	0.00	
9,243.43	88.47	90.65	7,371.62	-1,022.99	1,730.71	1,722.26	1.50	1.50	0.00	
9,256.71	88.78	90.61	7,371.93	-1,023.14	1,743.98	1,735.53	2.35	2.33	-0.30	
9,270.00	89.72	90.82	7,372.11	-1,023.30	1,757.27	1,748.82	7.25	7.07	1.58	
9,283.29	91.25	91.23	7,372.00	-1,023.54	1,770.56	1,762.10	11.92	11.51	3.09	
9,296.57	91.79	91.18	7,371.64	-1,023.82	1,783.83	1,775.37	4.08	4.07	-0.38	
9,309.86	92.00	90.94	7,371.20	-1,024.07	1,797.11	1,788.65	2.40	1.58	-1.81	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)
9,323.14	92.22	90.68	7,370.72	-1,024.25	1,810.38	1,801.92	2.56	1.66	-1.96
9,336.43	92.36	90.42	7,370.18	-1,024.38	1,823.66	1,815.20	2.22	1.05	-1.96
9,349.71	92.38	90.16	7,369.64	-1,024.45	1,836.93	1,828.46	1.96	0.15	-1.96
9,363.00	92.25	89.94	7,369.10	-1,024.46	1,850.21	1,841.74	1.92	-0.98	-1.66
9,376.43	91.78	89.77	7,368.63	-1,024.43	1,863.63	1,855.16	3.72	-3.50	-1.27
9,389.86	90.14	89.64	7,368.40	-1,024.36	1,877.06	1,868.59	12.25	-12.21	-0.97
9,403.29	89.82	89.51	7,368.41	-1,024.26	1,890.49	1,882.02	2.57	-2.38	-0.97
9,416.71	89.75	89.40	7,368.46	-1,024.13	1,903.91	1,895.44	0.97	-0.52	-0.82
9,430.14	89.77	89.30	7,368.51	-1,023.98	1,917.34	1,908.87	0.76	0.15	-0.74
9,443.57	89.84	89.21	7,368.56	-1,023.80	1,930.76	1,922.30	0.85	0.52	-0.67
9,457.00	89.91	89.11	7,368.59	-1,023.60	1,944.19	1,935.73	0.91	0.52	-0.74
9,470.14	90.02	89.01	7,368.60	-1,023.39	1,957.33	1,948.87	1.13	0.84	-0.76
9,483.29	90.15	88.90	7,368.58	-1,023.15	1,970.48	1,962.02	1.30	0.99	-0.84
9,496.43	90.28	88.80	7,368.53	-1,022.89	1,983.62	1,975.16	1.25	0.99	-0.76
9,509.57	90.42	88.70	7,368.45	-1,022.60	1,996.75	1,988.30	1.31	1.07	-0.76
9,522.71	90.57	88.60	7,368.33	-1,022.29	2,009.89	2,001.43	1.37	1.14	-0.76
9,535.86	90.66	88.50	7,368.19	-1,021.96	2,023.03	2,014.58	1.02	0.68	-0.76
9,549.00	90.73	88.42	7,368.03	-1,021.60	2,036.17	2,027.72	0.81	0.53	-0.61
9,562.57	90.74	88.34	7,367.86	-1,021.22	2,049.73	2,041.29	0.59	0.07	-0.59
9,576.14	90.71	88.27	7,367.69	-1,020.82	2,063.29	2,054.85	0.56	-0.22	-0.52
9,589.71	90.66	88.20	7,367.52	-1,020.40	2,076.86	2,068.42	0.63	-0.37	-0.52
9,603.29	90.59	88.13	7,367.38	-1,019.97	2,090.43	2,081.99	0.73	-0.52	-0.52
9,616.86	90.42	88.05	7,367.26	-1,019.51	2,103.99	2,095.56	1.38	-1.25	-0.59
9,630.43	89.61	88.11	7,367.25	-1,019.06	2,117.55	2,109.12	5.99	-5.97	0.44
9,644.00	88.76	88.18	7,367.45	-1,018.62	2,131.11	2,122.69	6.29	-6.26	0.52
9,657.43	88.47	88.07	7,367.77	-1,018.18	2,144.53	2,136.11	2.31	-2.16	-0.82
9,670.86	88.30	87.95	7,368.15	-1,017.71	2,157.95	2,149.53	1.55	-1.27	-0.89
9,684.29	88.21	87.82	7,368.56	-1,017.22	2,171.36	2,162.95	1.18	-0.67	-0.97
9,697.71	88.15	87.68	7,368.98	-1,016.69	2,184.77	2,176.35	1.13	-0.45	-1.04
9,711.14	88.12	87.54	7,369.42	-1,016.13	2,198.18	2,189.77	1.07	-0.22	-1.04
9,724.57	88.09	87.38	7,369.87	-1,015.54	2,211.59	2,203.18	1.21	-0.22	-1.19
9,738.00	88.06	87.21	7,370.32	-1,014.90	2,225.00	2,216.60	1.28	-0.22	-1.27
9,751.57	88.03	87.02	7,370.78	-1,014.22	2,238.54	2,230.15	1.42	-0.22	-1.40
9,765.14	88.04	86.82	7,371.25	-1,013.49	2,252.08	2,243.69	1.47	0.07	-1.47
9,778.71	88.08	86.63	7,371.70	-1,012.72	2,265.62	2,257.24	1.43	0.29	-1.40
9,792.29	88.13	86.43	7,372.15	-1,011.90	2,279.17	2,270.79	1.52	0.37	-1.47
9,805.86	88.17	86.26	7,372.59	-1,011.03	2,292.71	2,284.34	1.29	0.29	-1.25
9,819.43	88.17	86.11	7,373.03	-1,010.13	2,306.24	2,297.88	1.10	0.00	-1.11
9,833.00	88.15	86.01	7,373.46	-1,009.20	2,319.77	2,311.41	0.75	-0.15	-0.74
9,846.29	88.09	85.98	7,373.90	-1,008.27	2,333.02	2,324.67	0.50	-0.45	-0.23
9,859.57	88.10	85.98	7,374.34	-1,007.34	2,346.26	2,337.92	0.08	0.08	0.00
9,872.86	88.19	86.01	7,374.77	-1,006.41	2,359.51	2,351.18	0.71	0.68	0.23
9,886.14	88.35	86.04	7,375.17	-1,005.49	2,372.75	2,364.43	1.23	1.20	0.23



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)	
9,899.43	88.78	86.48	7,375.50	-1,004.63	2,386.01	2,377.69	4.63	3.24	3.31	
9,912.71	88.28	87.65	7,375.84	-1,003.95	2,399.27	2,390.95	9.58	-3.77	8.81	
9,926.00	87.80	89.36	7,376.30	-1,003.60	2,412.55	2,404.23	13.36	-3.61	12.87	
9,939.57	87.72	89.41	7,376.83	-1,003.45	2,426.10	2,417.79	0.70	-0.59	0.37	
9,953.14	87.67	89.47	7,377.37	-1,003.32	2,439.66	2,431.35	0.58	-0.37	0.44	
9,966.71	87.63	89.53	7,377.93	-1,003.20	2,453.22	2,444.91	0.53	-0.29	0.44	
9,980.29	87.56	89.59	7,378.50	-1,003.10	2,466.79	2,458.48	0.68	-0.52	0.44	
9,993.86	87.37	89.64	7,379.10	-1,003.01	2,480.34	2,472.03	1.45	-1.40	0.37	
10,007.43	86.40	90.36	7,379.84	-1,003.01	2,493.89	2,485.58	8.90	-7.15	5.31	
10,021.00	85.85	91.29	7,380.75	-1,003.20	2,507.43	2,499.12	7.95	-4.05	6.85	
10,024.12	85.83	91.30	7,380.98	-1,003.27	2,510.54	2,502.22	0.57	-0.52	0.22	
02-v2500(R-124H)										
10,034.43	85.78	91.32	7,381.73	-1,003.51	2,520.82	2,512.51	0.57	-0.52	0.22	
10,047.86	85.83	91.33	7,382.72	-1,003.82	2,534.21	2,525.89	0.38	0.37	0.07	
10,061.29	85.94	91.34	7,383.68	-1,004.13	2,547.60	2,539.28	0.82	0.82	0.07	
10,074.71	86.07	91.34	7,384.62	-1,004.44	2,560.99	2,552.66	0.97	0.97	0.00	
10,088.14	86.20	91.33	7,385.52	-1,004.75	2,574.38	2,566.06	0.97	0.97	-0.07	
10,101.57	86.26	91.29	7,386.40	-1,005.06	2,587.78	2,579.45	0.54	0.45	-0.30	
10,115.00	86.27	91.22	7,387.28	-1,005.35	2,601.18	2,592.85	0.53	0.07	-0.52	
10,128.57	86.25	91.10	7,388.16	-1,005.63	2,614.72	2,606.38	0.89	-0.15	-0.88	
10,142.14	86.27	90.95	7,389.05	-1,005.87	2,628.26	2,619.92	1.11	0.15	-1.11	
10,155.71	86.34	90.77	7,389.92	-1,006.07	2,641.80	2,633.46	1.42	0.52	-1.33	
10,169.29	86.43	90.59	7,390.78	-1,006.23	2,655.35	2,647.01	1.48	0.66	-1.33	
10,182.86	86.52	90.40	7,391.61	-1,006.35	2,668.89	2,660.55	1.55	0.66	-1.40	
10,196.43	86.58	90.22	7,392.43	-1,006.42	2,682.44	2,674.09	1.40	0.44	-1.33	
10,210.00	86.62	90.06	7,393.24	-1,006.46	2,695.98	2,687.64	1.21	0.29	-1.18	
10,223.43	86.67	89.92	7,394.02	-1,006.46	2,709.39	2,701.04	1.11	0.37	-1.04	
10,236.86	86.75	89.79	7,394.79	-1,006.42	2,722.80	2,714.45	1.14	0.60	-0.97	
10,250.29	86.82	89.68	7,395.55	-1,006.36	2,736.21	2,727.86	0.97	0.52	-0.82	
10,263.71	86.88	89.57	7,396.28	-1,006.27	2,749.61	2,741.26	0.93	0.45	-0.82	
10,277.14	86.95	89.46	7,397.01	-1,006.16	2,763.02	2,754.67	0.97	0.52	-0.82	
10,290.57	87.02	89.35	7,397.71	-1,006.02	2,776.43	2,768.08	0.97	0.52	-0.82	
10,304.00	87.08	89.23	7,398.40	-1,005.85	2,789.84	2,781.49	1.00	0.45	-0.89	
10,317.57	87.14	89.10	7,399.09	-1,005.66	2,803.39	2,795.05	1.05	0.44	-0.96	
10,331.14	87.17	88.97	7,399.76	-1,005.43	2,816.94	2,808.60	0.98	0.22	-0.96	
10,344.71	87.17	88.84	7,400.43	-1,005.17	2,830.49	2,822.15	0.96	0.00	-0.96	
10,358.29	87.16	88.71	7,401.10	-1,004.88	2,844.05	2,835.71	0.96	-0.07	-0.96	
10,371.86	87.14	88.59	7,401.78	-1,004.56	2,857.60	2,849.27	0.90	-0.15	-0.88	
10,385.43	87.14	88.49	7,402.45	-1,004.21	2,871.15	2,862.82	0.74	0.00	-0.74	
10,399.00	87.14	88.41	7,403.13	-1,003.85	2,884.70	2,876.37	0.59	0.00	-0.59	
10,412.43	87.08	88.36	7,403.81	-1,003.47	2,898.11	2,889.78	0.58	-0.45	-0.37	
10,425.86	86.97	88.35	7,404.51	-1,003.08	2,911.51	2,903.19	0.82	-0.82	-0.07	
10,439.29	86.88	88.35	7,405.23	-1,002.70	2,924.92	2,916.60	0.67	-0.67	0.00	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)	
10,452.71	86.73	88.36	7,405.97	-1,002.31	2,938.31	2,929.99	1.12	-1.12	0.07	
10,466.14	85.80	89.25	7,406.85	-1,002.03	2,951.71	2,943.39	9.58	-6.92	6.63	
10,479.57	84.73	90.73	7,407.96	-1,002.03	2,965.09	2,956.77	13.57	-7.97	11.02	
10,493.00	84.09	91.22	7,409.27	-1,002.26	2,978.46	2,970.14	5.99	-4.77	3.65	
10,506.43	83.66	91.34	7,410.70	-1,002.56	2,991.81	2,983.48	3.32	-3.20	0.89	
10,519.86	83.36	91.47	7,412.22	-1,002.88	3,005.15	2,996.82	2.43	-2.23	0.97	
10,533.29	83.18	91.61	7,413.79	-1,003.24	3,018.48	3,010.15	1.69	-1.34	1.04	
10,546.71	83.12	91.74	7,415.39	-1,003.63	3,031.80	3,023.46	1.06	-0.45	0.97	
10,560.14	83.88	91.98	7,416.91	-1,004.06	3,045.14	3,036.80	5.93	5.66	1.79	
10,573.57	85.08	92.53	7,418.20	-1,004.59	3,058.49	3,050.15	9.82	8.94	4.10	
10,587.00	85.83	93.21	7,419.27	-1,005.26	3,071.86	3,063.51	7.53	5.58	5.06	
10,600.43	85.71	93.24	7,420.26	-1,006.01	3,085.24	3,076.88	0.92	-0.89	0.22	
10,613.86	85.65	93.25	7,421.27	-1,006.77	3,098.61	3,090.24	0.45	-0.45	0.07	
10,627.29	85.65	93.26	7,422.29	-1,007.53	3,111.98	3,103.61	0.07	0.00	0.07	
10,640.71	85.73	93.25	7,423.30	-1,008.29	3,125.34	3,116.96	0.60	0.60	-0.07	
10,654.14	86.37	93.02	7,424.22	-1,009.03	3,138.71	3,130.33	5.06	4.77	-1.71	
10,667.57	87.70	92.59	7,424.92	-1,009.68	3,152.11	3,143.72	10.41	9.90	-3.20	
10,681.00	88.69	92.53	7,425.34	-1,010.28	3,165.52	3,157.13	7.39	7.37	-0.45	
10,694.57	88.81	92.51	7,425.64	-1,010.88	3,179.07	3,170.67	0.90	0.88	-0.15	
10,708.14	88.92	92.49	7,425.90	-1,011.47	3,192.63	3,184.22	0.82	0.81	-0.15	
10,721.71	89.02	92.47	7,426.15	-1,012.06	3,206.18	3,197.77	0.75	0.74	-0.15	
10,735.29	89.13	92.43	7,426.37	-1,012.64	3,219.75	3,211.33	0.86	0.81	-0.29	
10,748.86	89.21	92.39	7,426.56	-1,013.21	3,233.31	3,224.89	0.66	0.59	-0.29	
10,762.43	89.27	92.34	7,426.74	-1,013.77	3,246.86	3,238.44	0.58	0.44	-0.37	
10,776.00	89.30	92.27	7,426.91	-1,014.31	3,260.42	3,251.99	0.56	0.22	-0.52	
10,789.57	89.32	92.17	7,427.08	-1,014.84	3,273.98	3,265.54	0.75	0.15	-0.74	
10,803.14	89.31	92.06	7,427.24	-1,015.34	3,287.54	3,279.10	0.81	-0.07	-0.81	
10,816.71	89.30	91.94	7,427.40	-1,015.81	3,301.10	3,292.66	0.89	-0.07	-0.88	
10,830.29	89.31	91.81	7,427.57	-1,016.26	3,314.67	3,306.22	0.96	0.07	-0.96	
10,843.86	89.29	91.68	7,427.73	-1,016.67	3,328.23	3,319.78	0.97	-0.15	-0.96	
10,857.43	89.27	91.57	7,427.91	-1,017.06	3,341.80	3,333.34	0.82	-0.15	-0.81	
10,871.00	89.28	91.46	7,428.08	-1,017.41	3,355.36	3,346.90	0.81	0.07	-0.81	
10,884.43	89.36	91.38	7,428.24	-1,017.75	3,368.79	3,360.33	0.84	0.60	-0.60	
10,897.86	89.52	91.31	7,428.37	-1,018.06	3,382.21	3,373.75	1.30	1.19	-0.52	
10,911.29	89.78	91.25	7,428.45	-1,018.36	3,395.64	3,387.17	1.99	1.94	-0.45	
10,924.71	90.07	91.21	7,428.47	-1,018.65	3,409.06	3,400.59	2.18	2.16	-0.30	
10,938.14	90.36	91.17	7,428.42	-1,018.93	3,422.48	3,414.01	2.18	2.16	-0.30	
10,951.57	90.63	91.15	7,428.30	-1,019.20	3,435.91	3,427.43	2.02	2.01	-0.15	
10,965.00	90.88	91.15	7,428.12	-1,019.47	3,449.34	3,440.86	1.86	1.86	0.00	
10,978.29	91.05	91.17	7,427.90	-1,019.74	3,462.62	3,454.14	1.29	1.28	0.15	
10,991.57	91.17	91.21	7,427.64	-1,020.02	3,475.90	3,467.41	0.95	0.90	0.30	
11,004.86	91.26	91.26	7,427.36	-1,020.30	3,489.18	3,480.69	0.77	0.68	0.38	
11,018.14	91.29	91.32	7,427.07	-1,020.60	3,502.45	3,493.96	0.51	0.23	0.45	
11,031.43	91.14	91.38	7,426.78	-1,020.91	3,515.74	3,507.24	1.22	-1.13	0.45	



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)
11,044.71	90.31	91.48	7,426.62	-1,021.25	3,529.01	3,520.52	6.30	-6.25	0.75
11,058.00	88.75	91.70	7,426.72	-1,021.61	3,542.30	3,533.80	11.85	-11.74	1.66
11,071.43	88.28	91.89	7,427.07	-1,022.03	3,555.71	3,547.21	3.77	-3.50	1.41
11,084.86	88.27	92.01	7,427.48	-1,022.49	3,569.13	3,560.62	0.90	-0.07	0.89
11,098.29	88.32	92.14	7,427.88	-1,022.98	3,582.55	3,574.03	1.04	0.37	0.97
11,111.71	88.38	92.26	7,428.26	-1,023.49	3,595.95	3,587.43	1.00	0.45	0.89
11,125.14	88.39	92.36	7,428.64	-1,024.03	3,609.36	3,600.84	0.75	0.07	0.74
11,138.57	87.68	92.43	7,429.10	-1,024.59	3,622.77	3,614.25	5.31	-5.29	0.52
11,152.00	86.31	92.78	7,429.81	-1,025.20	3,636.17	3,627.64	10.53	-10.20	2.61
11,165.43	86.11	92.76	7,430.69	-1,025.85	3,649.56	3,641.02	1.50	-1.49	-0.15
11,178.86	85.94	92.72	7,431.62	-1,026.49	3,662.94	3,654.40	1.30	-1.27	-0.30
11,192.29	85.82	92.67	7,432.59	-1,027.12	3,676.32	3,667.77	0.97	-0.89	-0.37
11,205.71	85.75	92.60	7,433.58	-1,027.74	3,689.69	3,681.13	0.74	-0.52	-0.52
11,219.14	85.70	92.53	7,434.58	-1,028.34	3,703.07	3,694.51	0.64	-0.37	-0.52
11,232.57	85.66	92.46	7,435.59	-1,028.92	3,716.45	3,707.88	0.60	-0.30	-0.52
11,246.00	85.58	92.39	7,436.61	-1,029.49	3,729.83	3,721.26	0.79	-0.60	-0.52
11,259.57	85.47	92.34	7,437.67	-1,030.04	3,743.34	3,734.77	0.89	-0.81	-0.37
11,273.14	85.40	92.29	7,438.75	-1,030.59	3,756.86	3,748.28	0.63	-0.52	-0.37
11,286.71	85.37	92.24	7,439.84	-1,031.13	3,770.37	3,761.79	0.43	-0.22	-0.37
11,300.29	85.38	92.19	7,440.94	-1,031.65	3,783.90	3,775.31	0.37	0.07	-0.37
11,313.86	85.41	92.14	7,442.03	-1,032.16	3,797.42	3,788.82	0.43	0.22	-0.37
11,327.43	85.49	92.07	7,443.11	-1,032.66	3,810.93	3,802.34	0.78	0.59	-0.52
11,341.00	85.59	91.99	7,444.16	-1,033.14	3,824.46	3,815.85	0.94	0.74	-0.59
11,354.43	85.70	91.89	7,445.18	-1,033.59	3,837.84	3,829.23	1.11	0.82	-0.74
11,367.86	85.81	91.77	7,446.17	-1,034.02	3,851.22	3,842.61	1.21	0.82	-0.89
11,381.29	85.92	91.64	7,447.14	-1,034.42	3,864.61	3,856.00	1.27	0.82	-0.97
11,394.71	86.03	91.51	7,448.09	-1,034.78	3,878.00	3,869.38	1.27	0.82	-0.97
11,408.14	86.13	91.39	7,449.00	-1,035.12	3,891.39	3,882.77	1.16	0.74	-0.89
11,421.57	86.23	91.27	7,449.90	-1,035.43	3,904.79	3,896.16	1.16	0.74	-0.89
11,435.00	86.34	91.17	7,450.77	-1,035.72	3,918.19	3,909.56	1.11	0.82	-0.74
11,448.57	86.45	91.10	7,451.62	-1,035.99	3,931.73	3,923.10	0.96	0.81	-0.52
11,462.14	86.57	91.05	7,452.45	-1,036.24	3,945.27	3,936.64	0.96	0.88	-0.37
11,475.71	86.71	91.00	7,453.24	-1,036.48	3,958.81	3,950.18	1.10	1.03	-0.37
11,489.29	86.87	90.96	7,454.00	-1,036.72	3,972.37	3,963.73	1.21	1.18	-0.29
11,502.86	87.04	90.93	7,454.72	-1,036.94	3,985.92	3,977.28	1.27	1.25	-0.22
11,516.43	87.22	90.88	7,455.40	-1,037.15	3,999.47	3,990.83	1.38	1.33	-0.37
11,530.00	87.40	90.83	7,456.04	-1,037.35	4,013.02	4,004.38	1.38	1.33	-0.37
11,543.43	87.57	90.76	7,456.63	-1,037.54	4,026.44	4,017.79	1.37	1.27	-0.52
11,556.86	87.73	90.67	7,457.18	-1,037.71	4,039.86	4,031.21	1.37	1.19	-0.67
11,570.29	87.87	90.59	7,457.70	-1,037.86	4,053.28	4,044.63	1.20	1.04	-0.60
11,583.71	88.01	90.50	7,458.18	-1,037.98	4,066.69	4,058.04	1.24	1.04	-0.67
11,597.14	88.17	90.41	7,458.63	-1,038.09	4,080.11	4,071.46	1.37	1.19	-0.67
11,610.57	88.33	90.33	7,459.04	-1,038.18	4,093.53	4,084.88	1.33	1.19	-0.60



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)
11,624.00	88.49	90.27	7,459.41	-1,038.25	4,106.96	4,098.30	1.27	1.19	-0.45
11,637.43	88.66	90.23	7,459.74	-1,038.31	4,120.38	4,111.73	1.30	1.27	-0.30
11,650.86	88.79	90.21	7,460.04	-1,038.36	4,133.81	4,125.15	0.98	0.97	-0.15
11,664.29	88.90	90.20	7,460.31	-1,038.41	4,147.24	4,138.58	0.82	0.82	-0.07
11,677.71	89.01	90.19	7,460.56	-1,038.45	4,160.65	4,152.00	0.82	0.82	-0.07
11,691.14	89.11	90.19	7,460.78	-1,038.50	4,174.08	4,165.42	0.74	0.74	0.00
11,704.57	89.20	90.20	7,460.98	-1,038.54	4,187.51	4,178.85	0.67	0.67	0.07
11,718.00	89.31	90.21	7,461.15	-1,038.59	4,200.94	4,192.28	0.82	0.82	0.07
11,731.43	89.43	90.24	7,461.30	-1,038.64	4,214.37	4,205.71	0.92	0.89	0.22
11,744.86	89.59	90.26	7,461.41	-1,038.70	4,227.80	4,219.14	1.20	1.19	0.15
11,758.29	89.74	90.28	7,461.49	-1,038.76	4,241.23	4,232.56	1.13	1.12	0.15
11,771.71	89.87	90.28	7,461.54	-1,038.83	4,254.65	4,245.98	0.97	0.97	0.00
11,785.14	90.00	90.26	7,461.55	-1,038.89	4,268.08	4,259.41	0.98	0.97	-0.15
11,798.57	90.11	90.20	7,461.54	-1,038.95	4,281.51	4,272.84	0.93	0.82	-0.45
11,812.00	90.16	90.08	7,461.51	-1,038.98	4,294.94	4,286.27	0.97	0.37	-0.89
11,825.57	90.10	89.87	7,461.48	-1,038.97	4,308.51	4,299.84	1.61	-0.44	-1.55
11,839.14	89.88	89.62	7,461.48	-1,038.91	4,322.08	4,313.41	2.45	-1.62	-1.84
11,852.71	88.92	88.79	7,461.62	-1,038.72	4,335.64	4,326.98	9.35	-7.07	-6.12
11,866.29	87.80	88.01	7,462.01	-1,038.35	4,349.21	4,340.55	10.05	-8.25	-5.74
11,879.86	87.69	87.66	7,462.54	-1,037.83	4,362.76	4,354.10	2.70	-0.81	-2.58
11,893.43	87.53	87.37	7,463.11	-1,037.25	4,376.31	4,367.65	2.44	-1.18	-2.14
11,907.00	87.45	87.11	7,463.70	-1,036.59	4,389.85	4,381.20	2.00	-0.59	-1.92
11,920.29	87.42	86.94	7,464.30	-1,035.90	4,403.11	4,394.46	1.30	-0.23	-1.28
11,933.57	87.46	86.82	7,464.89	-1,035.18	4,416.36	4,407.72	0.95	0.30	-0.90
11,946.86	87.51	86.73	7,465.48	-1,034.44	4,429.61	4,420.98	0.77	0.38	-0.68
11,960.14	87.59	86.66	7,466.04	-1,033.67	4,442.86	4,434.23	0.80	0.60	-0.53
11,973.43	87.70	86.61	7,466.59	-1,032.89	4,456.11	4,447.49	0.91	0.83	-0.38
11,986.71	87.84	86.55	7,467.11	-1,032.10	4,469.36	4,460.74	1.15	1.05	-0.45
12,000.00	88.01	86.50	7,467.59	-1,031.29	4,482.62	4,474.01	1.33	1.28	-0.38
12,013.57	88.13	86.44	7,468.04	-1,030.46	4,496.15	4,487.55	0.99	0.88	-0.44
12,027.14	88.24	86.38	7,468.47	-1,029.61	4,509.69	4,501.09	0.92	0.81	-0.44
12,040.71	88.33	86.31	7,468.88	-1,028.75	4,523.23	4,514.64	0.84	0.66	-0.52
12,054.29	88.45	86.24	7,469.26	-1,027.86	4,536.77	4,528.19	1.02	0.88	-0.52
12,067.86	88.54	86.17	7,469.62	-1,026.97	4,550.31	4,541.73	0.84	0.66	-0.52
12,081.43	88.56	86.09	7,469.96	-1,026.05	4,563.84	4,555.27	0.61	0.15	-0.59
12,095.00	88.58	86.01	7,470.30	-1,025.12	4,577.38	4,568.81	0.61	0.15	-0.59
12,108.29	88.61	85.93	7,470.63	-1,024.18	4,590.63	4,582.07	0.64	0.23	-0.60
12,121.57	88.68	85.85	7,470.94	-1,023.23	4,603.87	4,595.32	0.80	0.53	-0.60
12,134.86	88.75	85.76	7,471.24	-1,022.26	4,617.12	4,608.58	0.86	0.53	-0.68
12,148.14	88.85	85.68	7,471.52	-1,021.27	4,630.36	4,621.83	0.96	0.75	-0.60
12,161.43	88.98	85.61	7,471.77	-1,020.26	4,643.61	4,635.09	1.11	0.98	-0.53
12,174.71	89.11	85.55	7,471.99	-1,019.23	4,656.85	4,648.33	1.08	0.98	-0.45
12,188.00	89.22	85.50	7,472.18	-1,018.20	4,670.10	4,661.59	0.91	0.83	-0.38



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

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)	
12,198.67	89.34	85.49	7,472.32	-1,017.36	4,680.73	4,672.23	1.13	1.12	-0.09	
12,200.05	89.35	85.49	7,472.33	-1,017.25	4,682.11	4,673.61	1.04	1.03	-0.09	
04-LTP(R-124H)										
12,200.55	89.36	85.49	7,472.34	-1,017.21	4,682.61	4,674.11	1.04	1.03	-0.09	
100'FEL: 12200.55' MD, 4674.11' VS, 7472.34' TVD										
12,209.33	89.45	85.48	7,472.43	-1,016.52	4,691.36	4,682.86	1.04	1.03	-0.09	
12,220.00	89.49	85.48	7,472.53	-1,015.68	4,702.00	4,693.51	0.37	0.37	0.00	
Final MWD Survey: 12220.00' MD, 89.49°INC, 85.48°AZ										
12,278.00	89.49	85.48	7,473.04	-1,011.11	4,759.81	4,751.36	0.00	0.00	0.00	
PTB: 12278.00' MD, 89.49°INC, 85.48°AZ - 03-v5000(R-124H) - 05-PBHL(R-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	
01-FTP(R-124H) - actual wellpath misses target center by 258.24usft at 7312.69usft MD (7149.74 TVD, -989.60 N, -154.79 E) - Point	0.00	0.00	7,342.00	-1,060.38	-311.98	596,547.15	590,889.62	32.63985352	-104.17235376	
04-LTP(R-124H) - actual wellpath misses target center by 27.62usft at 12200.05usft MD (7472.33 TVD, -1017.25 N, 4682.11 E) - Point	0.00	0.00	7,444.82	-1,019.64	4,682.61	596,587.89	595,884.21	32.63994365	-104.15612772	
05-PBHL(R-124H) - actual wellpath misses target center by 30.21usft at 12278.00usft MD (7473.04 TVD, -1011.11 N, 4759.81 E) - Point	0.00	0.00	7,446.80	-1,018.88	4,772.61	596,588.65	595,974.21	32.63994532	-104.15583533	

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
169.01	169.00	Rustler				
239.02	239.00	Top of Salt				
569.10	569.00	Base of Salt				
769.14	769.00	Yates				
2,126.03	2,109.00	Capitan				
2,908.85	2,869.00	DLWR Mnt. Group				
3,278.68	3,229.00	Lower Brushy Canyon				
3,482.77	3,429.00	Bone Spring Lime				
6,272.49	6,159.00	1st Bone Spring SD				
6,393.74	6,279.00	2nd Bone Spring LM				
7,366.91	7,182.00	2nd Bone Spring SD				



Survey Report

Company:	Colgate Energy	Local Co-ordinate Reference:	Well (04) Rincon 22 State 124H - Slot 04-R-124H
Project:	Eddy County, NM (N83-NME)	TVD Reference:	3397+22 @ 3419.00usft
Site:	Rincon 22 State	MD Reference:	3397+22 @ 3419.00usft
Well:	(04) Rincon 22 State 124H	North Reference:	Grid
Wellbore:	124H	Survey Calculation Method:	Minimum Curvature
Design:	124H	Database:	EDM 5000.14 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
6,870.00	6,753.82	-1,000.34	-318.98	KOP: 6870.00' MD, -327.17' VS, 6753.82' TVD
6,973.38	6,856.77	-1,000.91	-312.03	100'FWL: 6973.38' MD, -320.23' VS, 6856.77' TVD
7,952.00	7,355.95	-1,021.65	440.07	EOC: 7952.00' MD, 431.67' VS, 7355.95' TVD
12,200.55	7,472.34	-1,017.21	4,682.61	100'FEL: 12200.55' MD, 4674.11' VS, 7472.34' TVD
12,220.00	7,472.53	-1,015.68	4,702.00	Final MWD Survey: 12220.00' MD, 89.49°INC, 85.48°AZ
12,278.00	7,473.04	-1,011.11	4,759.81	PTB: 12278.00' MD, 89.49°INC, 85.48°AZ

Checked By: _____ Approved By: _____ Date: _____

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

ACKNOWLEDGMENTS

Action 118193

ACKNOWLEDGMENTS

Operator: COLGATE OPERATING, LLC 300 North Marienfeld Street Midland, TX 79701	OGRID: 371449
	Action Number: 118193
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☒	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☒	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

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CONDITIONS

Action 118193

CONDITIONS

Operator: COLGATE OPERATING, LLC 300 North Marienfeld Street Midland, TX 79701	OGRID: 371449
	Action Number: 118193
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	C-104RT only effective 7/1/2022 - 9/1/2022	6/22/2022