



30-015-41428

Legend Natural Gas

Eddy County, New Mexico

State GQ

State GQ 5H

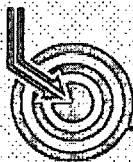
Original Wellpath

Design: Original Wellpath



Standard Survey Report

12 August, 2013



Scientific Drilling

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Scientific Drilling Survey Report



Company:	Legend Natural Gas	Local Co-ordinate Reference:	Well State GQ 5H
Project:	Eddy County, New Mexico	TVD Reference:	KB @ 3078.0usft (24' KB)
Site:	State GQ	MD Reference:	KB @ 3078.0usft (24' KB)
Well:	State GQ 5H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellpath	Database:	CompassC

Project	Eddy County, New Mexico		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	State GQ		
Site Position:	Northing:	418,855.50 usft	Latitude: 32° 9' 4.822 N
From: Map	Easting:	606,046.40 usft	Longitude: 104° 7' 27.275 W
Position Uncertainty:	0.0 usft	Slot Radius: 13-3/16 "	Grid Convergence: 0.11 °

Well	State GQ 5H		
Well Position	+N/-S	0.0 usft	Northing: 418,856.00 usft
	+E/-W	0.0 usft	Easting: 606,076.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
			Ground Level: 3,054.0 usft

Wellbore	Original Wellpath				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	5/31/2013	7.59	59.98	48,318

Design		Original Wellpath			
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction:	
	(usft)	(usft)	(usft)	(°)	
	0.0	0.0	0.0		173.79

Survey Program		Date 8/12/2013		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.0	2,490.0	MS Gyro (Original Wellpath)	SRG-GYRO-MS	surface readout gyro multishot
2,614.0	12,700.0	SDI MWD (Original Wellpath)	MWD	MWD - Standard

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.29	336.77	100.0	0.2	-0.1	-0.2	0.29	0.29	0.00
200.0	1.21	48.03	200.0	1.2	0.6	-1.1	1.15	0.92	71.26
300.0	1.07	42.05	300.0	2.6	2.0	-2.3	0.18	-0.14	-5.98
400.0	0.70	193.24	400.0	2.7	2.5	-2.4	1.72	-0.37	151.19
500.0	0.84	196.10	500.0	1.4	2.1	-1.1	0.15	0.14	2.86
600.0	0.84	193.15	599.9	0.0	1.8	0.2	0.04	0.00	-2.95
700.0	0.80	182.46	699.9	-1.5	1.6	1.6	0.16	-0.04	-10.69
800.0	0.69	159.11	799.9	-2.7	1.8	2.9	0.32	-0.11	-23.35
900.0	0.62	114.84	899.9	-3.5	2.5	3.8	0.50	-0.07	-44.27



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Well:	State GQ 5H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellpath	Database:	CompassC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,000.0	1.29	29.50	999.9	-2.8	3.5	3.1	1.39	0.67	-85.34
1,100.0	2.20	5.91	1,099.9	0.1	4.3	0.3	1.14	0.91	-23.59
1,200.0	2.20	3.39	1,199.8	4.0	4.6	-3.4	0.10	0.00	-2.52
1,300.0	2.27	5.94	1,299.7	7.8	4.9	-7.3	0.12	0.07	2.55
1,400.0	2.81	8.11	1,399.6	12.2	5.4	-11.6	0.55	0.54	2.17
1,500.0	3.46	15.46	1,499.5	17.6	6.6	-16.8	0.76	0.65	7.35
1,600.0	3.71	16.99	1,599.3	23.6	8.3	-22.5	0.27	0.25	1.53
1,700.0	4.85	28.43	1,699.0	30.4	11.3	-29.0	1.42	1.14	11.44
1,800.0	5.69	45.30	1,798.6	37.6	16.8	-35.6	1.75	0.84	16.87
1,900.0	5.80	49.06	1,898.1	44.4	24.2	-41.5	0.39	0.11	3.76
2,000.0	5.26	50.84	1,997.6	50.6	31.5	-46.9	0.57	-0.54	1.78
2,100.0	5.39	58.06	2,097.2	56.0	39.1	-51.4	0.68	0.13	7.22
2,200.0	5.43	64.46	2,196.7	60.5	47.3	-55.0	0.60	0.04	6.40
2,300.0	4.41	61.74	2,296.4	64.4	55.0	-58.0	1.05	-1.02	-2.72
2,400.0	3.95	60.23	2,396.1	67.9	61.4	-60.9	0.47	-0.46	-1.51
2,490.0	3.14	58.53	2,485.9	70.7	66.2	-63.1	0.91	-0.90	-1.89
2,491.1	3.14	58.58	2,487.0	70.8	66.2	-63.2	0.52	0.44	5.04
Bell Canyon top									
2,614.0	3.70	63.85	2,609.7	74.3	72.7	-66.0	0.52	0.45	4.28
2,677.0	4.80	70.51	2,672.5	76.0	77.0	-67.3	1.91	1.75	10.57
2,772.0	6.30	79.63	2,767.1	78.3	85.8	-68.5	1.83	1.58	9.60
2,866.0	6.49	81.35	2,860.5	80.0	96.2	-69.1	0.29	0.20	1.83
2,960.0	6.67	84.21	2,953.9	81.4	106.8	-69.3	0.40	0.19	3.04
3,055.0	7.00	83.87	3,048.2	82.5	118.1	-69.3	0.35	0.35	-0.36
3,149.0	7.16	84.28	3,141.5	83.7	129.6	-69.2	0.18	0.17	0.44
3,244.0	6.87	81.37	3,235.8	85.2	141.1	-69.4	0.48	-0.31	-3.06
3,337.0	6.80	81.32	3,328.1	86.9	152.1	-69.9	0.08	-0.08	-0.05
3,431.0	6.96	82.29	3,421.4	88.5	163.2	-70.3	0.21	0.17	1.03
3,526.0	7.15	82.62	3,515.7	90.0	174.8	-70.5	0.20	0.20	0.35
3,620.0	6.94	83.00	3,609.0	91.4	186.2	-70.7	0.23	-0.22	0.40
3,809.0	6.92	80.73	3,796.6	94.7	208.8	-71.5	0.15	-0.01	-1.20
3,997.0	7.21	80.47	3,983.2	98.4	231.6	-72.8	0.16	0.15	-0.14
4,187.0	7.55	80.29	4,171.6	102.5	255.7	-74.2	0.18	0.18	-0.09
4,375.0	7.81	80.58	4,357.9	106.7	280.4	-75.7	0.14	0.14	0.15
4,565.0	6.09	79.98	4,546.5	110.6	303.1	-77.1	0.91	-0.91	-0.32
4,754.0	5.87	79.51	4,734.5	114.1	322.5	-78.5	0.12	-0.12	-0.25
4,943.0	5.20	79.66	4,922.6	117.4	340.4	-79.8	0.35	-0.35	0.08
5,131.0	5.00	81.15	5,109.9	120.1	356.9	-80.8	0.13	-0.11	0.79
5,320.0	5.00	82.20	5,298.2	122.5	373.2	-81.4	0.05	0.00	0.56
5,508.0	4.97	84.92	5,485.5	124.4	389.4	-81.5	0.13	-0.02	1.45
5,697.0	5.43	72.68	5,673.7	127.7	406.1	-83.1	0.63	0.24	-6.48
5,886.0	4.42	74.33	5,862.0	132.4	421.6	-86.0	0.54	-0.53	0.87
6,056.4	3.15	88.69	6,032.0	134.3	432.7	-86.7	0.92	-0.74	8.43



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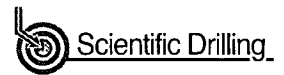


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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Bone Spring Top									
6,075.0	3.03	90.95	6,050.6	134.3	433.7	-86.6	0.92	-0.65	12.16
6,151.5	2.69	85.95	6,127.0	134.4	437.5	-86.2	0.56	-0.45	-6.53
BN Sprg Avalon Upper									
6,264.0	2.23	75.94	6,239.4	135.1	442.2	-86.4	0.56	-0.40	-8.90
6,350.7	1.69	48.03	6,326.0	136.3	444.8	-87.4	1.25	-0.62	-32.20
BN Sprg Sh Top									
6,452.0	1.83	6.21	6,427.3	138.9	446.1	-89.9	1.25	0.14	-41.27
6,498.7	1.57	7.99	6,474.0	140.3	446.3	-91.2	0.57	-0.56	3.80
BN Sprg B Ls Top									
6,581.8	1.11	13.21	6,557.0	142.2	446.6	-93.1	0.57	-0.55	6.29
BN Sprg B Ls Bse									
6,641.0	0.79	20.62	6,616.2	143.2	446.9	-94.0	0.57	-0.54	12.50
6,755.8	0.57	71.97	6,731.0	144.1	447.7	-94.8	0.54	-0.19	44.74
BN Sprg C Ls									
6,829.0	0.74	104.11	6,804.2	144.1	448.5	-94.7	0.54	0.23	43.89
6,948.8	0.90	103.68	6,924.0	143.7	450.2	-94.1	0.13	0.13	-0.36
SH VTGT									
6,994.8	0.96	103.56	6,970.0	143.5	450.9	-93.9	0.13	0.13	-0.27
BN Sprg 1st Cedar									
7,018.0	0.99	103.50	6,993.2	143.4	451.3	-93.7	0.13	0.13	-0.25
7,206.0	0.64	185.76	7,181.2	142.0	452.8	-92.2	0.59	-0.19	43.76
7,284.8	0.64	196.41	7,260.0	141.1	452.6	-91.3	0.15	0.00	13.51
BN Sprg 1st Cedar B									
7,394.0	0.68	210.35	7,369.2	140.0	452.1	-90.2	0.15	0.03	12.77
7,455.0	0.97	186.54	7,430.2	139.1	451.8	-89.4	0.73	0.48	-39.03
7,473.0	0.78	191.20	7,448.2	138.9	451.8	-89.2	1.13	-1.06	25.89
7,504.0	0.88	196.78	7,479.2	138.4	451.7	-88.8	0.41	0.32	18.00
7,536.0	0.79	191.24	7,511.2	138.0	451.6	-88.3	0.38	-0.28	-17.31
7,567.0	2.99	172.26	7,542.1	137.0	451.6	-87.3	7.28	7.10	-61.23
7,599.0	7.21	170.76	7,574.0	134.2	452.1	-84.5	13.19	13.19	-4.69
7,630.0	12.57	172.43	7,604.5	128.9	452.8	-79.1	17.31	17.29	5.39
7,662.0	17.32	175.51	7,635.4	120.7	453.7	-70.9	15.04	14.84	9.63
7,693.0	21.37	175.86	7,664.7	110.5	454.4	-60.6	13.07	13.06	1.13
7,725.0	26.17	177.93	7,694.0	97.6	455.1	-47.8	15.22	15.00	6.47
7,743.0	28.48	179.84	7,710.0	89.3	455.3	-39.5	13.72	12.82	10.61
BN Sprg 2nd Sand									
7,756.0	30.16	181.05	7,721.3	83.0	455.2	-33.2	13.72	12.94	9.31
7,788.0	34.12	180.61	7,748.4	65.9	455.0	-16.3	12.40	12.38	-1.38
7,819.0	38.69	177.00	7,773.3	47.6	455.4	2.0	16.28	14.74	-11.65
7,851.0	43.35	175.07	7,797.5	26.6	456.9	23.0	15.09	14.56	-6.03
7,882.0	47.31	174.81	7,819.3	4.7	458.8	45.0	12.79	12.77	-0.84
7,914.0	50.91	177.00	7,840.2	-19.5	460.5	69.2	12.38	11.25	6.84
7,945.0	54.87	178.15	7,858.9	-44.2	461.6	93.8	13.11	12.77	3.71



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Site:	State GO	MD Reference:	KB @ 3078.0usft (24' KB)
Well:	State GO 5H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellpath	Database:	CompassC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,976.0	59.09	179.11	7,875.8	-70.1	462.2	119.7	13.86	13.61	3.10
8,008.0	62.17	178.67	7,891.5	-98.0	462.7	147.5	9.70	9.63	-1.38
8,039.0	62.43	178.94	7,905.9	-125.5	463.3	174.8	1.14	0.84	0.87
8,048.5	62.51	178.84	7,910.3	-133.9	463.5	183.2	1.29	0.84	-1.10
330' Entry @ 8048.5' MD									
8,071.0	62.70	178.59	7,920.6	-153.9	463.9	203.1	1.29	0.84	-1.09
8,081.8	64.02	178.68	7,925.5	-163.5	464.1	212.8	12.22	12.19	0.86
5H PP									
8,102.0	66.48	178.85	7,933.9	-181.8	464.5	231.0	12.22	12.19	0.83
8,133.0	70.52	179.90	7,945.3	-210.7	464.8	259.7	13.41	13.03	3.39
8,165.0	74.22	180.34	7,955.0	-241.2	464.8	290.0	11.64	11.56	1.38
8,196.0	76.59	180.43	7,962.8	-271.2	464.6	319.8	7.65	7.65	0.29
8,228.0	78.79	179.73	7,969.6	-302.4	464.5	350.9	7.20	6.88	-2.19
8,259.0	80.99	178.32	7,975.1	-332.9	465.0	381.3	8.39	7.10	-4.55
8,291.0	83.89	178.76	7,979.3	-364.6	465.9	412.9	9.16	9.06	1.38
8,354.0	90.57	178.50	7,982.3	-427.5	467.4	475.6	10.61	10.60	-0.41
8,448.0	91.71	178.41	7,980.4	-521.5	469.9	569.2	1.22	1.21	-0.10
8,542.0	91.01	178.67	7,978.2	-615.4	472.3	662.9	0.79	-0.74	0.28
8,637.0	90.48	179.82	7,977.0	-710.4	473.5	757.5	1.33	-0.56	1.21
8,731.0	90.31	179.55	7,976.3	-804.4	474.1	851.0	0.34	-0.18	-0.29
8,825.0	89.43	179.90	7,976.5	-898.4	474.5	944.4	1.01	-0.94	0.37
8,920.0	88.20	180.43	7,978.5	-993.4	474.2	1,038.8	1.41	-1.29	0.56
9,014.0	89.34	180.34	7,980.5	-1,087.3	473.6	1,132.2	1.22	1.21	-0.10
9,109.0	89.87	180.78	7,981.2	-1,182.3	472.7	1,226.5	0.73	0.56	0.46
9,203.0	90.66	180.78	7,980.7	-1,276.3	471.4	1,319.8	0.84	0.84	0.00
9,297.0	90.31	180.70	7,980.0	-1,370.3	470.2	1,413.1	0.38	-0.37	-0.09
9,391.0	90.22	180.26	7,979.5	-1,464.3	469.4	1,506.5	0.48	-0.10	-0.47
9,486.0	91.01	179.73	7,978.5	-1,559.3	469.4	1,600.9	1.00	0.83	-0.56
9,580.0	89.87	179.82	7,977.8	-1,653.3	469.8	1,694.4	1.22	-1.21	0.10
9,674.0	90.48	179.90	7,977.5	-1,747.3	470.0	1,787.9	0.65	0.65	0.09
9,769.0	89.96	179.47	7,977.1	-1,842.3	470.5	1,882.4	0.71	-0.55	-0.45
9,863.0	90.75	179.64	7,976.5	-1,936.3	471.3	1,975.9	0.86	0.84	0.18
9,957.0	89.43	179.29	7,976.4	-2,030.3	472.1	2,069.4	1.45	-1.40	-0.37
10,050.0	90.57	179.47	7,976.4	-2,123.3	473.1	2,162.0	1.24	1.23	0.19
10,145.0	89.69	178.85	7,976.2	-2,218.3	474.5	2,256.6	1.13	-0.93	-0.65
10,239.0	90.22	178.76	7,976.3	-2,312.2	476.5	2,350.2	0.57	0.56	-0.10
10,333.0	88.81	178.85	7,977.0	-2,406.2	478.5	2,443.8	1.50	-1.50	0.10
10,427.0	89.25	179.03	7,978.6	-2,500.2	480.2	2,537.5	0.51	0.47	0.19
10,522.0	89.87	179.20	7,979.4	-2,595.2	481.7	2,632.0	0.68	0.65	0.18
10,615.0	90.22	179.47	7,979.3	-2,688.2	482.7	2,724.6	0.48	0.38	0.29
10,709.0	91.01	179.82	7,978.3	-2,782.1	483.3	2,818.1	0.92	0.84	0.37
10,803.0	90.57	179.99	7,977.0	-2,876.1	483.5	2,911.6	0.50	-0.47	0.18
10,898.0	91.10	180.17	7,975.6	-2,971.1	483.3	3,006.0	0.59	0.56	0.19
10,992.0	90.57	179.29	7,974.2	-3,065.1	483.8	3,099.5	1.09	-0.56	-0.94



Scientific Drilling Survey Report



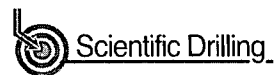
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Design:	Original Wellpath	Database:	CompassC

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
11,086.0	91.01	179.29	7,972.9	-3,159.1	484.9	3,193.0	0.47	0.47	0.00	
11,181.0	89.43	178.94	7,972.6	-3,254.1	486.4	3,287.6	1.70	-1.66	-0.37	
11,276.0	89.78	178.59	7,973.2	-3,349.1	488.5	3,382.2	0.52	0.37	-0.37	
11,371.0	89.69	178.59	7,973.7	-3,444.0	490.8	3,476.9	0.09	-0.09	0.00	
11,465.0	89.87	178.67	7,974.0	-3,538.0	493.0	3,570.6	0.21	0.19	0.09	
11,560.0	90.04	178.41	7,974.1	-3,633.0	495.5	3,665.3	0.33	0.18	-0.27	
11,654.0	91.63	177.80	7,972.7	-3,726.9	498.6	3,759.0	1.81	1.69	-0.65	
11,748.0	91.45	177.53	7,970.2	-3,820.8	502.4	3,852.7	0.35	-0.19	-0.29	
11,842.0	91.01	178.15	7,968.2	-3,914.7	505.9	3,946.5	0.81	-0.47	0.66	
11,937.0	89.69	178.15	7,967.6	-4,009.7	509.0	4,041.2	1.39	-1.39	0.00	
12,032.0	88.90	178.41	7,968.8	-4,104.6	511.9	4,135.9	0.88	-0.83	0.27	
12,126.0	88.99	178.94	7,970.5	-4,198.6	514.0	4,229.5	0.57	0.10	0.56	
12,220.0	90.13	179.03	7,971.2	-4,292.5	515.7	4,323.1	1.22	1.21	0.10	
12,314.0	90.75	178.94	7,970.5	-4,386.5	517.4	4,416.7	0.67	0.66	-0.10	
12,409.0	90.13	178.94	7,969.8	-4,481.5	519.1	4,511.4	0.65	-0.65	0.00	
12,503.0	89.43	178.94	7,970.1	-4,575.5	520.9	4,605.0	0.74	-0.74	0.00	
12,597.0	89.96	178.94	7,970.6	-4,669.5	522.6	4,698.6	0.56	0.56	0.00	
12,646.0	90.31	178.59	7,970.5	-4,718.5	523.7	4,747.4	1.01	0.71	-0.71	
SDI MWD										
12,675.1	90.31	178.59	7,970.4	-4,747.5	524.4	4,776.4	0.00	0.00	0.00	
5H BHL										
12,675.7	90.31	178.59	7,970.4	-4,748.1	524.4	4,777.0	0.00	0.00	0.00	
330' Exit @ 12675.7' MD										
12,700.0	90.31	178.59	7,970.2	-4,772.4	525.0	4,801.2	0.00	0.00	0.00	
Bit Projection										

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction	
2,491.1	2,487.0	Bell Canyon top				
6,056.4	6,032.0	Bone Spring Top				
6,151.5	6,127.0	BN Sprg Avalon Upper				
6,350.7	6,326.0	BN Sprg Sh Top				
6,498.7	6,474.0	BN Sprg B Ls Top				
6,581.8	6,557.0	BN Sprg B Ls Bse				
6,755.8	6,731.0	BN Sprg C LS				
6,994.8	6,970.0	BN Sprg 1st Cedar				
7,284.8	7,260.0	BN Sprg 1st Cedar B				
7,743.0	7,710.0	BN Sprg 2nd Sand				



Scientific Drilling
Survey Report



Company:	Legend Natural Gas	Local Co-ordinate Reference:	Well State GQ 5H
Project:	Eddy County, New Mexico	TVD Reference:	KB @ 3078.0usft (24' KB)
Site:	State GQ	MD Reference:	KB @ 3078.0usft (24' KB)
Well:	State GQ 5H	North Reference:	Grid
Wellbore:	Original Wellpath	Survey Calculation Method:	Minimum Curvature
Design:	Original Wellpath	Database:	CompassC

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,048.5	7,910.3	-133.9	463.5	330' Entry @ 8048.5' MD
12,646.0	7,970.5	-4,718.5	523.7	SDI MWD
12,675.7	7,970.4	-4,748.1	524.4	330' Exit @ 12675.7' MD
12,700.0	7,970.2	-4,772.4	525.0	Bit Projection

Checked By: _____ Approved By: _____ Date: _____