



43230

Legacy Reserves Operating

Lea County, NM

Hamon Fed Pad

Hamon Fed Com A #5H

Wellbore #2

Design: Wellbore #2

Standard Survey Report

17 July, 2017





Integrity Directional Services, LLC

Survey Report



Company: Legacy Reserves Operating
Project: Lea County, NM
Site: Hamon Fed Pad
Well: Hamon Fed Com A #5H
Wellbore: Wellbore #2
Design: Wellbore #2

Local Co-ordinate Reference: Well Hamon Fed Com A #5H
TVD Reference: KB= 18 @ 3628.00ft (McVay)
MD Reference: KB= 18 @ 3628.00ft (McVay)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Multi User Db

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

Site	Hamon Fed Pad			
Site Position:		Northing:	580,846.2000 usft	Latitude: 32.5954069
From: Map		Easting:	723,480.4000 usft	Longitude: -103.7419035
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16 "	Grid Convergence: 0.32 °

Well	Hamon Fed Com A #5H			
Well Position	+N/-S	0.00 ft	Northing:	581,480.4000 usft
	+E/-W	0.00 ft	Easting:	726,776.5000 usft
Position Uncertainty	0.00 ft		Wellhead Elevation:	0.00 ft
			Ground Level:	3,610.00 ft

Wellbore	Wellbore #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	7/3/2017	7.08	60.55	48,412

Design	Wellbore #2				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	5,375.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	183.69	

Survey Program	Date 7/17/2017				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100.00	5,375.00	Survey #2 (Wellbore #1)	MWD	MWD - Standard	
5,405.00	14,415.00	MWD Surveys (Wellbore #2)	MWD	MWD - Standard	

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	0.94	172.22	100.00	-0.81	0.11	0.80	0.94	0.94	0.00	
200.00	0.82	172.20	199.98	-2.33	0.32	2.31	0.12	-0.12	-0.02	
300.00	0.80	148.43	299.97	-3.64	0.78	3.58	0.33	-0.02	-23.77	
400.00	0.85	145.01	399.96	-4.84	1.57	4.73	0.07	0.05	-3.42	
500.00	0.73	144.14	499.95	-5.96	2.37	5.80	0.12	-0.12	-0.87	
600.00	0.53	158.54	599.95	-6.91	2.91	6.71	0.25	-0.20	14.40	
700.00	0.45	182.29	699.94	-7.73	3.07	7.52	0.22	-0.08	23.75	
800.00	0.47	173.77	799.94	-8.53	3.10	8.32	0.07	0.02	-8.52	
900.00	0.32	206.42	899.94	-9.19	3.02	8.98	0.26	-0.15	32.65	



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Wellbore: Wellbore #2
Design: Wellbore #2

Local Co-ordinate Reference: Well Hamon Fed Com A #5H
TVD Reference: KB= 18 @ 3628.00ft (McVay)
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North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Multi User Db

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)
1,000.00	0.29	247.67	999.94	-9.54	2.66	9.35	0.22	-0.03	41.25
1,100.00	0.32	253.08	1,099.94	-9.72	2.16	9.56	0.04	0.03	5.41
1,200.00	0.77	277.71	1,199.93	-9.71	1.22	9.61	0.50	0.45	24.63
1,300.00	0.94	271.70	1,299.92	-9.59	-0.26	9.59	0.19	0.17	-6.01
1,400.00	1.13	267.36	1,399.90	-9.61	-2.07	9.73	0.21	0.19	-4.34
1,500.00	1.15	268.31	1,499.88	-9.69	-4.06	9.93	0.03	0.02	0.95
1,600.00	1.33	248.08	1,599.86	-10.15	-6.13	10.53	0.47	0.18	-20.23
1,700.00	1.29	246.73	1,699.84	-11.03	-8.25	11.54	0.05	-0.04	-1.35
1,800.00	0.69	249.12	1,799.82	-11.69	-9.84	12.30	0.60	-0.60	2.39
1,900.00	0.58	239.47	1,899.81	-12.16	-10.84	12.83	0.15	-0.11	-9.65
2,000.00	0.43	268.96	1,999.81	-12.42	-11.65	13.15	0.30	-0.15	29.49
2,100.00	0.18	232.82	2,099.81	-12.53	-12.15	13.28	0.30	-0.25	-36.14
2,200.00	0.26	224.87	2,199.81	-12.78	-12.44	13.56	0.09	0.08	-7.95
2,300.00	0.11	328.48	2,299.81	-12.86	-12.65	13.65	0.31	-0.15	103.61
2,400.00	0.11	154.91	2,399.81	-12.87	-12.66	13.65	0.22	0.00	-173.57
2,500.00	0.23	181.34	2,499.81	-13.15	-12.62	13.94	0.14	0.12	26.43
2,600.00	0.17	348.43	2,599.81	-13.21	-12.66	14.00	0.40	-0.06	167.09
2,700.00	0.73	141.41	2,699.80	-13.56	-12.29	14.32	0.88	0.56	152.98
2,800.00	0.34	138.66	2,799.80	-14.28	-11.69	15.01	0.39	-0.39	-2.75
2,900.00	0.53	69.72	2,899.80	-14.34	-11.07	15.03	0.52	0.19	-68.94
3,000.00	0.68	164.80	2,999.79	-14.76	-10.48	15.40	0.90	0.15	95.08
3,100.00	0.72	62.91	3,099.79	-15.04	-9.76	15.64	1.09	0.04	-101.89
3,200.00	0.46	64.07	3,199.78	-14.58	-8.84	15.12	0.26	-0.26	1.16
3,300.00	0.22	148.50	3,299.78	-14.57	-8.38	15.08	0.49	-0.24	84.43
3,400.00	3.81	242.36	3,399.71	-16.28	-11.22	16.96	3.83	3.59	93.86
3,500.00	5.12	253.54	3,499.41	-19.08	-18.45	20.23	1.57	1.31	11.18
3,600.00	5.57	251.86	3,598.97	-21.86	-27.34	23.57	0.48	0.45	-1.68
3,700.00	3.61	241.03	3,698.65	-24.89	-34.70	27.08	2.13	-1.96	-10.83
3,800.00	1.20	236.22	3,798.55	-27.00	-38.33	29.41	2.42	-2.41	-4.81
3,900.00	0.10	305.89	3,898.54	-27.53	-39.27	30.00	1.17	-1.10	69.67
4,000.00	0.26	135.41	3,998.54	-27.64	-39.18	30.11	0.36	0.16	-170.48
4,100.00	0.21	203.54	4,098.54	-27.97	-39.10	30.43	0.27	-0.05	68.13
4,200.00	0.35	162.72	4,198.54	-28.43	-39.08	30.89	0.24	0.14	-40.82
4,300.00	0.81	115.56	4,298.54	-29.03	-38.35	31.44	0.63	0.46	-47.16
4,400.00	1.41	88.99	4,398.52	-29.31	-36.48	31.60	0.78	0.60	-26.57
4,500.00	1.92	78.79	4,498.48	-28.96	-33.61	31.07	0.59	0.51	-10.20
4,600.00	2.49	74.25	4,598.40	-28.05	-29.87	29.91	0.60	0.57	-4.54
4,700.00	2.99	83.52	4,698.29	-27.16	-25.19	28.73	0.67	0.50	9.27
4,800.00	3.81	85.18	4,798.11	-26.59	-19.29	27.78	0.83	0.82	1.66
4,900.00	5.08	99.48	4,897.81	-27.04	-11.61	27.73	1.68	1.27	14.30
5,000.00	6.32	101.50	4,997.31	-28.87	-1.85	28.93	1.26	1.24	2.02
5,100.00	7.50	96.84	5,096.59	-30.74	10.02	30.03	1.31	1.18	-4.66
5,200.00	9.17	100.41	5,195.53	-32.96	24.34	31.32	1.75	1.67	3.57



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Wellbore: Wellbore #2
Design: Wellbore #2

Local Co-ordinate Reference: Well Hamon Fed Com A #5H
TVD Reference: KB= 18 @ 3628.00ft (McVay)
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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)
5,300.00	11.23	100.34	5,293.94	-36.15	41.76	33.38	2.06	2.06	-0.07
5,375.00	12.49	100.22	5,367.34	-38.90	56.93	35.15	1.68	1.68	-0.16
5,405.00	13.10	97.10	5,396.59	-39.89	63.49	35.72	3.07	2.03	-10.40
First MWD Survey @ 5405' MD									
5,499.00	9.50	98.00	5,488.76	-42.29	81.75	36.94	3.83	-3.83	0.96
5,688.00	7.80	109.20	5,675.61	-48.68	109.31	41.54	1.26	-0.90	5.93
5,782.00	6.20	115.60	5,768.91	-52.97	119.91	45.14	1.89	-1.70	6.81
5,877.00	5.00	123.30	5,863.46	-57.46	128.00	49.10	1.49	-1.26	8.11
5,971.00	4.60	145.90	5,957.14	-62.83	133.54	54.10	2.04	-0.43	24.04
6,065.00	5.80	171.30	6,050.76	-70.65	136.37	61.72	2.73	1.28	27.02
6,160.00	6.90	195.60	6,145.19	-80.89	135.56	71.99	3.03	1.16	25.58
6,254.00	7.50	202.40	6,238.45	-92.00	131.71	83.33	1.11	0.64	7.23
6,337.00	7.40	222.40	6,320.77	-100.96	126.04	92.63	3.11	-0.12	24.10
6,431.00	8.30	224.90	6,413.88	-110.24	117.16	102.46	1.02	0.96	2.66
6,526.00	9.10	239.80	6,507.80	-118.87	105.83	111.81	2.51	0.84	15.68
6,620.00	11.30	245.60	6,600.31	-126.42	91.02	120.29	2.58	2.34	6.17
6,715.00	13.70	244.30	6,693.06	-135.14	72.40	130.20	2.54	2.53	-1.37
6,809.00	13.60	243.90	6,784.40	-144.83	52.45	141.15	0.15	-0.11	-0.43
6,903.00	13.10	243.40	6,875.86	-154.46	33.00	152.02	0.55	-0.53	-0.53
6,998.00	14.00	244.20	6,968.22	-164.29	13.02	163.11	0.97	0.95	0.84
7,092.00	13.60	244.10	7,059.50	-174.06	-7.16	174.16	0.43	-0.43	-0.11
7,187.00	12.70	244.70	7,152.01	-183.40	-26.64	184.74	0.96	-0.95	0.63
7,281.00	13.50	243.60	7,243.56	-192.70	-45.81	195.25	0.89	0.85	-1.17
7,375.00	13.10	243.50	7,335.04	-202.33	-65.18	206.11	0.43	-0.43	-0.11
7,469.00	13.00	244.20	7,426.61	-211.68	-84.23	216.67	0.20	-0.11	0.74
7,564.00	14.10	243.50	7,518.97	-221.50	-104.20	227.75	1.17	1.16	-0.74
7,658.00	13.80	244.50	7,610.20	-231.43	-124.57	238.98	0.41	-0.32	1.06
7,752.00	12.70	244.70	7,701.69	-240.68	-144.03	249.45	1.17	-1.17	0.21
7,847.00	13.80	244.00	7,794.16	-250.11	-163.66	260.13	1.17	1.16	-0.74
7,941.00	13.50	243.80	7,885.51	-259.87	-183.58	271.15	0.32	-0.32	-0.21
8,036.00	12.80	243.90	7,978.01	-269.39	-202.98	281.91	0.74	-0.74	0.11
8,130.00	13.70	240.30	8,069.51	-279.49	-222.00	293.21	1.30	0.96	-3.83
8,224.00	13.40	238.90	8,160.90	-290.63	-240.99	305.55	0.47	-0.32	-1.49
8,319.00	13.10	238.20	8,253.37	-301.99	-259.57	318.08	0.36	-0.32	-0.74
8,413.00	12.00	239.10	8,345.12	-312.62	-277.01	329.81	1.19	-1.17	0.96
8,507.00	11.10	238.40	8,437.22	-322.38	-293.10	340.59	0.97	-0.96	-0.74
8,602.00	9.40	231.90	8,530.70	-331.96	-307.00	351.04	2.16	-1.79	-6.84
8,696.00	8.10	235.60	8,623.60	-340.44	-318.50	360.25	1.51	-1.38	3.94
8,790.00	7.40	232.50	8,716.75	-347.86	-328.77	368.32	0.87	-0.74	-3.30
8,880.00	7.30	235.10	8,806.01	-354.66	-338.06	375.70	0.39	-0.11	2.89
8,930.00	7.10	236.00	8,855.61	-358.21	-343.22	379.57	0.46	-0.40	1.80
8,978.00	11.80	211.50	8,902.97	-364.06	-348.25	385.73	12.68	9.79	-51.04
9,025.00	19.20	204.90	8,948.23	-375.18	-354.03	397.21	16.16	15.74	-14.04



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9,072.00	22.60	200.30	8,992.13	-390.67	-360.41	413.07	8.03	7.23	-9.79
9,119.00	24.50	197.30	9,035.22	-408.44	-366.45	431.20	4.78	4.04	-6.38
9,167.00	26.70	193.00	9,078.51	-428.46	-371.83	451.52	6.00	4.58	-8.96
9,214.00	30.00	189.10	9,119.87	-450.36	-376.07	473.64	8.05	7.02	-8.30
9,261.00	34.20	186.90	9,159.67	-475.08	-379.52	498.54	9.27	8.94	-4.68
9,308.00	38.10	185.30	9,197.62	-502.65	-382.44	526.24	8.54	8.30	-3.40
9,355.00	41.80	185.10	9,233.64	-532.70	-385.18	556.40	7.88	7.87	-0.43
9,402.00	45.80	183.00	9,267.56	-565.14	-387.45	588.92	9.05	8.51	-4.47
9,450.00	50.80	181.50	9,299.48	-600.94	-388.84	624.73	10.67	10.42	-3.13
9,458.74	51.52	181.34	9,304.96	-607.74	-389.01	631.54	8.41	8.29	-1.78
North Lease Line Crossing @ 9458.74' MD									
9,497.00	54.70	180.70	9,327.93	-638.33	-389.55	662.10	8.41	8.30	-1.69
9,544.00	59.90	180.20	9,353.31	-677.87	-389.86	701.57	11.10	11.06	-1.06
9,591.00	65.50	181.00	9,374.86	-719.62	-390.30	743.26	12.01	11.91	1.70
9,638.00	70.40	181.60	9,392.50	-763.15	-391.29	786.77	10.49	10.43	1.28
9,685.00	76.00	181.80	9,406.08	-808.11	-392.63	831.72	11.92	11.91	0.43
9,733.00	81.10	181.10	9,415.60	-855.12	-393.82	878.71	10.72	10.63	-1.46
9,799.00	82.50	180.20	9,425.02	-920.44	-394.56	943.94	2.51	2.12	-1.36
9,816.45	82.57	180.24	9,427.28	-937.74	-394.62	961.21	0.47	0.42	0.21
North 330' Hardline Crossing @ 9816.45' MD									
9,847.00	82.70	180.30	9,431.20	-968.04	-394.76	991.46	0.47	0.42	0.21
9,894.00	82.70	180.40	9,437.17	-1,014.66	-395.05	1,038.00	0.21	0.00	0.21
9,941.00	83.40	180.60	9,442.86	-1,061.31	-395.45	1,084.58	1.55	1.49	0.43
9,988.00	84.70	181.80	9,447.73	-1,108.05	-396.43	1,131.28	3.75	2.77	2.55
10,035.00	85.80	182.70	9,451.62	-1,154.85	-398.27	1,178.10	3.02	2.34	1.91
10,082.00	87.50	182.30	9,454.37	-1,201.72	-400.32	1,225.01	3.72	3.62	-0.85
10,129.00	89.50	182.30	9,455.60	-1,248.67	-402.21	1,271.98	4.26	4.26	0.00
10,176.00	91.50	181.90	9,455.19	-1,295.63	-403.93	1,318.96	4.34	4.26	-0.85
10,224.00	91.70	181.70	9,453.85	-1,343.59	-405.43	1,366.91	0.59	0.42	-0.42
10,318.00	91.70	182.40	9,451.06	-1,437.48	-408.80	1,460.83	0.74	0.00	0.74
10,412.00	92.00	181.30	9,448.02	-1,531.39	-411.83	1,554.73	1.21	0.32	-1.17
10,506.00	91.70	178.70	9,444.99	-1,625.33	-411.83	1,648.48	2.78	-0.32	-2.77
10,601.00	91.00	179.80	9,442.75	-1,720.29	-410.59	1,743.17	1.37	-0.74	1.16
10,695.00	91.00	179.40	9,441.11	-1,814.27	-409.93	1,836.91	0.43	0.00	-0.43
10,789.00	90.40	180.50	9,439.96	-1,908.27	-409.85	1,930.70	1.33	-0.64	1.17
10,883.00	89.50	179.80	9,440.04	-2,002.26	-410.09	2,024.52	1.21	-0.96	-0.74
10,977.00	89.40	180.30	9,440.95	-2,096.26	-410.18	2,118.33	0.54	-0.11	0.53
11,071.00	88.60	180.10	9,442.59	-2,190.24	-410.50	2,212.14	0.88	-0.85	-0.21
11,165.00	86.40	179.90	9,446.69	-2,284.15	-410.50	2,305.85	2.35	-2.34	-0.21
11,259.00	87.10	180.00	9,452.02	-2,378.00	-410.42	2,399.49	0.75	0.74	0.11
11,354.00	90.00	179.70	9,454.42	-2,472.96	-410.17	2,494.24	3.07	3.05	-0.32
11,448.00	90.80	181.00	9,453.76	-2,566.95	-410.75	2,588.07	1.62	0.85	1.38
11,542.00	91.20	180.00	9,452.12	-2,660.93	-411.57	2,681.91	1.15	0.43	-1.06
11,636.00	89.10	177.70	9,451.88	-2,754.90	-409.68	2,775.57	3.31	-2.23	-2.45



Integrity Directional Services, LLC

Survey Report



Company: Legacy Reserves Operating
Project: Lea County, NM
Site: Hamon Fed Pad
Well: Hamon Fed Com A #5H
Wellbore: Wellbore #2
Design: Wellbore #2

Local Co-ordinate Reference: Well Hamon Fed Com A #5H
TVD Reference: KB= 18 @ 3628.00ft (McVay)
MD Reference: KB= 18 @ 3628.00ft (McVay)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Multi User Db

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)
11,730.00	89.10	178.60	9,453.35	-2,848.84	-406.65	2,869.11	0.96	0.00	0.96
11,824.00	88.80	177.70	9,455.07	-2,942.77	-403.61	2,962.66	1.01	-0.32	-0.96
11,918.00	88.90	177.50	9,456.96	-3,036.67	-399.68	3,056.11	0.24	0.11	-0.21
12,012.00	88.50	177.90	9,459.09	-3,130.57	-395.91	3,149.57	0.60	-0.43	0.43
12,107.00	88.20	178.70	9,461.83	-3,225.49	-393.09	3,244.11	0.90	-0.32	0.84
12,201.00	89.00	179.20	9,464.13	-3,319.44	-391.37	3,337.76	1.00	0.85	0.53
12,295.00	89.80	178.60	9,465.11	-3,413.42	-389.56	3,431.42	1.06	0.85	-0.64
12,389.00	90.20	179.90	9,465.11	-3,507.41	-388.33	3,525.14	1.45	0.43	1.38
12,483.00	91.60	180.20	9,463.63	-3,601.39	-388.41	3,618.93	1.52	1.49	0.32
12,578.00	89.80	178.50	9,462.47	-3,696.37	-387.34	3,713.65	2.61	-1.89	-1.79
12,672.00	90.80	180.30	9,461.98	-3,790.36	-386.35	3,807.38	2.19	1.06	1.91
12,766.00	88.90	179.40	9,462.23	-3,884.36	-386.11	3,901.16	2.24	-2.02	-0.96
12,860.00	89.00	181.40	9,463.95	-3,978.33	-386.76	3,994.98	2.13	0.11	2.13
12,954.00	90.50	182.70	9,464.36	-4,072.27	-390.12	4,088.94	2.11	1.60	1.38
13,049.00	90.60	183.50	9,463.45	-4,167.12	-395.26	4,183.93	0.85	0.11	0.84
13,143.00	90.60	183.90	9,462.46	-4,260.92	-401.33	4,277.92	0.43	0.00	0.43
13,237.00	89.90	184.50	9,462.05	-4,354.67	-408.21	4,371.92	0.98	-0.74	0.64
13,331.00	89.30	183.20	9,462.71	-4,448.45	-414.52	4,465.91	1.52	-0.64	-1.38
13,425.00	89.20	182.30	9,463.94	-4,542.33	-419.03	4,559.89	0.96	-0.11	-0.96
13,520.00	88.90	181.40	9,465.52	-4,637.27	-422.10	4,654.83	1.00	-0.32	-0.95
13,614.00	88.00	179.80	9,468.06	-4,731.23	-423.08	4,748.65	1.95	-0.96	-1.70
13,708.00	88.50	178.80	9,470.93	-4,825.17	-421.93	4,842.33	1.19	0.53	-1.06
13,802.00	88.40	178.90	9,473.47	-4,919.12	-420.05	4,935.96	0.15	-0.11	0.11
13,896.00	88.90	178.10	9,475.69	-5,013.06	-417.59	5,029.55	1.00	0.53	-0.85
13,991.00	88.40	178.20	9,477.92	-5,107.99	-414.52	5,124.08	0.54	-0.53	0.11
14,085.00	87.60	179.00	9,481.21	-5,201.90	-412.23	5,217.65	1.20	-0.85	0.85
14,179.00	87.40	179.00	9,485.31	-5,295.79	-410.59	5,311.24	0.21	-0.21	0.00
14,273.00	87.20	179.70	9,489.73	-5,389.68	-409.52	5,404.87	0.77	-0.21	0.74
14,359.00	86.30	179.70	9,494.61	-5,475.54	-409.07	5,490.52	1.05	-1.05	0.00
Final MWD Survey @ 14359' MD									
14,415.00	86.30	179.70	9,498.22	-5,531.43	-408.78	5,546.27	0.00	0.00	0.00
Projection to TD @ 14415' MD - Hamon Fed Com #5H BHL									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment
5,405.00	5,396.59	-39.89	63.49	First MWD Survey @ 5405' MD
9,458.74	9,304.96	-607.74	-389.01	North Lease Line Crossing @ 9458.74' MD
9,816.45	9,427.28	-937.74	-394.62	North 330' Hardline Crossing @ 9816.45' MD
14,359.00	9,494.61	-5,475.54	-409.07	Final MWD Survey @ 14359' MD
14,415.00	9,498.22	-5,531.43	-408.78	Projection to TD @ 14415' MD



Integrity Directional Services, LLC

Survey Report



Company: Legacy Reserves Operating
Project: Lea County, NM
Site: Hamon Fed Pad
Well: Hamon Fed Com A #5H
Wellbore: Wellbore #2
Design: Wellbore #2

Local Co-ordinate Reference: Well Hamon Fed Com A #5H
TVD Reference: KB= 18 @ 3628.00ft (McVay)
MD Reference: KB= 18 @ 3628.00ft (McVay)
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 5000.1 Multi User Db

Checked By: _____ Approved By: _____ Date: _____