



PHOENIX

TECHNOLOGY SERVICES USA INC.

3610 Elkins Road, Midland, Texas 79705 T. 432.684.0057 F. 432.686.7964 www.phxtech.com

Celebrating 20 Years of Focused Solutions

30-025-43248

August 16, 2017

HOBBS OCD

AUG 21 2017

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
Hamon A Federal Com #7H
Lea County, New Mexico
API # 30-025-43248
Job No. 61646

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	
Noe Garza	7H	0	5,400	8/15/17	8/15/17	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



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TECHNOLOGY SERVICES

HOBBS OCD

AUG 21 2017

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Company: Legacy

Job #: 61646

Well Name: Hamon A Federal Com # 7H

County/State: Lea Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-43248

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 (°)
2017-08-15	0	0	0

Last Survey

Date	Depth (ft)	Inclination (°)	Azimuth (°)
2017-08-15	5400	3.69	296.08

Projected TD Survey

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

Grid Correction
-0.4

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:

08-15-17

Print Name: Noe Garza

Signature:

AUG 21 2017

RECEIVED


PHOENIX
 TECHNOLOGY SERVICES

 Company: Legacy
 Well: Hamon A Federal Com # 7H
 Location: Lea Co., New Mexico
 Rig: McVay 4

 Job Number: 61646
 Grid Corr.: -0.40
 Lat: 32.60
 Long: -103.60

 Date: 08-15-17
 Calculation Method: Minimum Curvature
 Proposed Azimuth:
 RKB - MSL in feet: 18
 Tie Into: Surface

Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)										
Enter Tie-In Survey on Line 10													
FIELD COPY, NON-DEFINITIVE													
TIE IN	0			0	0	0	0	0					
Gyro	50.00	0.38	296.17	50	50.00	0.07	0.07 N	0.15 W	0.17	296.17	0.76	0.76	592.34
	100.00	0.56	137.77	50	100.00	-0.03	0.03 S	0.13 W	0.14	255.43	1.85	0.36	-316.80
	200.00	0.49	53.03	100	200.00	-0.14	0.14 S	0.54 E	0.55	104.56	0.71	-0.07	-84.74
	300.00	0.58	200.06	100	299.99	-0.36	0.36 S	0.70 E	0.79	116.91	1.03	0.09	147.03
	400.00	0.33	262.98	100	399.99	-0.87	0.87 S	0.25 E	0.90	164.22	0.52	-0.25	62.92
	500.00	0.64	351.23	100	499.99	-0.35	0.35 S	0.13 W	0.37	199.67	0.71	0.31	88.25
	600.00	0.60	190.69	100	599.99	-0.31	0.31 S	0.31 W	0.44	224.44	1.22	-0.04	-160.54
	700.00	0.44	251.24	100	699.98	-0.95	0.95 S	0.77 W	1.22	218.92	0.54	-0.16	60.55
	800.00	0.78	34.68	100	799.98	-0.52	0.52 S	0.74 W	0.91	235.30	1.16	0.34	-216.56
	900.00	0.62	13.14	100	899.97	0.57	0.57 N	0.23 W	0.62	337.65	0.31	-0.16	-21.54
	1000.00	0.57	95.27	100	999.97	1.05	1.05 N	0.38 E	1.12	20.04	0.78	-0.05	82.13
	1100.00	0.55	86.08	100	1099.96	1.04	1.04 N	1.36 E	1.71	52.57	0.09	-0.02	-9.19
	1200.00	0.49	90.89	100	1199.96	1.07	1.07 N	2.26 E	2.50	64.80	0.07	-0.06	4.81
	1300.00	0.35	208.61	100	1299.96	0.79	0.79 N	2.55 E	2.67	72.75	0.72	-0.14	117.72
	1400.00	0.43	224.84	100	1399.96	0.26	0.26 N	2.13 E	2.15	83.15	0.14	0.08	16.23
	1500.00	0.51	222.88	100	1499.95	-0.34	0.34 S	1.57 E	1.60	102.10	0.08	0.08	-1.96
	1600.00	0.34	117.20	100	1599.95	-0.80	0.80 S	1.53 E	1.72	117.56	0.69	-0.17	-105.68
	1700.00	0.53	17.94	100	1699.95	-0.49	0.49 S	1.93 E	2.00	104.30	0.67	0.19	-99.26
	1800.00	1.79	41.59	100	1799.93	1.11	1.11 N	3.11 E	3.31	70.30	1.32	1.26	23.65
	1900.00	1.96	46.82	100	1899.87	3.45	3.45 N	5.40 E	6.41	57.39	0.24	0.17	5.23
	2000.00	2.57	51.29	100	1999.80	6.03	6.03 N	8.39 E	10.33	54.33	0.63	0.61	4.47
	2100.00	2.57	48.13	100	2099.70	8.92	8.92 N	11.81 E	14.81	52.93	0.14	0.00	-3.16
	2200.00	2.15	49.21	100	2199.61	11.65	11.65 N	14.90 E	18.91	51.99	0.42	-0.42	1.08
	2300.00	2.09	49.06	100	2299.54	14.07	14.07 N	17.70 E	22.61	51.53	0.06	-0.06	-0.15
	2400.00	2.19	49.55	100	2399.47	16.50	16.50 N	20.53 E	26.34	51.21	0.10	0.10	0.49
	2500.00	2.37	58.72	100	2499.39	18.81	18.81 N	23.75 E	30.30	51.62	0.41	0.18	9.17
	2600.00	2.45	59.67	100	2599.30	20.97	20.97 N	27.36 E	34.47	52.54	0.09	0.08	0.95



Company: Legacy
 Well: Hamon A Federal Com # 7H
 Location: Lea Co., New Mexico
 Rig: McVay 4

Job Number: 61646
 Grid Corr.: -0.40
 Lat: 32.60
 Long: -103.60

Calculation Method: Minimum Curvature
 Proposed Azimuth:
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Survey Tool Type	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Angle (deg)			
	2700.00	2.19	58.26	100	2699.22	23.05	23.05 N	30.83 E	38.50	53.22	0.27	-0.26	-1.41
	2800.00	1.97	59.13	100	2799.16	24.94	24.94 N	33.93 E	42.11	53.69	0.22	-0.22	0.87
	2900.00	2.36	72.59	100	2899.09	26.44	26.44 N	37.37 E	45.78	54.73	0.64	0.39	13.46
	3000.00	2.09	63.22	100	2999.01	27.87	27.87 N	40.97 E	49.55	55.77	0.45	-0.27	-9.37
	3100.00	2.01	63.64	100	3098.95	29.47	29.47 N	44.17 E	53.10	56.28	0.08	-0.08	0.42
	3200.00	1.36	76.14	100	3198.90	30.54	30.54 N	46.89 E	55.96	56.93	0.74	-0.65	12.50
	3300.00	1.11	72.35	100	3298.88	31.12	31.12 N	48.97 E	58.01	57.57	0.26	-0.25	-3.79
	3400.00	0.22	72.03	100	3398.87	31.47	31.47 N	50.07 E	59.14	57.85	0.89	-0.89	-0.32
	3500.00	0.37	338.96	100	3498.87	31.83	31.83 N	50.14 E	59.39	57.59	0.44	0.15	266.93
	3600.00	0.71	354.16	100	3598.87	32.75	32.75 N	49.96 E	59.73	56.76	0.37	0.34	15.20
	3700.00	0.36	118.56	100	3698.86	33.21	33.21 N	50.17 E	60.17	56.50	0.96	-0.35	-235.60
	3800.00	0.58	11.31	100	3798.86	33.56	33.56 N	50.55 E	60.67	56.42	0.77	0.22	-107.25
	3900.00	0.55	77.22	100	3898.86	34.16	34.16 N	51.11 E	61.48	56.24	0.62	-0.03	65.91
	4000.00	0.16	92.41	100	3998.86	34.26	34.26 N	51.72 E	62.04	56.48	0.40	-0.39	15.19
	4100.00	0.02	211.63	100	4098.86	34.24	34.24 N	51.85 E	62.14	56.56	0.17	-0.14	119.22
	4200.00	0.88	298.77	100	4198.85	34.60	34.60 N	51.17 E	61.77	55.94	0.88	0.86	87.14
	4300.00	1.08	289.14	100	4298.84	35.27	35.27 N	49.61 E	60.87	54.58	0.26	0.20	-9.63
	4400.00	1.07	308.14	100	4398.82	36.16	36.16 N	47.98 E	60.08	53.00	0.35	-0.01	19.00
	4500.00	1.40	302.32	100	4498.80	37.39	37.39 N	46.21 E	59.45	51.03	0.35	0.33	-5.82
	4600.00	1.69	301.81	100	4598.76	38.82	38.82 N	43.93 E	58.62	48.53	0.29	0.29	-0.51
	4700.00	1.98	300.36	100	4698.71	40.47	40.47 N	41.19 E	57.74	45.50	0.29	0.29	-1.45
	4800.00	1.97	314.52	100	4798.65	42.55	42.55 N	38.47 E	57.36	42.12	0.49	-0.01	14.16
	4900.00	1.93	310.17	100	4898.59	44.84	44.84 N	35.96 E	57.48	38.73	0.15	-0.04	-4.35
	5000.00	1.72	301.23	100	4998.54	46.70	46.70 N	33.39 E	57.41	35.56	0.35	-0.21	-8.94
	5100.00	2.61	312.86	100	5098.47	49.03	49.03 N	30.43 E	57.71	31.83	0.99	0.89	11.63
	5200.00	2.79	298.17	100	5198.36	51.73	51.73 N	26.62 E	58.18	27.23	0.71	0.18	-14.69
	5300.00	3.43	297.55	100	5298.21	54.26	54.26 N	21.82 E	58.49	21.91	0.64	0.64	-0.62
	5400.00	3.69	296.08	100	5398.02	57.06	57.06 N	16.28 E	59.34	15.92	0.28	0.26	-1.47

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88203

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87506

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Frances Dr.
Santa Fe, NM 87505

HOBBS OGD

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

MAY 16 2016

AUG 21 2017

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-025-43248	Pool Code 96637	Pool Name TEAS; Bone Spring, EAST
Property Code 302795	Property Name HAMON FED COM A	Well Number 7H
OGRID No. 240974	Operator Name LEGACY RESERVES OPERATING LP	Elevation 3610'

Surface Location

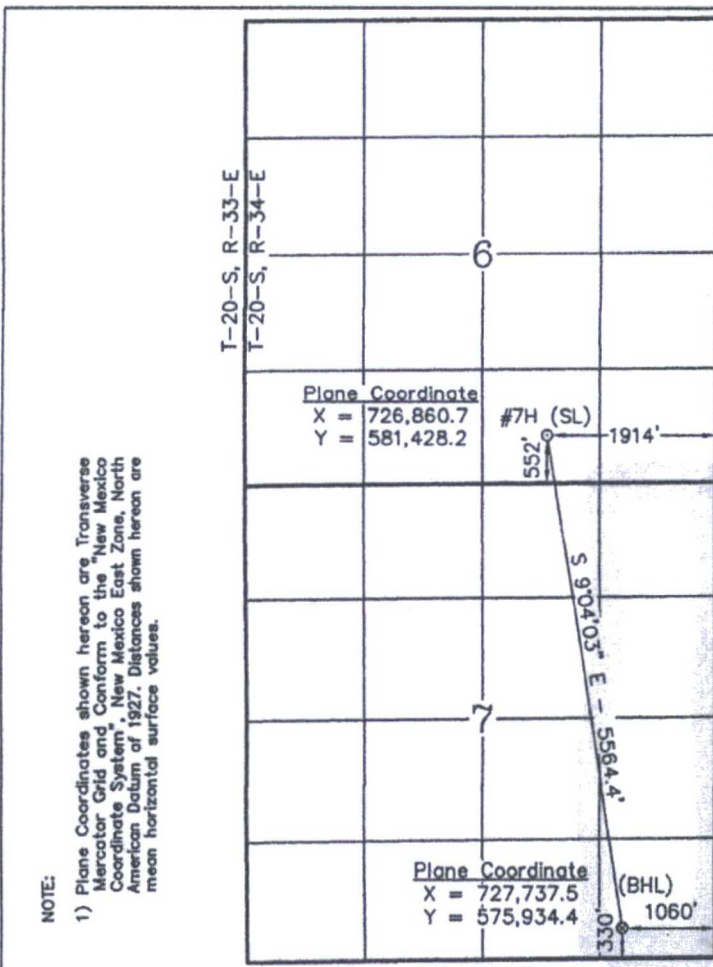
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	6	20 S	34 E		552	SOUTH	1914	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	7	20 S	34 E		330	SOUTH	1060	EAST	LEA

Dedicated Acres 160	Joint or Infill	Consolidation Code	Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: Barry W. Hunt Date: 8/15/15
Printed Name: Barry W. Hunt

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision and that the same is true and correct to the best of my belief.

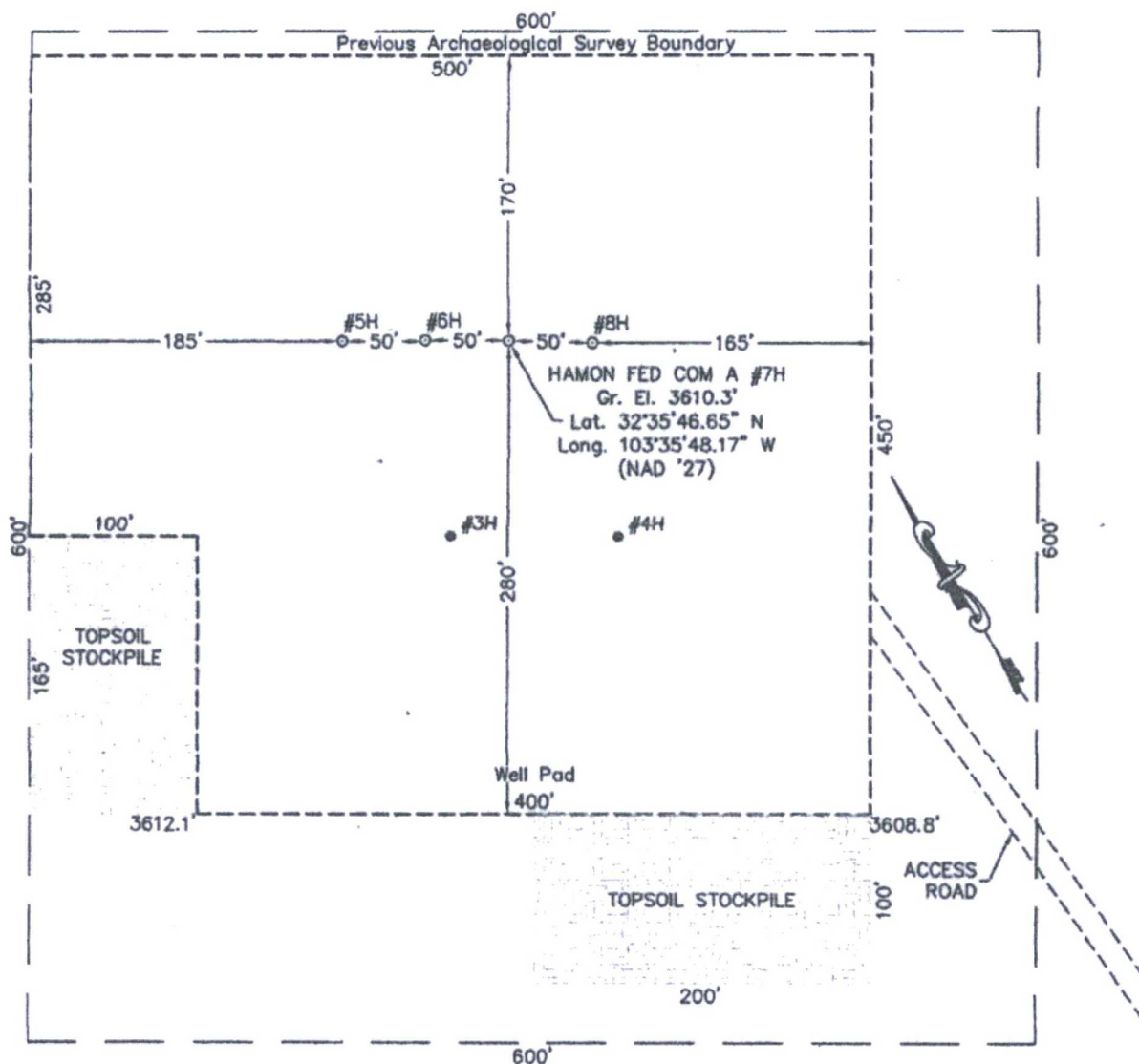
Date of Survey: June 29, 2015
Signature & Seal of Professional Surveyor: [Signature]
W.O. Num: 2015-0494
Certificate No. MACON McDONALD 12185

SECTION 6, TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.

LEA COUNTY

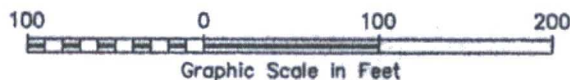
NEW MEXICO

L-2015-0491-C



DRIVING DIRECTIONS

FROM THE INTERSECTION OF STATE HIGHWAY 18 AND U.S. HIGHWAY 62-180 IN HOBBS, NEW MEXICO, GO WEST AND SOUTHWEST ON U.S. HIGHWAY 62-180 28.5 MILES TO LEASE ROAD ON SOUTH (LEFT) SIDE OF THE HIGHWAY, THEN GO SOUTH 0.9 MILE TO ANOTHER LEASE ROAD ON THE NORTH (LEFT) SIDE OF THE ROAD, THEN GO NORTH 0.7 MILE TO A POINT APPROXIMATELY 160 FEET EAST OF THE PROPOSED LOCATION.



LEGACY RESERVES OPERATING LP

HAMON FED COM A #7H

Located 552' FSL & 1914' FEL, Section 6
Township 20 South, Range 34 East, N.M.P.M.
Lea County, New Mexico



FIRM REGISTRATION NUMBER: 100682-00
110 W. LOUISIANA, STE. 110
MIDLAND TEXAS, 79701
(432) 687-0865 - (432) 687-0868 FAX

Drawn By: LVA / SC	Date: July 15, 2015
Scale: 1" = 100'	Field Book: 559 / 58-59
Revision Date: 8-21-2015	Quadrangle: Lea
W.O. No: 2015-0491	Dwg. No.: L-2015-0491-C