



**Southwestern Energy
Routt Co. CO NAD 83 CZ
Sec 26-T07N-R88W
North Hayden 2-26H**

WELL DETAILS: North Hayden 2-26H

		RKB @ 6719.0usft (PD 706)			
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	1443395.98	2521840.77	40° 32' 15.970 N	107° 13' 13.460 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Target	Annotation
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0		
2	8637.9	0.00	0.00	8637.9	0.0	0.0	0.00	0.00	0.0		
3	9593.5	86.00	239.73	9273.0	-298.5	-511.5	9.00	239.73	592.2	2-26H BHL	
4	14210.3	86.00	239.73	9595.0	-2620.0	-4489.2	0.00	0.00	5197.9	2-26H BHL	

DESIGN TARGET DETAILS

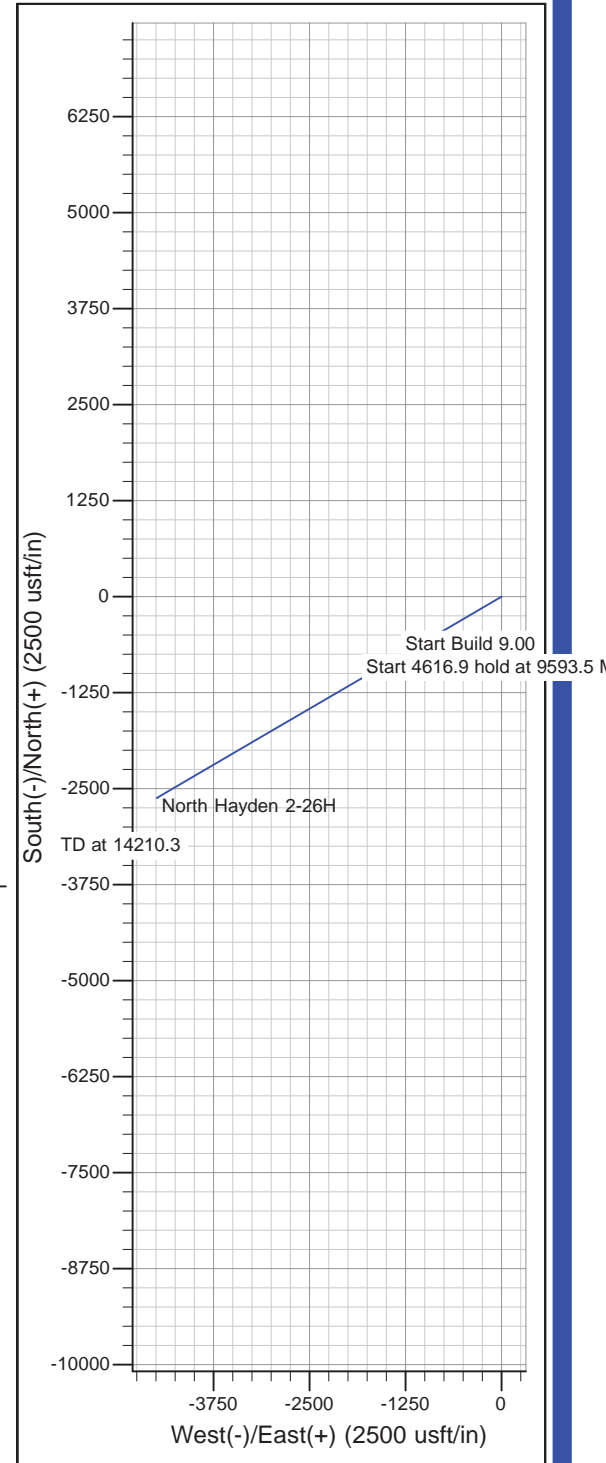
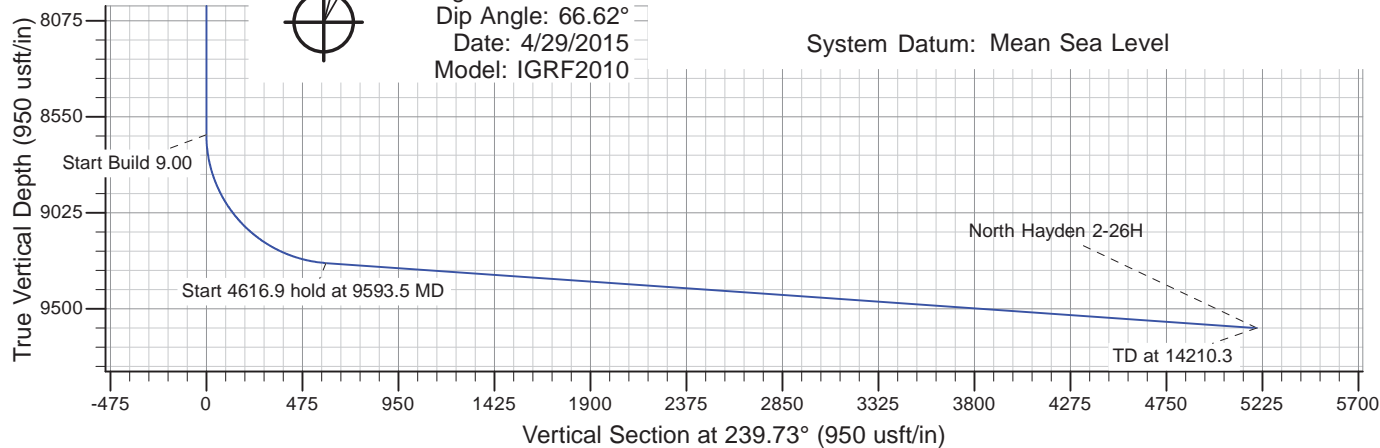
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
2-26H LP	9273.0	-298.5	-511.5	1443090.15	2521341.48	40° 32' 12.923 N	107° 13' 20.009 W
2-26H BHL	9596.6	-2620.0	-4489.2	1440768.64	2517363.75	40° 31' 49.220 N	107° 14' 10.930 W

Azimuths to Grid North
 True North: 1.11°
 Magnetic North: 10.72°
 Magnetic Field
 Strength: 52506.6snT
 Dip Angle: 66.62°
 Date: 4/29/2015
 Model: IGRF2010

PROJECT DETAILS: Routt Co. CO NAD 83 CZ

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Colorado Northern Zone

System Datum: Mean Sea Level



Southwestern Energy

Survey Report

Company:	New Ventures	Local Co-ordinate Reference:	Well North Hayden 2-26H
Project:	Routt Co. CO NAD 83 CZ	TVD Reference:	RKB @ 6719.0usft (PD 706)
Site:	Sec 26-T07N-R88W	MD Reference:	RKB @ 6719.0usft (PD 706)
Well:	North Hayden 2-26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Permit Plan_1	Database:	OSC_EDM12

Project	Routt Co. CO NAD 83 CZ, Colorado,		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Colorado Northern Zone		

Site		Sec 26-T07N-R88W			
Site Position:		Northing:	1,443,368.88 usft	Latitude:	40° 32' 15.770 N
From:	Lat/Long	Easting:	2,521,831.07 usft	Longitude:	107° 13' 13.739 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16"	Grid Convergence:	-1.11 °

Well	North Hayden 2-26H					
Well Position	+N/-S	0.0 usft	Northing:	1,443,395.97 usft	Latitude:	40° 32' 15.970 N
	+E/-W	0.0 usft	Easting:	2,521,840.77 usft	Longitude:	107° 13' 13.460 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	0.0 usft	Ground Level:	6,697.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	4/29/2015	9.61	66.62	52,507

Design	Permit Plan_1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	239.73

Survey Tool Program	Date	5/28/2015		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	14,210.3	Permit Plan_1 (Wellbore #1)	EMS	EMS - Standard

Planned Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	DLS (°/100usft)	VS (usft)	N/S (usft)	E/W (usft)		
0.0	0.00	0.00	0.0	0.00	0.0	0.0	0.0	0.0	0.0
100.0	0.00	0.00	100.0	0.00	0.0	0.0	0.0	0.0	0.0
200.0	0.00	0.00	200.0	0.00	0.0	0.0	0.0	0.0	0.0
300.0	0.00	0.00	300.0	0.00	0.0	0.0	0.0	0.0	0.0
400.0	0.00	0.00	400.0	0.00	0.0	0.0	0.0	0.0	0.0
500.0	0.00	0.00	500.0	0.00	0.0	0.0	0.0	0.0	0.0
600.0	0.00	0.00	600.0	0.00	0.0	0.0	0.0	0.0	0.0
700.0	0.00	0.00	700.0	0.00	0.0	0.0	0.0	0.0	0.0
800.0	0.00	0.00	800.0	0.00	0.0	0.0	0.0	0.0	0.0
900.0	0.00	0.00	900.0	0.00	0.0	0.0	0.0	0.0	0.0
1,000.0	0.00	0.00	1,000.0	0.00	0.0	0.0	0.0	0.0	0.0
1,100.0	0.00	0.00	1,100.0	0.00	0.0	0.0	0.0	0.0	0.0

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Survey Report

Company:	New Ventures	Local Co-ordinate Reference:	Well North Hayden 2-26H
Project:	Routt Co. CO NAD 83 CZ	TVD Reference:	RKB @ 6719.0usft (PD 706)
Site:	Sec 26-T07N-R88W	MD Reference:	RKB @ 6719.0usft (PD 706)
Well:	North Hayden 2-26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Permit Plan_1	Database:	OSC_EDM12

Planned Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	DLS (°/100usft)	VS (usft)	N/S (usft)	E/W (usft)		
1,200.0	0.00	0.00	1,200.0	0.00	0.0	0.0	0.0		0.0
1,300.0	0.00	0.00	1,300.0	0.00	0.0	0.0	0.0		0.0
1,400.0	0.00	0.00	1,400.0	0.00	0.0	0.0	0.0		0.0
1,500.0	0.00	0.00	1,500.0	0.00	0.0	0.0	0.0		0.0
1,600.0	0.00	0.00	1,600.0	0.00	0.0	0.0	0.0		0.0
1,700.0	0.00	0.00	1,700.0	0.00	0.0	0.0	0.0		0.0
1,800.0	0.00	0.00	1,800.0	0.00	0.0	0.0	0.0		0.0
1,900.0	0.00	0.00	1,900.0	0.00	0.0	0.0	0.0		0.0
2,000.0	0.00	0.00	2,000.0	0.00	0.0	0.0	0.0		0.0
2,100.0	0.00	0.00	2,100.0	0.00	0.0	0.0	0.0		0.0
2,200.0	0.00	0.00	2,200.0	0.00	0.0	0.0	0.0		0.0
2,300.0	0.00	0.00	2,300.0	0.00	0.0	0.0	0.0		0.0
2,400.0	0.00	0.00	2,400.0	0.00	0.0	0.0	0.0		0.0
2,500.0	0.00	0.00	2,500.0	0.00	0.0	0.0	0.0		0.0
2,600.0	0.00	0.00	2,600.0	0.00	0.0	0.0	0.0		0.0
2,700.0	0.00	0.00	2,700.0	0.00	0.0	0.0	0.0		0.0
2,800.0	0.00	0.00	2,800.0	0.00	0.0	0.0	0.0		0.0
2,900.0	0.00	0.00	2,900.0	0.00	0.0	0.0	0.0		0.0
3,000.0	0.00	0.00	3,000.0	0.00	0.0	0.0	0.0		0.0
3,100.0	0.00	0.00	3,100.0	0.00	0.0	0.0	0.0		0.0
3,200.0	0.00	0.00	3,200.0	0.00	0.0	0.0	0.0		0.0
3,300.0	0.00	0.00	3,300.0	0.00	0.0	0.0	0.0		0.0
3,400.0	0.00	0.00	3,400.0	0.00	0.0	0.0	0.0		0.0
3,500.0	0.00	0.00	3,500.0	0.00	0.0	0.0	0.0		0.0
3,600.0	0.00	0.00	3,600.0	0.00	0.0	0.0	0.0		0.0
3,700.0	0.00	0.00	3,700.0	0.00	0.0	0.0	0.0		0.0
3,800.0	0.00	0.00	3,800.0	0.00	0.0	0.0	0.0		0.0
3,900.0	0.00	0.00	3,900.0	0.00	0.0	0.0	0.0		0.0
4,000.0	0.00	0.00	4,000.0	0.00	0.0	0.0	0.0		0.0
4,100.0	0.00	0.00	4,100.0	0.00	0.0	0.0	0.0		0.0
4,200.0	0.00	0.00	4,200.0	0.00	0.0	0.0	0.0		0.0
4,300.0	0.00	0.00	4,300.0	0.00	0.0	0.0	0.0		0.0
4,400.0	0.00	0.00	4,400.0	0.00	0.0	0.0	0.0		0.0
4,500.0	0.00	0.00	4,500.0	0.00	0.0	0.0	0.0		0.0
4,600.0	0.00	0.00	4,600.0	0.00	0.0	0.0	0.0		0.0
4,700.0	0.00	0.00	4,700.0	0.00	0.0	0.0	0.0		0.0
4,800.0	0.00	0.00	4,800.0	0.00	0.0	0.0	0.0		0.0
4,900.0	0.00	0.00	4,900.0	0.00	0.0	0.0	0.0		0.0
5,000.0	0.00	0.00	5,000.0	0.00	0.0	0.0	0.0		0.0
5,100.0	0.00	0.00	5,100.0	0.00	0.0	0.0	0.0		0.0
5,200.0	0.00	0.00	5,200.0	0.00	0.0	0.0	0.0		0.0
5,300.0	0.00	0.00	5,300.0	0.00	0.0	0.0	0.0		0.0
5,400.0	0.00	0.00	5,400.0	0.00	0.0	0.0	0.0		0.0
5,500.0	0.00	0.00	5,500.0	0.00	0.0	0.0	0.0		0.0

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Survey Report

Company:	New Ventures	Local Co-ordinate Reference:	Well North Hayden 2-26H
Project:	Routt Co. CO NAD 83 CZ	TVD Reference:	RKB @ 6719.0usft (PD 706)
Site:	Sec 26-T07N-R88W	MD Reference:	RKB @ 6719.0usft (PD 706)
Well:	North Hayden 2-26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Permit Plan_1	Database:	OSC_EDM12

Planned Survey									
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	DLS (°/100usft)	VS (usft)	N/S (usft)	E/W (usft)		
5,600.0	0.00	0.00	5,600.0	0.00	0.0	0.0	0.0		0.0
5,700.0	0.00	0.00	5,700.0	0.00	0.0	0.0	0.0		0.0
5,800.0	0.00	0.00	5,800.0	0.00	0.0	0.0	0.0		0.0
5,900.0	0.00	0.00	5,900.0	0.00	0.0	0.0	0.0		0.0
6,000.0	0.00	0.00	6,000.0	0.00	0.0	0.0	0.0		0.0
6,100.0	0.00	0.00	6,100.0	0.00	0.0	0.0	0.0		0.0
6,200.0	0.00	0.00	6,200.0	0.00	0.0	0.0	0.0		0.0
6,300.0	0.00	0.00	6,300.0	0.00	0.0	0.0	0.0		0.0
6,400.0	0.00	0.00	6,400.0	0.00	0.0	0.0	0.0		0.0
6,500.0	0.00	0.00	6,500.0	0.00	0.0	0.0	0.0		0.0
6,600.0	0.00	0.00	6,600.0	0.00	0.0	0.0	0.0		0.0
6,700.0	0.00	0.00	6,700.0	0.00	0.0	0.0	0.0		0.0
6,800.0	0.00	0.00	6,800.0	0.00	0.0	0.0	0.0		0.0
6,900.0	0.00	0.00	6,900.0	0.00	0.0	0.0	0.0		0.0
7,000.0	0.00	0.00	7,000.0	0.00	0.0	0.0	0.0		0.0
7,100.0	0.00	0.00	7,100.0	0.00	0.0	0.0	0.0		0.0
7,200.0	0.00	0.00	7,200.0	0.00	0.0	0.0	0.0		0.0
7,300.0	0.00	0.00	7,300.0	0.00	0.0	0.0	0.0		0.0
7,400.0	0.00	0.00	7,400.0	0.00	0.0	0.0	0.0		0.0
7,500.0	0.00	0.00	7,500.0	0.00	0.0	0.0	0.0		0.0
7,600.0	0.00	0.00	7,600.0	0.00	0.0	0.0	0.0		0.0
7,700.0	0.00	0.00	7,700.0	0.00	0.0	0.0	0.0		0.0
7,800.0	0.00	0.00	7,800.0	0.00	0.0	0.0	0.0		0.0
7,900.0	0.00	0.00	7,900.0	0.00	0.0	0.0	0.0		0.0
8,000.0	0.00	0.00	8,000.0	0.00	0.0	0.0	0.0		0.0
8,100.0	0.00	0.00	8,100.0	0.00	0.0	0.0	0.0		0.0
8,200.0	0.00	0.00	8,200.0	0.00	0.0	0.0	0.0		0.0
8,300.0	0.00	0.00	8,300.0	0.00	0.0	0.0	0.0		0.0
8,400.0	0.00	0.00	8,400.0	0.00	0.0	0.0	0.0		0.0
8,500.0	0.00	0.00	8,500.0	0.00	0.0	0.0	0.0		0.0
8,600.0	0.00	0.00	8,600.0	0.00	0.0	0.0	0.0		0.0
8,637.9	0.00	0.00	8,637.9	0.00	0.0	0.0	0.0		0.0
8,700.0	5.59	239.73	8,699.9	9.00	3.0	-1.5	-2.6		
8,800.0	14.59	239.73	8,798.3	9.00	20.5	-10.3	-17.7		
8,900.0	23.59	239.73	8,892.7	9.00	53.2	-26.8	-45.9		
9,000.0	32.59	239.73	8,980.8	9.00	100.2	-50.5	-86.6		
9,100.0	41.59	239.73	9,060.5	9.00	160.5	-80.9	-138.6		
9,200.0	50.59	239.73	9,129.8	9.00	232.4	-117.2	-200.8		
9,300.0	59.59	239.73	9,186.9	9.00	314.4	-158.5	-271.5		
9,400.0	68.59	239.73	9,230.6	9.00	404.2	-203.7	-349.1		
9,500.0	77.59	239.73	9,259.6	9.00	499.8	-251.9	-431.7		
9,593.5	86.00	239.73	9,273.0	9.00	592.2	-298.5	-511.5		
9,600.0	86.00	239.73	9,273.4	0.00	598.7	-301.8	-517.1		
9,700.0	86.00	239.73	9,280.4	0.00	698.5	-352.1	-603.3		

Southwestern Energy

Survey Report

Company:	New Ventures	Local Co-ordinate Reference:	Well North Hayden 2-26H
Project:	Routt Co. CO NAD 83 CZ	TVD Reference:	RKB @ 6719.0usft (PD 706)
Site:	Sec 26-T07N-R88W	RKB Reference:	RKB @ 6719.0usft (PD 706)
Well:	North Hayden 2-26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Permit Plan_1	Database:	OSC_EDM12

Planned Survey								
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	DLS (°/100usft)	VS (usft)	N/S (usft)	E/W (usft)	
9,800.0	86.00	239.73	9,287.4	0.00	798.3	-402.4	-689.4	
9,900.0	86.00	239.73	9,294.4	0.00	898.0	-452.6	-775.6	
10,000.0	86.00	239.73	9,301.3	0.00	997.8	-502.9	-861.7	
10,100.0	86.00	239.73	9,308.3	0.00	1,097.5	-553.2	-947.9	
10,200.0	86.00	239.73	9,315.3	0.00	1,197.3	-603.5	-1,034.1	
10,300.0	86.00	239.73	9,322.3	0.00	1,297.0	-653.8	-1,120.2	
10,400.0	86.00	239.73	9,329.2	0.00	1,396.8	-704.1	-1,206.4	
10,500.0	86.00	239.73	9,336.2	0.00	1,496.5	-754.3	-1,292.5	
10,600.0	86.00	239.73	9,343.2	0.00	1,596.3	-804.6	-1,378.7	
10,700.0	86.00	239.73	9,350.2	0.00	1,696.1	-854.9	-1,464.8	
10,800.0	86.00	239.73	9,357.1	0.00	1,795.8	-905.2	-1,551.0	
10,900.0	86.00	239.73	9,364.1	0.00	1,895.6	-955.5	-1,637.2	
11,000.0	86.00	239.73	9,371.1	0.00	1,995.3	-1,005.8	-1,723.3	
11,100.0	86.00	239.73	9,378.1	0.00	2,095.1	-1,056.0	-1,809.5	
11,200.0	86.00	239.73	9,385.0	0.00	2,194.8	-1,106.3	-1,895.6	
11,300.0	86.00	239.73	9,392.0	0.00	2,294.6	-1,156.6	-1,981.8	
11,400.0	86.00	239.73	9,399.0	0.00	2,394.4	-1,206.9	-2,067.9	
11,500.0	86.00	239.73	9,406.0	0.00	2,494.1	-1,257.2	-2,154.1	
11,600.0	86.00	239.73	9,412.9	0.00	2,593.9	-1,307.5	-2,240.2	
11,700.0	86.00	239.73	9,419.9	0.00	2,693.6	-1,357.7	-2,326.4	
11,800.0	86.00	239.73	9,426.9	0.00	2,793.4	-1,408.0	-2,412.6	
11,900.0	86.00	239.73	9,433.9	0.00	2,893.1	-1,458.3	-2,498.7	
12,000.0	86.00	239.73	9,440.8	0.00	2,992.9	-1,508.6	-2,584.9	
12,100.0	86.00	239.73	9,447.8	0.00	3,092.7	-1,558.9	-2,671.0	
12,200.0	86.00	239.73	9,454.8	0.00	3,192.4	-1,609.2	-2,757.2	
12,300.0	86.00	239.73	9,461.8	0.00	3,292.2	-1,659.4	-2,843.3	
12,400.0	86.00	239.73	9,468.7	0.00	3,391.9	-1,709.7	-2,929.5	
12,500.0	86.00	239.73	9,475.7	0.00	3,491.7	-1,760.0	-3,015.7	
12,600.0	86.00	239.73	9,482.7	0.00	3,591.4	-1,810.3	-3,101.8	
12,700.0	86.00	239.73	9,489.7	0.00	3,691.2	-1,860.6	-3,188.0	
12,800.0	86.00	239.73	9,496.6	0.00	3,790.9	-1,910.8	-3,274.1	
12,900.0	86.00	239.73	9,503.6	0.00	3,890.7	-1,961.1	-3,360.3	
13,000.0	86.00	239.73	9,510.6	0.00	3,990.5	-2,011.4	-3,446.4	
13,100.0	86.00	239.73	9,517.6	0.00	4,090.2	-2,061.7	-3,532.6	
13,200.0	86.00	239.73	9,524.5	0.00	4,190.0	-2,112.0	-3,618.8	
13,300.0	86.00	239.73	9,531.5	0.00	4,289.7	-2,162.3	-3,704.9	
13,400.0	86.00	239.73	9,538.5	0.00	4,389.5	-2,212.5	-3,791.1	
13,500.0	86.00	239.73	9,545.5	0.00	4,489.2	-2,262.8	-3,877.2	
13,600.0	86.00	239.73	9,552.5	0.00	4,589.0	-2,313.1	-3,963.4	
13,700.0	86.00	239.73	9,559.4	0.00	4,688.8	-2,363.4	-4,049.5	
13,800.0	86.00	239.73	9,566.4	0.00	4,788.5	-2,413.7	-4,135.7	
13,900.0	86.00	239.73	9,573.4	0.00	4,888.3	-2,464.0	-4,221.9	
14,000.0	86.00	239.73	9,580.4	0.00	4,988.0	-2,514.2	-4,308.0	
14,100.0	86.00	239.73	9,587.3	0.00	5,087.8	-2,564.5	-4,394.2	
14,200.0	86.00	239.73	9,594.3	0.00	5,187.5	-2,614.8	-4,480.3	

Southwestern Energy

Survey Report

Company:	New Ventures	Local Co-ordinate Reference:	Well North Hayden 2-26H
Project:	Routt Co. CO NAD 83 CZ	TVD Reference:	RKB @ 6719.0usft (PD 706)
Site:	Sec 26-T07N-R88W	MD Reference:	RKB @ 6719.0usft (PD 706)
Well:	North Hayden 2-26H	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Permit Plan_1	Database:	OSC_EDM12

Planned Survey							
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	DLS (°/100usft)	VS (usft)	N/S (usft)	E/W (usft)
14,210.3	86.00	239.73	9,595.0	0.00	5,197.9	-2,620.0	-4,489.2

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
9,316.3	9,195.0	Wolf Mtn		0.00		
8,866.9	8,862.0	Tow Creek		0.00		
8,544.0	8,544.0	Buck Peak		0.00		

Checked By: _____ Approved By: _____ Date: _____