

Submit To Appropriate District Office Two Copies 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 and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised August 1, 2011								
		1. WELL API NO. 3001539164								
		2. Type of Lease ☒ STATE ☐ FEE ☐ FED/INDIAN								
		3. State Oil & Gas Lease No.								
WELL COMPLETION OR RECOMPLETION REPORT AND LOG										
4. Reason for filing: ☒ COMPLETION REPORT (Fill in boxes #1 through #31 for State and Fee wells only) ☐ C-144 CLOSURE ATTACHMENT (Fill in boxes #1 through #9, #15 Date Rig Released and #32 and/or #33; attach this and the plat to the C-144 closure report in accordance with 19.15.17.13.K NMAC)		5. Lease Name or Unit Agreement Name Parkway State 17 Com 6. Well Number: 005								
7. Type of Completion: ☒ NEW WELL ☐ WORKOVER ☐ DEEPENING ☐ PLUGBACK ☐ DIFFERENT RESERVOIR ☐ OTHER										
8. Name of Operator Cimarex Energy Co of Colorado		9. OGRID 162683								
10. Address of Operator 600 N. Marienfeld St., Ste 600; Midland, Tx 79701		11. Pool name or Wildcat Scanlon Draw; Bone Spring								
12. Location	Unit Ltr	Section	Township	Range	Lot	Feet from the	N/S Line	Feet from the	E/W Line	County
Surface:	D	17	19S	29E		900	North	330	West	Eddy
BH:	A	17	19S	29E		849	North	337	East	Eddy
13. Date Spudded 8/30/11	14. Date T.D. Reached 9/27/11	15. Date Rig Released 9/30/11		16. Date Completed (Ready to Produce) 10/29/11		17. Elevations (DF and RKB, RT, GR, etc.) 3377 GR				
18. Total Measured Depth of Well 12232' MD/ 7881' TVD		19. Plug Back Measured Depth 12176'		20. Was Directional Survey Made? Yes		21. Type Electric and Other Logs Run No logs run				
22. Producing Interval(s), of this completion - Top, Bottom, Name Bone Spring; 7692-12166'										
23. CASING RECORD (Report all strings set in well)										
CASING SIZE		WEIGHT LB./FT.		DEPTH SET		HOLE SIZE		CEMENTING RECORD		AMOUNT PULLED
13-3/8"		48		452		17-1/2"		741 sx Circ		0
9-5/8"		36		2518		12-3/4"		915 sx Circ		0
5-1/2"		17		12218		8-3/4"		2450 sx TOC 398'		
24. LINER RECORD										
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	25. TUBING RECORD					
					SIZE	DEPTH SET	PACKER SET			
					2-7/8	7414				
26. Perforation record (interval, size, and number) 7692-8402' (40 holes); 8656-9346' (40 holes); 9579-10286' (40 holes); 10519-11226' (40 holes); 11459-12166' (40 holes)					27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.					
DEPTH INTERVAL					AMOUNT AND KIND MATERIAL USED					
7692-8402					Frac w/ 240,660# sand & 139,493 gals total fluid					
8656-9346					Frac w/ 247,755# sand & 158,068 gals total fluid					
9579-10286					Frac w/ 239,130# sand & 226,428 gals total fluid					
28. PRODUCTION										
Date First Production 10/31/11		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping, ESP				Well Status (Prod. or Shut-in) Prod				
Date of Test 11/22/11	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 450	Gas - MCF 1623	Water - Bbl. 270	Gas - Oil Ratio 3606			
Flow Tubing Press. 380	Casing Pressure 200	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API - (Corr.) 40.0				
29. Disposition of Gas (Sold, used for fuel, vented, etc.) Sold					30. Test Witnessed By					
31. List Attachments C102, C103, deviation survey, directional survey, C144					RECEIVED JAN 25 2012 NMOCD ARTESIA					
32. If a temporary pit was used at the well, attach a plat with the location of the temporary pit.										
33. If an on-site burial was used at the well, report the exact location of the on-site burial:										
Latitude				Longitude				NAD 1927 1983		
I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief										
Signature		Printed Name		Title		Regulatory		Date 1/24/12		
E-mail Address: tstathem@cimarex.com		Terri Stathem								

71

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

OIL OR GAS SANDS OR ZONES

IMPORTANT WATER SANDS

1. 1, from.....to.....feet.....
 2. 2, from.....to.....feet.....
 3. 3, from.....to.....feet.....

From	To	Thickness In Feet	Lithology

Submit 3 Copies To Appropriate District
Office
District I
1623 N. French Dr , Hobbs, NM 88240
District II
1301 W Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd , Aztec, NM 87410
District IV
1220 S St. Francis Dr , Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
May 27, 2004

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

WELL API NO.

30-015-39164

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator

Cimarex Energy Co. of Colorado

3. Address of Operator

600 N. Marienfeld, Ste. 600; Midland, TX 79701

4. Well Location

SHL Unit Letter D : 900 feet from the North line and 330 feet from the West line
Section 17 Township 19S Range 29E NMPM County Eddy

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

3377 GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐

PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐

CHANGE PLANS ☐

PULL OR ALTER CASING ☐

MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐

ALTERING CASING ☐

COMMENCE DRILLING OPNS ☐

P AND A ☐

CASING/CEMENT JOB ☐

OTHER: ☐

Drill & Complete ☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Drilling:

8/30/11 Spud 17.5" hole.
8/31/11 TD 17.5" hole @ 460'. RIH w/ 13-3/8", H-40, 48# csg and set @ 460'. Cmt w/ Lead: 200 sx Thixotropic & 300 sx Extentendacem; Tail: 200 sx Halcem. TOC @ 213'. RIH w/ 1" to top off cement - Top off w/ 150 sx P+3%. Circ 21 sx to surface. WOC 12+ hrs.
9/6/11 TD 12-1/4" hole @ 2518'. RIH w/ 9-5/8", 36#, J55, LT&C csg & set @ 2518'. Cmt w/ 700 sx Econocem C and 215 sx P + C. Circ to surf. WOC 29+ hrs.
9/27/11 TD 8-3/4" hole @ 12232'.
9/29/11 RIH w/ 5.5", 17#, P110, LTC csg & set @ 12218'. Cmt w/ Lead: 1,100 sx Econocem; Tail: 1,350 sx Versacem. 160 sx circ to surf.
9/30/11 Release rig @ 02:00 hrs.

Completion:

10/5/11 Tag PBTD @ 12176'. TOC @ 398'.
10/6/11 RIH & perf Bone Springs @ 11457-12166', 40 holes. WO Frac.
10/13/11 Frac BS w/ 163,062 gals total fluid & 238,724# . RIH & set CBP @ 11343'. Perf 10519-11226', 40 holes. Frac perms w/ 171384 gals total fluid & 240634# sand. RIH & set CBP @ 10403'. Perf @ 9579-10286', 40 holes.
10/14/11 Frac perms w/ 226428 gals total fluid & 239130# sand. RIH & set CBP @ 9463'. Perf @ 8656-9346', 40 holes. Frac perms w/ 158068 total fluid & 247755# sand. RIH & set CBP @ 8402'. Perf @ 7692-8402', 40 holes. Frac perms w/ 139493 total fluid & 240660# sand.
10/18/11 Drill out plugs & CO to PBTD @ 12176'.
10/29/11 RIH w/ Reda pump & tbq set @ 7414'. Turn well to production.

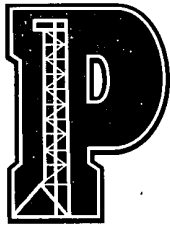
I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE TERRI STATHEM TITLE Regulatory DATE January 24, 2012

Type or print name TERRI STATHEM email address: tstatthem@cimarex.com Telephone No. 432-620-1936

For State Use Only

APPROVED BY: J. C. Shppard TITLE Geologist DATE 2/14/2012
Conditions of Approval (if any):



PATRIOT DRILLING, LLC

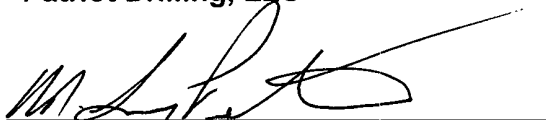
OPERATOR: Cimarex Energy Co.
WELL/LEASE: Parkway 17 State # 5H
COUNTY: Eddy Co., New Mexico
Sec. 17, T19S, R29E

30015-29164

**STATE OF NEW MEXICO
DEVIATION REPORT**

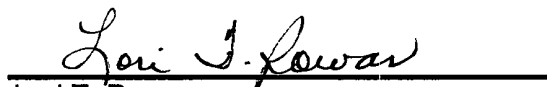
<u>Depth</u>	<u>Deviation</u>	<u>Depth</u>	<u>Deviation</u>
277	1	4,141	1
585	1	4,616	1
1,117	1	1,906	1
2,067	1	5,504	1
2,718	1	5,826	1
2,971	1	6,228	1
3,287	1	6,512	1
3,572	2	7,176	1
3,825	2		

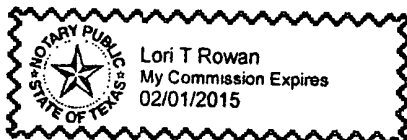
Patriot Drilling, LLC


M. Leroy Peterson, Executive Vice-
President

The foregoing instrument was acknowledged before me on this 3rd day of October, 2011 by M. Leroy Peterson, Executive Vice-President of Patriot Drilling, LLC.

My Commission Expires: 02/01/2015


Lori T. Rowan
Notary Public for Ector Co., Texas



30.015.39164

End Of Well Report



INTEQ

End of Well Report

Cimarex Energy Co.

Eddy County, NM

Parkway State 17 Com No. 5H

Patriot 4

Well Specifications

Well Name: Parkway State 17 Com No. 5H
Start Date: 9/17/2011
Client: Cimarex Energy Co.
Rig Name: Patriot 4
County: Eddy County, NM
Field: Parkway Sec 15, T19S, R29E

Well Location:

NAD83 / TM New Mexico State Planes, Eastern Zone (3001)

Grid Coordinates

Easting: 611761.50'
Northing: 605972.40'

Geographical Coordinates

Latitude: 32°39'56.360"N
Longitude: 104°06'15.740"W

RT: 3,398' above M.S.L.

Date TD Reached: 9/28/2011

Final Depth MD: 12,232'

Final Depth TVD: 7,881.10'



Cimarex Energy Co.

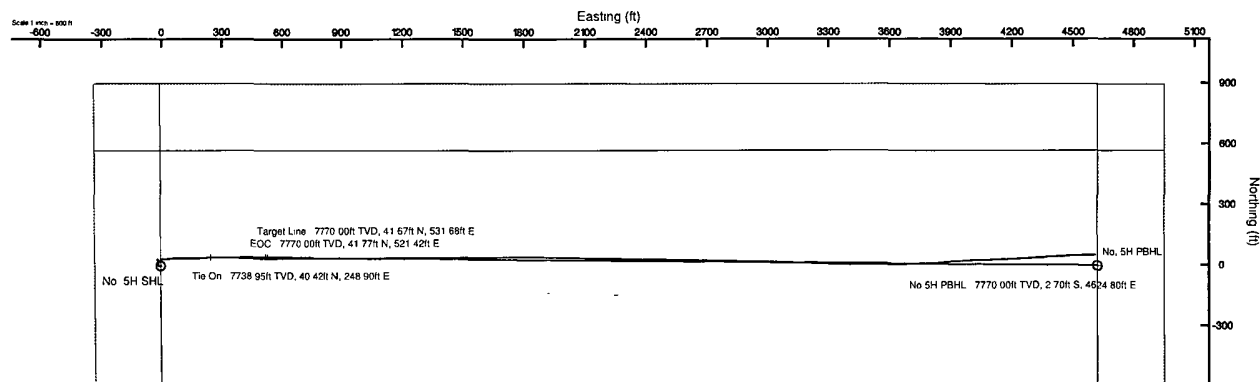
Location Eddy County, NM
Field (Parkway) Sec 17, T19S, R29E
Facility Parkway State 17 Com No 4H

Slot No. 5H SHL
Well No. 5H
Wellbore No. 5H PWB

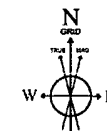


Well Profile Data

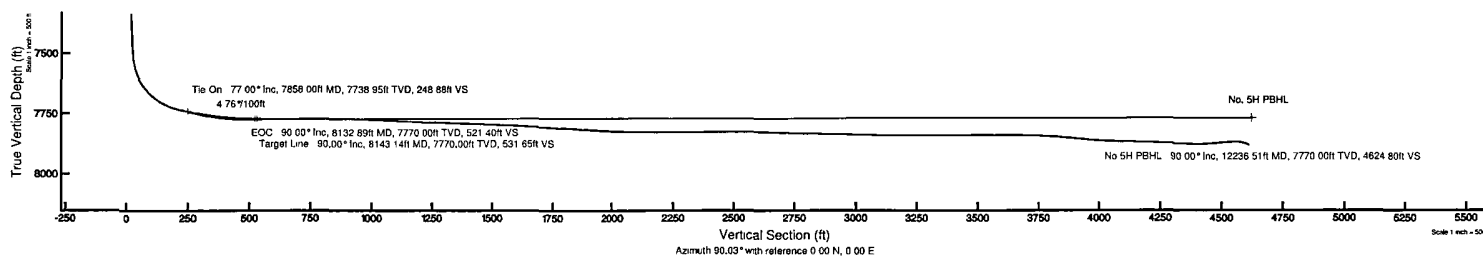
Design Comment	MD (ft)	Inc (°)	Az (°)	TVD (ft)	Local N (ft)	Local E (ft)	DLS (°/100ft)	VS (ft)
Tie On	7858.00	77.000	89.000	7738.95	40.42	248.90	0.00	248.88
EOC	8132.89	90.000	90.416	7770.00	41.77	521.42	4.76	521.40
Target Line	8143.14	90.000	90.621	7770.00	41.67	531.68	2.00	531.65
No.5H PBHL	12236.51	90.000	90.621	7770.00	-2.70	4624.80	0.00	4624.80



Plot reference wellpath is Plan #2	
True vertical depths are referenced to Rig on No. 5H SHL (KB)	Grid System NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet
Measured depths are referenced to Rig on No. 5H SHL (KB)	North Reference Grid north
Rig on No. 5H SHL (KB) to Mean Sea Level 3398 feet	Scale True distance
Mean Sea Level to Mud line (At Slot No. 5H SHL) 0 feet	Depths are in feet
Coordinates are in feet referenced to Slot	Created by gentibry on 9/20/2011



BGGM (1945 0 to 2012 0) Dip 60.50° Field 48866.3 nT
Magnetic North is 7.92 degrees East of True North (at 6/28/2011)
Grid North is 0.12 degrees East of True North
To correct azimuth from True to Grid subtract 0.12 degrees
To correct azimuth from Magnetic to Grid add 7.79 degrees
For example if the Magnetic North Azimuth = 90 degs then the Grid North Azimuth = 90 + 7.79 = 97.79





Actual Wellpath Report

No.5H AWP

Page 1 of 5



REFERENCE WELLPATH IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 5H SHL
Area	Eddy County, NM	Well	No. 5H
Field	(Parkway) Sec 17, T19S, R29E	Wellbore	No.5H AWB
Facility	Parkway State 17 Com No.4H		

REPORT SETUP INFORMATION

Projection System	NAD83 / TM New Mexico SP, Eastern Zone (3001), US feet	Software System	WellArchitect® 3.0.0
North Reference	Grid	User	Gentbry
Scale	0.999915	Report Generated	9/28/2011 at 7:48:11 AM
Convergence at slot	0.12° East	Database/Source file	WA Midland/No.5H_AWB.xml

WELLPATH LOCATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[US ft]	Northing[US ft]	Latitude	Longitude
Slot Location	3713.06	-41.75	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W
Facility Reference Pt			611803.25	602259.66	32°39'19.620"N	104°06'15.740"W
Field Reference Pt			611803.25	602259.66	32°39'19.620"N	104°06'15.740"W

WELLPATH DATUM

Calculation method	Minimum curvature	Rig on No. 5H SHL (KB) to GL	3398.00ft
Horizontal Reference Pt	Slot	Rig on No. 5H SHL (KB) to Mean Sea Level	3398.00ft
Vertical Reference Pt	Rig on No. 5H SHL (KB)	Rig on No. 5H SHL (KB) to Mud Line at Slot (No. 5H SHL)	3398.00ft
MD Reference Pt	Rig on No. 5H SHL (KB)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	90.03°



Actual Wellpath Report

No.5H AWP

Page 2 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5H SHL
Area	Eddy County, NM	Well	No. 5H
Field	(Parkway) Sec 17, T19S, R29E	Wellbore	No.5H AWB
Facility	Parkway State 17 Com No.4H		

WELLPATH DATA (145 stations) † = interpolated/extrapolated station												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
0.00†	0.000	3.600	0.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
21.00	0.000	3.600	21.00	0.00	0.00	0.00	611761.50	605972.40	32°39'56.360"N	104°06'16.135"W	0.00	
100.00	0.070	3.600	100.00	0.00	0.05	0.00	611761.50	605972.45	32°39'56.360"N	104°06'16.135"W	0.09	
200.00	0.250	100.810	200.00	0.22	0.07	0.22	611761.72	605972.47	32°39'56.360"N	104°06'16.132"W	0.27	
300.00	0.110	111.760	300.00	0.52	-0.01	0.52	611762.02	605972.39	32°39'56.359"N	104°06'16.129"W	0.14	
400.00	0.070	16.270	400.00	0.63	0.01	0.63	611762.13	605972.41	32°39'56.360"N	104°06'16.127"W	0.14	
500.00	0.260	97.600	500.00	0.87	0.04	0.87	611762.37	605972.44	32°39'56.360"N	104°06'16.124"W	0.26	
600.00	0.480	63.620	600.00	1.47	0.20	1.47	611762.97	605972.60	32°39'56.361"N	104°06'16.117"W	0.30	
700.00	0.700	68.890	699.99	2.42	0.61	2.42	611763.92	605973.01	32°39'56.365"N	104°06'16.106"W	0.23	
802.00	0.720	68.340	801.98	3.59	1.07	3.60	611765.09	605973.47	32°39'56.370"N	104°06'16.093"W	0.02	
897.00	0.560	59.810	896.98	4.55	1.52	4.55	611766.05	605973.92	32°39'56.375"N	104°06'16.081"W	0.20	
992.00	0.290	20.890	991.97	5.04	1.98	5.04	611766.54	605974.38	32°39'56.379"N	104°06'16.076"W	0.40	
1087.00	0.230	296.580	1086.97	4.95	2.29	4.95	611766.45	605974.69	32°39'56.382"N	104°06'16.077"W	0.37	
1181.00	0.650	273.340	1180.97	4.25	2.40	4.25	611765.75	605974.80	32°39'56.383"N	104°06'16.085"W	0.48	
1276.00	0.960	265.960	1275.96	2.92	2.38	2.92	611764.42	605974.78	32°39'56.383"N	104°06'16.100"W	0.34	
1371.00	0.960	256.300	1370.95	1.35	2.13	1.35	611762.85	605974.53	32°39'56.381"N	104°06'16.119"W	0.17	
1466.00	0.870	239.110	1465.94	-0.04	1.58	-0.04	611761.46	605973.98	32°39'56.375"N	104°06'16.135"W	0.30	
1560.00	0.930	245.410	1559.93	-1.35	0.89	-1.34	611760.16	605973.29	32°39'56.368"N	104°06'16.150"W	0.12	
1655.00	0.760	241.800	1654.91	-2.60	0.27	-2.60	611758.90	605972.67	32°39'56.362"N	104°06'16.165"W	0.19	
1750.00	0.660	247.440	1749.91	-3.66	-0.23	-3.66	611757.84	605972.17	32°39'56.357"N	104°06'16.178"W	0.13	
1845.00	0.720	256.330	1844.90	-4.75	-0.59	-4.75	611756.75	605971.81	32°39'56.354"N	104°06'16.190"W	0.13	
1940.00	0.680	266.730	1939.89	-5.89	-0.76	-5.89	611755.61	605971.64	32°39'56.352"N	104°06'16.204"W	0.14	
2035.00	0.650	294.700	2034.89	-6.94	-0.57	-6.94	611754.56	605971.83	32°39'56.354"N	104°06'16.216"W	0.34	
2130.00	0.660	295.040	2129.88	-7.93	-0.11	-7.93	611753.57	605972.29	32°39'56.359"N	104°06'16.227"W	0.01	
2224.00	0.630	292.640	2223.88	-8.89	0.32	-8.89	611752.61	605972.72	32°39'56.363"N	104°06'16.239"W	0.04	
2319.00	0.680	300.550	2318.87	-9.86	0.81	-9.86	611751.64	605973.21	32°39'56.368"N	104°06'16.250"W	0.11	
2414.00	0.690	297.990	2413.86	-10.85	1.36	-10.85	611750.65	605973.76	32°39'56.373"N	104°06'16.262"W	0.03	
2508.00	0.510	298.600	2507.86	-11.72	1.83	-11.72	611749.78	605974.23	32°39'56.378"N	104°06'16.272"W	0.19	
2603.00	0.410	304.490	2602.85	-12.37	2.22	-12.37	611749.13	605974.62	32°39'56.382"N	104°06'16.279"W	0.12	
2698.00	0.370	305.300	2697.85	-12.90	2.59	-12.90	611748.60	605974.99	32°39'56.385"N	104°06'16.286"W	0.04	
2793.00	0.350	299.110	2792.85	-13.41	2.91	-13.41	611748.10	605975.31	32°39'56.389"N	104°06'16.291"W	0.05	
2887.00	0.220	263.410	2886.85	-13.84	3.03	-13.84	611747.67	605975.43	32°39'56.390"N	104°06'16.296"W	0.23	
2982.00	0.110	259.120	2981.85	-14.11	2.99	-14.11	611747.39	605975.39	32°39'56.389"N	104°06'16.300"W	0.12	
3077.00	0.150	206.800	3076.85	-14.25	2.86	-14.25	611747.25	605975.26	32°39'56.388"N	104°06'16.301"W	0.13	
3172.00	0.210	188.100	3171.85	-14.33	2.58	-14.33	611747.17	605974.98	32°39'56.385"N	104°06'16.302"W	0.09	
3267.00	0.110	169.570	3266.85	-14.34	2.32	-14.34	611747.16	605974.72	32°39'56.383"N	104°06'16.302"W	0.12	
3361.00	0.080	67.870	3360.85	-14.26	2.25	-14.26	611747.24	605974.65	32°39'56.382"N	104°06'16.301"W	0.16	
3456.00	0.250	43.870	3455.85	-14.06	2.43	-14.06	611747.44	605974.83	32°39'56.384"N	104°06'16.299"W	0.19	
3551.00	0.560	7.240	3550.84	-13.86	3.04	-13.86	611747.64	605975.44	32°39'56.390"N	104°06'16.297"W	0.41	
3646.00	1.550	6.020	3645.83	-13.67	4.78	-13.66	611747.84	605977.18	32°39'56.407"N	104°06'16.294"W	1.04	
3741.00	2.230	13.580	3740.78	-13.10	7.85	-13.09	611748.41	605980.25	32°39'56.438"N	104°06'16.288"W	0.76	
3836.00	2.140	16.860	3835.71	-12.15	11.35	-12.15	611749.36	605983.74	32°39'56.472"N	104°06'16.276"W	0.16	
3931.00	1.860	8.490	3930.65	-11.41	14.57	-11.40	611750.10	605986.97	32°39'56.504"N	104°06'16.268"W	0.43	
4026.00	1.640	2.790	4025.60	-11.12	17.45	-11.11	611750.39	605989.85	32°39'56.532"N	104°06'16.264"W	0.30	
4121.00	1.560	354.960	4120.57	-11.17	20.10	-11.16	611750.34	605992.49	32°39'56.559"N	104°06'16.265"W	0.24	



Actual Wellpath Report

No.5H AWP

Page 3 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5H SHL
Area	Eddy County, NM	Well	No. 5H
Field	(Parkway) Sec 17, T19S, R29E	Wellbore	No.5H AWB
Facility	Parkway State 17 Com No.4H		

WELLPATH DATA (145 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4216.00	1.400	353.430	4215.54	-11.42	22.54	-11.40	611750.10	605994.94	32°39'56.583"N	104°06'16.268"W	0.17	
4312.00	1.150	348.240	4311.51	-11.75	24.65	-11.73	611749.77	605997.04	32°39'56.604"N	104°06'16.271"W	0.29	
4407.00	1.130	349.070	4406.49	-12.12	26.50	-12.11	611749.39	605998.90	32°39'56.622"N	104°06'16.276"W	0.03	
4502.00	1.000	348.120	4501.48	-12.47	28.23	-12.45	611749.05	606000.63	32°39'56.639"N	104°06'16.280"W	0.14	
4597.00	0.770	324.030	4596.47	-13.02	29.56	-13.00	611748.50	606001.95	32°39'56.652"N	104°06'16.286"W	0.46	
4691.00	0.720	314.280	4690.46	-13.81	30.48	-13.79	611747.71	606002.88	32°39'56.661"N	104°06'16.295"W	0.14	
4786.00	0.680	288.430	4785.45	-14.77	31.08	-14.76	611746.74	606003.47	32°39'56.667"N	104°06'16.307"W	0.33	
4881.00	0.630	283.100	4880.44	-15.82	31.37	-15.80	611745.70	606003.77	32°39'56.670"N	104°06'16.319"W	0.08	
4976.00	0.680	308.990	4975.44	-16.77	31.85	-16.75	611744.75	606004.24	32°39'56.675"N	104°06'16.330"W	0.31	
5071.00	0.800	314.230	5070.43	-17.68	32.66	-17.66	611743.84	606005.06	32°39'56.683"N	104°06'16.340"W	0.14	
5165.00	0.770	309.640	5164.42	-18.64	33.52	-18.62	611742.88	606005.92	32°39'56.692"N	104°06'16.352"W	0.07	
5260.00	0.380	305.460	5259.42	-19.38	34.11	-19.36	611742.14	606006.51	32°39'56.698"N	104°06'16.360"W	0.41	
5355.00	0.320	126.400	5354.42	-19.43	34.14	-19.41	611742.09	606006.54	32°39'56.698"N	104°06'16.361"W	0.74	
5450.00	0.950	121.790	5449.41	-18.54	33.57	-18.52	611742.98	606005.96	32°39'56.692"N	104°06'16.351"W	0.66	
5545.00	1.710	122.430	5544.38	-16.68	32.39	-16.66	611744.84	606004.79	32°39'56.680"N	104°06'16.329"W	0.80	
5639.00	3.100	124.570	5638.30	-13.40	30.20	-13.38	611748.12	606002.59	32°39'56.659"N	104°06'16.290"W	1.48	
5735.00	2.770	126.740	5734.17	-9.40	27.34	-9.39	611752.11	605999.73	32°39'56.630"N	104°06'16.244"W	0.36	
5830.00	1.950	132.940	5829.09	-6.38	24.86	-6.36	611755.14	605997.26	32°39'56.606"N	104°06'16.208"W	0.90	
5924.00	1.440	127.220	5923.05	-4.27	23.06	-4.25	611757.25	605995.46	32°39'56.588"N	104°06'16.184"W	0.57	
6019.00	0.910	117.480	6018.03	-2.64	21.99	-2.63	611758.87	605994.39	32°39'56.577"N	104°06'16.165"W	0.59	
6114.00	0.510	99.650	6113.02	-1.56	21.57	-1.55	611759.95	605993.97	32°39'56.573"N	104°06'16.152"W	0.48	
6208.00	0.400	22.010	6207.02	-1.02	21.80	-1.01	611760.49	605994.20	32°39'56.575"N	104°06'16.146"W	0.61	
6303.00	0.650	5.880	6302.02	-0.84	22.65	-0.83	611760.67	605995.04	32°39'56.584"N	104°06'16.144"W	0.30	
6398.00	0.850	17.960	6397.01	-0.57	23.85	-0.56	611760.94	605996.25	32°39'56.596"N	104°06'16.141"W	0.27	
6493.00	1.470	16.070	6491.99	-0.02	25.69	0.00	611761.50	605998.09	32°39'56.614"N	104°06'16.134"W	0.65	
6588.00	1.500	29.850	6586.96	0.94	27.94	0.95	611762.45	606000.34	32°39'56.636"N	104°06'16.123"W	0.38	
6683.00	1.680	45.490	6681.92	2.55	30.00	2.56	611764.06	606002.40	32°39'56.656"N	104°06'16.104"W	0.49	
6778.00	1.750	56.290	6776.88	4.75	31.78	4.76	611766.26	606004.18	32°39'56.674"N	104°06'16.078"W	0.35	
6873.00	1.590	59.750	6871.84	7.09	33.25	7.11	611768.61	606005.65	32°39'56.688"N	104°06'16.051"W	0.20	
6968.00	1.180	59.890	6966.81	9.07	34.40	9.09	611770.59	606006.80	32°39'56.700"N	104°06'16.027"W	0.43	
7063.00	0.910	63.670	7061.79	10.60	35.23	10.62	611772.12	606007.63	32°39'56.708"N	104°06'16.010"W	0.29	
7158.00	0.880	94.480	7156.78	12.00	35.51	12.02	611773.52	606007.90	32°39'56.711"N	104°06'15.993"W	0.50	
7253.00	1.680	106.180	7251.76	14.06	35.06	14.08	611775.58	606007.46	32°39'56.706"N	104°06'15.969"W	0.88	
7348.00	2.720	106.240	7346.69	17.57	34.04	17.59	611779.08	606006.44	32°39'56.696"N	104°06'15.928"W	1.09	
7443.00	1.590	104.370	7441.62	21.01	33.09	21.03	611782.53	606005.48	32°39'56.686"N	104°06'15.888"W	1.19	
7522.00	6.600	83.500	7520.39	26.58	33.33	26.60	611788.10	606005.72	32°39'56.689"N	104°06'15.823"W	6.51	
7554.00	14.100	83.500	7551.85	32.29	33.98	32.31	611793.81	606006.37	32°39'56.695"N	104°06'15.756"W	23.44	
7586.00	21.500	82.500	7582.30	41.99	35.19	42.01	611803.51	606007.58	32°39'56.707"N	104°06'15.642"W	23.14	
7617.00	28.800	84.200	7610.34	55.07	36.68	55.09	611816.59	606009.08	32°39'56.721"N	104°06'15.489"W	23.66	
7649.00	36.400	86.400	7637.28	72.24	38.06	72.26	611833.75	606010.46	32°39'56.735"N	104°06'15.288"W	24.03	
7680.00	43.800	89.100	7660.98	92.17	38.81	92.20	611853.69	606011.21	32°39'56.742"N	104°06'15.055"W	24.52	
7712.00	51.200	90.200	7682.58	115.75	38.94	115.77	611877.26	606011.34	32°39'56.742"N	104°06'14.779"W	23.26	
7744.00	58.900	90.500	7700.90	141.96	38.78	141.98	611903.47	606011.17	32°39'56.740"N	104°06'14.473"W	24.07	
7775.00	66.800	89.300	7715.04	169.52	38.83	169.54	611931.03	606011.23	32°39'56.740"N	104°06'14.150"W	25.71	
7807.00	73.400	88.600	7725.92	199.59	39.39	199.61	611961.09	606011.79	32°39'56.745"N	104°06'13.799"W	20.73	



Actual Wellpath Report

No.5H AWP

Page 4 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5H SHL
Area	Eddy County, NM	Well	No. 5H
Field	(Parkway) Sec 17, T19S, R29E	Wellbore	No.5H AWB
Facility	Parkway State 17 Com No.4H		

WELLPATH DATA (145 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
7839.00	75.700	88.800	7734.45	230.42	40.09	230.44	611991.92	606012.49	32°39'56.751"N	104°06'13.438"W	7.21	
7870.00	76.400	89.400	7741.92	260.50	40.56	260.53	612022.00	606012.96	32°39'56.755"N	104°06'13.086"W	2.94	
7902.00	77.400	89.600	7749.17	291.67	40.83	291.69	612053.17	606013.23	32°39'56.757"N	104°06'12.722"W	3.18	
7934.00	78.600	89.900	7755.82	322.97	40.97	322.99	612084.46	606013.37	32°39'56.758"N	104°06'12.355"W	3.86	
7965.00	81.100	90.300	7761.29	353.48	40.92	353.50	612114.97	606013.31	32°39'56.757"N	104°06'11.999"W	8.16	
7997.00	82.900	91.400	7765.74	385.16	40.44	385.19	612146.65	606012.84	32°39'56.751"N	104°06'11.628"W	6.57	
8029.00	85.500	92.000	7768.97	416.98	39.50	417.01	612178.47	606011.90	32°39'56.741"N	104°06'11.256"W	8.34	
8060.00	87.700	91.700	7770.81	447.91	38.50	447.93	612209.39	606010.90	32°39'56.731"N	104°06'10.894"W	7.16	
8092.00	90.300	91.500	7771.37	479.89	37.61	479.91	612241.37	606010.00	32°39'56.721"N	104°06'10.520"W	8.15	
8124.00	90.500	91.200	7771.15	511.88	36.85	511.90	612273.36	606009.25	32°39'56.713"N	104°06'10.146"W	1.13	
8155.00	90.600	90.500	7770.85	542.88	36.39	542.90	612304.35	606008.79	32°39'56.708"N	104°06'09.783"W	2.28	
8186.00	90.300	89.700	7770.61	573.88	36.34	573.90	612335.35	606008.74	32°39'56.707"N	104°06'09.421"W	2.76	
8281.00	90.700	89.600	7769.78	668.87	36.92	668.89	612430.33	606009.32	32°39'56.711"N	104°06'08.309"W	0.43	
8376.00	90.900	89.500	7768.45	763.86	37.67	763.88	612525.31	606010.06	32°39'56.716"N	104°06'07.198"W	0.24	
8471.00	89.600	90.100	7768.04	858.85	38.00	858.88	612620.30	606010.39	32°39'56.717"N	104°06'06.087"W	1.51	
8566.00	87.700	90.000	7770.27	953.82	37.92	953.84	612715.26	606010.31	32°39'56.714"N	104°06'04.976"W	2.00	
8660.00	87.400	89.600	7774.29	1047.73	38.24	1047.76	612809.17	606010.64	32°39'56.715"N	104°06'03.878"W	0.53	
8755.00	87.200	89.500	7778.77	1142.63	38.99	1142.65	612904.05	606011.38	32°39'56.721"N	104°06'02.768"W	0.24	
8850.00	87.900	90.300	7782.83	1237.54	39.15	1237.56	612998.95	606011.55	32°39'56.720"N	104°06'01.657"W	1.12	
8945.00	87.900	90.100	7786.31	1332.47	38.82	1332.50	613093.88	606011.22	32°39'56.715"N	104°06'00.547"W	0.21	
9040.00	88.300	89.500	7789.46	1427.42	39.15	1427.44	613188.82	606011.55	32°39'56.716"N	104°05'59.436"W	0.76	
9135.00	86.800	89.900	7793.52	1522.33	39.65	1522.35	613283.72	606012.05	32°39'56.719"N	104°05'58.326"W	1.63	
9230.00	87.100	89.200	7798.58	1617.19	40.40	1617.21	613378.57	606012.79	32°39'56.724"N	104°05'57.216"W	0.80	
9326.00	86.400	90.300	7804.02	1713.03	40.81	1713.06	613474.41	606013.21	32°39'56.726"N	104°05'56.095"W	1.36	
9420.00	86.100	89.700	7810.17	1806.83	40.81	1806.85	613568.20	606013.21	32°39'56.724"N	104°05'54.998"W	0.71	
9515.00	86.100	91.000	7816.63	1901.61	40.24	1901.63	613662.96	606012.63	32°39'56.717"N	104°05'53.889"W	1.37	
9610.00	87.500	91.100	7821.93	1996.44	38.50	1996.46	613757.79	606010.89	32°39'56.697"N	104°05'52.780"W	1.48	
9706.00	89.300	91.100	7824.61	2092.38	36.66	2092.41	613853.72	606009.05	32°39'56.677"N	104°05'51.658"W	1.87	
9801.00	89.800	91.600	7825.36	2187.35	34.42	2187.38	613948.68	606006.81	32°39'56.653"N	104°05'50.547"W	0.74	
9895.00	90.300	91.100	7825.28	2281.33	32.20	2281.35	614042.65	606004.60	32°39'56.629"N	104°05'49.448"W	0.75	
9990.00	90.800	90.400	7824.36	2376.32	30.96	2376.34	614137.63	606003.36	32°39'56.614"N	104°05'48.337"W	0.91	
10085.00	89.600	91.000	7824.03	2471.31	29.80	2471.33	614232.61	606002.20	32°39'56.601"N	104°05'47.225"W	1.41	
10180.00	89.700	90.900	7824.61	2566.29	28.22	2566.31	614327.59	606000.62	32°39'56.583"N	104°05'46.114"W	0.15	
10275.00	87.900	91.500	7826.60	2661.25	26.23	2661.26	614422.53	605998.63	32°39'56.561"N	104°05'45.004"W	2.00	
10369.00	88.100	91.200	7829.88	2755.17	24.02	2755.18	614516.44	605996.42	32°39'56.537"N	104°05'43.905"W	0.38	
10464.00	88.000	91.000	7833.12	2850.09	22.20	2850.11	614611.36	605994.60	32°39'56.517"N	104°05'42.795"W	0.24	
10559.00	88.200	90.800	7836.26	2945.03	20.71	2945.04	614706.29	605993.11	32°39'56.500"N	104°05'41.684"W	0.30	
10654.00	88.500	92.400	7839.00	3039.95	18.06	3039.96	614801.20	605990.45	32°39'56.472"N	104°05'40.574"W	1.71	
10748.00	89.500	92.200	7840.64	3133.86	14.28	3133.87	614895.10	605986.68	32°39'56.433"N	104°05'39.476"W	1.08	
10843.00	90.300	92.300	7840.81	3228.79	10.55	3228.80	614990.02	605982.95	32°39'56.394"N	104°05'38.365"W	0.85	
10938.00	90.100	91.700	7840.48	3323.74	7.24	3323.74	615084.95	605979.64	32°39'56.359"N	104°05'37.255"W	0.67	
11033.00	90.200	90.800	7840.23	3418.71	5.17	3418.72	615179.92	605977.57	32°39'56.336"N	104°05'36.144"W	0.95	
11127.00	90.300	90.400	7839.82	3512.71	4.18	3512.71	615273.90	605976.58	32°39'56.324"N	104°05'35.045"W	0.44	
11222.00	90.100	89.200	7839.48	3607.70	4.51	3607.71	615368.89	605976.91	32°39'56.325"N	104°05'33.933"W	1.28	
11317.00	88.500	88.500	7840.65	3702.67	6.42	3702.68	615463.85	605978.82	32°39'56.342"N	104°05'32.822"W	1.84	



Actual Wellpath Report

No.5H AWP

Page 5 of 5



REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 5H SHL
Area	Eddy County, NM	Well	No. 5H
Field	(Parkway) Sec 17, T19S, R29E	Wellbore	No.5H AWB
Facility	Parkway State 17 Com No.4H		

WELLPATH DATA (145 stations)												
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	DLS [°/100ft]	Comments
11412.00	86.900	87.600	7844.46	3797.54	9.65	3797.54	615558.71	605982.05	32°39'56.372"N	104°05'31.713"W	1.93	
11507.00	83.700	85.700	7852.24	3892.03	15.18	3892.04	615653.20	605987.58	32°39'56.424"N	104°05'30.607"W	3.91	
11601.00	85.300	86.700	7861.25	3985.39	21.38	3985.40	615746.55	605993.78	32°39'56.484"N	104°05'29.515"W	2.00	
11696.00	88.800	88.300	7866.14	4080.15	25.51	4080.17	615841.31	605997.91	32°39'56.522"N	104°05'28.406"W	4.05	
11791.00	88.200	87.700	7868.63	4175.06	28.83	4175.08	615936.21	606001.22	32°39'56.553"N	104°05'27.296"W	0.89	
11886.00	87.100	86.800	7872.52	4269.86	33.38	4269.88	616031.01	606005.78	32°39'56.596"N	104°05'26.187"W	1.50	
11981.00	87.000	86.200	7877.41	4364.56	39.17	4364.58	616125.70	606011.57	32°39'56.651"N	104°05'25.079"W	0.64	
12076.00	95.000	87.300	7875.75	4459.31	44.55	4459.34	616220.45	606016.95	32°39'56.702"N	104°05'23.970"W	8.50	
12170.00	94.000	87.800	7868.38	4552.93	48.56	4552.96	616314.06	606020.96	32°39'56.740"N	104°05'22.875"W	1.19	
12232.00	62.000	87.800	7881.10	4612.74	50.86	4612.77	616373.87	606023.25	32°39'56.761"N	104°05'22.175"W	51.61	Proj to Bit

TARGETS									
Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [US ft]	Grid North [US ft]	Latitude	Longitude	Shape
No. 5H PBHL		7770.00	-2.70	4624.80	616385.90	605969.70	32°39'56.231"N	104°05'22.036"W	point

WELLPATH COMPOSITION - Ref Wellbore: No.5H AWB - Ref Wellpath: No.5H AWP				
Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
21.00	7063.00	Generic gyro - northseeking (Standard)	GyroData Gyro <100-7443>	No.5H AWB
7063.00	12232.00	NaviTrak (Standard)	MWD NaviTrak <7158-XXXX>	No.5H AWB

4.3 Bottom Hole Assembly

**Parkway State 17 Com #5
Attachment to C-105
Eddy County, NM
30015-39164**

Additional Frac Information:

10519-11226' — Frac w/240,634 lbs sand & 171,384 gals total fluid

11459-12166' - Frac w/238,724 lbs sand & 163,062 gals total fluid

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
501 W. Grand Avenue, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised July 10, 2010
Submit one copy to appropriate
District Office

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 3001539164	Pool Code 55510	Pool Name Scanlon Draw; Bone Spring
Property Code 21729	Property Name PARKWAY "17" STATE	Well Number 5H
OGRID No. 162683	Operator Name CIMAREX ENERGY CO. OF COLORADO	Elevation 3377'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	17	19 S	29 E		900	NORTH	330	WEST	EDDY

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
A	17	19 S	29 E		849	NORTH	337	EAST	EDDY
Dedicated Acres 160	Joint or Infill	Consolidation Code P	Order No.						

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

SURFACE LOCATION Lat - N 32°39'56.36" Long - W 104°06'16.14" NMSPCE- N 605972.4 E 611761.5 (NAD-83) SHL 900 FNL & 330 FWL BHL 849 FNL & 337 FEL		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. <i>[Signature]</i> Signature 1/24/2012 Date Terri Stathem Printed Name tstathem@cimarex.com Email Address 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 to be true and correct to the best of my belief. <i>[Signature]</i> Date Surveyed Signature & Seal of Professional Surveyor W.O. Jones Certificate No. Gary L. Jones 7977 BASIN SURVEYS 24746
---	--	---