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Permian District

NM -Eddy [Non-PLU Avalon Project]

Skeen 21 State 1H

Skeen 21 State 1H

Skeen 21 State 1H

Plan: Geoprog

Standard Planning Report

23 April, 2010

MR

Chesapeake Operating
Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Skeen 21 State 1H
Company:	Permian District	TVD Reference:	WELL @ 3050.0ft (Original Well Elev)
Project:	NM -Eddy [Non-PLU Avalon Project]	MD Reference:	WELL @ 3050.0ft (Original Well Elev)
Site:	Skeen 21 State 1H	North Reference:	Grid
Well:	Skeen 21 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Skeen 21 State 1H		
Design:	Geoprolog		

Project	NM -Eddy [Non-PLU Avalon Project]		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Skeen 21 State 1H				
Site Position:		Northing:	376,469.22 ft	Latitude:	32° 2' 5.27640000 N
From:	Lat/Long	Easting:	574,411.31 ft	Longitude:	104° 5' 35.54160000 W
Position Uncertainty:	0 0 ft	Slot Radius:	0 000in	Grid Convergence:	0.13 °

Well	Skeen 21 State 1H					
Well Position	+N/-S	0 0 ft	Northing:	376,469.22 ft	Latitude:	32° 2' 5.27640000 N
	+E/-W	0 0 ft	Easting:	574,411.31 ft	Longitude:	104° 5' 35.54160000 W
Position Uncertainty		0 0 ft	Wellhead Elevation:	3,030.0 ft	Ground Level:	3,030.0 ft

Wellbore	Skeen 21 State 1H				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF200510	4/23/2010	7 93	59.97	48,593

Design	Geoprolog			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(ft)	(ft)	(ft)	(°)
	0 0	0 0	0 0	179.52

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0 0	0.00	0.00	0 0	0.0	0.0	0 00	0 00	0 00	0.00	
6,155.2	0.00	0.00	6,155.2	0.0	0.0	0 00	0 00	0 00	0.00	
6,803 8	90.80	179 52	6,564.5	-415.0	3.5	14.00	14 00	0 00	179 52	
11,276 9	90 80	179.52	6,502 0	-4,887.4	41.2	0 00	0 00	0 00	0.00	Skeen 21 State 1H-BI

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Site:	Skeen 21 State 1H	North Reference:	Grid
Well:	Skeen 21 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Skeen 21 State 1H		
Design:	Geoprogram		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00	
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00	
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00	
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00	
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00	
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00	
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00	
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00	
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00	

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Site:	Skeen 21 State 1H	North Reference:	Grid
Well:	Skeen 21 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Skeen 21 State 1H		
Design:	Geoprog		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,400.0	0 00	0.00	5,400 0	0 0	0 0	0.0	0 00	0 00	0.00
5,500.0	0.00	0 00	5,500 0	0.0	0 0	0.0	0.00	0 00	0.00
5,600.0	0.00	0 00	5,600.0	0.0	0.0	0 0	0 00	0.00	0 00
5,700 0	0 00	0 00	5,700.0	0 0	0.0	0.0	0 00	0.00	0 00
5,800.0	0 00	0.00	5,800.0	0 0	0 0	0.0	0 00	0.00	0 00
5,900.0	0.00	0.00	5,900 0	0.0	0 0	0 0	0 00	0.00	0 00
6,000 0	0.00	0.00	6,000 0	0.0	0 0	0 0	0.00	0 00	0.00
6,100.0	0.00	0.00	6,100 0	0.0	0.0	0 0	0.00	0 00	0.00
6,155.2	0 00	0.00	6,155.2	0 0	0.0	0.0	0 00	0 00	0.00
6,200 0	6.27	179 52	6,199.9	-2.4	0.0	2.4	14 00	14 00	0 00
6,300.0	20 27	179 52	6,297.0	-25 3	0 2	25 3	14.00	14.00	0 00
6,400.0	34 27	179.52	6,385 7	-71.0	0 6	71 0	14.00	14 00	0.00
6,500.0	48 27	179.52	6,460 6	-136.8	1.2	136 8	14 00	14 00	0 00
6,600 0	62.27	179 52	6,517.5	-218.8	1.8	218 8	14 00	14 00	0 00
6,700.0	76.27	179.52	6,552.8	-312 1	2 6	312 1	14 00	14.00	0 00
6,800.0	90 27	179 52	6,564.5	-411.1	3 5	411 2	14.00	14 00	0 00
6,803.8	90.80	179.52	6,564 5	-415.0	3 5	415 0	14.00	14 00	0.00
6,900.0	90 80	179.52	6,563 1	-511.1	4.3	511 2	0 00	0 00	0 00
7,000.0	90 80	179.52	6,561.7	-611.1	5.2	611 1	0 00	0 00	0 00
7,100 0	90.80	179 52	6,560.3	-711 1	6 0	711 1	0 00	0.00	0 00
7,200 0	90 80	179 52	6,558.9	-811.1	6 8	811.1	0.00	0.00	0 00
7,300.0	90 80	179.52	6,557 5	-911.1	7.7	911 1	0.00	0 00	0 00
7,400 0	90.80	179.52	6,556.1	-1,011.1	8.5	1,011.1	0.00	0.00	0 00
7,500 0	90 80	179 52	6,554.7	-1,111.1	9 4	1,111 1	0 00	0.00	0.00
7,600 0	90.80	179 52	6,553.3	-1,211 0	10 2	1,211.1	0 00	0 00	0 00
7,700 0	90.80	179 52	6,551 9	-1,311 0	11 1	1,311.1	0 00	0 00	0 00
7,800 0	90 80	179.52	6,550 5	-1,411 0	11 9	1,411 1	0.00	0.00	0 00
7,900 0	90 80	179.52	6,549.1	-1,511.0	12.7	1,511 1	0 00	0 00	0.00
8,000.0	90 80	179 52	6,547.8	-1,611.0	13.6	1,611.0	0 00	0 00	0 00
8,100.0	90 80	179 52	6,546.4	-1,711 0	14 4	1,711 0	0.00	0.00	0 00
8,200.0	90.80	179 52	6,545.0	-1,811 0	15 3	1,811 0	0.00	0 00	0 00
8,300 0	90 80	179 52	6,543 6	-1,910 9	16.1	1,911 0	0 00	0 00	0 00
8,400.0	90 80	179.52	6,542.2	-2,010.9	17.0	2,011 0	0 00	0 00	0 00
8,500 0	90.80	179 52	6,540.8	-2,110.9	17.8	2,111.0	0 00	0.00	0.00
8,600.0	90 80	179 52	6,539.4	-2,210.9	18 7	2,211.0	0.00	0.00	0 00
8,700 0	90.80	179.52	6,538 0	-2,310 9	19 5	2,311.0	0.00	0 00	0 00
8,800.0	90.80	179.52	6,536 6	-2,410 9	20.3	2,411 0	0 00	0 00	0 00
8,900.0	90 80	179 52	6,535.2	-2,510.9	21 2	2,511 0	0.00	0 00	0 00
9,000.0	90 80	179 52	6,533.8	-2,610.9	22 0	2,610 9	0.00	0 00	0 00
9,100.0	90.80	179.52	6,532 4	-2,710 8	22 9	2,710.9	0 00	0 00	0 00
9,200 0	90 80	179.52	6,531 0	-2,810 8	23.7	2,810 9	0 00	0.00	0 00
9,300 0	90 80	179 52	6,529.6	-2,910 8	24.6	2,910 9	0 00	0.00	0 00
9,400 0	90.80	179 52	6,528.2	-3,010.8	25 4	3,010 9	0 00	0.00	0 00
9,500 0	90 80	179 52	6,526 8	-3,110.8	26 2	3,110.9	0 00	0 00	0 00
9,600 0	90.80	179 52	6,525 4	-3,210 8	27.1	3,210.9	0 00	0 00	0 00
9,700 0	90 80	179.52	6,524 0	-3,310 8	27.9	3,310 9	0.00	0 00	0.00
9,800 0	90 80	179.52	6,522.6	-3,410.7	28 8	3,410 9	0 00	0 00	0 00
9,900 0	90 80	179.52	6,521.2	-3,510.7	29 6	3,510.9	0 00	0.00	0.00
10,000 0	90 80	179 52	6,519.8	-3,610.7	30.5	3,610 8	0 00	0 00	0 00
10,100 0	90 80	179 52	6,518 4	-3,710 7	31.3	3,710 8	0.00	0 00	0 00
10,200.0	90 80	179.52	6,517.0	-3,810 7	32.2	3,810.8	0 00	0.00	0 00
10,300 0	90.80	179 52	6,515.6	-3,910.7	33 0	3,910.8	0 00	0 00	0 00
10,400 0	90 80	179 52	6,514 2	-4,010.7	33 8	4,010.8	0 00	0 00	0 00

Chesapeake Operating
Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Skeen 21 State 1H
Company:	Permian District	TVD Reference:	WELL @ 3050.0ft (Original Well Elev)
Project:	NM -Eddy [Non-PLU Avalon Project]	MD Reference:	WELL @ 3050.0ft (Original Well Elev)
Site:	Skeen 21 State 1H	North Reference:	Grd
Well:	Skeen 21 State 1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Skeen 21 State 1H		
Design:	Geoprog		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
10,500.0	90.80	179.52	6,512.8	-4,110.7	34.7	4,110.8	0.00	0.00	0.00
10,600.0	90.80	179.52	6,511.5	-4,210.6	35.5	4,210.8	0.00	0.00	0.00
10,700.0	90.80	179.52	6,510.1	-4,310.6	36.4	4,310.8	0.00	0.00	0.00
10,800.0	90.80	179.52	6,508.7	-4,410.6	37.2	4,410.8	0.00	0.00	0.00
10,900.0	90.80	179.52	6,507.3	-4,510.6	38.1	4,510.8	0.00	0.00	0.00
11,000.0	90.80	179.52	6,505.9	-4,610.6	38.9	4,610.8	0.00	0.00	0.00
11,100.0	90.80	179.52	6,504.5	-4,710.6	39.7	4,710.7	0.00	0.00	0.00
11,200.0	90.80	179.52	6,503.1	-4,810.6	40.6	4,810.7	0.00	0.00	0.00
11,276.9	90.80	179.52	6,502.0	-4,887.4	41.2	4,887.6	0.00	0.00	0.00

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
Skeen 21 State 1H-TL 0	0.00	0.00	6,570.0	0.0	0.0	376,469.22	574,411.31	32° 2' 5.27640000 N	04° 5' 35.5160000 W
- plan misses target center by 174.1ft at 6491.9ft MD (6455.2 TVD, -130.9 N, 1.1 E)									
- Point									
Skeen 21 State 1H-BHL	0.00	0.00	6,502.0	-4,887.4	41.2	371,581.81	574,452.55	32° 1' 16.90680000 N	04° 5' 35.18880000 W
- plan hits target center									
- Point									