

30-015-38275



Cimarex Energy Co.

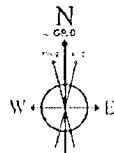
Location: Eddy County, NM
Field: (Exxon) Sec 25, R19S, R28E
Facility: Exxon State No. 3H

Slot: No. 3H SHL
Well: No. 3H
Wellbore: No. 3H PWB

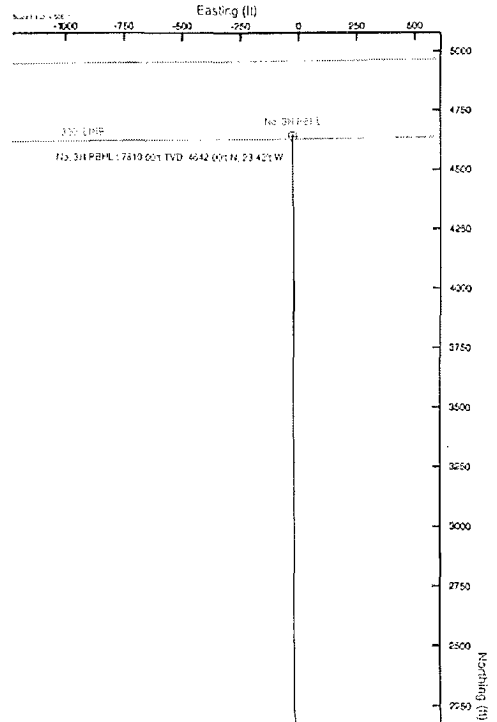


Well Profile Data

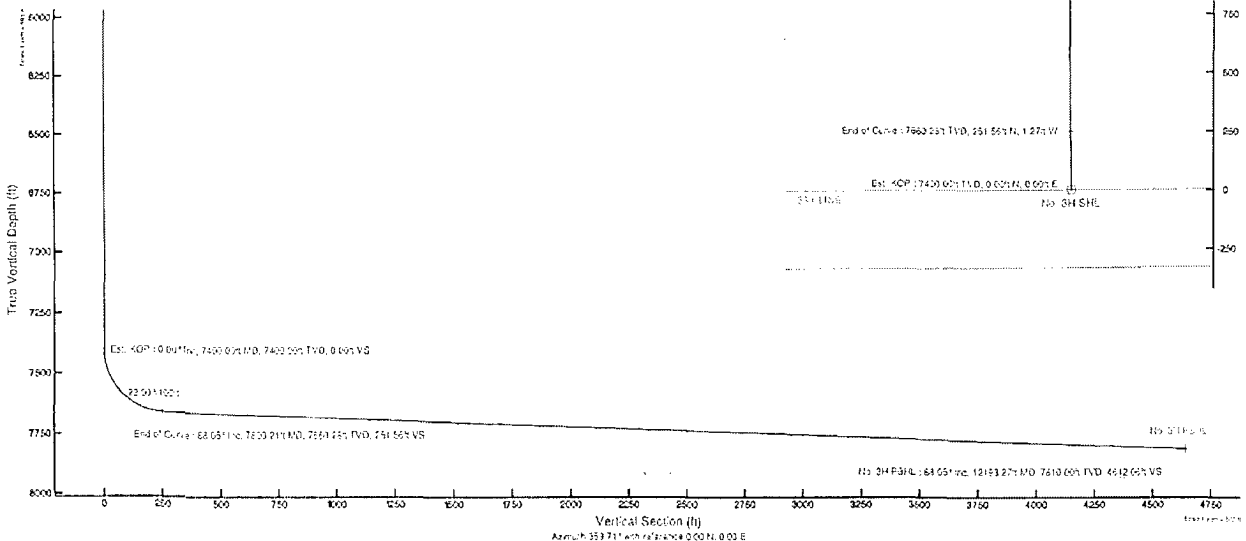
Design Convention	MD (ft)	Sec (ft)	Az (°)	TVD (ft)	Local H (ft)	Local E (ft)	GLS (ft) (25)	VS (ft)
Le On	0.00	0.000	359.711	0.00	0.00	0.00	0.00	0.00
Est ROP	7500.00	0.190	359.711	7499.99	0.00	0.00	0.00	0.00
End of Curve	7620.21	68.047	359.711	7660.23	251.56	1.27	22.60	251.56
No. 3H PWB	12193.27	68.047	359.711	7810.03	4512.05	214.2	0.00	4512.05



BGM (1945.0 to 2011.0) On 60.49° Field 45321.6 m
Magnetic North is 7.93 degrees East of True North (at 11/17/2010)
Grid North is 0.11 degrees East of True North
To convert azimuth from True to Grid: subtract 0.11 degrees
To convert azimuth from Magnetic to Grid: add 7.87 degrees
For example, if the Magnetic North Azimuth = 60 degs, then the Grid North Azimuth = 60 + 7.87 = 67.87



Well Name: No. 3H PWB	Well Type: Production
Well Status: Active	Well Depth: 7810.03 TVD
Well Orientation: 359.711°	Well Completion: Open Hole
Well Location: Sec 25, R19S, R28E	Well Production: 0.00 bbl/d
Well Operator: Cimarex Energy Co.	Well Completion Date: 11/17/2010





Planned Wellpath Report

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INTEQ

REFERENCE AND IDENTIFICATION

Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(Exxon) Sec 25, R19S, R28E	Wellbore	No. 3H PWB
Facility	Exxon State No. 3H		

PROJECTION SYSTEM INFORMATION

Projection System	NAD83 / TM New Mexico State Planes, Eastern Zone (3001), US feet	Software System	WellArchitect® 2.0
North Reference	Grid	User	Gomeoscr
Scale	0.999914	Report Generated	11/17/2010 at 4:34:39 PM
Convergence at slot	0.11° East	Database/Source file	WA Midland/No._3H_PWB.xml

WELLBORE INFORMATION

	Local coordinates		Grid coordinates		Geographic coordinates	
	North[ft]	East[ft]	Easting[USft]	Northing[USft]	Latitude	Longitude
Slot Location	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W
Facility Reference Pt			604446.60	591367.40	32°37'31.986"N	104°07'42.038"W
Field Reference Pt			604446.60	591367.40	32°37'31.986"N	104°07'42.038"W

WELLBORE INFORMATION

Calculation method	Minimum curvature	Rig on No. 3H SHL (RT) to Facility Vertical Datum	0.00ft
Horizontal Reference Pt	Slot	Rig on No. 3H SHL (RT) to Mean Sea Level	3305.00ft
Vertical Reference Pt	Rig on No. 3H SHL (RT)	Facility Vertical Datum to Mud Line (Facility)	0.00ft
MD Reference Pt	Rig on No. 3H SHL (RT)	Section Origin	N 0.00, E 0.00 ft
Field Vertical Reference	Mean Sea Level	Section Azimuth	359.71°



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REFERENCE WELLPATH IDENTIFICATION			
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Area	Eddy County, NM	Well	No. 3H
Field	(Exxon) Sec 25, R19S, R28E	Wellbore	No. 3H PWB
Facility	Exxon State No. 3H		

WELLPATH DATA (124 stations) † = interpolated/extrapolated station												Comments
MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	
0.00	0.000	359.711	0.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	Tie On
100.00†	0.000	359.711	100.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
200.00†	0.000	359.711	200.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
300.00†	0.000	359.711	300.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
400.00†	0.000	359.711	400.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
500.00†	0.000	359.711	500.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
600.00†	0.000	359.711	600.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
700.00†	0.000	359.711	700.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
800.00†	0.000	359.711	800.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
900.00†	0.000	359.711	900.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
1000.00†	0.000	359.711	1000.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
1100.00†	0.000	359.711	1100.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
1200.00†	0.000	359.711	1200.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
1300.00†	0.000	359.711	1300.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
1400.00†	0.000	359.711	1400.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
1500.00†	0.000	359.711	1500.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
1600.00†	0.000	359.711	1600.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
1700.00†	0.000	359.711	1700.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
1800.00†	0.000	359.711	1800.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
1900.00†	0.000	359.711	1900.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
2000.00†	0.000	359.711	2000.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
2100.00†	0.000	359.711	2100.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
2200.00†	0.000	359.711	2200.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
2300.00†	0.000	359.711	2300.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
2400.00†	0.000	359.711	2400.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
2500.00†	0.000	359.711	2500.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
2600.00†	0.000	359.711	2600.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
2700.00†	0.000	359.711	2700.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
2800.00†	0.000	359.711	2800.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
2900.00†	0.000	359.711	2900.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
3000.00†	0.000	359.711	3000.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
3100.00†	0.000	359.711	3100.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
3200.00†	0.000	359.711	3200.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
3300.00†	0.000	359.711	3300.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
3400.00†	0.000	359.711	3400.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
3500.00†	0.000	359.711	3500.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
3600.00†	0.000	359.711	3600.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
3700.00†	0.000	359.711	3700.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
3800.00†	0.000	359.711	3800.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
3900.00†	0.000	359.711	3900.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
4000.00†	0.000	359.711	4000.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
4100.00†	0.000	359.711	4100.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
4200.00†	0.000	359.711	4200.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
4300.00†	0.000	359.711	4300.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
4400.00†	0.000	359.711	4400.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	



Planned Wellpath Report

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REFERENCE WELL PATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(Exxon) Sec 25, R19S, R28E	Wellbore	No. 3H PWB
Facility	Exxon State No. 3H		

WELLPATH DATA (124 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
4500.00†	0.000	359.711	4500.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
4600.00†	0.000	359.711	4600.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
4700.00†	0.000	359.711	4700.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
4800.00†	0.000	359.711	4800.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
4900.00†	0.000	359.711	4900.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
5000.00†	0.000	359.711	5000.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
5100.00†	0.000	359.711	5100.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
5200.00†	0.000	359.711	5200.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
5300.00†	0.000	359.711	5300.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
5400.00†	0.000	359.711	5400.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
5500.00†	0.000	359.711	5500.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
5600.00†	0.000	359.711	5600.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
5700.00†	0.000	359.711	5700.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
5800.00†	0.000	359.711	5800.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
5900.00†	0.000	359.711	5900.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
6000.00†	0.000	359.711	6000.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
6100.00†	0.000	359.711	6100.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
6200.00†	0.000	359.711	6200.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
6300.00†	0.000	359.711	6300.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
6400.00†	0.000	359.711	6400.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
6500.00†	0.000	359.711	6500.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
6600.00†	0.000	359.711	6600.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
6700.00†	0.000	359.711	6700.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
6800.00†	0.000	359.711	6800.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
6900.00†	0.000	359.711	6900.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
7000.00†	0.000	359.711	7000.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
7100.00†	0.000	359.711	7100.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
7200.00†	0.000	359.711	7200.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
7300.00†	0.000	359.711	7300.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	
7400.00	0.000	359.711	7400.00	0.00	0.00	0.00	604446.60	591367.40	32°37'31.986"N	104°07'42.038"W	0.00	Est. KOP
7500.00†	22.000	359.711	7497.56	18.96	18.96	-0.10	604446.50	591386.36	32°37'32.174"N	104°07'42.039"W	22.00	
7600.00†	44.000	359.711	7580.91	73.09	73.09	-0.37	604446.23	591440.49	32°37'32.709"N	104°07'42.041"W	22.00	
7700.00†	66.000	359.711	7637.92	154.51	154.50	-0.78	604445.82	591521.89	32°37'33.515"N	104°07'42.044"W	22.00	
7800.00†	88.000	359.711	7660.28	251.35	251.34	-1.27	604445.33	591618.72	32°37'34.473"N	104°07'42.048"W	22.00	
7800.21	88.047	359.711	7660.28	251.56	251.56	-1.27	604445.33	591618.93	32°37'34.475"N	104°07'42.048"W	22.00	End of Curve
7900.00†	88.047	359.711	7663.68	351.29	351.28	-1.77	604444.83	591718.65	32°37'35.462"N	104°07'42.051"W	0.00	
8000.00†	88.047	359.711	7667.09	451.23	451.22	-2.28	604444.32	591818.58	32°37'36.451"N	104°07'42.055"W	0.00	
8100.00†	88.047	359.711	7670.50	551.17	551.17	-2.78	604443.82	591918.52	32°37'37.440"N	104°07'42.058"W	0.00	
8200.00†	88.047	359.711	7673.91	651.11	651.11	-3.28	604443.32	592018.45	32°37'38.429"N	104°07'42.062"W	0.00	
8300.00†	88.047	359.711	7677.32	751.06	751.05	-3.79	604442.81	592118.38	32°37'39.417"N	104°07'42.066"W	0.00	
8400.00†	88.047	359.711	7680.72	851.00	850.99	-4.29	604442.31	592218.31	32°37'40.406"N	104°07'42.069"W	0.00	
8500.00†	88.047	359.711	7684.13	950.94	950.93	-4.80	604441.80	592318.24	32°37'41.395"N	104°07'42.073"W	0.00	
8600.00†	88.047	359.711	7687.54	1050.88	1050.87	-5.30	604441.30	592418.18	32°37'42.384"N	104°07'42.077"W	0.00	
8700.00†	88.047	359.711	7690.95	1150.82	1150.81	-5.80	604440.80	592518.11	32°37'43.373"N	104°07'42.080"W	0.00	
8800.00†	88.047	359.711	7694.36	1250.77	1250.75	-6.31	604440.29	592618.04	32°37'44.362"N	104°07'42.084"W	0.00	



Planned Wellpath Report

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INTEQ

REFERENCE WELL PATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(Exxon) Sec 25, R19S, R28E	Wellbore	No. 3H PWB
Facility	Exxon State No. 3H		

WELLPATH DATA (124 stations) † = interpolated/extrapolated station

MD [ft]	Inclination [°]	Azimuth [°]	TVD [ft]	Vert Sect [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	DLS [°/100ft]	Comments
8900.00†	88.047	359.711	7697.76	1350.71	1350.69	-6.81	604439.79	592717.97	32°37'45.351"N	104°07'42.088"W	0.00	
9000.00†	88.047	359.711	7701.17	1450.65	1450.63	-7.32	604439.28	592817.90	32°37'46.339"N	104°07'42.091"W	0.00	
9100.00†	88.047	359.711	7704.58	1550.59	1550.57	-7.82	604438.78	592917.83	32°37'47.328"N	104°07'42.095"W	0.00	
9200.00†	88.047	359.711	7707.99	1650.53	1650.51	-8.33	604438.28	593017.77	32°37'48.317"N	104°07'42.098"W	0.00	
9300.00†	88.047	359.711	7711.40	1750.47	1750.45	-8.83	604437.77	593117.70	32°37'49.306"N	104°07'42.102"W	0.00	
9400.00†	88.047	359.711	7714.81	1850.42	1850.39	-9.33	604437.27	593217.63	32°37'50.295"N	104°07'42.106"W	0.00	
9500.00†	88.047	359.711	7718.21	1950.36	1950.33	-9.84	604436.76	593317.56	32°37'51.284"N	104°07'42.109"W	0.00	
9600.00†	88.047	359.711	7721.62	2050.30	2050.27	-10.34	604436.26	593417.49	32°37'52.273"N	104°07'42.113"W	0.00	
9700.00†	88.047	359.711	7725.03	2150.24	2150.22	-10.85	604435.75	593517.43	32°37'53.262"N	104°07'42.117"W	0.00	
9800.00†	88.047	359.711	7728.44	2250.18	2250.16	-11.35	604435.25	593617.36	32°37'54.250"N	104°07'42.120"W	0.00	
9900.00†	88.047	359.711	7731.85	2350.13	2350.10	-11.85	604434.75	593717.29	32°37'55.239"N	104°07'42.124"W	0.00	
10000.00†	88.047	359.711	7735.25	2450.07	2450.04	-12.36	604434.24	593817.22	32°37'56.228"N	104°07'42.128"W	0.00	
10100.00†	88.047	359.711	7738.66	2550.01	2549.98	-12.86	604433.74	593917.15	32°37'57.217"N	104°07'42.131"W	0.00	
10200.00†	88.047	359.711	7742.07	2649.95	2649.92	-13.37	604433.23	594017.08	32°37'58.206"N	104°07'42.135"W	0.00	
10300.00†	88.047	359.711	7745.48	2749.89	2749.86	-13.87	604432.73	594117.02	32°37'59.195"N	104°07'42.139"W	0.00	
10400.00†	88.047	359.711	7748.89	2849.84	2849.80	-14.37	604432.23	594216.95	32°38'00.184"N	104°07'42.142"W	0.00	
10500.00†	88.047	359.711	7752.29	2949.78	2949.74	-14.88	604431.72	594316.88	32°38'01.173"N	104°07'42.146"W	0.00	
10600.00†	88.047	359.711	7755.70	3049.72	3049.68	-15.38	604431.22	594416.81	32°38'02.161"N	104°07'42.149"W	0.00	
10700.00†	88.047	359.711	7759.11	3149.66	3149.62	-15.89	604430.71	594516.74	32°38'03.150"N	104°07'42.153"W	0.00	
10800.00†	88.047	359.711	7762.52	3249.60	3249.56	-16.39	604430.21	594616.68	32°38'04.139"N	104°07'42.157"W	0.00	
10900.00†	88.047	359.711	7765.93	3349.55	3349.50	-16.90	604429.71	594716.61	32°38'05.128"N	104°07'42.160"W	0.00	
11000.00†	88.047	359.711	7769.33	3449.49	3449.44	-17.40	604429.20	594816.54	32°38'06.117"N	104°07'42.164"W	0.00	
11100.00†	88.047	359.711	7772.74	3549.43	3549.38	-17.90	604428.70	594916.47	32°38'07.106"N	104°07'42.168"W	0.00	
11200.00†	88.047	359.711	7776.15	3649.37	3649.32	-18.41	604428.19	595016.40	32°38'08.095"N	104°07'42.171"W	0.00	
11300.00†	88.047	359.711	7779.56	3749.31	3749.27	-18.91	604427.69	595116.33	32°38'09.084"N	104°07'42.175"W	0.00	
11400.00†	88.047	359.711	7782.97	3849.26	3849.21	-19.42	604427.19	595216.27	32°38'10.072"N	104°07'42.179"W	0.00	
11500.00†	88.047	359.711	7786.37	3949.20	3949.15	-19.92	604426.68	595316.20	32°38'11.061"N	104°07'42.182"W	0.00	
11600.00†	88.047	359.711	7789.78	4049.14	4049.09	-20.42	604426.18	595416.13	32°38'12.050"N	104°07'42.186"W	0.00	
11700.00†	88.047	359.711	7793.19	4149.08	4149.03	-20.93	604425.67	595516.06	32°38'13.039"N	104°07'42.189"W	0.00	
11800.00†	88.047	359.711	7796.60	4249.02	4248.97	-21.43	604425.17	595615.99	32°38'14.028"N	104°07'42.193"W	0.00	
11900.00†	88.047	359.711	7800.01	4348.96	4348.91	-21.94	604424.67	595715.93	32°38'15.017"N	104°07'42.197"W	0.00	
12000.00†	88.047	359.711	7803.41	4448.91	4448.85	-22.44	604424.16	595815.86	32°38'16.006"N	104°07'42.200"W	0.00	
12100.00†	88.047	359.711	7806.82	4548.85	4548.79	-22.94	604423.66	595915.79	32°38'16.994"N	104°07'42.204"W	0.00	
12193.27	88.047	359.711	7810.00†	4642.06	4642.00	-23.42	604423.19	596008.99	32°38'17.917"N	104°07'42.207"W	0.00	No. 3H PBHL

HOLE & CASING SECTIONS Ref Wellbore: No. 3H PWB Ref Wellpath: Prelim_1

String/Diameter	Start MD [ft]	End MD [ft]	Interval [ft]	Start TVD [ft]	End TVD [ft]	Start N/S [ft]	Start E/W [ft]	End N/S [ft]	End E/W [ft]
8.75in Open Hole	7400.00	12193.27	4793.27	7400.00	NA	0.00	0.00	NA	NA



Planned Wellpath Report

Prelim_1
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REFERENCE WELLPATH IDENTIFICATION			
Operator	Cimarex Energy Co.	Slot	No. 3H SHL
Area	Eddy County, NM	Well	No. 3H
Field	(Exxon) Sec 25, R19S, R28E	Wellbore	No. 3H PWB
Facility	Exxon State No. 3H		

TARGETS

Name	MD [ft]	TVD [ft]	North [ft]	East [ft]	Grid East [srv ft]	Grid North [srv ft]	Latitude	Longitude	Shape
1) No. 3H PBHL	12193.27	7810.00	4642.00	-23.42	604423.19	596008.99	32°38'17.917"N	104°07'42.207"W	point

SURVEY PROGRAM Ref Wellbore: No. 3H PWB Ref Wellpath: Prelim_1

Start MD [ft]	End MD [ft]	Positional Uncertainty Model	Log Name/Comment	Wellbore
0.00	12193.27	NaviTrak (Standard)		No. 3H PWB

Mud, Casing, Cementing, and BOP Attachment

Exxon State No. 3

Cimarex Energy Co. of Colorado

Unit O, Section 25

T19S-R28E, Eddy County, NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

Location: SHL 330 FSL & 1980 FEL
BHL 330 FNL & 1980 FEL

Elevation above sea level: 3305' GR

Proposed drilling depth: MD 12193' TVD 7810'

Proposed Mud Circulating System:

Depth	Mud Wt	Visc	Fluid Loss	Type Mud
0' to 350'	8.4 - 8.6	28	NC	FW
0' to 2500'	10.0	30-32	NC	Brine water
0' to 12193'	8.4 - 9.5	30-32	NC	FW, brine

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Proposed drilling Plan

Drill 8¾" hole to pilot hole depth of 7950' and log. Plug back with a 250 sx cmt plug. KOP @ 7400' and drill to TD @ 12193.' Run 5½" 17# P-110 LTC from 0-12193.' Cement to 1600.'

Mud, Casing, Cementing, and BOP Attachment

Exxon State No. 3

Cimarex Energy Co. of Colorado

Unit O, Section 15

T19S-R29E, Eddy County, NM

Casing & Cementing Plan:

String	Hole Size	Depth			Casing OD		Weight	Collar	Grade
<i>Surface</i>	17½"	0'	to	250'	New	13¾"	48#	STC	H-40
<i>Intermediate</i>	12¼"	0'	to	2500'	New	9¾"	40#	LTC	J/K-55
<i>Production</i>	8¾"	0'	to	12193'	New	5½"	17#	LTC	P-110

Cementing Plan:

Surface 395SKS Halcem C + 2% CaCl 14.2ppg 1.34 yield
TOC Surface

Intermediate Lead: 655SKS EconoCem + 5% salt + 5 lbm gilsonite 14.6ppg 1.54yield
Tail: 160SKS HalCem + 1% CaCl 14.8ppg 1.34 yield
TOC Surface

Production Lead: 840SKS EconoCem - H + 0.2 % HR-601 2.44 11.9ppg 2.44 yield
Tail: 1360SKS Versacem - H + 0.5% Halad(R)-344 + 0.4% CFR-3 + 1 lbm/sk salt + 0.1% HR-601
TOC 1600'

Fresh water zones will be protected by setting 13¾" casing at 350' and cementing to surface. Hydrocarbon zones will be protected by setting 9¾" casing at 2500' and cementing to surface, and by setting 5½" casing at 12193' and cementing to 1600.'

<u>Collapse Factor</u>	<u>Burst Factor</u>	<u>Tension Factor</u>
1.125	1.125	1.6

Pressure control Equipment:

Exhibit "E". A 13¾" 5000 PSI working pressure BOP tested to 3000 psi consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head as needed. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be nipped up and operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling. From the base of the 13¾" casing through the running of production casing, the well will be equipped with a 5000 psi BOP system tested to 3000 psi.

BOPS will be tested by an independent service company to 250 psi low and 3000 psi high. Hydril will be tested to 250 psi low and 1500 psi high.