

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

HOBBES OCC

FORM APPROVED
OMB NO. 1004-0137
Expires: October 31, 2014

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

OCT 23 2013

- a. Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,

Other: _____

RECEIVED

2. Name of Operator
LEGACY RESERVES OPERATING LP

3. Address
P.O. BOX 10848
MIDLAND, TX 79702

3a. Phone No. (include area code)
(432) 689-5200

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 46' FNL & 1916' FWL

At top prod. interval reported below 330' FNL & 1916' FWL

At total depth 330' FSL & 1916' FWL

14. Date Spudded
06/21/2013

15. Date T.D. Reached
08/26/2013

16. Date Completed
☐ D & A ☒ Ready to Prod.

5. Lease Serial No.

NMNM053434

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
NMNM70986B

8. Lease Name and Well No.
LEA UNIT 31H

9. API Well No.
30-025-40699

10. Field and Pool or Exploratory
LEA; BONE SPRING

11. Sec., T., R., M., on Block and
Survey or Area SEC. 12, T-20S, R-3E

12. County or Parish
LEA

13. State
NM

17. Elevations (DF, RKB, RT, GL)*
3651' GL

18. Total Depth: MD 15739'
TVD 10980.5'

19. Plug Back T.D.: MD 15739'
TVD 10980.5'

20. Depth Bridge Plug Set: MD N/A
TVD N/A

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

GR/ CCL/ CBL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
16"	13 3/8"	54.5#	SURFACE	1761'		1075 CLASS C		SURF- CIRC.	
12 1/4"	9 5/8"	40#	SURFACE	5449'		2886 CLASS C		SURF- CIRC.	
8 3/4"	5 1/2"	17#	SURFACE	15,739'		2400 CLASS C		SURF- CIRC.	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) BONE SPRING	11,130' MD	15,632' MD	11,130'-15,632' MD	N/A	360	
B)						
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
11,130'-15,632'	FRAC'D W/ 1,800,000# 20/40 WHITE SAND & 450,000# 20/40 SB EXCEL RESIN COATED SAND IN 20# CROSS-LINKED BORATE FLUID

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/06/13	09/10/13	24	→	975	1041	386	44.8	0.921	FLOWING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
28/64	N/A	1060	→	975	1041	386	1068	FLOWING	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

DECLARATION
DUE 2-2-14
ACCEPTED FOR RECORD
OCT 20 2013
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE
EEG 10-24-2013

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

29. Disposition of Gas (Solid, used for fuel, vented, etc.)

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				LAMAR BELL CANYON	5580' 5750'
				CHERRY CANYON BRUSHY CANYON	6477' 7440'
				BONE SPRING U AVALON SH	8207' 8786'
				M AVALON CARBONATE 1ST BONE SPRING	9050' 9469'
				2ND BONE SPRING 3RD BONE SPRING	10148' 10746'
				3RD BONE SPRING SH TOP 3RD BS POROSITY TOP	10857' 10888'
				3RD BS POROSITY BASE 3RD BONE SPRING SH BASE	10928' 10940'

32. Additional remarks (include plugging procedure):

FORMATION LOG MARKERS CONTINUED . . .

NAME TOP MEASURED DEPTH

WOLFCAMP 11006'

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
- ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) BLAIN K. LEWIS

Title SENIOR ENGINEER

Signature

Date 09/18/2013

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

(Form 3160-4, page 2)



6308 WindCrest Drive Suite 1526
Plano, TEXAS 75024 USA
1-877-446-6656

Surveyor Certification Form

Survey Company: MOJO Directional LLC
Surveyors Name: ARLEN YAKIMCHUK
Survey Job Type: MWD
Customer: LEGACY RESERVES
Well: LEA UNIT #31H
API: 30-025-40699
Surveyed from: 0.00ft TO 15676.00ft
Projected TD: 15739.00 ft.
Survey Run Date: 21/07/2013-16/08/2013
Location: LEA COUNTY / NEW MEXICO
Surface Location: 575816.10 N, 751881.10 E
Bottom Hole Location: 570843.04 N, 751923.86 E

HOEBS OCD

OCT 23 2013

RECEIVED

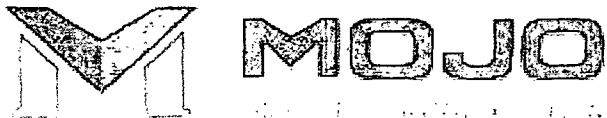
I certify that the data is true, correct, and complete and within the limitations of the tool set forth by MOJO Directional LLC; that I am authorized and qualified to make this report; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by MOJO Directional LLC.

Signature

Arlen Yakimchuk

Date

Sept 13, 2013



Legacy Reserves LP

Lea Unit

Lea Unit #31H

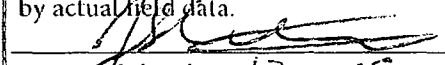
RECEIVED
OCT 23 2013
HOBS OGD

Survey: Lea Unit #31H

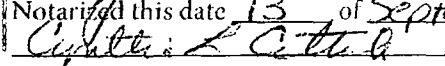
MOJO Standard Survey

16 August, 2013

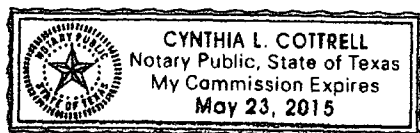
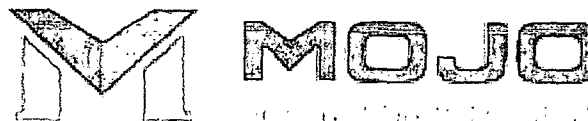
This survey is correct to the best of my knowledge and is supported
by actual field data.

 (Signature)

Notarized this date 13 of September, 2013.

 Notary

Signature County of Collin State of Texas





MOJO Standard Survey



Company:	Legacy Reserves LP	Local Coordinate Reference:	Well: Lea Unit #31H
Project:	Lea Unit	TVD Reference:	Well @ 3676.0usft (No Rig)
Site:	Lea Unit #31H	MD Reference:	Well @ 3676.0usft (No Rig)
Well:	Lea Unit #31H	North Reference:	Grid
Wellbore:	Lea Unit #31H	Survey Calculation Method:	Minimum Curvature
Design:	Lea Unit #31H	Database:	EDM 5000.1 Single User Db

Project:	Lea Unit		
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		Using geodetic scale factor

Site:	Lea Unit #31H				
Site Position:		Northing:	575,816.10 usft	Latitude:	32° 34' 49.310 N
From:	Map	Easting:	751,881.10 usft	Longitude:	103° 30' 56.229 W
Position Uncertainty:	0.0 usft	Slot Radius:	0 "	Grid Convergence:	0.44 °

Well:	Lea Unit #31H					
Well Position	+N/-S	0.0 usft	Northing:	575,816.10 usft	Latitude:	32° 34' 49.310 N
	+E/-W	0.0 usft	Easting:	751,881.10 usft	Longitude:	103° 30' 56.229 W
Position Uncertainty		1.0 usft	Wellhead Elevation:	usft	Ground Level:	3,651.0 usft

Wellbore:	Lea Unit #31H
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Magnetics:	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	04/04/2013	(°)	(°)	(nT)
			7.36	60.51	48,697

Design:	Lea Unit #31H
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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	179.90	

Survey Program:	Date	16/08/2013		
From	To	Survey (Wellbore)	Tool Name	Description
(usft)	(usft)			
107.6	15,739.0	Lea Unit #31H (Lea Unit #31H)		



MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Well Lea Unit #31H
Project:	Lea Unit	TVD Reference:	Well @ 3676.0usft (No Rig)
Site:	Lea Unit #31H	MDI Reference:	Well @ 3676.0usft (No Rig)
Well:	Lea Unit #31H	North Reference:	Grid
Wellbore:	Lea Unit #31H	Survey Calculation Method:	Minimum Curvature
Design:	Lea Unit #31H	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Easting (usft)	
0.0	0.00	0.00	0.0	-3.676.0	0.0	0.0	0.0	0.00	575,816.10	751,881.10	
107.6	0.30	230.41	107.6	-3.568.4	-0.2	-0.2	0.2	0.28	575,815.92	751,880.88	
194.3	0.70	197.45	194.3	-3.481.7	-0.8	-0.6	0.8	0.55	575,815.27	751,880.55	
282.9	1.20	198.82	282.9	-3,393.1	-2.2	-1.0	2.2	0.56	575,813.88	751,880.09	
372.5	1.36	199.97	372.5	-3,303.5	-4.1	-1.7	4.1	0.18	575,811.99	751,879.42	
458.1	1.42	198.17	458.1	-3,217.9	-6.1	-2.4	6.1	0.09	575,810.03	751,878.74	
548.8	1.51	200.80	548.7	-3,127.3	-8.3	-3.1	8.3	0.12	575,807.84	751,877.97	
639.6	1.58	201.51	639.5	-3,036.5	-10.5	-4.0	10.5	0.08	575,805.56	751,877.09	
672.9	1.58	201.43	672.8	-3,003.2	-11.4	-4.4	11.4	0.01	575,804.70	751,876.75	
763.8	1.56	204.53	763.7	-2,912.3	-13.7	-5.3	13.7	0.10	575,802.41	751,875.78	
858.7	1.65	206.47	858.5	-2,817.5	-16.1	-6.5	16.1	0.11	575,800.01	751,874.63	
953.7	1.68	209.32	953.4	-2,722.6	-18.5	-7.8	18.5	0.09	575,797.58	751,873.34	
1,048.6	1.69	209.93	1,048.3	-2,627.7	-21.0	-9.1	20.9	0.02	575,795.15	751,871.95	
1,143.5	1.76	211.58	1,143.1	-2,532.9	-23.4	-10.6	23.4	0.09	575,792.70	751,870.50	
1,239.4	1.79	211.36	1,239.0	-2,437.0	-25.9	-12.2	25.9	0.03	575,790.16	751,868.95	
1,335.3	1.74	213.67	1,334.9	-2,341.1	-28.4	-13.7	28.4	0.09	575,787.67	751,867.36	
1,430.2	1.60	218.74	1,429.7	-2,246.3	-30.7	-15.4	30.6	0.21	575,785.44	751,865.74	
1,525.1	1.39	223.60	1,524.6	-2,151.4	-32.5	-17.0	32.5	0.26	575,783.57	751,864.11	
1,622.0	1.24	227.88	1,621.5	-2,054.5	-34.1	-18.6	34.1	0.18	575,782.02	751,862.52	
1,716.9	1.28	228.73	1,716.4	-1,959.6	-35.5	-20.1	35.4	0.05	575,780.63	751,860.97	
1,761.0	1.18	232.08	1,760.4	-1,915.6	-36.1	-20.9	36.0	0.27	575,780.02	751,860.24	
13 3/8"											
1,811.8	1.08	236.66	1,811.3	-1,864.7	-36.7	-21.7	36.6	0.27	575,779.44	751,859.42	
1,907.8	0.10	96.96	1,907.2	-1,768.8	-37.2	-22.4	37.1	1.21	575,778.93	751,858.75	
2,003.7	0.35	80.06	2,003.1	-1,672.9	-37.1	-22.0	37.1	0.27	575,778.97	751,859.12	
2,098.6	0.44	78.32	2,098.0	-1,578.0	-37.0	-21.3	37.0	0.10	575,779.10	751,859.76	
2,193.5	0.47	77.74	2,192.9	-1,483.1	-36.8	-20.6	36.8	0.03	575,779.25	751,860.50	



MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Well Lea Unit #31H
Project:	Lea Unit	TVD Reference:	Well @ 3676.0usft (No Rig)
Site:	Lea Unit #31H	MD Reference:	Well @ 3676.0usft (No Rig)
Well:	Lea Unit #31H	North Reference:	Grid
Wellbore:	Lea Unit #31H	Survey Calculation Method:	Minimum Curvature
Design:	Lea Unit #31H	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc: (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)	
2,288.4	0.42	76.70	2,287.8	-1,388.2	-36.7	-19.9	36.7	0.05	575,779.41	751,861.22	
2,383.3	0.43	79.41	2,382.7	-1,293.3	-36.5	-19.2	36.5	0.02	575,779.56	751,861.91	
2,478.2	0.43	80.24	2,477.6	-1,198.4	-36.4	-18.5	36.4	0.01	575,779.69	751,862.61	
2,574.1	0.47	78.85	2,573.5	-1,102.5	-36.3	-17.8	36.2	0.04	575,779.82	751,863.35	
2,669.0	0.47	79.37	2,668.4	-1,007.6	-36.1	-17.0	36.1	0.00	575,779.97	751,864.11	
2,765.9	0.84	59.26	2,765.4	-910.6	-35.7	-16.0	35.7	0.44	575,780.41	751,865.12	
2,860.9	1.25	56.08	2,860.2	-815.8	-34.8	-14.5	34.7	0.44	575,781.34	751,866.57	
2,955.8	1.58	56.18	2,955.1	-720.9	-33.5	-12.6	33.4	0.35	575,782.65	751,868.52	
3,050.7	1.77	55.93	3,050.0	-626.0	-31.9	-10.3	31.9	0.20	575,784.19	751,870.82	
3,145.6	1.94	52.22	3,144.9	-531.1	-30.1	-7.8	30.1	0.22	575,786.00	751,873.30	
3,240.5	2.08	49.72	3,239.7	-436.3	-28.0	-5.2	28.0	0.17	575,788.10	751,875.89	
3,336.4	2.20	48.27	3,335.5	-340.5	-25.7	-2.5	25.6	0.14	575,790.45	751,878.59	
3,430.3	1.67	49.69	3,429.4	-246.6	-23.6	-0.1	23.6	0.57	575,792.53	751,880.98	
3,524.2	1.26	53.75	3,523.3	-152.7	-22.1	1.8	22.1	0.45	575,794.03	751,882.85	
3,620.1	1.29	55.19	3,619.2	-66.8	-20.8	3.5	20.8	0.05	575,795.27	751,884.59	
3,716.0	1.26	54.18	3,715.1	39.1	-19.6	5.2	19.6	0.04	575,796.50	751,886.33	
3,812.0	1.28	52.10	3,810.9	134.0	-18.3	6.9	18.3	0.05	575,797.78	751,888.03	
3,907.9	1.21	48.53	3,906.8	230.8	-17.0	8.5	17.0	0.11	575,799.11	751,889.64	
4,002.8	1.09	55.64	4,001.7	325.7	-15.8	10.0	15.8	0.20	575,800.28	751,891.13	
4,097.7	0.53	64.21	4,096.6	420.6	-15.1	11.2	15.1	0.60	575,800.98	751,892.27	
4,192.6	0.43	58.69	4,191.5	515.5	-14.7	11.9	14.8	0.12	575,801.36	751,892.97	
4,287.5	0.46	56.21	4,286.4	610.4	-14.3	12.5	14.4	0.04	575,801.75	751,893.50	
4,383.4	0.20	71.35	4,382.3	706.3	-14.1	13.0	14.1	0.28	575,802.02	751,894.07	
4,479.3	0.12	263.96	4,478.3	802.3	-14.0	13.0	14.1	0.33	575,802.06	751,894.13	
4,574.2	0.17	251.28	4,573.2	897.2	-14.1	12.8	14.1	0.06	575,802.01	751,893.90	
4,669.1	0.10	227.71	4,668.1	992.1	-14.2	12.6	14.2	0.09	575,801.91	751,893.70	
4,766.1	0.05	242.11	4,765.0	1,089.0	-14.3	12.5	14.3	0.05	575,801.83	751,893.60	



MOJO Standard Survey



Company:	Legacy Reserves LP	Local/Co-ordinate/Reference:	Well Lea Unit #31H
Project:	Lea Unit	TVD/Reference:	Well @ 3676.0usft (No Rig)
Site:	Lea Unit #31H	MD/Reference:	Well @ 3676.0usft (No Rig)
Well:	Lea Unit #31H	North/Reference:	Grid
Wellbore:	Lea Unit #31H	Survey Calculation/Method:	Minimum Curvature
Design:	Lea Unit #31H	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi.(azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V.Sec (usft)	DLeg: (°/100usft)	Northing (usft)	Easting (usft)	
4,861.0	0.05	92.69	4,859.9	1,183.9	-14.3	12.5	14.3	0.10	575,801.81	751,893.61	
4,955.9	0.10	116.76	4,954.8	1,278.8	-14.3	12.6	14.4	0.06	575,801.77	751,893.72	
5,051.8	0.16	74.45	5,050.7	1,374.7	-14.3	12.8	14.4	0.11	575,801.77	751,893.93	
5,146.7	0.22	65.99	5,145.6	1,469.6	-14.2	13.1	14.2	0.07	575,801.88	751,894.22	
5,241.6	0.26	63.52	5,240.5	1,564.5	-14.1	13.5	14.1	0.04	575,802.05	751,894.58	
5,337.5	0.22	52.17	5,336.4	1,660.4	-13.8	13.8	13.9	0.06	575,802.26	751,894.92	
5,432.4	0.18	20.99	5,431.4	1,755.4	-13.6	14.0	13.6	0.10	575,802.50	751,895.13	
5,449.0	0.18	19.99	5,447.9	1,771.9	-13.6	14.1	13.6	0.13	575,802.55	751,895.15	
9 5/8"											
5,527.3	0.22	351.88	5,526.3	1,850.3	-13.3	14.1	13.3	0.13	575,802.82	751,895.17	
5,622.2	0.26	327.78	5,621.2	1,945.2	-12.9	13.9	12.9	0.11	575,803.18	751,895.03	
5,718.2	0.13	310.86	5,717.1	2,041.1	-12.7	13.7	12.7	0.15	575,803.43	751,894.84	
5,814.1	0.11	321.57	5,813.0	2,137.0	-12.5	13.6	12.5	0.03	575,803.58	751,894.70	
5,910.0	0.13	16.42	5,908.9	2,232.9	-12.3	13.6	12.4	0.12	575,803.75	751,894.67	
6,005.9	0.22	48.46	6,004.8	2,328.8	-12.1	13.7	12.1	0.14	575,803.98	751,894.84	
6,100.2	0.25	77.56	6,099.1	2,423.1	-12.0	14.1	12.0	0.13	575,804.14	751,895.17	
6,196.4	0.49	65.33	6,195.3	2,519.3	-11.7	14.7	11.8	0.26	575,804.36	751,895.75	
6,291.7	0.42	67.16	6,290.6	2,614.6	-11.4	15.3	11.5	0.08	575,804.67	751,896.45	
6,387.0	0.46	52.06	6,385.9	2,709.9	-11.1	16.0	11.1	0.13	575,805.04	751,897.07	
6,482.2	0.50	63.98	6,481.1	2,805.1	-10.6	16.6	10.7	0.11	575,805.45	751,897.74	
6,577.5	0.52	70.55	6,576.4	2,900.4	-10.3	17.4	10.3	0.06	575,805.78	751,898.53	
6,672.8	0.51	86.99	6,671.7	2,995.7	-10.2	18.3	10.2	0.15	575,805.95	751,899.36	
6,768.1	0.46	91.88	6,767.0	3,091.0	-10.1	19.1	10.2	0.07	575,805.96	751,900.16	
6,863.5	0.57	103.66	6,862.4	3,186.4	-10.3	19.9	10.3	0.16	575,805.83	751,901.01	
6,958.9	0.44	146.88	6,957.7	3,281.7	-10.7	20.6	10.7	0.41	575,805.41	751,901.67	
7,054.2	0.56	162.94	7,053.1	3,377.1	-11.4	20.9	11.5	0.19	575,804.66	751,902.00	
7,149.6	0.60	173.20	7,148.5	3,472.5	-12.4	21.1	12.4	0.12	575,803.72	751,902.20	



MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Well Lea Unit #31H
Project:	Lea Unit	TVD Reference:	Well @ 3676.0usft (No Rig)
Site:	Lea Unit #31H	MD Reference:	Well @ 3676.0usft (No Rig)
Well:	Lea Unit #31H	North Reference:	Grid
Wellbore:	Lea Unit #31H	Survey Calculation Method:	Minimum Curvature
Design:	Lea Unit #31H	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc. (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DBeg (%/100usft)	Northing (usft)	Easting (usft)	
7,245.9	0.62	170.58	7,244.8	3,568.8	-13.4	21.2	13.4	0.04	575,802.71	751,902.34	
7,340.3	0.61	179.33	7,339.2	3,663.2	-14.4	21.3	14.4	0.10	575,801.70	751,902.43	
7,436.7	0.74	178.43	7,435.5	3,759.5	-15.5	21.4	15.6	0.14	575,800.56	751,902.46	
7,533.0	0.82	171.23	7,531.9	3,855.9	-16.8	21.5	16.9	0.13	575,799.26	751,902.58	
7,627.4	0.83	170.69	7,626.2	3,950.2	-18.2	21.7	18.2	0.01	575,797.92	751,902.79	
7,721.7	0.90	165.81	7,720.6	4,044.6	-19.6	22.0	19.6	0.11	575,796.53	751,903.09	
7,817.1	1.02	173.02	7,815.9	4,139.9	-21.1	22.3	21.2	0.18	575,794.96	751,903.37	
7,912.5	0.93	184.28	7,911.3	4,235.3	-22.8	22.3	22.8	0.22	575,793.34	751,903.42	
8,007.8	0.88	195.24	8,006.6	4,330.6	-24.2	22.1	24.3	0.19	575,791.87	751,903.17	
8,102.2	0.86	202.45	8,101.0	4,425.0	-25.6	21.6	25.6	0.12	575,790.51	751,902.71	
8,197.3	0.77	216.61	8,196.0	4,520.0	-26.8	21.0	26.8	0.23	575,789.34	751,902.05	
8,289.6	0.75	221.89	8,288.4	4,612.4	-27.7	20.2	27.7	0.08	575,788.39	751,901.28	
8,388.0	0.87	225.16	8,386.7	4,710.7	-28.7	19.2	28.7	0.13	575,787.39	751,900.32	
8,482.3	0.87	235.55	8,481.1	4,805.1	-29.6	18.1	29.7	0.17	575,786.48	751,899.22	
8,576.7	1.00	268.03	8,575.4	4,899.4	-30.1	16.7	30.1	0.57	575,786.04	751,897.81	
8,672.1	1.47	293.02	8,670.8	4,994.8	-29.6	14.8	29.6	0.74	575,786.49	751,895.85	
8,767.4	2.13	300.72	8,766.1	5,090.1	-28.2	12.1	28.2	0.74	575,787.87	751,893.20	
8,862.8	2.62	299.04	8,861.4	5,185.4	-26.3	8.7	26.3	0.52	575,789.84	751,889.77	
8,959.1	3.49	286.40	8,957.6	5,281.6	-24.4	3.9	24.4	1.14	575,791.74	751,885.03	
9,053.5	3.82	287.60	9,051.8	5,375.8	-22.6	-1.8	22.6	0.36	575,793.50	751,879.28	
9,147.9	4.17	290.83	9,145.9	5,469.9	-20.4	-8.0	20.4	0.44	575,795.67	751,873.08	
9,242.2	4.31	296.42	9,240.0	5,564.0	-17.6	-14.4	17.6	0.46	575,798.46	751,866.70	
9,337.6	4.42	305.72	9,335.1	5,659.1	-13.9	-20.6	13.9	0.75	575,802.20	751,860.51	
9,431.9	4.05	311.13	9,429.2	5,753.2	-9.6	-26.1	9.5	0.58	575,806.52	751,855.04	
9,527.3	3.80	310.10	9,524.3	5,848.3	-5.3	-31.0	5.3	0.27	575,810.77	751,850.09	
9,622.7	3.65	306.84	9,619.5	5,943.5	-1.5	-35.9	1.4	0.27	575,814.62	751,845.24	
9,717.0	3.94	305.84	9,713.6	6,037.6	2.2	-40.9	-2.3	0.32	575,818.32	751,840.21	



MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Well Lea Unit #31H
Project:	Lea Unit	TVD Reference:	Well @ 3676.0usft (No Rig)
Site:	Lea Unit #31H	MD Reference:	Well @ 3676.0usft (No Rig)
Well:	Lea Unit #31H	North Reference:	Grid
Wellbore:	Lea Unit #31H	Survey Calculation Method:	Minimum Curvature
Design:	Lea Unit #31H	Database:	EDM 5000.1 Single User Db

Survey:											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec. (usft)	DLeg (%/100usft)	Northing (usft)	Easting (usft)	
9,811.4	3.16	305.14	9,807.8	6,131.8	5.6	-45.6	-5.7	0.83	575,821.72	751,835.46	
9,906.7	2.92	305.51	9,903.0	6,227.0	8.5	-49.8	-8.6	0.25	575,824.64	751,831.33	
10,002.1	2.57	306.68	9,998.3	6,322.3	11.2	-53.5	-11.3	0.37	575,827.33	751,827.64	
10,097.5	1.93	305.23	10,093.6	6,417.6	13.4	-56.5	-13.5	0.67	575,829.53	751,824.61	
10,192.9	1.78	310.12	10,189.0	6,513.0	15.3	-58.9	-15.4	0.23	575,831.42	751,822.17	
10,287.4	1.70	312.37	10,283.4	6,607.4	17.2	-61.1	-17.3	0.11	575,833.31	751,820.01	
10,382.8	1.56	312.95	10,378.8	6,702.8	19.0	-63.1	-19.2	0.15	575,835.14	751,818.01	
10,462.0	5.40	222.30	10,457.8	6,781.8	17.0	-66.4	-17.1	7.12	575,833.12	751,814.71	
10,494.0	8.40	209.60	10,489.6	6,813.6	13.9	-68.6	-14.0	10.46	575,829.97	751,812.54	
10,526.0	12.40	211.30	10,521.1	6,845.1	8.9	-71.5	-9.0	12.54	575,825.00	751,809.60	
10,557.0	18.00	216.90	10,551.1	6,875.1	2.6	-75.8	-2.8	12.42	575,818.74	751,805.31	
10,589.0	20.10	223.00	10,581.5	6,905.5	-4.9	-82.2	4.8	14.09	575,811.19	751,798.91	
10,619.0	22.70	218.60	10,609.5	6,933.5	-13.2	-89.3	13.1	10.18	575,802.89	751,791.78	
10,651.0	24.80	211.60	10,638.8	6,962.8	-23.8	-96.7	23.6	10.98	575,792.35	751,784.41	
10,683.0	27.30	235.80	10,667.5	6,991.5	-36.1	-103.4	35.9	11.15	575,780.02	751,777.69	
10,714.0	30.10	200.40	10,694.7	7,018.7	-49.8	-109.2	49.6	12.30	575,766.33	751,771.89	
10,746.0	33.00	197.00	10,722.0	7,046.0	-65.6	-114.6	65.4	10.63	575,750.47	751,766.54	
10,778.0	37.00	194.70	10,748.2	7,072.2	-83.3	-119.6	83.1	13.16	575,732.82	751,761.55	
10,806.0	41.10	192.50	10,769.9	7,093.9	-100.4	-123.7	100.2	15.45	575,715.67	751,757.42	
10,838.0	44.60	190.70	10,793.4	7,117.4	-121.7	-128.0	121.5	11.59	575,694.36	751,753.05	
10,870.0	48.40	188.70	10,815.4	7,139.4	-144.6	-131.9	144.4	12.71	575,671.48	751,749.16	
10,902.0	51.70	185.30	10,836.0	7,160.0	-169.0	-134.9	168.7	13.14	575,647.14	751,746.19	
10,933.0	56.50	185.10	10,854.1	7,178.1	-194.0	-137.2	193.7	15.40	575,622.14	751,743.91	
10,965.0	61.70	185.50	10,870.6	7,194.6	-221.3	-139.7	221.0	16.29	575,594.81	751,741.37	
10,997.0	66.70	185.50	10,884.5	7,208.5	-250.0	-142.5	249.7	15.62	575,566.15	751,738.61	
11,029.0	71.80	184.80	10,895.8	7,219.8	-279.8	-145.2	279.5	16.07	575,536.35	751,735.93	
11,061.0	76.80	184.70	10,904.5	7,228.5	-310.4	-147.7	310.2	15.63	575,505.66	751,733.38	



MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Well Lea Unit #31H
Project:	Lea Unit	TVD Reference:	Well @ 3676.0usft (No Rig)
Site:	Lea Unit #31H	MD Reference:	Well @ 3676.0usft (No Rig)
Well:	Lea Unit #31H	North Reference:	Grid
Wellbore:	Lea Unit #31H	Survey Calculation Method:	Minimum Curvature
Design:	Lea Unit #31H	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	D Leg (°/100usft)	Northing (usft)	Easting (usft)
11,093.0	81.40	183.10	10,910.5	7,234.5	-341.8	-149.9	341.5	15.19	575,474.32	751,731.25
11,125.0	86.90	182.90	10,913.8	7,237.8	-373.6	-151.5	373.3	17.20	575,442.54	751,729.58
11,159.0	90.30	178.50	10,914.6	7,238.6	-407.5	-151.9	407.3	16.35	575,408.57	751,729.17
11,190.0	90.90	174.60	10,914.3	7,238.3	-438.5	-150.1	438.2	12.73	575,377.64	751,731.03
11,222.0	89.40	174.10	10,914.2	7,238.2	-470.3	-146.9	470.1	4.94	575,345.79	751,734.18
11,286.0	87.40	171.40	10,916.0	7,240.0	-533.8	-138.8	533.5	5.25	575,282.34	751,742.26
11,318.0	87.70	171.30	10,917.4	7,241.4	-565.4	-134.0	565.1	0.99	575,250.73	751,747.06
11,381.0	87.40	169.80	10,920.1	7,244.1	-627.5	-123.7	627.2	2.43	575,188.65	751,757.40
11,477.0	87.70	169.80	10,924.2	7,248.2	-721.9	-106.7	721.7	0.31	575,094.25	751,774.38
11,572.0	88.20	169.70	10,927.6	7,251.6	-815.3	-89.8	815.1	0.54	575,000.83	751,791.28
11,668.0	87.70	169.40	10,931.0	7,255.0	-909.6	-72.4	909.5	0.61	574,906.49	751,808.66
11,763.0	89.20	169.90	10,933.6	7,257.6	-1,003.0	-55.4	1,002.9	1.66	574,813.07	751,825.74
11,858.0	89.40	169.90	10,934.7	7,258.7	-1,096.6	-38.7	1,096.5	0.21	574,719.55	751,842.39
11,953.0	90.10	173.00	10,935.1	7,259.1	-1,190.5	-24.6	1,190.5	3.35	574,625.62	751,856.52
12,049.0	89.80	174.70	10,935.2	7,259.2	-1,285.9	-14.3	1,285.9	1.80	574,530.18	751,866.80
12,144.0	89.90	176.10	10,935.5	7,259.5	-1,380.6	-6.7	1,380.6	1.48	574,435.49	751,874.42
12,240.0	90.60	177.70	10,935.1	7,259.1	-1,476.5	-1.5	1,476.5	1.82	574,339.64	751,879.61
12,335.0	90.30	177.60	10,934.3	7,258.3	-1,571.4	2.4	1,571.4	0.33	574,244.72	751,883.51
12,430.0	89.10	178.00	10,934.8	7,258.8	-1,666.3	6.1	1,666.3	1.33	574,149.80	751,887.15
12,526.0	88.00	179.40	10,937.2	7,261.2	-1,762.3	8.2	1,762.3	1.85	574,053.86	751,889.33
12,621.0	86.90	179.90	10,941.5	7,265.5	-1,857.2	8.8	1,857.2	1.27	573,958.96	751,889.91
12,717.0	87.30	180.20	10,946.3	7,270.3	-1,953.1	8.7	1,953.1	0.52	573,863.08	751,889.83
12,812.0	87.70	180.30	10,950.5	7,274.5	-2,048.0	8.3	2,048.0	0.43	573,768.18	751,889.41
12,907.0	86.70	180.50	10,955.1	7,279.1	-2,142.8	7.6	2,142.9	1.07	573,673.29	751,888.75
13,003.0	86.80	180.50	10,960.5	7,284.5	-2,238.7	6.8	2,238.7	0.10	573,577.45	751,887.91
13,098.0	87.00	180.70	10,965.7	7,289.7	-2,333.5	5.8	2,333.5	0.30	573,482.60	751,886.92
13,193.0	85.90	179.80	10,971.6	7,295.6	-2,428.4	5.4	2,428.4	1.49	573,387.79	751,886.51



MOJO Standard Survey

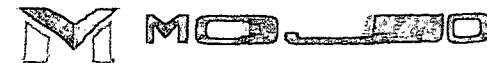


Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Well Lea Unit #31H
Project:	Lea Unit	TVD Reference:	Well @ 3676.0usft (No Rig)
Site:	Lea Unit #31H	MD Reference:	Well @ 3676.0usft (No Rig)
Well:	Lea Unit #31H	North Reference:	Grid
Wellbore:	Lea Unit #31H	Survey Calculation Method:	Minimum Curvature
Design:	Lea Unit #31H	Database:	EDM 5000.1 Single User Db

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (%/100usft)	Northings (usft)	Easting (usft)	
13,288.0	86.20	180.00	10,978.1	7,302.1	-2,523.1	5.6	2,523.1	0.38	573,293.02	751,886.67	
13,383.0	87.70	179.80	10,983.2	7,307.2	-2,618.0	5.7	2,618.0	1.59	573,198.15	751,886.84	
13,479.0	88.70	179.40	10,986.2	7,310.2	-2,713.9	6.4	2,713.9	1.12	573,102.21	751,887.51	
13,574.0	90.50	179.50	10,986.8	7,310.8	-2,808.9	7.3	2,808.9	1.90	573,007.22	751,888.42	
13,669.0	91.30	179.50	10,985.4	7,309.4	-2,903.9	8.1	2,903.9	0.84	572,912.24	751,889.25	
13,764.0	91.70	179.60	10,982.9	7,306.9	-2,998.9	8.9	2,998.9	0.43	572,817.28	751,889.99	
13,859.0	90.90	180.10	10,980.7	7,304.7	-3,093.9	9.1	3,093.9	0.99	572,722.30	751,890.24	
13,954.0	90.60	179.90	10,979.5	7,303.5	-3,188.8	9.1	3,188.9	0.38	572,627.31	751,890.24	
14,049.0	91.20	180.10	10,978.0	7,302.0	-3,283.8	9.1	3,283.8	0.67	572,532.33	751,890.24	
14,144.0	88.60	178.90	10,978.1	7,302.1	-3,378.8	10.0	3,378.8	3.01	572,437.34	751,891.07	
14,239.0	89.20	179.20	10,980.0	7,304.0	-3,473.8	11.5	3,473.8	0.71	572,342.37	751,892.65	
14,334.0	89.70	179.00	10,980.9	7,304.9	-3,568.8	13.0	3,568.8	0.57	572,247.39	751,894.14	
14,429.0	90.10	178.80	10,981.0	7,305.0	-3,663.8	14.9	3,663.8	0.47	572,152.41	751,895.96	
14,524.0	89.20	178.60	10,981.6	7,305.6	-3,758.7	17.0	3,758.8	0.97	572,057.44	751,898.12	
14,619.0	89.70	178.30	10,982.5	7,306.5	-3,853.7	19.6	3,853.7	0.61	571,962.48	751,900.69	
14,714.0	87.70	178.90	10,984.7	7,308.7	-3,948.6	21.9	3,948.7	2.20	571,867.54	751,903.01	
14,809.0	88.10	178.80	10,988.2	7,312.2	-4,043.5	23.8	4,043.6	0.43	571,772.63	751,904.91	
14,905.0	89.10	179.10	10,990.5	7,314.5	-4,139.5	25.6	4,139.5	1.09	571,676.68	751,906.67	
15,002.0	90.20	179.50	10,991.1	7,315.1	-4,236.5	26.8	4,236.5	1.21	571,579.69	751,907.85	
15,098.0	90.90	179.80	10,990.2	7,314.2	-4,332.5	27.3	4,332.5	0.79	571,483.70	751,908.44	
15,195.0	89.90	179.10	10,989.5	7,313.5	-4,429.5	28.3	4,429.5	1.26	571,386.71	751,909.37	
15,291.0	90.00	178.70	10,989.6	7,313.6	-4,525.5	30.1	4,525.5	0.43	571,290.73	751,911.22	
15,388.0	90.30	178.30	10,989.3	7,313.3	-4,622.4	32.7	4,622.5	0.52	571,193.76	751,913.75	
15,485.0	91.00	178.50	10,988.2	7,312.2	-4,719.4	35.4	4,719.4	0.75	571,096.81	751,916.46	
15,580.0	91.70	178.40	10,986.0	7,310.0	-4,814.3	37.9	4,814.4	0.74	571,001.87	751,919.03	
15,676.0	92.10	178.20	10,982.8	7,306.8	-4,910.2	40.8	4,910.3	0.47	570,905.97	751,921.88	



MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Well Lea Unit #31H
Project:	Lea Unit	TVD Reference:	Well @ 3676.0usft (No Rig)
Site:	Lea Unit #31H	MD Reference:	Well @ 3676.0usft (No Rig)
Well:	Lea Unit #31H	North Reference:	Grid
Wellbore:	Lea Unit #31H	Survey Calculation Method:	Minimum Curvature
Design:	Lea Unit #31H	Database:	EDM 5000.1 Single User Db

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	TVDSS (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Northing (usft)	Eastings (usft)
15,736.5	92.10	178.20	10,980.6	7,304.6	-4,970.6	42.7	4,970.7	0.00	570,845.54	751,823.78
5 1/2"										
15,739.0	92.10	178.20	10,980.5	7,304.5	-4,973.1	42.8	4,973.2	0.00	570,843.04	751,821.86

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,761.0	1,760.4	13 3/8"	13-3/8	16
5,449.0	5,447.9	9 5/8"	9-5/8	12-1/4
15,736.5	10,980.6	5 1/2"	5-1/2	8-3/4

Measured Depth (usft)	Vertical Depth (usft)	Name	Dip (°)
10,937.3	10,856.5	3rd Bone Spring SH Top	0.00
10,151.4	10,147.5	2nd Bone Spring	0.00
11,585.7	10,928.0	3rd BS Porosity Base	0.00
5,751.2	5,750.1	Bell Canyon	0.00
5,580.1	5,579.0	Lamar	0.00
6,477.7	6,476.6	Cherry Canyon	0.00
8,787.5	8,786.1	Avalon Shale	0.00
12,594.5	10,940.1	3rd Bone Spring SH Base	0.00
11,006.1	10,888.0	3rd BS Porosity Top	0.00
7,440.9	7,439.8	Brushy Canyon	0.00
9,471.8	9,468.9	1st Bone Spring	0.00
9,052.0	9,050.3	Avalon Carbonate	0.00
10,775.6	10,746.3	3rd Bone Spring	0.00
8,208.0	8,206.8	Bone Spring	0.00



MOJO Standard Survey



Company:	Legacy Reserves LP	Local Co-ordinate Reference:	Well Lea Unit #31H
Project:	Lea Unit	TVD Reference:	Well @ 3676.0usft (No Rig)
Site:	Lea Unit #31H	MD Reference:	Well @ 3676.0usft (No Rig)
Wells:	Lea Unit #31H	North Reference:	Grid
Wellbore:	Lea Unit #31H	Survey Calculation Method:	Minimum Curvature
Design:	Lea Unit #31H	Database:	EDM 5000.1 Single User Db

Checked By: Isabel Strickland Approved By: [Signature] Date: 09/11/13