

US ROCKIES REGION PLANNING

COLORADO NORTHERN ZONE - 83

ADAMS_VENTURERS 41 PAD

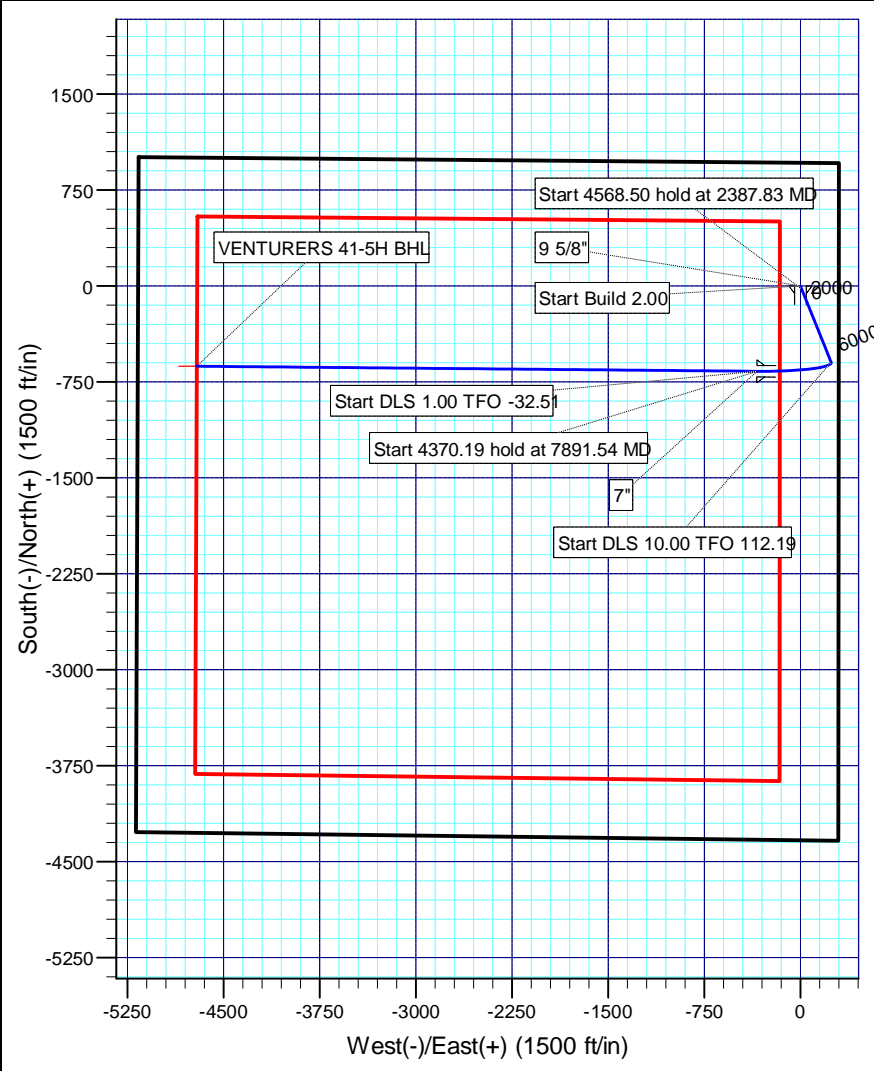
VENTURERS 41-5H

VENTURERS 41-5H

Plan: VENTURES 41-5H (wp02)

Standard Planning Report

07 February, 2012



PROJECT DETAILS: COLORADO NORTHERN ZONE - 83

Site: ADAMS_VENTURERS 41 PAD
 Well: VENTURERS 41-5H
 Wellbore: VENTURERS 41-5H
 Design: VENTURES 41-5H (wp02)
 Latitude: 39.780453
 Longitude: -104.584471
 GL: 5446.00
 KB: WELL @ 5471.00ft (Original Well Elev)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	
3	2387.83	7.76	158.08	2386.64	-24.32	9.79	2.00	158.08	-6.49	
4	6956.33	7.76	158.08	6913.35	-596.31	240.00	0.00	0.00	-159.12	
5	7891.03	90.52	270.52	7511.00	-667.00	-338.02	10.00	112.19	423.18	
6	7891.54	90.52	270.52	7511.00	-667.00	-338.54	1.00	-32.51	423.69	
7	12261.74	90.52	270.52	7471.00	-627.55	-4708.37	0.00	0.00	4750.01	VENTURERS 41-5H BHL

DESIGN TARGET DETAILS

Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape
VENTURERS 41-5H BHL	7471.00	-627.55	-4708.37	39.778729	-104.601223	Point

WELL DETAILS: VENTURERS 41-5H

Ground Level:		5446.00			
+N-S	+E-W	North	East	Latitude	Longitude
0.00	0.00	1164200.56	3257309.87	39.780453	-104.584471

CASING DETAILS

TVD	MD	Name	Size
1710.00	1710.00	9 5/8"	9-5/8
7511.00	7891.03	7"	7

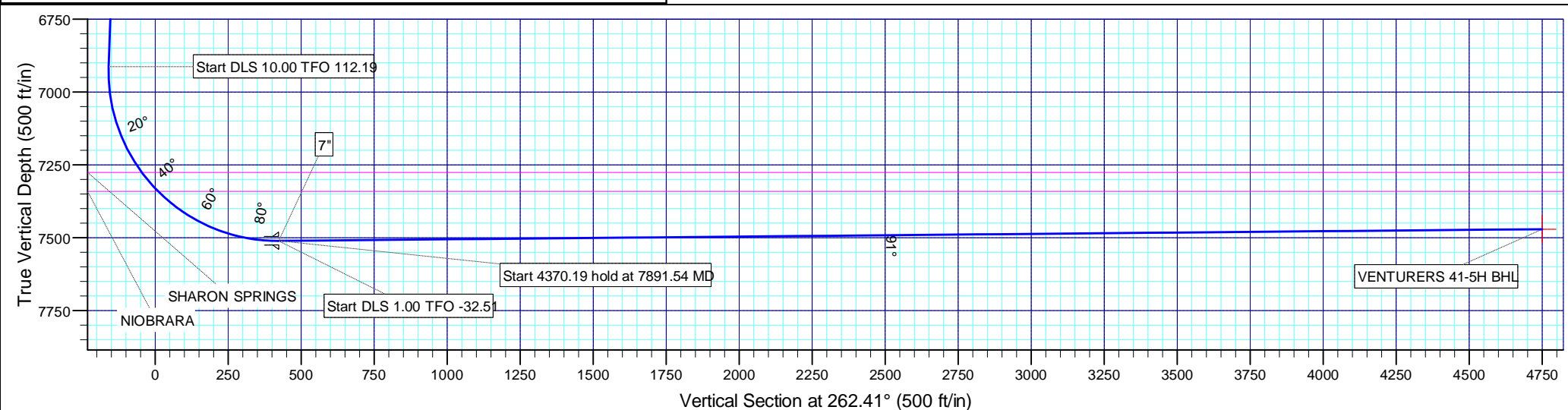
FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1561.00	1561.00	FOX HILLS
3971.00	3986.81	PARKMAN
4991.00	5016.23	SUSSEX
5351.00	5379.56	SHANNON
7276.00	7344.92	SHARON SPRINGS
7341.00	7430.78	NIOBRARA



Azimuths to True North
 Magnetic North: 8.64°

Magnetic Field
 Strength: 52758.1snT
 Dip Angle: 66.56°
 Date: 1/10/2012
 Model: IGRF2010



Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well VENTURERS 41-5H
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
Site:	ADAMS_VENTURERS 41 PAD	North Reference:	True
Well:	VENTURERS 41-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	VENTURERS 41-5H		
Design:	VENTURES 41-5H (wp02)		

Project	COLORADO NORTHERN ZONE - 83		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site	ADAMS_VENTURERS 41 PAD			
Site Position:		Northing:	1,164,230.80 usft	Latitude: 39.780536
From:	Lat/Long	Easting:	3,257,309.56 usft	Longitude: -104.584471
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.59 °

Well	VENTURERS 41-5H			
Well Position	+N/-S	-30.24 ft	Northing:	1,164,200.56 usft
	+E/-W	0.00 ft	Easting:	3,257,309.87 usft
Position Uncertainty		0.00 ft	Wellhead Elevation:	Ground Level: 5,446.00 ft

Wellbore	VENTURERS 41-5H				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/10/2012	8.64	66.56	52,758

Design	VENTURES 41-5H (wp02)			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	262.41

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,387.83	7.76	158.08	2,386.64	-24.32	9.79	2.00	2.00	0.00	158.08	
6,956.33	7.76	158.08	6,913.35	-596.31	240.00	0.00	0.00	0.00	0.00	
7,891.03	90.52	270.52	7,511.00	-667.00	-338.02	10.00	8.85	12.03	112.19	
7,891.54	90.52	270.52	7,511.00	-667.00	-338.54	1.00	0.84	-0.54	-32.51	
12,261.74	90.52	270.52	7,471.00	-627.55	-4,708.37	0.00	0.00	0.00	0.00	VENTURERS 41-5H I

Anadarko Petroleum Corp

Planning Report

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
Site:	ADAMS_VENTURERS 41 PAD	North Reference:	True
Well:	VENTURERS 41-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	VENTURERS 41-5H		
Design:	VENTURES 41-5H (wp02)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,561.00	0.00	0.00	1,561.00	0.00	0.00	0.00	0.00	0.00	0.00
FOX HILLS									
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,710.00	0.00	0.00	1,710.00	0.00	0.00	0.00	0.00	0.00	0.00
9 5/8"									
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
2,100.00	2.00	158.08	2,099.98	-1.62	0.65	-0.43	2.00	2.00	0.00
2,200.00	4.00	158.08	2,199.84	-6.47	2.61	-1.73	2.00	2.00	0.00
2,300.00	6.00	158.08	2,299.45	-14.56	5.86	-3.88	2.00	2.00	0.00
2,387.83	7.76	158.08	2,386.64	-24.32	9.79	-6.49	2.00	2.00	0.00
Start 4568.50 hold at 2387.83 MD									
2,400.00	7.76	158.08	2,398.71	-25.84	10.40	-6.90	0.00	0.00	0.00
2,500.00	7.76	158.08	2,497.79	-38.36	15.44	-10.24	0.00	0.00	0.00
2,600.00	7.76	158.08	2,596.88	-50.88	20.48	-13.58	0.00	0.00	0.00
2,700.00	7.76	158.08	2,695.96	-63.40	25.52	-16.92	0.00	0.00	0.00
2,800.00	7.76	158.08	2,795.05	-75.92	30.56	-20.26	0.00	0.00	0.00
2,900.00	7.76	158.08	2,894.13	-88.44	35.60	-23.60	0.00	0.00	0.00
3,000.00	7.76	158.08	2,993.22	-100.96	40.64	-26.94	0.00	0.00	0.00
3,100.00	7.76	158.08	3,092.30	-113.48	45.67	-30.28	0.00	0.00	0.00
3,200.00	7.76	158.08	3,191.39	-126.00	50.71	-33.62	0.00	0.00	0.00
3,300.00	7.76	158.08	3,290.47	-138.52	55.75	-36.96	0.00	0.00	0.00
3,400.00	7.76	158.08	3,389.56	-151.04	60.79	-40.30	0.00	0.00	0.00
3,500.00	7.76	158.08	3,488.64	-163.56	65.83	-43.64	0.00	0.00	0.00
3,600.00	7.76	158.08	3,587.73	-176.08	70.87	-46.99	0.00	0.00	0.00
3,700.00	7.76	158.08	3,686.81	-188.60	75.91	-50.33	0.00	0.00	0.00
3,800.00	7.76	158.08	3,785.90	-201.12	80.95	-53.67	0.00	0.00	0.00
3,900.00	7.76	158.08	3,884.98	-213.64	85.99	-57.01	0.00	0.00	0.00
3,986.81	7.76	158.08	3,971.00	-224.51	90.36	-59.91	0.00	0.00	0.00
PARKMAN									
4,000.00	7.76	158.08	3,984.07	-226.17	91.03	-60.35	0.00	0.00	0.00
4,100.00	7.76	158.08	4,083.15	-238.69	96.07	-63.69	0.00	0.00	0.00
4,200.00	7.76	158.08	4,182.24	-251.21	101.11	-67.03	0.00	0.00	0.00
4,300.00	7.76	158.08	4,281.32	-263.73	106.14	-70.37	0.00	0.00	0.00
4,400.00	7.76	158.08	4,380.41	-276.25	111.18	-73.71	0.00	0.00	0.00

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Planning Report

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Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
Site:	ADAMS_VENTURERS 41 PAD	North Reference:	True
Well:	VENTURERS 41-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	VENTURERS 41-5H		
Design:	VENTURES 41-5H (wp02)		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,500.00	7.76	158.08	4,479.49	-288.77	116.22	-77.05	0.00	0.00	0.00
4,600.00	7.76	158.08	4,578.58	-301.29	121.26	-80.39	0.00	0.00	0.00
4,700.00	7.76	158.08	4,677.66	-313.81	126.30	-83.74	0.00	0.00	0.00
4,800.00	7.76	158.08	4,776.75	-326.33	131.34	-87.08	0.00	0.00	0.00
4,900.00	7.76	158.08	4,875.83	-338.85	136.38	-90.42	0.00	0.00	0.00
5,000.00	7.76	158.08	4,974.92	-351.37	141.42	-93.76	0.00	0.00	0.00
5,016.23	7.76	158.08	4,991.00	-353.40	142.24	-94.30	0.00	0.00	0.00
SUSSEX									
5,100.00	7.76	158.08	5,074.00	-363.89	146.46	-97.10	0.00	0.00	0.00
5,200.00	7.76	158.08	5,173.09	-376.41	151.50	-100.44	0.00	0.00	0.00
5,300.00	7.76	158.08	5,272.17	-388.93	156.54	-103.78	0.00	0.00	0.00
5,379.56	7.76	158.08	5,351.00	-398.89	160.55	-106.44	0.00	0.00	0.00
SHANNON									
5,400.00	7.76	158.08	5,371.26	-401.45	161.58	-107.12	0.00	0.00	0.00
5,500.00	7.76	158.08	5,470.34	-413.97	166.61	-110.46	0.00	0.00	0.00
5,600.00	7.76	158.08	5,569.43	-426.49	171.65	-113.80	0.00	0.00	0.00
5,700.00	7.76	158.08	5,668.51	-439.01	176.69	-117.14	0.00	0.00	0.00
5,800.00	7.76	158.08	5,767.60	-451.53	181.73	-120.49	0.00	0.00	0.00
5,900.00	7.76	158.08	5,866.68	-464.05	186.77	-123.83	0.00	0.00	0.00
6,000.00	7.76	158.08	5,965.77	-476.57	191.81	-127.17	0.00	0.00	0.00
6,100.00	7.76	158.08	6,064.85	-489.09	196.85	-130.51	0.00	0.00	0.00
6,200.00	7.76	158.08	6,163.94	-501.61	201.89	-133.85	0.00	0.00	0.00
6,300.00	7.76	158.08	6,263.02	-514.13	206.93	-137.19	0.00	0.00	0.00
6,400.00	7.76	158.08	6,362.11	-526.65	211.97	-140.53	0.00	0.00	0.00
6,500.00	7.76	158.08	6,461.19	-539.17	217.01	-143.87	0.00	0.00	0.00
6,600.00	7.76	158.08	6,560.28	-551.69	222.05	-147.21	0.00	0.00	0.00
6,700.00	7.76	158.08	6,659.36	-564.21	227.09	-150.55	0.00	0.00	0.00
6,800.00	7.76	158.08	6,758.45	-576.73	232.12	-153.89	0.00	0.00	0.00
6,900.00	7.76	158.08	6,857.53	-589.25	237.16	-157.24	0.00	0.00	0.00
6,956.33	7.76	158.08	6,913.35	-596.31	240.00	-159.12	0.00	0.00	0.00
Start DLS 10.00 TFO 112.19									
7,000.00	7.32	191.69	6,956.66	-601.77	240.54	-158.93	10.00	-1.01	76.97
7,100.00	13.46	238.72	7,055.13	-614.08	229.27	-146.13	10.00	6.15	47.03
7,200.00	22.54	252.79	7,150.18	-625.83	200.94	-116.50	10.00	9.07	14.07
7,300.00	32.15	258.89	7,238.92	-636.65	156.41	-70.93	10.00	9.61	6.11
7,344.92	36.53	260.66	7,276.00	-641.12	131.48	-45.63	10.00	9.75	3.94
SHARON SPRINGS									
7,400.00	41.93	262.39	7,318.65	-646.22	97.04	-10.81	10.00	9.80	3.14
7,430.78	44.96	263.21	7,341.00	-648.87	76.04	10.35	10.00	9.83	2.65
NIOBRARA									
7,500.00	51.78	264.76	7,386.96	-654.25	24.62	62.03	10.00	9.86	2.25
7,600.00	61.67	266.56	7,441.76	-660.50	-58.64	145.38	10.00	9.89	1.80
7,700.00	71.57	268.05	7,481.40	-664.76	-150.21	236.72	10.00	9.91	1.49
7,800.00	81.49	269.37	7,504.66	-666.92	-247.31	333.25	10.00	9.92	1.33
7,891.03	90.52	270.52	7,511.00	-667.00	-338.02	423.18	10.00	9.92	1.26
Start DLS 1.00 TFO -32.51 - 7"									
7,891.54	90.52	270.52	7,511.00	-667.00	-338.54	423.69	1.01	0.85	-0.54
Start 4370.19 hold at 7891.54 MD									
7,900.00	90.52	270.52	7,510.92	-666.92	-346.99	432.06	0.00	0.00	0.00
8,000.00	90.52	270.52	7,510.00	-666.02	-446.99	531.06	0.00	0.00	0.00
8,100.00	90.52	270.52	7,509.09	-665.11	-546.98	630.05	0.00	0.00	0.00
8,200.00	90.52	270.52	7,508.17	-664.21	-646.97	729.05	0.00	0.00	0.00
8,300.00	90.52	270.52	7,507.26	-663.31	-746.96	828.05	0.00	0.00	0.00

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Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
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Wellbore:	VENTURERS 41-5H		
Design:	VENTURES 41-5H (wp02)		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,400.00	90.52	270.52	7,506.34	-662.41	-846.95	927.04	0.00	0.00	0.00	
8,500.00	90.52	270.52	7,505.43	-661.50	-946.94	1,026.04	0.00	0.00	0.00	
8,600.00	90.52	270.52	7,504.51	-660.60	-1,046.94	1,125.03	0.00	0.00	0.00	
8,700.00	90.52	270.52	7,503.60	-659.70	-1,146.93	1,224.03	0.00	0.00	0.00	
8,800.00	90.52	270.52	7,502.68	-658.80	-1,246.92	1,323.03	0.00	0.00	0.00	
8,900.00	90.52	270.52	7,501.77	-657.89	-1,346.91	1,422.02	0.00	0.00	0.00	
9,000.00	90.52	270.52	7,500.85	-656.99	-1,446.90	1,521.02	0.00	0.00	0.00	
9,100.00	90.52	270.52	7,499.94	-656.09	-1,546.89	1,620.01	0.00	0.00	0.00	
9,200.00	90.52	270.52	7,499.02	-655.18	-1,646.89	1,719.01	0.00	0.00	0.00	
9,300.00	90.52	270.52	7,498.11	-654.28	-1,746.88	1,818.01	0.00	0.00	0.00	
9,400.00	90.52	270.52	7,497.19	-653.38	-1,846.87	1,917.00	0.00	0.00	0.00	
9,500.00	90.52	270.52	7,496.28	-652.48	-1,946.86	2,016.00	0.00	0.00	0.00	
9,600.00	90.52	270.52	7,495.36	-651.57	-2,046.85	2,114.99	0.00	0.00	0.00	
9,700.00	90.52	270.52	7,494.44	-650.67	-2,146.84	2,213.99	0.00	0.00	0.00	
9,800.00	90.52	270.52	7,493.53	-649.77	-2,246.84	2,312.99	0.00	0.00	0.00	
9,900.00	90.52	270.52	7,492.61	-648.87	-2,346.83	2,411.98	0.00	0.00	0.00	
10,000.00	90.52	270.52	7,491.70	-647.96	-2,446.82	2,510.98	0.00	0.00	0.00	
10,100.00	90.52	270.52	7,490.78	-647.06	-2,546.81	2,609.97	0.00	0.00	0.00	
10,200.00	90.52	270.52	7,489.87	-646.16	-2,646.80	2,708.97	0.00	0.00	0.00	
10,300.00	90.52	270.52	7,488.95	-645.26	-2,746.80	2,807.97	0.00	0.00	0.00	
10,400.00	90.52	270.52	7,488.04	-644.35	-2,846.79	2,906.96	0.00	0.00	0.00	
10,500.00	90.52	270.52	7,487.12	-643.45	-2,946.78	3,005.96	0.00	0.00	0.00	
10,600.00	90.52	270.52	7,486.21	-642.55	-3,046.77	3,104.95	0.00	0.00	0.00	
10,700.00	90.52	270.52	7,485.29	-641.64	-3,146.76	3,203.95	0.00	0.00	0.00	
10,800.00	90.52	270.52	7,484.38	-640.74	-3,246.75	3,302.95	0.00	0.00	0.00	
10,900.00	90.52	270.52	7,483.46	-639.84	-3,346.75	3,401.94	0.00	0.00	0.00	
11,000.00	90.52	270.52	7,482.55	-638.94	-3,446.74	3,500.94	0.00	0.00	0.00	
11,100.00	90.52	270.52	7,481.63	-638.03	-3,546.73	3,599.93	0.00	0.00	0.00	
11,200.00	90.52	270.52	7,480.72	-637.13	-3,646.72	3,698.93	0.00	0.00	0.00	
11,300.00	90.52	270.52	7,479.80	-636.23	-3,746.71	3,797.93	0.00	0.00	0.00	
11,400.00	90.52	270.52	7,478.89	-635.33	-3,846.70	3,896.92	0.00	0.00	0.00	
11,500.00	90.52	270.52	7,477.97	-634.42	-3,946.70	3,995.92	0.00	0.00	0.00	
11,600.00	90.52	270.52	7,477.06	-633.52	-4,046.69	4,094.91	0.00	0.00	0.00	
11,700.00	90.52	270.52	7,476.14	-632.62	-4,146.68	4,193.91	0.00	0.00	0.00	
11,800.00	90.52	270.52	7,475.23	-631.72	-4,246.67	4,292.91	0.00	0.00	0.00	
11,900.00	90.52	270.52	7,474.31	-630.81	-4,346.66	4,391.90	0.00	0.00	0.00	
12,000.00	90.52	270.52	7,473.40	-629.91	-4,446.65	4,490.90	0.00	0.00	0.00	
12,100.00	90.52	270.52	7,472.48	-629.01	-4,546.65	4,589.89	0.00	0.00	0.00	
12,200.00	90.52	270.52	7,471.57	-628.10	-4,646.64	4,688.89	0.00	0.00	0.00	
12,261.74	90.52	270.52	7,471.00	-627.55	-4,708.37	4,750.01	0.00	0.00	0.00	
TD at 12261.74 - VENTURERS 41-5H BHL										

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VENTURERS 41-5H BH	0.00	0.00	7,471.00	-627.55	-4,708.37	1,163,524.43	3,252,608.24	39.778729	-104.601223
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

Anadarko Petroleum Corp

Planning Report

Database:	edmp	Local Co-ordinate Reference:	Well VENTURERS 41-5H
Company:	US ROCKIES REGION PLANNING	TVD Reference:	WELL @ 5471.00ft (Original Well Elev)
Project:	COLORADO NORTHERN ZONE - 83	MD Reference:	WELL @ 5471.00ft (Original Well Elev)
Site:	ADAMS_VENTURERS 41 PAD	North Reference:	True
Well:	VENTURERS 41-5H	Survey Calculation Method:	Minimum Curvature
Wellbore:	VENTURERS 41-5H		
Design:	VENTURES 41-5H (wp02)		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
1,710.00	1,710.00	9 5/8"	9-5/8	12-1/4	
7,891.03	7,511.00	7"	7	8-3/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,561.00	1,561.00	FOX HILLS		0.00	
3,986.81	3,971.00	PARKMAN		0.00	
5,016.23	4,991.00	SUSSEX		0.00	
5,379.56	5,351.00	SHANNON		0.00	
7,344.92	7,276.00	SHARON SPRINGS		0.00	
7,430.78	7,341.00	NIOBRARA		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
2,000.00	2,000.00	0.00	0.00	Start Build 2.00	
2,387.83	2,386.64	-24.32	9.79	Start 4568.50 hold at 2387.83 MD	
6,956.33	6,913.35	-596.31	240.00	Start DLS 10.00 TFO 112.19	
7,891.03	7,511.00	-667.00	-338.02	Start DLS 1.00 TFO -32.51	
7,891.54	7,511.00	-667.00	-338.54	Start 4370.19 hold at 7891.54 MD	
12,261.74	7,471.00	-627.55	-4,708.37	TD at 12261.74	