Results of Directional Survey

API number:	30-025-40698			
OGRID:		Operator:	LEGACY RESERVES OPERATING, LP	
		Property:	LEA UNIT	# 30H

surface	ULSTR:	M	12	T	20S	R	34E
				170	FSL	785	FWL
BH Loc	ULSTR:	M	13	T	20S	R	34E
15702	MD	10976.6	TVD	339	FSL	716	FWL
				4941	FNL		
Top Perf/OH	ULSTR:	D	13	T	20S	R	34E
11548	MD	10878.0	TVD	790	FNL	779	FWL
Bot Perf/OH	ULSTR:	M	13	T	20S	R	34E
15518	MD	10959.2	TVD	522	FSL	717	FWL
				4758	FNL		

	MD	N/S	E/W	VD
	11503	-915.00	-6.55	10877.33
TOP PERFS/OH	**11548**	-960.38	-5.79	10878.02
	11598	-1010.80	-4.95	10878.79
	15464	-4873.70	-67.52	10955.71
BOT PERFS/OH	**15518**	-4927.57	-67.96	10959.21
	15559	-4968.48	-68.29	10961.86

NEXT TO LAST	15653	-5062.01	-68.87	10971.20
LAST READING	15700.26	-5108.99	-68.99	10976.37
TD	**15702**	-5110.72	-68.99	10976.56

Surface Location	170	FS	785	FW
Projected BHL	4941	FN	716	FW
Location of				
Top Perfs/OH	790	FN	779	FW
Bottom Perfs/OH	4758	FN	717	FW

SUMMARY of Subsurface Locations

Surface Location	M-12-20S-34E	170	FS	785	FW	Vert. Depth
Top Perfs/OH	D-13-20S-34E	790	FN	779	FW	10878.02
Bottom Perfs/OH	M-13-20S-34E	4758	FN	717	FW	10959.21
Projected TD	M-13-20S-34E	4941	FN	716	FW	10976.56

OPERATOR	LEGACY RESERVES OPERATING, L.P.
WELL/LEASE	LEA UNIT 30H
COUNTY	LEA

SUR: M-12-20s-34e, 170/S & 785/W
BHL: M- 13-20s-34e, 4941/N & 716/W
API # 30-025-40698

STATE OF NEW MEXICO
DEVIATION REPORT

150	0.23	6,057	1.20	9,861	1.00
300	0.51	6,249	1.70	9,892	1.40
461	0.47	6,343	1.70	9,921	1.40
616	0.59	6,438	1.30	9,956	1.20
773	0.39	6,533	1.50	9,989	1.20
960	0.55	6,627	1.00	10,020	0.80
1,150	1.18	6,722	0.80	10,052	1.40
1,343	1.27	6,908	0.80	10,082	1.00
1,533	1.06	7,097	1.10	10,206	0.40
1,721	0.00	7,286	0.70	10,300	1.30
1,903	0.20	7,574	1.10	10,395	1.20
2,092	0.00	7,761	0.80	10,585	0.80
2,281	0.10	7,857	0.60	10,682	0.50
2,510	0.40	7,952	1.10	10,776	1.00
2,701	0.30	8,047	0.50	10,870	0.80
2,889	1.40	8,141	0.80	10,965	0.80
3,228	1.40	8,231	0.80	11,059	1.40
3,323	1.00	8,221	0.90		
3,417	0.60	8,610	0.40		
3,512	0.80	8,804	1.00		
3,610	0.40	8,897	1.30		
3,799	0.20	8,993	1.80		
4,130	0.20	9,087	2.00		
4,315	0.40	9,178	1.60		
4,537	0.80	9,367	2.10		
4,727	0.40	9,462	1.70		
4,886	0.80	9,537	1.50		
5,075	1.00	9,637	2.80		
5,198	1.40	9,673	2.60		
5,250	1.00	9,704	1.80		
5,387	1.12	9,736	1.60		
5,515	1.39	9,768	2.20		
5,713	0.90	9,799	1.50		
5,902	1.10	9,828	1.40		

HOBBS OCD

FEB 20 2013

RECEIVED

BY: Steve Moore

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on 11/28/12, by Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

Amber Elizabeth Carr

Notary Public for Midland County, Texas

AMBER ELIZABETH CARR
Notary Public, State of Texas
My Commission Expires
September 28, 2016

Legacy Reserves Operating LP

Lea County, NM (NAD27 NME)
Lea Unit #30H
#30H
OH - Job #32H09121124

SUR: M-12-20s-34e, 170/S & 785/W
BHL: M- 13-20s-34e, 4941/N & 716/W
API # 30-025-40698

Design: OH

SDI Standard Survey Report

This survey is correct to the best of my knowledge and is supported by actual field data.

Notarized this date 5th of November, 2012.

Carrie Reed
Notary Signature
County of Midland
State of Texas

HOBBS OCD

FEB 20 2013

RECEIVED

NOTARY PUBLIC STATE OF TEXAS
CARRIE REED
My Commission Expires
October 4, 2015

Scientific Drilling

Company:	Legacy Reserves Operating LP	**Local Co-ordinate Reference:**	Well #30H
Project:	Lea County, NM (NAD27 NME)	**TVD Reference:**	RF @ 3675.00usft (Patterson #444)
Site:	Lea Unit #30H	**MD Reference:**	RF @ 3675.00usft (Patterson #444)
Well:	#30H	**North Reference:**	Grid
Wellbore:	OH - Job #32H09121124	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM-Regulatory

Project Lea County, NM (NAD27 NME)

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 Lea Unit #30H

Site Position:		**Northing:**	575,430.20 usft	**Latitude:**	32° 34' 45.577 N
From:	Map	**Easting:**	750,753.30 usft	**Longitude:**	103° 31' 9.443 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16"	**Grid Convergence:**	0.44 °

Well #30H

Well Position	**+N/-S**	0.00 usft	**Northing:**	575,930.20 usft	**Latitude:**	32° 34' 50.525 N
	+E/-W	0.00 usft	**Easting:**	750,749.40 usft	**Longitude:**	103° 31' 9.444 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,651.00 usft

Wellbore OH - Job #32H09121124

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	09/09/12	7.44	60.50	48,712

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	180.95

Survey Program **Date** 10/20/12

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100.00	10,400.00	Gyro (OH - Job #32H09121124)	Keeper	Standard Wireline Keeper ver 1.0.2
10,400.00	15,702.00	MWD (OH - Job #32H09121124)	MWD	MWD - Standard

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.26	207.35	100.00	-0.20	-0.10	207.35	0.23
200.00	0.42	215.56	200.00	-0.70	-0.42	211.02	0.82
300.00	0.52	225.72	299.99	-1.32	-0.96	216.10	1.63
400.00	0.52	246.40	399.99	-1.81	-1.70	223.14	2.49
500.00	0.40	257.51	499.99	-2.07	-2.46	229.86	3.21
600.00	0.51	241.96	599.98	-2.36	-3.19	233.55	3.97
700.00	0.59	250.24	699.98	-2.74	-4.07	236.04	4.90
800.00	0.59	242.45	799.97	-3.15	-5.01	237.82	5.92
900.00	0.56	242.98	899.97	-3.61	-5.90	238.53	6.92
1,000.00	1.01	245.52	999.96	-4.20	-7.14	239.53	8.28

Company:	Legacy Reserves Operating LP	**Local Co-ordinate Reference:**	Well #30H
Project:	Lea County, NM (NAD27 NME)	**TVD Reference:**	RF @ 3675.00usft (Patterson #444)
Site:	Lea Unit #30H	**MD Reference:**	RF @ 3675.00usft (Patterson #444)
Well:	#30H	**North Reference:**	Grid
Wellbore:	OH - Job #32H09121124	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,100.00	1.10	254.41	1,099.94	-4.82	-8.86	241.45	10.09
1,200.00	1.01	236.94	1,199.93	-5.56	-10.53	242.16	11.91
1,300.00	1.21	232.38	1,299.91	-6.69	-12.10	241.08	13.83
1,400.00	1.21	233.24	1,399.88	-7.96	-13.79	239.99	15.92
1,500.00	1.25	238.40	1,499.86	-9.17	-15.56	239.50	18.06
1,600.00	1.41	240.81	1,599.83	-10.34	-17.56	239.52	20.38
1,700.00	1.36	242.75	1,699.81	-11.48	-19.69	239.76	22.80
1,800.00	0.40	250.87	1,799.79	-12.14	-21.08	240.06	24.32
1,900.00	0.10	258.61	1,899.79	-12.27	-21.49	240.28	24.75
2,000.00	0.06	258.85	1,999.79	-12.30	-21.63	240.38	24.88
2,100.00	0.03	258.42	2,099.79	-12.31	-21.71	240.43	24.96
2,200.00	0.15	45.53	2,199.79	-12.23	-21.64	240.53	24.85
2,300.00	0.48	45.11	2,299.79	-11.84	-21.25	240.87	24.32
2,400.00	0.49	33.57	2,399.79	-11.19	-20.72	241.63	23.54
2,500.00	0.29	22.86	2,499.78	-10.60	-20.38	242.52	22.97
2,600.00	0.31	47.90	2,599.78	-10.18	-20.08	243.11	22.52
2,700.00	0.99	55.60	2,699.78	-9.51	-19.17	243.60	21.40
2,800.00	1.14	53.58	2,799.76	-8.44	-17.65	244.46	19.57
2,900.00	1.38	38.02	2,899.73	-6.90	-16.11	246.83	17.53
3,000.00	1.24	36.10	2,999.71	-5.07	-14.73	251.00	15.58
3,100.00	1.39	40.29	3,099.68	-3.27	-13.31	256.18	13.71
3,200.00	1.52	40.42	3,199.65	-1.34	-11.67	263.45	11.74
3,300.00	1.31	38.88	3,299.62	0.56	-10.09	273.18	10.11
3,400.00	0.99	35.39	3,399.60	2.15	-8.87	283.65	9.13
3,500.00	0.59	36.12	3,499.59	3.27	-8.07	292.09	8.71
3,600.00	0.29	50.73	3,599.59	3.85	-7.57	296.97	8.49
3,700.00	0.23	14.55	3,699.59	4.21	-7.32	299.87	8.44
3,800.00	0.25	282.58	3,799.58	4.45	-7.48	300.72	8.71
3,900.00	0.35	293.94	3,899.58	4.62	-7.98	300.07	9.22
4,000.00	0.42	277.13	3,999.58	4.79	-8.62	299.05	9.86
4,100.00	0.28	259.06	4,099.58	4.79	-9.22	297.43	10.39
4,200.00	0.20	292.39	4,199.58	4.81	-9.62	296.54	10.76
4,300.00	0.25	308.52	4,299.58	5.01	-9.96	296.71	11.15
4,400.00	0.33	275.09	4,399.58	5.17	-10.41	296.40	11.63
4,500.00	0.67	240.62	4,499.57	4.91	-11.21	293.65	12.24
4,600.00	0.51	231.87	4,599.57	4.35	-12.07	289.81	12.83
4,700.00	0.53	252.97	4,699.56	3.94	-12.86	287.02	13.45
4,800.00	0.68	237.69	4,799.56	3.48	-13.81	284.17	14.24
4,900.00	0.54	229.17	4,899.55	2.86	-14.66	281.03	14.94
5,000.00	0.86	220.07	4,999.54	1.98	-15.50	277.27	15.63
5,100.00	1.03	199.89	5,099.53	0.56	-16.29	271.96	16.30
5,200.00	0.96	188.22	5,199.52	-1.12	-16.72	266.18	16.76
5,300.00	0.93	185.67	5,299.50	-2.75	-16.92	260.76	17.14
5,400.00	1.13	180.53	5,399.49	-4.55	-17.01	255.03	17.60

Company:	Legacy Reserves Operating LP	**Local Co-ordinate Reference:**	Well #30H
Project:	Lea County, NM (NAD27 NME)	**TVD Reference:**	RF @ 3675.00usft (Patterson #444)
Site:	Lea Unit #30H	**MD Reference:**	RF @ 3675.00usft (Patterson #444)
Well:	#30H	**North Reference:**	Grid
Wellbore:	OH - Job #32H09121124	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
5,500.00	0.92	173.08	5,499.47	-6.33	-16.92	249.49	18.07
5,600.00	0.96	186.01	5,599.46	-7.96	-16.91	244.79	18.69
5,700.00	0.96	163.81	5,699.44	-9.60	-16.77	240.21	19.32
5,800.00	0.85	167.50	5,799.43	-11.13	-16.37	235.80	19.79
5,900.00	1.00	154.61	5,899.42	-12.64	-15.84	231.41	20.26
6,000.00	0.84	159.85	5,999.40	-14.12	-15.21	227.14	20.75
6,100.00	1.13	155.80	6,099.39	-15.70	-14.55	222.82	21.41
6,200.00	1.39	167.31	6,199.37	-17.79	-13.88	217.97	22.56
6,300.00	1.39	155.89	6,299.34	-20.08	-13.12	213.17	23.98
6,400.00	1.54	167.67	6,399.30	-22.50	-12.34	208.74	25.66
6,500.00	1.38	160.32	6,499.27	-24.94	-11.65	205.03	27.53
6,600.00	1.39	171.48	6,599.24	-27.28	-11.06	202.07	29.43
6,700.00	1.05	164.18	6,699.22	-29.36	-10.63	199.91	31.22
6,800.00	1.20	167.63	6,799.20	-31.26	-10.16	198.00	32.87
6,900.00	0.86	175.80	6,899.18	-33.03	-9.88	196.65	34.48
7,000.00	0.92	169.21	6,999.17	-34.57	-9.67	195.63	35.90
7,100.00	0.98	163.23	7,099.16	-36.18	-9.28	194.38	37.35
7,200.00	1.02	147.73	7,199.14	-37.75	-8.55	192.77	38.70
7,300.00	0.94	140.20	7,299.13	-39.13	-7.55	190.92	39.85
7,400.00	0.86	148.34	7,399.12	-40.40	-6.63	189.33	40.94
7,500.00	0.98	139.06	7,499.10	-41.68	-5.68	187.76	42.07
7,600.00	0.75	140.10	7,599.09	-42.83	-4.70	186.26	43.09
7,700.00	1.03	148.32	7,699.08	-44.10	-3.81	184.93	44.26
7,800.00	0.84	145.44	7,799.07	-45.47	-2.92	183.67	45.56
7,900.00	0.79	159.76	7,899.06	-46.72	-2.27	182.78	46.77
8,000.00	1.03	159.69	7,999.04	-48.21	-1.72	182.04	48.24
8,100.00	0.63	150.19	8,099.03	-49.53	-1.13	181.31	49.54
8,200.00	0.78	145.71	8,199.03	-50.57	-0.47	180.54	50.57
8,300.00	0.59	129.52	8,299.02	-51.46	0.31	179.66	51.46
8,400.00	0.55	111.64	8,399.01	-51.96	1.15	178.73	51.97
8,500.00	0.50	96.28	8,499.01	-52.19	2.03	177.77	52.23
8,600.00	0.66	104.08	8,599.00	-52.37	3.02	176.70	52.46
8,700.00	0.56	97.86	8,699.00	-52.58	4.07	175.58	52.74
8,800.00	0.71	108.03	8,798.99	-52.84	5.14	174.45	53.09
8,900.00	1.34	111.45	8,898.98	-53.46	6.82	172.73	53.89
9,000.00	1.75	120.21	8,998.94	-54.66	9.22	170.42	55.43
9,100.00	1.68	121.14	9,098.90	-56.18	11.80	168.14	57.41
9,200.00	1.98	120.86	9,198.84	-57.83	14.54	165.89	59.63
9,300.00	2.00	117.08	9,298.78	-59.51	17.57	163.55	62.05
9,400.00	2.00	119.65	9,398.72	-61.16	20.64	161.35	64.55
9,500.00	1.72	121.51	9,498.67	-62.81	23.44	159.54	67.04
9,600.00	1.83	136.27	9,598.62	-64.75	25.82	158.26	69.71
9,700.00	1.99	141.07	9,698.57	-67.25	28.02	157.38	72.86
9,800.00	1.71	138.17	9,798.51	-69.72	30.10	156.65	75.94
9,900.00	1.42	138.28	9,898.48	-71.75	31.92	156.02	78.53

Company:	Legacy Reserves Operating LP	**Local Co-ordinate Reference:**	Well #30H
Project:	Lea County, NM (NAD27 NME)	**TVD Reference:**	RF @ 3675.00usft (Patterson #444)
Site:	Lea Unit #30H	**MD Reference:**	RF @ 3675.00usft (Patterson #444)
Well:	#30H	**North Reference:**	Grid
Wellbore:	OH - Job #32H09121124	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
10,000.00	1.13	130.68	9,998.45	-73.32	33.50	155.45	80.61
10,100.00	1.01	129.73	10,098.44	-74.53	34.92	154.89	82.30
10,200.00	0.80	160.30	10,198.42	-75.75	35.83	154.68	83.80
10,300.00	0.82	185.43	10,298.41	-77.12	36.00	154.97	85.11
10,400.00	0.80	167.24	10,398.40	-78.51	36.09	155.31	86.41
Gyro Tie-in							
10,462.00	8.62	204.93	10,460.15	-83.15	34.22	157.63	89.92
10,493.00	11.78	201.23	10,490.66	-88.21	32.10	160.01	93.87
10,525.00	15.48	198.51	10,521.75	-95.31	29.56	162.77	99.79
10,556.00	19.26	196.93	10,551.33	-104.13	26.75	165.59	107.51
10,588.00	23.48	196.14	10,581.13	-115.30	23.44	168.51	117.66
10,619.00	28.14	195.96	10,609.03	-128.27	19.71	171.26	129.78
10,651.00	31.92	194.64	10,636.73	-143.72	15.50	173.84	144.55
10,683.00	36.23	191.92	10,663.23	-161.16	11.41	175.95	161.57
10,714.00	40.40	189.55	10,687.55	-180.04	7.85	177.50	180.21
10,746.00	44.14	186.91	10,711.22	-201.34	4.78	178.64	201.40
10,777.00	48.01	183.66	10,732.73	-223.56	2.75	179.30	223.58
10,809.00	51.50	182.54	10,753.40	-247.95	1.43	179.67	247.95
10,841.00	54.61	181.46	10,772.63	-273.51	0.55	179.89	273.51
10,872.00	57.95	181.55	10,789.84	-299.28	-0.13	180.03	299.28
10,904.00	61.64	181.90	10,805.93	-326.92	-0.97	180.17	326.92
10,935.00	65.07	181.46	10,819.83	-354.61	-1.78	180.29	354.61
10,967.00	69.12	181.37	10,832.28	-384.07	-2.50	180.37	384.08
10,998.00	73.07	181.02	10,842.33	-413.38	-3.11	180.43	413.40
11,030.00	76.94	181.46	10,850.60	-444.28	-3.78	180.49	444.30
11,061.00	80.90	182.25	10,856.56	-474.68	-4.77	180.58	474.71
11,087.45	83.45	181.96	10,860.16	-500.87	-5.73	180.66	500.90
FP-Lea Unit #30H							
11,093.00	83.98	181.90	10,860.77	-506.38	-5.92	180.67	506.41
11,124.00	85.56	180.67	10,863.60	-537.24	-6.61	180.70	537.28
11,156.00	85.47	181.02	10,866.10	-569.14	-7.08	180.71	569.18
11,219.00	86.26	180.32	10,870.64	-631.97	-7.81	180.71	632.02
11,314.00	88.20	179.70	10,875.23	-726.85	-7.83	180.62	726.90
11,409.00	89.87	179.61	10,876.83	-821.84	-7.26	180.51	821.87
11,503.00	89.52	179.52	10,877.33	-915.83	-6.55	180.41	915.85
11,598.00	88.72	178.56	10,878.79	-1,010.80	-4.95	180.28	1,010.82
11,693.00	88.64	177.85	10,880.98	-1,105.73	-1.98	180.10	1,105.73
11,787.00	87.67	176.62	10,884.01	-1,199.57	2.55	179.88	1,199.57
11,882.00	88.02	178.03	10,887.58	-1,294.40	6.98	179.69	1,294.42
11,977.00	89.16	178.65	10,889.92	-1,389.33	9.73	179.60	1,389.36
12,071.00	89.34	180.14	10,891.15	-1,483.31	10.73	179.59	1,483.35
12,166.00	90.13	181.63	10,891.59	-1,578.30	9.26	179.66	1,578.32
12,260.00	90.13	182.86	10,891.37	-1,672.22	5.58	179.81	1,672.23
12,355.00	89.60	182.60	10,891.60	-1,767.11	1.05	179.97	1,767.11

Company:	Legacy Reserves Operating LP	**Local Co-ordinate Reference:**	Well #30H
Project:	Lea County, NM (NAD27 NME)	**TVD Reference:**	RF @ 3675.00usft (Patterson #444)
Site:	Lea Unit #30H	**MD Reference:**	RF @ 3675.00usft (Patterson #444)
Well:	#30H	**North Reference:**	Grid
Wellbore:	OH - Job #32H09121124	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM-Regulatory

Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
12,449.00	88.90	182.25	10,892.83	-1,861.02	-2.92	180.09	1,861.02
12,544.00	88.64	182.51	10,894.87	-1,955.92	-6.87	180.20	1,955.93
12,639.00	89.25	183.30	10,896.62	-2,050.78	-11.68	180.33	2,050.81
12,733.00	88.72	184.01	10,898.28	-2,144.57	-17.67	180.47	2,144.64
12,828.00	88.46	183.30	10,900.62	-2,239.35	-23.73	180.61	2,239.47
12,923.00	86.79	181.63	10,904.56	-2,334.17	-27.81	180.68	2,334.34
13,017.00	86.26	181.55	10,910.25	-2,427.96	-30.41	180.72	2,428.15
13,112.00	88.81	181.63	10,914.34	-2,522.83	-33.05	180.75	2,523.05
13,206.00	89.34	180.23	10,915.86	-2,616.80	-34.57	180.76	2,617.03
13,301.00	88.64	180.05	10,917.53	-2,711.79	-34.81	180.74	2,712.01
13,396.00	89.52	180.05	10,919.06	-2,806.77	-34.89	180.71	2,806.99
13,490.00	88.29	178.82	10,920.85	-2,900.75	-33.96	180.67	2,900.95
13,585.00	88.46	180.14	10,923.55	-2,995.70	-33.10	180.63	2,995.89
13,679.00	88.90	180.93	10,925.71	-3,089.67	-33.98	180.63	3,089.86
13,774.00	88.20	179.96	10,928.12	-3,184.64	-34.72	180.62	3,184.83
13,869.00	89.34	180.05	10,930.16	-3,279.62	-34.72	180.61	3,279.80
13,963.00	88.37	180.32	10,932.03	-3,373.59	-35.03	180.59	3,373.78
14,058.00	88.20	180.93	10,934.88	-3,468.55	-36.06	180.60	3,468.73
14,138.00	89.69	181.55	10,936.35	-3,548.51	-37.79	180.61	3,548.71
14,232.00	89.25	182.78	10,937.22	-3,642.44	-41.34	180.65	3,642.67
14,327.00	89.34	182.43	10,938.39	-3,737.33	-45.66	180.70	3,737.61
14,422.00	89.60	183.74	10,939.27	-3,832.19	-50.77	180.76	3,832.52
14,516.00	89.69	182.34	10,939.85	-3,926.05	-55.76	180.81	3,926.45
14,611.00	88.55	182.07	10,941.31	-4,020.97	-59.41	180.85	4,021.41
14,706.00	90.40	181.02	10,942.18	-4,115.93	-61.97	180.86	4,116.39
14,800.00	90.22	181.11	10,941.67	-4,209.91	-63.72	180.87	4,210.39
14,895.00	89.43	180.40	10,941.96	-4,304.90	-64.97	180.86	4,305.39
14,990.00	88.37	180.49	10,943.78	-4,399.88	-65.71	180.86	4,400.37
15,085.00	88.64	180.05	10,946.26	-4,494.84	-66.16	180.84	4,495.33
15,180.00	89.46	179.63	10,947.84	-4,589.83	-65.89	180.82	4,590.30
15,274.00	88.81	180.32	10,949.26	-4,683.82	-65.85	180.81	4,684.28
15,369.00	87.85	180.67	10,952.03	-4,778.77	-66.67	180.80	4,779.24
15,464.00	87.71	180.35	10,955.71	-4,873.70	-67.52	180.79	4,874.16
15,559.00	84.86	180.58	10,961.86	-4,968.48	-68.29	180.79	4,968.95
15,653.00	83.73	180.14	10,971.20	-5,062.01	-68.87	180.78	5,062.48
Last MWD Survey							
15,700.26	83.73	180.14	10,976.37	-5,108.99	-68.99	180.77	5,109.46
PBHL-Lea Unit #30H							
15,702.00	83.73	180.14	10,976.56	-5,110.72	-68.99	180.77	5,111.19

Company:	Legacy Reserves Operating LP	**Local Co-ordinate Reference:**	Well #30H
Project:	Lea County, NM (NAD27 NME)	**TVD Reference:**	RF @ 3675.00usft (Patterson #444)
Site:	Lea Unit #30H	**MD Reference:**	RF @ 3675.00usft (Patterson #444)
Well:	#30H	**North Reference:**	Grid
Wellbore:	OH - Job #32H09121124	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM-Regulatory

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
10,400.00	10,398.40	-78.51	36.09	Gyro Tie-in
15,653.00	10,971.20	-5,062.01	-68.87	Last MWD Survey
15,702.00	10,976.56	-5,110.72	-68.99	Projection to Bit

LEGACY RESERVES

Scientific Drilling

Lea Unit #30H
Lea County, NM (NAD27 NME)
Northing: (Y) 575930.20
Easting: (X) 750749.40
Plan #4 vs Actual - 8-3/4" Hole

Azimuths to Grid North
True North: -0.44°
Magnetic North: 7.00°

Magnetic Field
Strength: 48711.6snT
Dip Angle: 60.50°
Date: 9/9/2012
Model: IGRF2010

To convert a Magnetic Direction to a Grid Direction, Add 7.00°
To convert a True Direction to a Grid Direction, Subtract 0.44°

WELL DETAILS:

Ground Level: 3651.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	575930.20	750749.40	32° 34' 50.525 N	103° 31' 9.444 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
10400.00	0.80	167.24	10398.40	-78.51	36.09	0.00	0.00	77.90	
11126.98	88.88	185.15	10866.00	-541.49	-3.66	12.09	17.92	541.48	
11268.81	88.88	180.95	10868.73	-681.07	-11.10	3.00	-89.98	681.16	
15700.49	88.88	180.95	10955.00	-5111.30	-84.90	0.00	0.00	5112.01	PBHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
FP	10866.00	-500.00	-8.31	575430.20	750741.09
PBHL	10955.00	-5111.30	-84.90	570818.90	750664.50

SITE DETAILS: Lea Unit
Site Centre Northing: 575930.20
Easting: 750749.40

Positional Uncertainity: 0.00
Convergence: 0.44
Local North: Grid

PROJECT DETAILS: Lea County, NM (NAD27 NME)
Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001

System Datum: Mean Sea Level

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

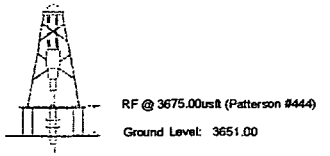
Local Origin: Well #30H, Grid North

Latitude: 32° 34' 50.525 N
Longitude: 103° 31' 9.444 W

Grid East: 750749.40
Grid North: 575930.20
Scale Factor: 1.000

Geomagnetic Model: IGRF2010
Sample Date: 09-Sep-12
Magnetic Declination: 7.44°
Dip Angle from Horizontal: 60.50°
Magnetic Field Strength: 48712

To convert a Magnetic Direction to a Grid Direction, Add 7.00°
To convert a Magnetic Direction to a True Direction, Add 7.44° East
To convert a True Direction to a Grid Direction, Subtract 0.44°



Julio Pina
15:09, October 04 2012
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