PHOENIX
TECHNOLOGY SERVICES USA INC.
Celebrating 20 Years of Focused Solutions
3610 Elkins Road, Midland, Texas 79705 T. 432.684.0057 F. 432.686.7964 www.phxtech.com

April 23, 2018

HOBBS OCD
MAY 14 2018
RECEIVED

Oil Conservation Division
State of New Mexico
1625 N. French Drive
District 1 - Hobbs
Hobbs, New Mexico 88240

Attention: Regulatory Department

Re: Legacy Reserves
Lea Unit 43H
Lea County, New Mexico
API # 30-025-44329
Job No. 62677

Enclosed please find the Survey Data Certification, and the original Plat and one copy of the Survey Report performed on the above referenced well by Phoenix Technology Services, Inc. (P-5 No. 664171). Other information required by your office is as follows:

Name & Title of Surveyor	Drain Hole Number	Surveyed Depths		Dates Performed		Type of Survey
		From	To	Start	End	
Andy Askew	43H	0	5,500	4/19/18	4/19/18	Gyro

A certified plat on which the bottom hole location is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Best Regards,

Brittany Carley

Brittany Carley
Operations Administrator

SURVEY CERTIFICATION FORM

3610 Elkins Road Midland, TX 79705 t:432-684-0057 f: 432-686-7964

PHOENIX TECHNOLOGY SERVICES

Company: Legacy

Job #: 62677

Well Name: Lea Unit 43H

County/State: Lea/ NM

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-44329

TIE-IN DATA

Measure Depth (ft)	Vertical Depth (ft)	Inclination (°)	Azimuth (°)	N-S Coordinates	E-W Coordinates	Data Source
0	0	0	0	0	0	Surface

First Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-04-19	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2018-04-19	5500	6.09	104.55

Projected TD Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
0	0	0	0

Grid Correction
-0.44

Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

To the best of my knowledge I certify this survey data to be correct and true

Date: 4/20/18

Print Name: Andy Askew

Signature:

PHOENIX TECHNOLOGY SERVICES

Company: Legacy
Well: Lea Unit 43H
Location: Lea Co., NM
Rig: McVay 4

Job Number: 62677
Grid Corr.: -0.44
Lat: 32.57
Long: -103.50

Date: 04-19-18
Calculation Method: Minimum Curvature
Proposed Azimuth: 0.5
RKB - MSL in feet: 20
Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
Enter Tie-In Survey on Line 10						**FIELD COPY, NON-DEFINITIVE**							
TIE IN	0			0	0	0	0	0					
Gyro	100.00	0.17	3.53	100	100.00	0.15	0.15 N	0.01 E	0.15	3.53	0.17	0.17	3.53
	200.00	0.87	359.37	100	200.00	1.06	1.06 N	0.01 E	1.06	0.54	0.70	0.70	355.84
	300.00	1.90	3.90	100	299.96	3.47	3.47 N	0.11 E	3.47	1.89	1.04	1.03	-355.47
	400.00	2.14	11.73	100	399.90	6.96	6.95 N	0.61 E	6.98	4.99	0.37	0.24	7.83
	500.00	1.97	21.85	100	499.84	10.39	10.37 N	1.63 E	10.50	8.91	0.40	-0.17	10.12
	600.00	1.79	33.98	100	599.78	13.29	13.26 N	3.14 E	13.63	13.31	0.44	-0.18	12.13
	700.00	1.72	38.99	100	699.74	15.77	15.73 N	4.96 E	16.49	17.49	0.17	-0.07	5.01
	800.00	1.63	37.58	100	799.70	18.08	18.02 N	6.77 E	19.25	20.58	0.10	-0.09	-1.41
	900.00	1.59	36.98	100	899.66	20.33	20.25 N	8.47 E	21.95	22.69	0.04	-0.04	-0.60
	1000.00	1.55	43.57	100	999.62	22.43	22.34 N	10.24 E	24.58	24.61	0.18	-0.04	6.59
	1100.00	1.11	79.35	100	1099.59	23.61	23.50 N	12.12 E	26.44	27.28	0.92	-0.44	35.78
	1200.00	1.08	116.64	100	1199.58	23.38	23.26 N	13.91 E	27.10	30.89	0.70	-0.03	37.29
	1300.00	0.74	131.72	100	1299.56	22.54	22.41 N	15.24 E	27.10	34.22	0.41	-0.34	15.08
	1400.00	0.64	138.13	100	1399.56	21.70	21.56 N	16.09 E	26.90	36.74	0.13	-0.10	6.41
	1500.00	0.31	135.04	100	1499.55	21.10	20.95 N	16.66 E	26.77	38.48	0.33	-0.33	-3.09
	1600.00	0.20	187.98	100	1599.55	20.74	20.59 N	16.82 E	26.59	39.25	0.25	-0.11	52.94
	1700.00	0.10	13.67	100	1699.55	20.65	20.50 N	16.82 E	26.52	39.37	0.30	-0.10	-174.31
	1800.00	0.28	206.88	100	1799.55	20.51	20.37 N	16.73 E	26.36	39.40	0.38	0.18	193.21
	1900.00	0.40	115.70	100	1899.55	20.15	20.00 N	16.94 E	26.21	40.26	0.49	0.12	-91.18
	2000.00	0.16	69.01	100	1999.55	20.05	19.90 N	17.38 E	26.42	41.14	0.31	-0.24	-46.69
	2100.00	0.83	57.21	100	2099.54	20.50	20.34 N	18.12 E	27.24	41.70	0.67	0.67	-11.80
	2200.00	1.33	78.22	100	2199.53	21.14	20.97 N	19.86 E	28.88	43.45	0.63	0.50	21.01
	2300.00	1.43	89.31	100	2299.50	21.41	21.22 N	22.25 E	30.75	46.35	0.28	0.10	11.09
	2400.00	1.45	77.63	100	2399.47	21.72	21.51 N	24.73 E	32.77	48.99	0.29	0.02	-11.68
	2500.00	1.20	87.72	100	2499.44	22.05	21.82 N	27.01 E	34.72	51.07	0.34	-0.25	10.09
	2600.00	1.00	74.12	100	2599.42	22.35	22.10 N	28.90 E	36.38	52.59	0.33	-0.20	-13.60
	2700.00	1.34	83.99	100	2699.40	22.73	22.46 N	30.90 E	38.20	53.99	0.39	0.34	9.87

PHOENIX
TECHNOLOGY SERVICES

Company:	Legacy	Job Number:	62677	Calculation Method:	Minimum Curvature
Well:	Lea Unit 43H	Grid Corr.:	-0.44	Proposed Azimuth:	0.5
Location:	Lea Co., NM	Lat:	32.57	RKB - MSL in feet:	20
Rig:	McVay 4	Long:	-103.50	Tie Into:	Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates N/S (ft)	Coordinates E/W (ft)	Closure Distance (ft)	Closure Angle (deg)	Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
	2800.00	0.74	59.73	100	2799.38	23.19	22.91 N	32.62 E	39.86	54.92	0.73	-0.60	-24.26
	2900.00	1.05	64.68	100	2899.37	23.92	23.63 N	34.01 E	41.41	55.21	0.32	0.31	4.95
	3000.00	0.93	68.77	100	2999.36	24.62	24.31 N	35.59 E	43.10	55.66	0.14	-0.12	4.09
	3100.00	1.28	60.92	100	3099.34	25.47	25.15 N	37.33 E	45.01	56.03	0.38	0.35	-7.85
	3200.00	1.31	75.05	100	3199.31	26.33	25.99 N	39.41 E	47.20	56.60	0.32	0.03	14.13
	3300.00	1.47	82.49	100	3299.28	26.81	26.45 N	41.78 E	49.45	57.67	0.24	0.16	7.44
	3400.00	1.49	81.39	100	3399.25	27.20	26.81 N	44.34 E	51.81	58.84	0.03	0.02	-1.10
	3500.00	1.50	73.72	100	3499.22	27.78	27.37 N	46.88 E	54.29	59.72	0.20	0.01	-7.67
	3600.00	1.44	80.77	100	3599.18	28.37	27.94 N	49.38 E	56.73	60.50	0.19	-0.06	7.05
	3700.00	1.43	64.21	100	3699.15	29.14	28.69 N	51.74 E	59.16	61.00	0.41	-0.01	-16.56
	3800.00	1.15	66.44	100	3799.13	30.10	29.63 N	53.78 E	61.41	61.15	0.28	-0.28	2.23
	3900.00	1.42	92.55	100	3899.10	30.46	29.98 N	55.94 E	63.47	61.82	0.64	0.27	26.11
	4000.00	1.26	98.63	100	3999.07	30.26	29.76 N	58.27 E	65.43	62.95	0.21	-0.16	6.08
	4100.00	1.20	80.63	100	4099.05	30.29	29.76 N	60.39 E	67.32	63.76	0.39	-0.06	-18.00
	4200.00	1.38	71.24	100	4199.03	30.86	30.32 N	62.56 E	69.52	64.14	0.28	0.18	-9.39
	4300.00	1.36	71.82	100	4299.00	31.64	31.08 N	64.83 E	71.89	64.39	0.02	-0.02	0.58
	4400.00	1.36	79.26	100	4398.97	32.25	31.67 N	67.12 E	74.22	64.74	0.18	0.00	7.44
	4500.00	1.23	65.52	100	4498.94	32.94	32.33 N	69.26 E	76.44	64.98	0.34	-0.13	-13.74
	4600.00	1.39	78.10	100	4598.92	33.65	33.03 N	71.43 E	78.69	65.18	0.33	0.16	12.58
	4700.00	1.67	84.63	100	4698.88	34.06	33.41 N	74.07 E	81.25	65.72	0.33	0.28	6.53
	4800.00	1.79	83.51	100	4798.84	34.40	33.73 N	77.07 E	84.13	66.36	0.12	0.12	-1.12
	4900.00	1.95	88.90	100	4898.78	34.64	33.94 N	80.32 E	87.20	67.10	0.24	0.16	5.39
	5000.00	2.50	98.00	100	4998.71	34.40	33.67 N	84.18 E	90.66	68.20	0.65	0.55	9.10
	5100.00	3.28	93.83	100	5098.58	33.95	33.17 N	89.20 E	95.16	69.60	0.81	0.78	-4.17
	5200.00	4.07	96.99	100	5198.37	33.38	32.55 N	95.57 E	100.96	71.19	0.82	0.79	3.16
	5300.00	4.77	103.80	100	5298.08	32.02	31.12 N	103.13 E	107.73	73.21	0.87	0.70	6.81
	5400.00	5.36	103.87	100	5397.69	29.99	29.01 N	111.71 E	115.41	75.44	0.59	0.59	0.07
	5500.00	6.09	104.55	100	5497.19	27.62	26.56 N	121.37 E	124.25	77.66	0.73	0.73	0.68