



# 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

**HOBBS OCD**

October 5, 2018

OCT 29 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 No. 62H  
Lea County, New Mexico  
API # 30-025-43247  
Job No. 63622

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                | 62H               | 0               | 10,800 | 10/2/18         | 10/2/18 | 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 #: 63622

Well Name: Lea Unit No. 62H

County/State: Lea Co., New Mexico

Survey Instrument Type: North Seek Rate Gyro

API # 30-025-43247

## TIE-IN DATA

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

## First Survey

| Date       | Depth (ft) | Inclination<br>(°) | Azimuth (°) |
|------------|------------|--------------------|-------------|
| 2018-10-02 | 0          | 0                  | 0           |

## Last Survey

| Date       | Depth (ft) | Inclination<br>(°) | Azimuth (°) |
|------------|------------|--------------------|-------------|
| 2018-10-02 | 10800      | 1.59               | 226.95      |

## Projected TD Survey

| Date | Depth (ft) | Inclination<br>(°) | Azimuth (°) |
|------|------------|--------------------|-------------|
| 0    | 0          | 0                  | 0           |

| Grid<br>Correction |
|--------------------|
| -0.45              |

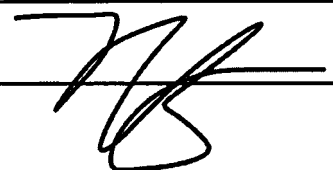
Gyro Operator: Phoenix Technology Services USA Ltd.

Gyro Supervisor: Angel Guebara

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

Date: 10-02-18

Print Name: Noe Garza

Signature: 



Company: Legacy  
 Well: Lea Unit No. 62H  
 Location: Lea Co., New Mexico  
 Rig: Pulling Unit

Job Number: 63622  
 Grid Corr.: -0.45  
 Lat: 32.56  
 Long: -103.50

Date: 10-02-18  
 Calculation Method: Minimum Curvature  
 Proposed Azimuth:   
 RKB - MSL in feet: Ground  
 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                           | 100.00            | 0.46              | 35.67         | 100                | 100.00                     | 0.33                  | 0.33 N      | 0.23 E   | 0.40          | 35.67       | 0.46                     | 0.46                | 35.67              |
|                                | 125.00            | 0.39              | 277.16        | 25                 | 125.00                     | 0.42                  | 0.42 N      | 0.21 E   | 0.47          | 26.46       | 2.93                     | -0.28               | 965.96             |
|                                | 150.00            | 0.74              | 150.34        | 25                 | 150.00                     | 0.29                  | 0.29 N      | 0.20 E   | 0.35          | 35.21       | 4.09                     | 1.40                | -507.28            |
|                                | 175.00            | 0.63              | 11.53         | 25                 | 175.00                     | 0.28                  | 0.28 N      | 0.31 E   | 0.42          | 47.71       | 5.13                     | -0.44               | -555.24            |
|                                | 200.00            | 0.60              | 58.98         | 25                 | 200.00                     | 0.49                  | 0.49 N      | 0.45 E   | 0.66          | 42.89       | 1.98                     | -0.12               | 189.80             |
|                                | 225.00            | 0.82              | 49.03         | 25                 | 224.99                     | 0.67                  | 0.67 N      | 0.70 E   | 0.97          | 46.18       | 1.01                     | 0.88                | -39.80             |
|                                | 250.00            | 1.15              | 62.05         | 25                 | 249.99                     | 0.90                  | 0.90 N      | 1.05 E   | 1.39          | 49.37       | 1.59                     | 1.32                | 52.08              |
|                                | 275.00            | 0.86              | 47.01         | 25                 | 274.99                     | 1.15                  | 1.15 N      | 1.41 E   | 1.82          | 50.86       | 1.56                     | -1.16               | -60.16             |
|                                | 300.00            | 0.80              | 73.07         | 25                 | 299.98                     | 1.33                  | 1.33 N      | 1.72 E   | 2.17          | 52.27       | 1.52                     | -0.24               | 104.24             |
|                                | 325.00            | 0.75              | 67.95         | 25                 | 324.98                     | 1.44                  | 1.44 N      | 2.04 E   | 2.49          | 54.71       | 0.34                     | -0.20               | -20.48             |
|                                | 350.00            | 0.64              | 51.91         | 25                 | 349.98                     | 1.59                  | 1.59 N      | 2.30 E   | 2.79          | 55.34       | 0.89                     | -0.44               | -64.16             |
|                                | 375.00            | 0.63              | 41.92         | 25                 | 374.98                     | 1.78                  | 1.78 N      | 2.50 E   | 3.07          | 54.59       | 0.44                     | -0.04               | -39.96             |
|                                | 400.00            | 0.49              | 21.95         | 25                 | 399.98                     | 1.98                  | 1.98 N      | 2.63 E   | 3.29          | 53.06       | 0.95                     | -0.56               | -79.88             |
|                                | 425.00            | 0.29              | 354.81        | 25                 | 424.98                     | 2.14                  | 2.14 N      | 2.67 E   | 3.42          | 51.23       | 1.07                     | -0.80               | 1331.44            |
|                                | 450.00            | 0.23              | 1.35          | 25                 | 449.98                     | 2.25                  | 2.25 N      | 2.66 E   | 3.49          | 49.73       | 0.27                     | -0.24               | -1413.84           |
|                                | 475.00            | 0.29              | 111.71        | 25                 | 474.98                     | 2.28                  | 2.28 N      | 2.72 E   | 3.55          | 50.03       | 1.71                     | 0.24                | 441.44             |
|                                | 500.00            | 0.19              | 30.01         | 25                 | 499.98                     | 2.29                  | 2.29 N      | 2.80 E   | 3.62          | 50.69       | 1.29                     | -0.40               | -326.80            |
|                                | 525.00            | 0.34              | 129.74        | 25                 | 524.98                     | 2.28                  | 2.28 N      | 2.88 E   | 3.67          | 51.60       | 1.67                     | 0.60                | 398.92             |
|                                | 550.00            | 0.30              | 107.12        | 25                 | 549.98                     | 2.21                  | 2.21 N      | 3.00 E   | 3.73          | 53.54       | 0.53                     | -0.16               | -90.48             |
|                                | 575.00            | 0.18              | 86.07         | 25                 | 574.98                     | 2.20                  | 2.20 N      | 3.10 E   | 3.80          | 54.65       | 0.59                     | -0.48               | -84.20             |
|                                | 600.00            | 0.35              | 172.37        | 25                 | 599.97                     | 2.13                  | 2.13 N      | 3.15 E   | 3.80          | 55.98       | 1.53                     | 0.68                | 345.20             |
|                                | 625.00            | 0.26              | 219.43        | 25                 | 624.97                     | 2.01                  | 2.01 N      | 3.12 E   | 3.71          | 57.29       | 1.03                     | -0.36               | 188.24             |
|                                | 650.00            | 0.46              | 202.43        | 25                 | 649.97                     | 1.87                  | 1.87 N      | 3.05 E   | 3.58          | 58.48       | 0.90                     | 0.80                | -68.00             |
|                                | 675.00            | 0.55              | 242.07        | 25                 | 674.97                     | 1.72                  | 1.72 N      | 2.90 E   | 3.38          | 59.36       | 1.41                     | 0.36                | 158.56             |
|                                | 700.00            | 0.75              | 243.87        | 25                 | 699.97                     | 1.59                  | 1.59 N      | 2.65 E   | 3.09          | 59.02       | 0.80                     | 0.80                | 7.20               |
|                                | 725.00            | 0.64              | 230.55        | 25                 | 724.97                     | 1.43                  | 1.43 N      | 2.40 E   | 2.79          | 59.15       | 0.78                     | -0.44               | -53.28             |
|                                | 750.00            | 0.71              | 304.29        | 25                 | 749.97                     | 1.43                  | 1.43 N      | 2.16 E   | 2.59          | 56.51       | 3.25                     | 0.28                | 294.96             |



Company: Legacy  
 Well: Lea Unit No. 62H  
 Location: Lea Co., New Mexico  
 Rig: Pulling Unit

Job Number: 63622  
 Grid Corr.: -0.45  
 Lat: 32.56  
 Long: -103.50

Calculation Method: Minimum Curvature  
 Proposed Azimuth:   
 RKB - MSL in feet: Ground  
 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) |                          |                     |                    |
|                  | 775.00            | 0.69              | 245.77        | 25                 | 774.97                   | 1.46                  | 1.46 N      | 1.90 E   | 2.39          | 52.49       | 2.74                     | -0.08               | -234.08            |
|                  | 800.00            | 0.72              | 241.06        | 25                 | 799.96                   | 1.32                  | 1.32 N      | 1.62 E   | 2.09          | 50.89       | 0.26                     | 0.12                | -18.84             |
|                  | 825.00            | 0.64              | 246.90        | 25                 | 824.96                   | 1.19                  | 1.19 N      | 1.36 E   | 1.80          | 48.79       | 0.42                     | -0.32               | 23.36              |
|                  | 850.00            | 0.65              | 239.83        | 25                 | 849.96                   | 1.06                  | 1.06 N      | 1.10 E   | 1.53          | 46.15       | 0.32                     | 0.04                | -28.28             |
|                  | 875.00            | 0.78              | 229.06        | 25                 | 874.96                   | 0.88                  | 0.88 N      | 0.85 E   | 1.22          | 44.17       | 0.75                     | 0.52                | -43.08             |
|                  | 900.00            | 0.71              | 217.02        | 25                 | 899.96                   | 0.64                  | 0.64 N      | 0.63 E   | 0.90          | 44.47       | 0.68                     | -0.28               | -48.16             |
|                  | 925.00            | 0.78              | 249.14        | 25                 | 924.96                   | 0.46                  | 0.46 N      | 0.38 E   | 0.59          | 39.56       | 1.67                     | 0.28                | 128.48             |
|                  | 950.00            | 0.85              | 245.92        | 25                 | 949.95                   | 0.32                  | 0.32 N      | 0.05 E   | 0.33          | 8.91        | 0.33                     | 0.28                | -12.88             |
|                  | 975.00            | 0.88              | 247.61        | 25                 | 974.95                   | 0.17                  | 0.17 N      | 0.30 W   | 0.34          | 300.35      | 0.16                     | 0.12                | 6.76               |
|                  | 1000.00           | 0.82              | 226.33        | 25                 | 999.95                   | -0.02                 | 0.02 S      | 0.60 W   | 0.60          | 267.80      | 1.28                     | -0.24               | -85.12             |
|                  | 1025.00           | 1.12              | 244.95        | 25                 | 1024.94                  | -0.25                 | 0.25 S      | 0.95 W   | 0.99          | 255.31      | 1.73                     | 1.20                | 74.48              |
|                  | 1050.00           | 1.28              | 249.15        | 25                 | 1049.94                  | -0.45                 | 0.45 S      | 1.44 W   | 1.51          | 252.49      | 0.73                     | 0.64                | 16.80              |
|                  | 1075.00           | 1.12              | 242.15        | 25                 | 1074.93                  | -0.67                 | 0.67 S      | 1.91 W   | 2.03          | 250.79      | 0.87                     | -0.64               | -28.00             |
|                  | 1100.00           | 1.13              | 235.79        | 25                 | 1099.93                  | -0.92                 | 0.92 S      | 2.33 W   | 2.51          | 248.50      | 0.50                     | 0.04                | -25.44             |
|                  | 1125.00           | 1.10              | 234.28        | 25                 | 1124.92                  | -1.20                 | 1.20 S      | 2.73 W   | 2.98          | 246.32      | 0.17                     | -0.12               | -6.04              |
|                  | 1150.00           | 1.44              | 244.06        | 25                 | 1149.92                  | -1.48                 | 1.48 S      | 3.21 W   | 3.53          | 245.31      | 1.61                     | 1.36                | 39.12              |
|                  | 1175.00           | 1.27              | 244.39        | 25                 | 1174.91                  | -1.73                 | 1.73 S      | 3.74 W   | 4.12          | 245.15      | 0.68                     | -0.68               | 1.32               |
|                  | 1200.00           | 1.41              | 228.34        | 25                 | 1199.90                  | -2.06                 | 2.06 S      | 4.22 W   | 4.70          | 244.02      | 1.60                     | 0.56                | -64.20             |
|                  | 1225.00           | 1.39              | 229.17        | 25                 | 1224.90                  | -2.46                 | 2.46 S      | 4.68 W   | 5.29          | 242.28      | 0.11                     | -0.08               | 3.32               |
|                  | 1250.00           | 1.27              | 226.29        | 25                 | 1249.89                  | -2.85                 | 2.85 S      | 5.11 W   | 5.85          | 240.86      | 0.55                     | -0.48               | -11.52             |
|                  | 1275.00           | 1.03              | 230.84        | 25                 | 1274.88                  | -3.18                 | 3.18 S      | 5.48 W   | 6.34          | 239.87      | 1.03                     | -0.96               | 18.20              |
|                  | 1300.00           | 1.14              | 227.41        | 25                 | 1299.88                  | -3.49                 | 3.49 S      | 5.84 W   | 6.81          | 239.13      | 0.51                     | 0.44                | -13.72             |
|                  | 1325.00           | 1.46              | 222.91        | 25                 | 1324.87                  | -3.89                 | 3.89 S      | 6.24 W   | 7.36          | 238.04      | 1.34                     | 1.28                | -18.00             |
|                  | 1350.00           | 1.22              | 231.47        | 25                 | 1349.87                  | -4.29                 | 4.29 S      | 6.67 W   | 7.93          | 237.22      | 1.25                     | -0.96               | 34.24              |
|                  | 1375.00           | 1.15              | 242.02        | 25                 | 1374.86                  | -4.58                 | 4.58 S      | 7.10 W   | 8.44          | 237.18      | 0.92                     | -0.28               | 42.20              |
|                  | 1400.00           | 1.22              | 242.18        | 25                 | 1399.86                  | -4.82                 | 4.82 S      | 7.55 W   | 8.96          | 237.46      | 0.28                     | 0.28                | 0.64               |
|                  | 1425.00           | 1.34              | 244.55        | 25                 | 1424.85                  | -5.07                 | 5.07 S      | 8.05 W   | 9.52          | 237.81      | 0.52                     | 0.48                | 9.48               |
|                  | 1450.00           | 1.46              | 237.58        | 25                 | 1449.84                  | -5.36                 | 5.36 S      | 8.59 W   | 10.12         | 238.00      | 0.83                     | 0.48                | -27.88             |
|                  | 1475.00           | 1.32              | 241.73        | 25                 | 1474.83                  | -5.67                 | 5.67 S      | 9.11 W   | 10.73         | 238.09      | 0.69                     | -0.56               | 16.60              |
|                  | 1500.00           | 1.53              | 239.81        | 25                 | 1499.83                  | -5.98                 | 5.98 S      | 9.65 W   | 11.35         | 238.23      | 0.86                     | 0.84                | -7.68              |



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 Location: Lea Co., New Mexico  
 Rig: Pulling Unit

Job Number: 63622  
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 Lat: 32.56  
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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) |                          |                     |                    |
|                  | 1525.00           | 1.58              | 248.33        | 25                 | 1524.82                  | -6.27                 | 6.27 S      | 10.26 W  | 12.02         | 238.56      | 0.95                     | 0.20                | 34.08              |
|                  | 1550.00           | 1.49              | 248.77        | 25                 | 1549.81                  | -6.52                 | 6.52 S      | 10.88 W  | 12.68         | 239.09      | 0.36                     | -0.36               | 1.76               |
|                  | 1575.00           | 1.31              | 253.00        | 25                 | 1574.80                  | -6.72                 | 6.72 S      | 11.46 W  | 13.28         | 239.62      | 0.83                     | -0.72               | 16.92              |
|                  | 1600.00           | 1.12              | 246.92        | 25                 | 1599.80                  | -6.90                 | 6.90 S      | 11.96 W  | 13.80         | 240.02      | 0.92                     | -0.76               | -24.32             |
|                  | 1625.00           | 0.96              | 261.78        | 25                 | 1624.79                  | -7.02                 | 7.02 S      | 12.39 W  | 14.24         | 240.45      | 1.25                     | -0.64               | 59.44              |
|                  | 1650.00           | 0.93              | 256.23        | 25                 | 1649.79                  | -7.10                 | 7.10 S      | 12.79 W  | 14.63         | 240.97      | 0.39                     | -0.12               | -22.20             |
|                  | 1675.00           | 1.04              | 267.23        | 25                 | 1674.78                  | -7.16                 | 7.16 S      | 13.22 W  | 15.03         | 241.55      | 0.87                     | 0.44                | 44.00              |
|                  | 1700.00           | 1.03              | 263.60        | 25                 | 1699.78                  | -7.20                 | 7.20 S      | 13.67 W  | 15.45         | 242.23      | 0.27                     | -0.04               | -14.52             |
|                  | 1725.00           | 0.90              | 272.38        | 25                 | 1724.78                  | -7.21                 | 7.21 S      | 14.09 W  | 15.83         | 242.88      | 0.79                     | -0.52               | 35.12              |
|                  | 1750.00           | 1.28              | 280.14        | 25                 | 1749.77                  | -7.16                 | 7.16 S      | 14.56 W  | 16.22         | 243.82      | 1.63                     | 1.52                | 31.04              |
|                  | 1775.00           | 1.54              | 282.11        | 25                 | 1774.76                  | -7.04                 | 7.04 S      | 15.16 W  | 16.71         | 245.10      | 1.06                     | 1.04                | 7.88               |
|                  | 1800.00           | 1.34              | 277.07        | 25                 | 1799.76                  | -6.93                 | 6.93 S      | 15.78 W  | 17.23         | 246.29      | 0.95                     | -0.80               | -20.16             |
|                  | 1825.00           | 1.07              | 290.18        | 25                 | 1824.75                  | -6.81                 | 6.81 S      | 16.29 W  | 17.66         | 247.30      | 1.54                     | -1.08               | 52.44              |
|                  | 1850.00           | 1.14              | 296.09        | 25                 | 1849.75                  | -6.62                 | 6.62 S      | 16.73 W  | 17.99         | 248.40      | 0.53                     | 0.28                | 23.64              |
|                  | 1875.00           | 1.13              | 286.07        | 25                 | 1874.74                  | -6.45                 | 6.45 S      | 17.19 W  | 18.36         | 249.45      | 0.79                     | -0.04               | -40.08             |
|                  | 1900.00           | 1.40              | 262.22        | 25                 | 1899.74                  | -6.42                 | 6.42 S      | 17.73 W  | 18.86         | 250.10      | 2.34                     | 1.08                | -95.40             |
|                  | 1925.00           | 1.42              | 246.09        | 25                 | 1924.73                  | -6.59                 | 6.59 S      | 18.32 W  | 19.46         | 250.22      | 1.58                     | 0.08                | -64.52             |
|                  | 1950.00           | 1.06              | 248.99        | 25                 | 1949.72                  | -6.79                 | 6.79 S      | 18.81 W  | 20.00         | 250.15      | 1.46                     | -1.44               | 11.60              |
|                  | 1975.00           | 0.90              | 230.85        | 25                 | 1974.72                  | -7.00                 | 7.00 S      | 19.18 W  | 20.42         | 249.95      | 1.39                     | -0.64               | -72.56             |
|                  | 2000.00           | 0.63              | 237.39        | 25                 | 1999.72                  | -7.20                 | 7.20 S      | 19.45 W  | 20.74         | 249.69      | 1.13                     | -1.08               | 26.16              |
|                  | 2025.00           | 0.75              | 256.24        | 25                 | 2024.71                  | -7.31                 | 7.31 S      | 19.73 W  | 21.04         | 249.66      | 1.02                     | 0.48                | 75.40              |
|                  | 2050.00           | 0.49              | 315.90        | 25                 | 2049.71                  | -7.27                 | 7.27 S      | 19.96 W  | 21.24         | 249.98      | 2.63                     | -1.04               | 238.64             |
|                  | 2075.00           | 0.40              | 200.80        | 25                 | 2074.71                  | -7.28                 | 7.28 S      | 20.06 W  | 21.34         | 250.06      | 3.01                     | -0.36               | -460.40            |
|                  | 2100.00           | 0.60              | 248.10        | 25                 | 2099.71                  | -7.41                 | 7.41 S      | 20.22 W  | 21.53         | 249.87      | 1.76                     | 0.80                | 189.20             |
|                  | 2125.00           | 0.43              | 268.31        | 25                 | 2124.71                  | -7.46                 | 7.46 S      | 20.43 W  | 21.75         | 249.94      | 0.99                     | -0.68               | 80.84              |
|                  | 2150.00           | 0.36              | 266.58        | 25                 | 2149.71                  | -7.47                 | 7.47 S      | 20.60 W  | 21.92         | 250.08      | 0.28                     | -0.28               | -6.92              |
|                  | 2175.00           | 0.53              | 303.62        | 25                 | 2174.71                  | -7.41                 | 7.41 S      | 20.78 W  | 22.06         | 250.38      | 1.30                     | 0.68                | 148.16             |
|                  | 2200.00           | 0.59              | 273.22        | 25                 | 2199.71                  | -7.34                 | 7.34 S      | 21.00 W  | 22.25         | 250.74      | 1.20                     | 0.24                | -121.60            |
|                  | 2225.00           | 0.51              | 300.44        | 25                 | 2224.71                  | -7.27                 | 7.27 S      | 21.23 W  | 22.44         | 251.09      | 1.08                     | -0.32               | 108.88             |
|                  | 2250.00           | 0.57              | 274.91        | 25                 | 2249.71                  | -7.21                 | 7.21 S      | 21.45 W  | 22.63         | 251.43      | 0.98                     | 0.24                | -102.12            |



Company: Legacy  
Well: Lea Unit No. 62H  
Location: Lea Co., New Mexico  
Rig: Pulling Unit

|             |         |
|-------------|---------|
| Job Number: | 63622   |
| Grid Corr.: | -0.45   |
| Lat:        | 32.56   |
| Long:       | -103.50 |

|                     |                   |
|---------------------|-------------------|
| Calculation Method: | Minimum Curvature |
| Proposed Azimuth:   |                   |
| RKB - MSL in feet:  | <u>Ground</u>     |
| Tie Into:           | Surface           |

| Survey<br>Tool<br>Type | Survey<br>Depth<br>(ft) | Inclina-<br>tion<br>(deg) | Azimuth<br>(deg) | Course<br>Length<br>(ft) | True Vertical<br>Depth<br>(ft) | Vertical<br>Section<br>(ft) | Coordinates |             | Closure          |                | Dogleg<br>Severity<br>(d/100') | Build<br>Rate<br>(d/100') | Walk<br>Rate<br>(d/100') |
|------------------------|-------------------------|---------------------------|------------------|--------------------------|--------------------------------|-----------------------------|-------------|-------------|------------------|----------------|--------------------------------|---------------------------|--------------------------|
|                        |                         |                           |                  |                          |                                |                             | N/S<br>(ft) | E/W<br>(ft) | Distance<br>(ft) | Angle<br>(deg) |                                |                           |                          |
|                        | 2275.00                 | 0.43                      | 254.46           | 25                       | 2274.71                        | -7.22                       | 7.22 S      | 21.66 W     | 22.83            | 251.56         | 0.90                           | -0.56                     | -81.80                   |
|                        | 2300.00                 | 0.60                      | 270.46           | 25                       | 2299.70                        | -7.25                       | 7.25 S      | 21.88 W     | 23.05            | 251.68         | 0.88                           | 0.68                      | 64.00                    |
|                        | 2325.00                 | 0.68                      | 275.65           | 25                       | 2324.70                        | -7.23                       | 7.23 S      | 22.16 W     | 23.31            | 251.93         | 0.39                           | 0.32                      | 20.76                    |
|                        | 2350.00                 | 0.89                      | 251.35           | 25                       | 2349.70                        | -7.28                       | 7.28 S      | 22.49 W     | 23.64            | 252.07         | 1.56                           | 0.84                      | -97.20                   |
|                        | 2375.00                 | 0.65                      | 231.64           | 25                       | 2374.70                        | -7.43                       | 7.43 S      | 22.79 W     | 23.97            | 251.95         | 1.42                           | -0.96                     | -78.84                   |
|                        | 2400.00                 | 0.29                      | 151.84           | 25                       | 2399.70                        | -7.57                       | 7.57 S      | 22.87 W     | 24.09            | 251.68         | 2.65                           | -1.44                     | -319.20                  |
|                        | 2425.00                 | 0.26                      | 275.60           | 25                       | 2424.70                        | -7.62                       | 7.62 S      | 22.90 W     | 24.13            | 251.59         | 1.94                           | -0.12                     | 495.04                   |
|                        | 2450.00                 | 0.29                      | 329.85           | 25                       | 2449.70                        | -7.56                       | 7.56 S      | 22.99 W     | 24.20            | 251.79         | 1.01                           | 0.12                      | 217.00                   |
|                        | 2475.00                 | 0.23                      | 10.96            | 25                       | 2474.70                        | -7.46                       | 7.46 S      | 23.01 W     | 24.19            | 252.04         | 0.76                           | -0.24                     | -1275.56                 |
|                        | 2500.00                 | 0.19                      | 283.61           | 25                       | 2499.70                        | -7.40                       | 7.40 S      | 23.04 W     | 24.20            | 252.20         | 1.17                           | -0.16                     | 1090.60                  |
|                        | 2525.00                 | 0.34                      | 289.70           | 25                       | 2524.70                        | -7.36                       | 7.36 S      | 23.15 W     | 24.29            | 252.35         | 0.61                           | 0.60                      | 24.36                    |
|                        | 2550.00                 | 0.55                      | 245.68           | 25                       | 2549.70                        | -7.39                       | 7.39 S      | 23.33 W     | 24.47            | 252.43         | 1.54                           | 0.84                      | -176.08                  |
|                        | 2575.00                 | 0.33                      | 179.79           | 25                       | 2574.69                        | -7.51                       | 7.51 S      | 23.44 W     | 24.61            | 252.23         | 2.05                           | -0.88                     | -263.56                  |
|                        | 2600.00                 | 0.36                      | 213.37           | 25                       | 2599.69                        | -7.65                       | 7.65 S      | 23.48 W     | 24.69            | 251.96         | 0.81                           | 0.12                      | 134.32                   |
|                        | 2625.00                 | 0.21                      | 283.81           | 25                       | 2624.69                        | -7.70                       | 7.70 S      | 23.57 W     | 24.79            | 251.90         | 1.40                           | -0.60                     | 281.76                   |
|                        | 2650.00                 | 0.12                      | 286.40           | 25                       | 2649.69                        | -7.68                       | 7.68 S      | 23.64 W     | 24.85            | 251.99         | 0.36                           | -0.36                     | 10.36                    |
|                        | 2675.00                 | 0.17                      | 289.05           | 25                       | 2674.69                        | -7.66                       | 7.66 S      | 23.70 W     | 24.91            | 252.08         | 0.20                           | 0.20                      | 10.60                    |
|                        | 2700.00                 | 0.09                      | 293.15           | 25                       | 2699.69                        | -7.64                       | 7.64 S      | 23.75 W     | 24.95            | 252.16         | 0.32                           | -0.32                     | 16.40                    |
|                        | 2725.00                 | 0.24                      | 93.12            | 25                       | 2724.69                        | -7.64                       | 7.64 S      | 23.72 W     | 24.92            | 252.15         | 1.30                           | 0.60                      | -800.12                  |
|                        | 2750.00                 | 0.45                      | 146.77           | 25                       | 2749.69                        | -7.72                       | 7.72 S      | 23.61 W     | 24.84            | 251.88         | 1.45                           | 0.84                      | 214.60                   |
|                        | 2775.00                 | 0.27                      | 94.06            | 25                       | 2774.69                        | -7.81                       | 7.81 S      | 23.50 W     | 24.76            | 251.61         | 1.43                           | -0.72                     | -210.84                  |
|                        | 2800.00                 | 0.27                      | 309.94           | 25                       | 2799.69                        | -7.78                       | 7.78 S      | 23.48 W     | 24.74            | 251.68         | 2.05                           | 0.00                      | 863.52                   |
|                        | 2825.00                 | 0.19                      | 15.76            | 25                       | 2824.69                        | -7.70                       | 7.70 S      | 23.52 W     | 24.75            | 251.87         | 1.04                           | -0.32                     | -1176.72                 |
|                        | 2850.00                 | 0.30                      | 108.72           | 25                       | 2849.69                        | -7.68                       | 7.68 S      | 23.44 W     | 24.67            | 251.86         | 1.45                           | 0.44                      | 371.84                   |
|                        | 2875.00                 | 0.26                      | 26.09            | 25                       | 2874.69                        | -7.65                       | 7.65 S      | 23.36 W     | 24.58            | 251.86         | 1.48                           | -0.16                     | -330.52                  |
|                        | 2900.00                 | 0.26                      | 26.44            | 25                       | 2899.69                        | -7.55                       | 7.55 S      | 23.31 W     | 24.50            | 252.05         | 0.01                           | 0.00                      | 1.40                     |
|                        | 2925.00                 | 0.22                      | 147.59           | 25                       | 2924.69                        | -7.54                       | 7.54 S      | 23.26 W     | 24.45            | 252.04         | 1.67                           | -0.16                     | 484.60                   |
|                        | 2950.00                 | 0.42                      | 141.63           | 25                       | 2949.69                        | -7.65                       | 7.65 S      | 23.17 W     | 24.40            | 251.73         | 0.81                           | 0.80                      | -23.84                   |
|                        | 2975.00                 | 0.68                      | 105.35           | 25                       | 2974.69                        | -7.76                       | 7.76 S      | 22.97 W     | 24.25            | 251.33         | 1.69                           | 1.04                      | -145.12                  |
|                        | 3000.00                 | 0.63                      | 104.14           | 25                       | 2999.69                        | -7.83                       | 7.83 S      | 22.70 W     | 24.01            | 250.96         | 0.21                           | -0.20                     | -4.84                    |



Company: Legacy  
 Well: Lea Unit No. 62H  
 Location: Lea Co., New Mexico  
 Rig: Pulling Unit

Job Number: 63622  
 Grid Corr.: -0.45  
 Lat: 32.56  
 Long: -103.50

Calculation Method: Minimum Curvature  
 Proposed Azimuth:   
 RKB - MSL in feet: Ground  
 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) |                          |                     |                    |
|                  | 3025.00           | 0.58              | 98.07         | 25                 | 3024.69                  | -7.89                 | 7.89 S      | 22.44 W  | 23.78         | 250.64      | 0.32                     | -0.20               | -24.28             |
|                  | 3050.00           | 0.65              | 116.20        | 25                 | 3049.69                  | -7.97                 | 7.97 S      | 22.19 W  | 23.57         | 250.25      | 0.82                     | 0.28                | 72.52              |
|                  | 3075.00           | 0.59              | 98.97         | 25                 | 3074.68                  | -8.05                 | 8.05 S      | 21.93 W  | 23.36         | 249.85      | 0.78                     | -0.24               | -68.92             |
|                  | 3100.00           | 0.53              | 81.28         | 25                 | 3099.68                  | -8.05                 | 8.05 S      | 21.69 W  | 23.14         | 249.63      | 0.73                     | -0.24               | -70.76             |
|                  | 3125.00           | 0.65              | 74.62         | 25                 | 3124.68                  | -8.00                 | 8.00 S      | 21.44 W  | 22.88         | 249.55      | 0.55                     | 0.48                | -26.64             |
|                  | 3150.00           | 0.29              | 98.10         | 25                 | 3149.68                  | -7.97                 | 7.97 S      | 21.24 W  | 22.69         | 249.44      | 1.60                     | -1.44               | 93.92              |
|                  | 3175.00           | 0.40              | 156.68        | 25                 | 3174.68                  | -8.06                 | 8.06 S      | 21.14 W  | 22.63         | 249.14      | 1.40                     | 0.44                | 234.32             |
|                  | 3200.00           | 0.64              | 145.29        | 25                 | 3199.68                  | -8.25                 | 8.25 S      | 21.03 W  | 22.59         | 248.57      | 1.04                     | 0.96                | -45.56             |
|                  | 3225.00           | 0.78              | 105.43        | 25                 | 3224.68                  | -8.41                 | 8.41 S      | 20.79 W  | 22.42         | 247.97      | 2.01                     | 0.56                | -159.44            |
|                  | 3250.00           | 0.49              | 86.91         | 25                 | 3249.68                  | -8.45                 | 8.45 S      | 20.51 W  | 22.19         | 247.61      | 1.41                     | -1.16               | -74.08             |
|                  | 3275.00           | 0.42              | 100.46        | 25                 | 3274.68                  | -8.46                 | 8.46 S      | 20.32 W  | 22.01         | 247.39      | 0.51                     | -0.28               | 54.20              |
|                  | 3300.00           | 0.32              | 103.98        | 25                 | 3299.68                  | -8.50                 | 8.50 S      | 20.16 W  | 21.88         | 247.15      | 0.41                     | -0.40               | 14.08              |
|                  | 3325.00           | 0.83              | 87.98         | 25                 | 3324.67                  | -8.51                 | 8.51 S      | 19.91 W  | 21.65         | 246.87      | 2.12                     | 2.04                | -64.00             |
|                  | 3350.00           | 0.70              | 51.70         | 25                 | 3349.67                  | -8.41                 | 8.41 S      | 19.61 W  | 21.34         | 246.80      | 1.97                     | -0.52               | -145.12            |
|                  | 3375.00           | 0.53              | 49.63         | 25                 | 3374.67                  | -8.24                 | 8.24 S      | 19.40 W  | 21.08         | 247.00      | 0.69                     | -0.68               | -8.28              |
|                  | 3400.00           | 0.45              | 55.88         | 25                 | 3399.67                  | -8.11                 | 8.11 S      | 19.23 W  | 20.87         | 247.15      | 0.38                     | -0.32               | 25.00              |
|                  | 3425.00           | 0.32              | 129.10        | 25                 | 3424.67                  | -8.09                 | 8.09 S      | 19.10 W  | 20.74         | 247.03      | 1.88                     | -0.52               | 292.88             |
|                  | 3450.00           | 0.68              | 93.82         | 25                 | 3449.67                  | -8.15                 | 8.15 S      | 18.90 W  | 20.58         | 246.67      | 1.83                     | 1.44                | -141.12            |
|                  | 3475.00           | 0.88              | 75.28         | 25                 | 3474.67                  | -8.11                 | 8.11 S      | 18.56 W  | 20.26         | 246.40      | 1.28                     | 0.80                | -74.16             |
|                  | 3500.00           | 0.82              | 72.08         | 25                 | 3499.66                  | -8.01                 | 8.01 S      | 18.21 W  | 19.89         | 246.26      | 0.31                     | -0.24               | -12.80             |
|                  | 3525.00           | 0.85              | 47.44         | 25                 | 3524.66                  | -7.83                 | 7.83 S      | 17.90 W  | 19.53         | 246.39      | 1.43                     | 0.12                | -98.56             |
|                  | 3550.00           | 0.59              | 18.30         | 25                 | 3549.66                  | -7.58                 | 7.58 S      | 17.72 W  | 19.27         | 246.85      | 1.76                     | -1.04               | -116.56            |
|                  | 3575.00           | 0.66              | 11.31         | 25                 | 3574.66                  | -7.31                 | 7.31 S      | 17.65 W  | 19.11         | 247.49      | 0.41                     | 0.28                | -27.96             |
|                  | 3600.00           | 0.63              | 27.80         | 25                 | 3599.66                  | -7.05                 | 7.05 S      | 17.56 W  | 18.92         | 248.12      | 0.75                     | -0.12               | 65.96              |
|                  | 3625.00           | 0.58              | 66.14         | 25                 | 3624.65                  | -6.88                 | 6.88 S      | 17.38 W  | 18.69         | 248.41      | 1.60                     | -0.20               | 153.36             |
|                  | 3650.00           | 0.81              | 96.87         | 25                 | 3649.65                  | -6.85                 | 6.85 S      | 17.09 W  | 18.41         | 248.16      | 1.72                     | 0.92                | 122.92             |
|                  | 3675.00           | 0.66              | 89.38         | 25                 | 3674.65                  | -6.87                 | 6.87 S      | 16.77 W  | 18.12         | 247.73      | 0.71                     | -0.60               | -29.96             |
|                  | 3700.00           | 0.58              | 87.19         | 25                 | 3699.65                  | -6.86                 | 6.86 S      | 16.50 W  | 17.87         | 247.42      | 0.33                     | -0.32               | -8.76              |
|                  | 3725.00           | 0.68              | 74.72         | 25                 | 3724.65                  | -6.82                 | 6.82 S      | 16.23 W  | 17.60         | 247.22      | 0.68                     | 0.40                | -49.88             |
|                  | 3750.00           | 0.84              | 87.65         | 25                 | 3749.64                  | -6.77                 | 6.77 S      | 15.90 W  | 17.28         | 246.95      | 0.93                     | 0.64                | 51.72              |



Company: Legacy  
 Well: Lea Unit No. 62H  
 Location: Lea Co., New Mexico  
 Rig: Pulling Unit

Job Number: 63622  
 Grid Corr.: -0.45  
 Lat: 32.56  
 Long: -103.50

Calculation Method: Minimum Curvature  
 Proposed Azimuth: Ground  
 RKB - MSL in feet: Surface  
 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) |                          |                     |                    |
|                  | 3775.00           | 0.99              | 69.38         | 25                 | 3774.64                  | -6.69                 | 6.69 S      | 15.52 W  | 16.90         | 246.70      | 1.30                     | 0.60                | -73.08             |
|                  | 3800.00           | 1.11              | 65.75         | 25                 | 3799.64                  | -6.51                 | 6.51 S      | 15.10 W  | 16.44         | 246.67      | 0.55                     | 0.48                | -14.52             |
|                  | 3825.00           | 1.16              | 49.33         | 25                 | 3824.63                  | -6.25                 | 6.25 S      | 14.68 W  | 15.96         | 246.96      | 1.31                     | 0.20                | -65.68             |
|                  | 3850.00           | 0.82              | 34.14         | 25                 | 3849.63                  | -5.93                 | 5.93 S      | 14.39 W  | 15.57         | 247.60      | 1.71                     | -1.36               | -60.76             |
|                  | 3875.00           | 0.75              | 43.66         | 25                 | 3874.63                  | -5.67                 | 5.67 S      | 14.18 W  | 15.27         | 248.22      | 0.59                     | -0.28               | 38.08              |
|                  | 3900.00           | 0.62              | 56.64         | 25                 | 3899.62                  | -5.47                 | 5.47 S      | 13.95 W  | 14.99         | 248.58      | 0.81                     | -0.52               | 51.92              |
|                  | 3925.00           | 0.65              | 47.50         | 25                 | 3924.62                  | -5.30                 | 5.30 S      | 13.73 W  | 14.72         | 248.89      | 0.42                     | 0.12                | -36.56             |
|                  | 3950.00           | 0.66              | 86.18         | 25                 | 3949.62                  | -5.20                 | 5.20 S      | 13.49 W  | 14.45         | 248.92      | 1.74                     | 0.04                | 154.72             |
|                  | 3975.00           | 0.55              | 73.75         | 25                 | 3974.62                  | -5.15                 | 5.15 S      | 13.23 W  | 14.20         | 248.71      | 0.68                     | -0.44               | -49.72             |
|                  | 4000.00           | 0.74              | 87.97         | 25                 | 3999.62                  | -5.11                 | 5.11 S      | 12.95 W  | 13.92         | 248.45      | 0.99                     | 0.76                | 56.88              |
|                  | 4025.00           | 0.90              | 107.17        | 25                 | 4024.62                  | -5.17                 | 5.17 S      | 12.60 W  | 13.62         | 247.70      | 1.26                     | 0.64                | 76.80              |
|                  | 4050.00           | 0.83              | 101.79        | 25                 | 4049.61                  | -5.26                 | 5.26 S      | 12.24 W  | 13.32         | 246.73      | 0.43                     | -0.28               | -21.52             |
|                  | 4075.00           | 0.89              | 85.16         | 25                 | 4074.61                  | -5.28                 | 5.28 S      | 11.87 W  | 12.99         | 246.00      | 1.02                     | 0.24                | -66.52             |
|                  | 4100.00           | 0.83              | 60.20         | 25                 | 4099.61                  | -5.18                 | 5.18 S      | 11.52 W  | 12.63         | 245.80      | 1.51                     | -0.24               | -99.84             |
|                  | 4125.00           | 0.73              | 70.08         | 25                 | 4124.61                  | -5.03                 | 5.03 S      | 11.21 W  | 12.29         | 245.82      | 0.67                     | -0.40               | 39.52              |
|                  | 4150.00           | 0.37              | 190.17        | 25                 | 4149.60                  | -5.06                 | 5.06 S      | 11.07 W  | 12.17         | 245.45      | 3.88                     | -1.44               | 480.36             |
|                  | 4175.00           | 1.28              | 246.60        | 25                 | 4174.60                  | -5.25                 | 5.25 S      | 11.34 W  | 12.50         | 245.17      | 4.47                     | 3.64                | 225.72             |
|                  | 4200.00           | 1.70              | 200.59        | 25                 | 4199.59                  | -5.71                 | 5.71 S      | 11.73 W  | 13.04         | 244.06      | 4.91                     | 1.68                | -184.04            |
|                  | 4225.00           | 1.41              | 121.51        | 25                 | 4224.59                  | -6.21                 | 6.21 S      | 11.60 W  | 13.16         | 241.82      | 7.97                     | -1.16               | -316.32            |
|                  | 4250.00           | 1.55              | 102.68        | 25                 | 4249.58                  | -6.45                 | 6.45 S      | 11.01 W  | 12.76         | 239.63      | 2.01                     | 0.56                | -75.32             |
|                  | 4275.00           | 1.30              | 96.04         | 25                 | 4274.57                  | -6.55                 | 6.55 S      | 10.39 W  | 12.29         | 237.77      | 1.20                     | -1.00               | -26.56             |
|                  | 4300.00           | 1.67              | 128.38        | 25                 | 4299.56                  | -6.81                 | 6.81 S      | 9.83 W   | 11.96         | 235.28      | 3.60                     | 1.48                | 129.36             |
|                  | 4325.00           | 2.11              | 128.27        | 25                 | 4324.55                  | -7.32                 | 7.32 S      | 9.18 W   | 11.74         | 231.43      | 1.76                     | 1.76                | -0.44              |
|                  | 4350.00           | 2.15              | 133.95        | 25                 | 4349.53                  | -7.93                 | 7.93 S      | 8.48 W   | 11.61         | 226.92      | 0.86                     | 0.16                | 22.72              |
|                  | 4375.00           | 2.03              | 130.19        | 25                 | 4374.52                  | -8.54                 | 8.54 S      | 7.81 W   | 11.57         | 222.42      | 0.73                     | -0.48               | -15.04             |
|                  | 4400.00           | 2.24              | 124.41        | 25                 | 4399.50                  | -9.10                 | 9.10 S      | 7.06 W   | 11.52         | 217.81      | 1.20                     | 0.84                | -23.12             |
|                  | 4425.00           | 1.94              | 119.62        | 25                 | 4424.48                  | -9.59                 | 9.59 S      | 6.29 W   | 11.47         | 213.28      | 1.39                     | -1.20               | -19.16             |
|                  | 4450.00           | 2.04              | 117.20        | 25                 | 4449.47                  | -10.00                | 10.00 S     | 5.53 W   | 11.43         | 208.94      | 0.52                     | 0.40                | -9.68              |
|                  | 4475.00           | 2.19              | 106.68        | 25                 | 4474.45                  | -10.34                | 10.34 S     | 4.68 W   | 11.35         | 204.33      | 1.66                     | 0.60                | -42.08             |
|                  | 4500.00           | 2.00              | 105.67        | 25                 | 4499.43                  | -10.60                | 10.60 S     | 3.80 W   | 11.26         | 199.72      | 0.77                     | -0.76               | -4.04              |





Company: Legacy  
 Well: Lea Unit No. 62H  
 Location: Lea Co., New Mexico  
 Rig: Pulling Unit

Job Number: 63622  
 Grid Corr.: -0.45  
 Lat: 32.56  
 Long: -103.50

Calculation Method: Minimum Curvature  
 Proposed Azimuth:   
 RKB - MSL in feet: Ground  
 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) |                          |                     |                    |
|                  | 4525.00           | 2.08              | 99.03         | 25                 | 4524.42                  | -10.79                | 10.79 S     | 2.93 W   | 11.18         | 195.20      | 1.00                     | 0.32                | -26.56             |
|                  | 4550.00           | 2.21              | 100.56        | 25                 | 4549.40                  | -10.95                | 10.95 S     | 2.01 W   | 11.13         | 190.40      | 0.57                     | 0.52                | 6.12               |
|                  | 4575.00           | 2.36              | 95.71         | 25                 | 4574.38                  | -11.08                | 11.08 S     | 1.02 W   | 11.13         | 185.27      | 0.98                     | 0.60                | -19.40             |
|                  | 4600.00           | 2.27              | 94.81         | 25                 | 4599.36                  | -11.18                | 11.18 S     | 0.02 W   | 11.18         | 180.09      | 0.39                     | -0.36               | -3.60              |
|                  | 4625.00           | 2.12              | 92.25         | 25                 | 4624.34                  | -11.24                | 11.24 S     | 0.94 E   | 11.28         | 175.23      | 0.72                     | -0.60               | -10.24             |
|                  | 4650.00           | 1.78              | 96.07         | 25                 | 4649.33                  | -11.30                | 11.30 S     | 1.79 E   | 11.44         | 171.01      | 1.46                     | -1.36               | 15.28              |
|                  | 4675.00           | 1.80              | 93.35         | 25                 | 4674.31                  | -11.36                | 11.36 S     | 2.56 E   | 11.65         | 167.28      | 0.35                     | 0.08                | -10.88             |
|                  | 4700.00           | 2.16              | 90.76         | 25                 | 4699.30                  | -11.39                | 11.39 S     | 3.43 E   | 11.89         | 163.25      | 1.48                     | 1.44                | -10.36             |
|                  | 4725.00           | 1.40              | 109.59        | 25                 | 4724.29                  | -11.50                | 11.50 S     | 4.19 E   | 12.24         | 159.99      | 3.80                     | -3.04               | 75.32              |
|                  | 4750.00           | 1.61              | 105.09        | 25                 | 4749.28                  | -11.69                | 11.69 S     | 4.81 E   | 12.64         | 157.62      | 0.96                     | 0.84                | -18.00             |
|                  | 4775.00           | 1.57              | 93.24         | 25                 | 4774.27                  | -11.80                | 11.80 S     | 5.49 E   | 13.02         | 155.04      | 1.32                     | -0.16               | -47.40             |
|                  | 4800.00           | 1.70              | 106.19        | 25                 | 4799.26                  | -11.93                | 11.93 S     | 6.19 E   | 13.44         | 152.56      | 1.56                     | 0.52                | 51.80              |
|                  | 4825.00           | 1.87              | 107.63        | 25                 | 4824.25                  | -12.15                | 12.15 S     | 6.94 E   | 13.99         | 150.28      | 0.70                     | 0.68                | 5.76               |
|                  | 4850.00           | 1.80              | 85.93         | 25                 | 4849.23                  | -12.25                | 12.25 S     | 7.72 E   | 14.48         | 147.79      | 2.78                     | -0.28               | -86.80             |
|                  | 4875.00           | 2.25              | 74.14         | 25                 | 4874.22                  | -12.09                | 12.09 S     | 8.58 E   | 14.82         | 144.63      | 2.44                     | 1.80                | -47.16             |
|                  | 4900.00           | 2.86              | 71.80         | 25                 | 4899.19                  | -11.76                | 11.76 S     | 9.65 E   | 15.21         | 140.63      | 2.47                     | 2.44                | -9.36              |
|                  | 4925.00           | 3.15              | 67.05         | 25                 | 4924.16                  | -11.29                | 11.29 S     | 10.87 E  | 15.68         | 136.10      | 1.53                     | 1.16                | -19.00             |
|                  | 4950.00           | 3.11              | 68.47         | 25                 | 4949.12                  | -10.78                | 10.78 S     | 12.13 E  | 16.23         | 131.61      | 0.35                     | -0.16               | 5.68               |
|                  | 4975.00           | 2.97              | 64.68         | 25                 | 4974.09                  | -10.25                | 10.25 S     | 13.35 E  | 16.83         | 127.52      | 0.98                     | -0.56               | -15.16             |
|                  | 5000.00           | 2.67              | 69.05         | 25                 | 4999.06                  | -9.77                 | 9.77 S      | 14.48 E  | 17.47         | 124.00      | 1.48                     | -1.20               | 17.48              |
|                  | 5025.00           | 2.12              | 92.45         | 25                 | 5024.04                  | -9.58                 | 9.58 S      | 15.49 E  | 18.21         | 121.74      | 4.44                     | -2.20               | 93.60              |
|                  | 5050.00           | 2.00              | 91.38         | 25                 | 5049.02                  | -9.61                 | 9.61 S      | 16.38 E  | 18.99         | 120.39      | 0.50                     | -0.48               | -4.28              |
|                  | 5075.00           | 2.08              | 90.58         | 25                 | 5074.00                  | -9.62                 | 9.62 S      | 17.27 E  | 19.77         | 119.12      | 0.34                     | 0.32                | -3.20              |
|                  | 5100.00           | 2.50              | 94.70         | 25                 | 5098.98                  | -9.67                 | 9.67 S      | 18.27 E  | 20.67         | 117.90      | 1.80                     | 1.68                | 16.48              |
|                  | 5125.00           | 2.11              | 97.88         | 25                 | 5123.96                  | -9.78                 | 9.78 S      | 19.27 E  | 21.61         | 116.91      | 1.64                     | -1.56               | 12.72              |
|                  | 5150.00           | 1.93              | 90.26         | 25                 | 5148.95                  | -9.85                 | 9.85 S      | 20.15 E  | 22.42         | 116.05      | 1.29                     | -0.72               | -30.48             |
|                  | 5175.00           | 1.85              | 93.61         | 25                 | 5173.93                  | -9.87                 | 9.87 S      | 20.97 E  | 23.18         | 115.21      | 0.55                     | -0.32               | 13.40              |
|                  | 5200.00           | 1.74              | 91.75         | 25                 | 5198.92                  | -9.91                 | 9.91 S      | 21.75 E  | 23.90         | 114.49      | 0.50                     | -0.44               | -7.44              |
|                  | 5225.00           | 1.25              | 92.19         | 25                 | 5223.91                  | -9.93                 | 9.93 S      | 22.40 E  | 24.51         | 113.91      | 1.96                     | -1.96               | 1.76               |
|                  | 5250.00           | 1.26              | 83.94         | 25                 | 5248.91                  | -9.91                 | 9.91 S      | 22.95 E  | 25.00         | 113.36      | 0.72                     | 0.04                | -33.00             |



Company: Legacy  
 Well: Lea Unit No. 62H  
 Location: Lea Co., New Mexico  
 Rig: Pulling Unit

Job Number: 63622  
 Grid Corr.: -0.45  
 Lat: 32.56  
 Long: -103.50

Calculation Method: Minimum Curvature  
 Proposed Azimuth:   
 RKB - MSL in feet: Ground  
 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) |                          |                     |                    |
|                  | 5275.00           | 1.05              | 97.80         | 25                 | 5273.90                  | -9.92                 | 9.92 S      | 23.45 E  | 25.46         | 112.92      | 1.39                     | -0.84               | 55.44              |
|                  | 5300.00           | 1.35              | 90.08         | 25                 | 5298.90                  | -9.95                 | 9.95 S      | 23.97 E  | 25.95         | 112.54      | 1.36                     | 1.20                | -30.88             |
|                  | 5325.00           | 1.06              | 100.82        | 25                 | 5323.89                  | -9.99                 | 9.99 S      | 24.49 E  | 26.45         | 112.19      | 1.47                     | -1.16               | 42.96              |
|                  | 5350.00           | 1.38              | 101.20        | 25                 | 5348.89                  | -10.09                | 10.09 S     | 25.02 E  | 26.98         | 111.97      | 1.28                     | 1.28                | 1.52               |
|                  | 5375.00           | 1.40              | 98.99         | 25                 | 5373.88                  | -10.20                | 10.20 S     | 25.61 E  | 27.57         | 111.71      | 0.23                     | 0.08                | -8.84              |
|                  | 5400.00           | 1.37              | 100.09        | 25                 | 5398.87                  | -10.30                | 10.30 S     | 26.21 E  | 28.16         | 111.45      | 0.16                     | -0.12               | 4.40               |
|                  | 5425.00           | 1.44              | 98.34         | 25                 | 5423.86                  | -10.40                | 10.40 S     | 26.81 E  | 28.76         | 111.19      | 0.33                     | 0.28                | -7.00              |
|                  | 5450.00           | 1.54              | 97.34         | 25                 | 5448.86                  | -10.49                | 10.49 S     | 27.46 E  | 29.39         | 110.90      | 0.41                     | 0.40                | -4.00              |
|                  | 5475.00           | 1.55              | 97.53         | 25                 | 5473.85                  | -10.57                | 10.57 S     | 28.13 E  | 30.05         | 110.60      | 0.04                     | 0.04                | 0.76               |
|                  | 5500.00           | 1.71              | 91.33         | 25                 | 5498.84                  | -10.63                | 10.63 S     | 28.83 E  | 30.73         | 110.23      | 0.95                     | 0.64                | -24.80             |
|                  | 5525.00           | 1.60              | 90.00         | 25                 | 5523.83                  | -10.63                | 10.63 S     | 29.56 E  | 31.41         | 109.79      | 0.47                     | -0.44               | -5.32              |
|                  | 5550.00           | 1.53              | 75.85         | 25                 | 5548.82                  | -10.55                | 10.55 S     | 30.23 E  | 32.02         | 109.24      | 1.57                     | -0.28               | -56.60             |
|                  | 5575.00           | 1.21              | 75.58         | 25                 | 5573.81                  | -10.41                | 10.41 S     | 30.81 E  | 32.52         | 108.66      | 1.28                     | -1.28               | -1.08              |
|                  | 5600.00           | 1.03              | 70.64         | 25                 | 5598.80                  | -10.27                | 10.27 S     | 31.28 E  | 32.92         | 108.17      | 0.82                     | -0.72               | -19.76             |
|                  | 5625.00           | 1.32              | 75.38         | 25                 | 5623.80                  | -10.12                | 10.12 S     | 31.77 E  | 33.34         | 107.67      | 1.22                     | 1.16                | 18.96              |
|                  | 5650.00           | 1.12              | 81.18         | 25                 | 5648.79                  | -10.01                | 10.01 S     | 32.29 E  | 33.80         | 107.22      | 0.94                     | -0.80               | 23.20              |
|                  | 5675.00           | 1.08              | 88.57         | 25                 | 5673.79                  | -9.96                 | 9.96 S      | 32.76 E  | 34.25         | 106.92      | 0.59                     | -0.16               | 29.56              |
|                  | 5700.00           | 1.21              | 83.15         | 25                 | 5698.78                  | -9.93                 | 9.93 S      | 33.26 E  | 34.71         | 106.62      | 0.68                     | 0.52                | -21.68             |
|                  | 5725.00           | 1.23              | 84.44         | 25                 | 5723.78                  | -9.87                 | 9.87 S      | 33.79 E  | 35.20         | 106.28      | 0.14                     | 0.08                | 5.16               |
|                  | 5750.00           | 1.35              | 83.07         | 25                 | 5748.77                  | -9.81                 | 9.81 S      | 34.35 E  | 35.72         | 105.94      | 0.50                     | 0.48                | -5.48              |
|                  | 5775.00           | 1.19              | 54.75         | 25                 | 5773.77                  | -9.62                 | 9.62 S      | 34.85 E  | 36.16         | 105.43      | 2.56                     | -0.64               | -113.28            |
|                  | 5800.00           | 1.66              | 58.83         | 25                 | 5798.76                  | -9.29                 | 9.29 S      | 35.38 E  | 36.57         | 104.71      | 1.92                     | 1.88                | 16.32              |
|                  | 5825.00           | 1.35              | 64.39         | 25                 | 5823.75                  | -8.97                 | 8.97 S      | 35.95 E  | 37.05         | 104.01      | 1.37                     | -1.24               | 22.24              |
|                  | 5850.00           | 1.57              | 54.75         | 25                 | 5848.74                  | -8.65                 | 8.65 S      | 36.50 E  | 37.51         | 103.33      | 1.32                     | 0.88                | -38.56             |
|                  | 5875.00           | 1.36              | 54.57         | 25                 | 5873.73                  | -8.28                 | 8.28 S      | 37.02 E  | 37.93         | 102.60      | 0.84                     | -0.84               | -0.72              |
|                  | 5900.00           | 0.88              | 77.39         | 25                 | 5898.73                  | -8.06                 | 8.06 S      | 37.45 E  | 38.31         | 102.15      | 2.59                     | -1.92               | 91.28              |
|                  | 5925.00           | 1.01              | 86.90         | 25                 | 5923.72                  | -8.01                 | 8.01 S      | 37.85 E  | 38.69         | 101.95      | 0.81                     | 0.52                | 38.04              |
|                  | 5950.00           | 0.99              | 70.07         | 25                 | 5948.72                  | -7.92                 | 7.92 S      | 38.28 E  | 39.09         | 101.69      | 1.17                     | -0.08               | -67.32             |
|                  | 5975.00           | 1.17              | 90.89         | 25                 | 5973.72                  | -7.85                 | 7.85 S      | 38.74 E  | 39.52         | 101.46      | 1.71                     | 0.72                | 83.28              |
|                  | 6000.00           | 0.92              | 82.62         | 25                 | 5998.71                  | -7.83                 | 7.83 S      | 39.19 E  | 39.96         | 101.30      | 1.17                     | -1.00               | -33.08             |



Company: Legacy  
 Well: Lea Unit No. 62H  
 Location: Lea Co., New Mexico  
 Rig: Pulling Unit

Job Number: 63622  
 Grid Corr.: -0.45  
 Lat: 32.56  
 Long: -103.50

Calculation Method: Minimum Curvature  
 Proposed Azimuth:   
 RKB - MSL in feet: Ground  
 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) |                          |                     |                    |
|                  | 6025.00           | 1.39              | 75.53         | 25                 | 6023.71                  | -7.73                 | 7.73 S      | 39.68 E  | 40.43         | 101.02      | 1.96                     | 1.88                | -28.36             |
|                  | 6050.00           | 0.88              | 65.69         | 25                 | 6048.70                  | -7.58                 | 7.58 S      | 40.15 E  | 40.86         | 100.68      | 2.18                     | -2.04               | -39.36             |
|                  | 6075.00           | 1.12              | 93.43         | 25                 | 6073.70                  | -7.51                 | 7.51 S      | 40.57 E  | 41.26         | 100.49      | 2.13                     | 0.96                | 110.96             |
|                  | 6100.00           | 1.03              | 88.65         | 25                 | 6098.69                  | -7.52                 | 7.52 S      | 41.04 E  | 41.72         | 100.38      | 0.51                     | -0.36               | -19.12             |
|                  | 6125.00           | 1.03              | 90.71         | 25                 | 6123.69                  | -7.52                 | 7.52 S      | 41.49 E  | 42.16         | 100.27      | 0.15                     | 0.00                | 8.24               |
|                  | 6150.00           | 1.22              | 81.81         | 25                 | 6148.69                  | -7.48                 | 7.48 S      | 41.98 E  | 42.64         | 100.11      | 1.03                     | 0.76                | -35.60             |
|                  | 6175.00           | 1.27              | 69.97         | 25                 | 6173.68                  | -7.35                 | 7.35 S      | 42.50 E  | 43.13         | 99.81       | 1.05                     | 0.20                | -47.36             |
|                  | 6200.00           | 0.81              | 67.45         | 25                 | 6198.68                  | -7.19                 | 7.19 S      | 42.92 E  | 43.52         | 99.51       | 1.85                     | -1.84               | -10.08             |
|                  | 6225.00           | 0.73              | 66.26         | 25                 | 6223.67                  | -7.06                 | 7.06 S      | 43.23 E  | 43.80         | 99.27       | 0.33                     | -0.32               | -4.76              |
|                  | 6250.00           | 0.97              | 78.39         | 25                 | 6248.67                  | -6.95                 | 6.95 S      | 43.59 E  | 44.14         | 99.06       | 1.19                     | 0.96                | 48.52              |
|                  | 6275.00           | 0.96              | 94.22         | 25                 | 6273.67                  | -6.92                 | 6.92 S      | 44.00 E  | 44.54         | 98.94       | 1.06                     | -0.04               | 63.32              |
|                  | 6300.00           | 1.30              | 56.97         | 25                 | 6298.66                  | -6.78                 | 6.78 S      | 44.45 E  | 44.96         | 98.68       | 3.16                     | 1.36                | -149.00            |
|                  | 6325.00           | 0.93              | 51.89         | 25                 | 6323.66                  | -6.50                 | 6.50 S      | 44.85 E  | 45.31         | 98.25       | 1.53                     | -1.48               | -20.32             |
|                  | 6350.00           | 1.06              | 85.06         | 25                 | 6348.65                  | -6.36                 | 6.36 S      | 45.24 E  | 45.68         | 98.00       | 2.33                     | 0.52                | 132.68             |
|                  | 6375.00           | 0.77              | 83.01         | 25                 | 6373.65                  | -6.32                 | 6.32 S      | 45.63 E  | 46.07         | 97.88       | 1.17                     | -1.16               | -8.20              |
|                  | 6400.00           | 1.15              | 81.20         | 25                 | 6398.65                  | -6.26                 | 6.26 S      | 46.05 E  | 46.47         | 97.74       | 1.52                     | 1.52                | -7.24              |
|                  | 6425.00           | 1.01              | 72.53         | 25                 | 6423.64                  | -6.15                 | 6.15 S      | 46.51 E  | 46.91         | 97.54       | 0.86                     | -0.56               | -34.68             |
|                  | 6450.00           | 1.15              | 74.21         | 25                 | 6448.64                  | -6.02                 | 6.02 S      | 46.96 E  | 47.34         | 97.30       | 0.57                     | 0.56                | 6.72               |
|                  | 6475.00           | 0.94              | 80.77         | 25                 | 6473.63                  | -5.92                 | 5.92 S      | 47.40 E  | 47.77         | 97.12       | 0.97                     | -0.84               | 26.24              |
|                  | 6500.00           | 0.81              | 80.92         | 25                 | 6498.63                  | -5.86                 | 5.86 S      | 47.78 E  | 48.14         | 96.99       | 0.52                     | -0.52               | 0.60               |
|                  | 6525.00           | 0.47              | 13.09         | 25                 | 6523.63                  | -5.73                 | 5.73 S      | 47.98 E  | 48.32         | 96.81       | 3.07                     | -1.36               | -271.32            |
|                  | 6550.00           | 0.90              | 46.27         | 25                 | 6548.63                  | -5.49                 | 5.49 S      | 48.14 E  | 48.45         | 96.51       | 2.27                     | 1.72                | 132.72             |
|                  | 6575.00           | 0.96              | 92.25         | 25                 | 6573.63                  | -5.37                 | 5.37 S      | 48.49 E  | 48.79         | 96.32       | 2.91                     | 0.24                | 183.92             |
|                  | 6600.00           | 0.59              | 141.44        | 25                 | 6598.62                  | -5.48                 | 5.48 S      | 48.78 E  | 49.09         | 96.40       | 2.91                     | -1.48               | 196.76             |
|                  | 6625.00           | 0.33              | 147.43        | 25                 | 6623.62                  | -5.64                 | 5.64 S      | 48.90 E  | 49.22         | 96.58       | 1.06                     | -1.04               | 23.96              |
|                  | 6650.00           | 0.59              | 78.90         | 25                 | 6648.62                  | -5.67                 | 5.67 S      | 49.07 E  | 49.39         | 96.59       | 2.24                     | 1.04                | -274.12            |
|                  | 6675.00           | 0.67              | 121.28        | 25                 | 6673.62                  | -5.72                 | 5.72 S      | 49.32 E  | 49.65         | 96.62       | 1.85                     | 0.32                | 169.52             |
|                  | 6700.00           | 0.59              | 116.59        | 25                 | 6698.62                  | -5.86                 | 5.86 S      | 49.56 E  | 49.90         | 96.74       | 0.38                     | -0.32               | -18.76             |
|                  | 6725.00           | 0.26              | 233.63        | 25                 | 6723.62                  | -5.95                 | 5.95 S      | 49.63 E  | 49.98         | 96.84       | 2.98                     | -1.32               | 468.16             |
|                  | 6750.00           | 0.37              | 193.18        | 25                 | 6748.62                  | -6.06                 | 6.06 S      | 49.56 E  | 49.93         | 96.97       | 0.96                     | 0.44                | -161.80            |



|           |                     |
|-----------|---------------------|
| Company:  | Legacy              |
| Well:     | Lea Unit No. 62H    |
| Location: | Lea Co., New Mexico |
| Rig:      | Pulling Unit        |

|             |         |
|-------------|---------|
| Job Number: | 63622   |
| Grid Corr.: | -0.45   |
| Lat:        | 32.56   |
| Long:       | -103.50 |

|                     |                   |
|---------------------|-------------------|
| Calculation Method: | Minimum Curvature |
| Proposed Azimuth:   |                   |
| RKB - MSL in feet:  | <u>Ground</u>     |
| 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') |
|------------------|-------------------|-------------------|---------------|--------------------|--------------------------|-----------------------|-------------|---------|---------|--------|--------------------------|---------------------|--------------------|
|                  | 6775.00           | 0.30              | 226.16        | 25                 | 6773.62                  | -6.18                 | 6.18 S      | 49.50 E | 49.88   | 97.12  | 0.81                     | -0.28               | 131.92             |
|                  | 6800.00           | 0.77              | 200.38        | 25                 | 6798.62                  | -6.39                 | 6.39 S      | 49.39 E | 49.80   | 97.37  | 2.07                     | 1.88                | -103.12            |
|                  | 6825.00           | 0.37              | 177.64        | 25                 | 6823.62                  | -6.63                 | 6.63 S      | 49.34 E | 49.78   | 97.65  | 1.81                     | -1.60               | -90.96             |
|                  | 6850.00           | 0.40              | 252.34        | 25                 | 6848.61                  | -6.73                 | 6.73 S      | 49.26 E | 49.71   | 97.78  | 1.87                     | 0.12                | 298.80             |
|                  | 6875.00           | 0.38              | 234.65        | 25                 | 6873.61                  | -6.81                 | 6.81 S      | 49.10 E | 49.57   | 97.89  | 0.49                     | -0.08               | -70.76             |
|                  | 6900.00           | 0.73              | 264.57        | 25                 | 6898.61                  | -6.87                 | 6.87 S      | 48.88 E | 49.36   | 98.00  | 1.77                     | 1.40                | 119.68             |
|                  | 6925.00           | 0.47              | 286.21        | 25                 | 6923.61                  | -6.86                 | 6.86 S      | 48.62 E | 49.10   | 98.03  | 1.36                     | -1.04               | 86.56              |
|                  | 6950.00           | 0.77              | 258.00        | 25                 | 6948.61                  | -6.86                 | 6.86 S      | 48.36 E | 48.84   | 98.08  | 1.68                     | 1.20                | -112.84            |
|                  | 6975.00           | 0.41              | 236.63        | 25                 | 6973.61                  | -6.95                 | 6.95 S      | 48.12 E | 48.62   | 98.21  | 1.66                     | -1.44               | -85.48             |
|                  | 7000.00           | 0.39              | 170.07        | 25                 | 6998.61                  | -7.08                 | 7.08 S      | 48.06 E | 48.58   | 98.38  | 1.76                     | -0.08               | -266.24            |
|                  | 7025.00           | 0.63              | 291.51        | 25                 | 7023.61                  | -7.11                 | 7.11 S      | 47.95 E | 48.47   | 98.44  | 3.59                     | 0.96                | 485.76             |
|                  | 7050.00           | 0.66              | 268.85        | 25                 | 7048.61                  | -7.07                 | 7.07 S      | 47.67 E | 48.20   | 98.43  | 1.02                     | 0.12                | -90.64             |
|                  | 7075.00           | 0.69              | 255.62        | 25                 | 7073.60                  | -7.11                 | 7.11 S      | 47.38 E | 47.91   | 98.53  | 0.63                     | 0.12                | -52.92             |
|                  | 7100.00           | 0.40              | 256.73        | 25                 | 7098.60                  | -7.16                 | 7.16 S      | 47.15 E | 47.70   | 98.64  | 1.16                     | -1.16               | 4.44               |
|                  | 7125.00           | 0.36              | 245.36        | 25                 | 7123.60                  | -7.22                 | 7.22 S      | 47.00 E | 47.55   | 98.73  | 0.34                     | -0.16               | -45.48             |
|                  | 7150.00           | 0.54              | 284.01        | 25                 | 7148.60                  | -7.22                 | 7.22 S      | 46.81 E | 47.37   | 98.77  | 1.37                     | 0.72                | 154.60             |
|                  | 7175.00           | 0.63              | 274.49        | 25                 | 7173.60                  | -7.18                 | 7.18 S      | 46.56 E | 47.11   | 98.77  | 0.53                     | 0.36                | -38.08             |
|                  | 7200.00           | 0.76              | 260.94        | 25                 | 7198.60                  | -7.20                 | 7.20 S      | 46.26 E | 46.82   | 98.84  | 0.83                     | 0.52                | -54.20             |
|                  | 7225.00           | 0.67              | 248.93        | 25                 | 7223.60                  | -7.28                 | 7.28 S      | 45.96 E | 46.53   | 99.00  | 0.70                     | -0.36               | -48.04             |
|                  | 7250.00           | 0.69              | 246.92        | 25                 | 7248.60                  | -7.39                 | 7.39 S      | 45.69 E | 46.28   | 99.18  | 0.12                     | 0.08                | -8.04              |
|                  | 7275.00           | 0.47              | 244.06        | 25                 | 7273.59                  | -7.49                 | 7.49 S      | 45.45 E | 46.07   | 99.36  | 0.89                     | -0.88               | -11.44             |
|                  | 7300.00           | 0.77              | 267.60        | 25                 | 7298.59                  | -7.54                 | 7.54 S      | 45.19 E | 45.82   | 99.47  | 1.55                     | 1.20                | 94.16              |
|                  | 7325.00           | 1.09              | 239.15        | 25                 | 7323.59                  | -7.67                 | 7.67 S      | 44.82 E | 45.47   | 99.71  | 2.21                     | 1.28                | -113.80            |
|                  | 7350.00           | 0.52              | 236.92        | 25                 | 7348.59                  | -7.86                 | 7.86 S      | 44.52 E | 45.21   | 100.01 | 2.28                     | -2.28               | -8.92              |
|                  | 7375.00           | 0.79              | 269.29        | 25                 | 7373.59                  | -7.92                 | 7.92 S      | 44.26 E | 44.96   | 100.15 | 1.79                     | 1.08                | 129.48             |
|                  | 7400.00           | 1.00              | 247.00        | 25                 | 7398.58                  | -8.01                 | 8.01 S      | 43.88 E | 44.61   | 100.34 | 1.61                     | 0.84                | -89.16             |
|                  | 7425.00           | 0.66              | 235.82        | 25                 | 7423.58                  | -8.17                 | 8.17 S      | 43.56 E | 44.32   | 100.63 | 1.50                     | -1.36               | -44.72             |
|                  | 7450.00           | 0.57              | 273.52        | 25                 | 7448.58                  | -8.25                 | 8.25 S      | 43.32 E | 44.10   | 100.78 | 1.63                     | -0.36               | 150.80             |
|                  | 7475.00           | 0.99              | 255.82        | 25                 | 7473.58                  | -8.29                 | 8.29 S      | 42.99 E | 43.78   | 100.92 | 1.92                     | 1.68                | -70.80             |
|                  | 7500.00           | 0.76              | 231.00        | 25                 | 7498.57                  | -8.45                 | 8.45 S      | 42.65 E | 43.48   | 101.21 | 1.75                     | -0.92               | -99.28             |



Company: Legacy  
 Well: Lea Unit No. 62H  
 Location: Lea Co., New Mexico  
 Rig: Pulling Unit

Job Number: 63622  
 Grid Corr.: -0.45  
 Lat: 32.56  
 Long: -103.50

Calculation Method: Minimum Curvature  
 Proposed Azimuth:   
 RKB - MSL in feet: Ground  
 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) |                          |                     |                    |
|                  | 7525.00           | 0.66              | 250.80        | 25                 | 7523.57                  | -8.60                 | 8.60 S      | 42.38 E  | 43.25         | 101.47      | 1.05                     | -0.40               | 79.20              |
|                  | 7550.00           | 1.07              | 254.76        | 25                 | 7548.57                  | -8.71                 | 8.71 S      | 42.02 E  | 42.91         | 101.71      | 1.66                     | 1.64                | 15.84              |
|                  | 7575.00           | 0.90              | 224.79        | 25                 | 7573.56                  | -8.91                 | 8.91 S      | 41.66 E  | 42.60         | 102.07      | 2.14                     | -0.68               | -119.88            |
|                  | 7600.00           | 0.72              | 257.46        | 25                 | 7598.56                  | -9.08                 | 9.08 S      | 41.37 E  | 42.35         | 102.38      | 1.95                     | -0.72               | 130.68             |
|                  | 7625.00           | 0.98              | 279.74        | 25                 | 7623.56                  | -9.08                 | 9.08 S      | 41.00 E  | 42.00         | 102.49      | 1.66                     | 1.04                | 89.12              |
|                  | 7650.00           | 0.74              | 267.92        | 25                 | 7648.56                  | -9.05                 | 9.05 S      | 40.63 E  | 41.63         | 102.56      | 1.19                     | -0.96               | -47.28             |
|                  | 7675.00           | 0.71              | 267.99        | 25                 | 7673.55                  | -9.06                 | 9.06 S      | 40.31 E  | 41.32         | 102.67      | 0.12                     | -0.12               | 0.28               |
|                  | 7700.00           | 1.28              | 257.30        | 25                 | 7698.55                  | -9.13                 | 9.13 S      | 39.89 E  | 40.92         | 102.89      | 2.39                     | 2.28                | -42.76             |
|                  | 7725.00           | 0.81              | 260.19        | 25                 | 7723.55                  | -9.22                 | 9.22 S      | 39.44 E  | 40.50         | 103.16      | 1.89                     | -1.88               | 11.56              |
|                  | 7750.00           | 1.24              | 279.64        | 25                 | 7748.54                  | -9.21                 | 9.21 S      | 39.00 E  | 40.07         | 103.28      | 2.19                     | 1.72                | 77.80              |
|                  | 7775.00           | 0.86              | 256.84        | 25                 | 7773.54                  | -9.20                 | 9.20 S      | 38.55 E  | 39.63         | 103.43      | 2.23                     | -1.52               | -91.20             |
|                  | 7800.00           | 0.90              | 261.92        | 25                 | 7798.54                  | -9.27                 | 9.27 S      | 38.17 E  | 39.28         | 103.65      | 0.35                     | 0.16                | 20.32              |
|                  | 7825.00           | 0.78              | 271.64        | 25                 | 7823.53                  | -9.30                 | 9.30 S      | 37.81 E  | 38.93         | 103.81      | 0.74                     | -0.48               | 38.88              |
|                  | 7850.00           | 1.22              | 265.01        | 25                 | 7848.53                  | -9.31                 | 9.31 S      | 37.37 E  | 38.52         | 103.99      | 1.82                     | 1.76                | -26.52             |
|                  | 7875.00           | 0.97              | 255.22        | 25                 | 7873.52                  | -9.39                 | 9.39 S      | 36.90 E  | 38.08         | 104.28      | 1.25                     | -1.00               | -39.16             |
|                  | 7900.00           | 1.18              | 275.90        | 25                 | 7898.52                  | -9.42                 | 9.42 S      | 36.44 E  | 37.64         | 104.49      | 1.75                     | 0.84                | 82.72              |
|                  | 7925.00           | 1.32              | 259.54        | 25                 | 7923.51                  | -9.44                 | 9.44 S      | 35.90 E  | 37.13         | 104.74      | 1.53                     | 0.56                | -65.44             |
|                  | 7950.00           | 0.89              | 259.71        | 25                 | 7948.51                  | -9.53                 | 9.53 S      | 35.43 E  | 36.69         | 105.06      | 1.72                     | -1.72               | 0.68               |
|                  | 7975.00           | 1.30              | 259.26        | 25                 | 7973.50                  | -9.62                 | 9.62 S      | 34.96 E  | 36.26         | 105.38      | 1.64                     | 1.64                | -1.80              |
|                  | 8000.00           | 0.96              | 292.37        | 25                 | 7998.50                  | -9.59                 | 9.59 S      | 34.49 E  | 35.80         | 105.54      | 2.89                     | -1.36               | 132.44             |
|                  | 8025.00           | 1.15              | 277.37        | 25                 | 8023.50                  | -9.48                 | 9.48 S      | 34.05 E  | 35.34         | 105.56      | 1.33                     | 0.76                | -60.00             |
|                  | 8050.00           | 1.13              | 304.30        | 25                 | 8048.49                  | -9.31                 | 9.31 S      | 33.59 E  | 34.86         | 105.49      | 2.12                     | -0.08               | 107.72             |
|                  | 8075.00           | 1.05              | 265.42        | 25                 | 8073.49                  | -9.19                 | 9.19 S      | 33.16 E  | 34.41         | 105.49      | 2.92                     | -0.32               | -155.52            |
|                  | 8100.00           | 1.53              | 293.90        | 25                 | 8098.48                  | -9.07                 | 9.07 S      | 32.63 E  | 33.86         | 105.54      | 3.15                     | 1.92                | 113.92             |
|                  | 8125.00           | 1.03              | 270.20        | 25                 | 8123.47                  | -8.94                 | 8.94 S      | 32.10 E  | 33.32         | 105.56      | 2.87                     | -2.00               | -94.80             |
|                  | 8150.00           | 1.08              | 250.90        | 25                 | 8148.47                  | -9.01                 | 9.01 S      | 31.65 E  | 32.91         | 105.89      | 1.43                     | 0.20                | -77.20             |
|                  | 8175.00           | 1.59              | 269.46        | 25                 | 8173.46                  | -9.09                 | 9.09 S      | 31.08 E  | 32.38         | 106.31      | 2.65                     | 2.04                | 74.24              |
|                  | 8200.00           | 1.17              | 277.91        | 25                 | 8198.46                  | -9.06                 | 9.06 S      | 30.48 E  | 31.80         | 106.55      | 1.86                     | -1.68               | 33.80              |
|                  | 8225.00           | 0.98              | 266.60        | 25                 | 8223.45                  | -9.04                 | 9.04 S      | 30.01 E  | 31.35         | 106.76      | 1.14                     | -0.76               | -45.24             |
|                  | 8250.00           | 1.10              | 266.61        | 25                 | 8248.45                  | -9.06                 | 9.06 S      | 29.56 E  | 30.92         | 107.05      | 0.48                     | 0.48                | 0.04               |

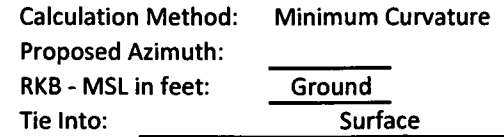


Company: Legacy  
 Well: Lea Unit No. 62H  
 Location: Lea Co., New Mexico  
 Rig: Pulling Unit

Job Number: 63622  
 Grid Corr.: -0.45  
 Lat: 32.56  
 Long: -103.50

Calculation Method: Minimum Curvature  
 Proposed Azimuth:   
 RKB - MSL in feet: Ground  
 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) |                          |                     |                    |
|                  | 8275.00           | 1.28              | 261.58        | 25                 | 8273.44                  | -9.12                 | 9.12 S      | 29.05 E  | 30.44         | 107.43      | 0.83                     | 0.72                | -20.12             |
|                  | 8300.00           | 1.45              | 269.41        | 25                 | 8298.44                  | -9.16                 | 9.16 S      | 28.45 E  | 29.89         | 107.85      | 1.01                     | 0.68                | 31.32              |
|                  | 8325.00           | 1.50              | 271.27        | 25                 | 8323.43                  | -9.16                 | 9.16 S      | 27.81 E  | 29.28         | 108.23      | 0.28                     | 0.20                | 7.44               |
|                  | 8350.00           | 1.62              | 282.77        | 25                 | 8348.42                  | -9.07                 | 9.07 S      | 27.14 E  | 28.62         | 108.49      | 1.34                     | 0.48                | 46.00              |
|                  | 8375.00           | 1.24              | 287.35        | 25                 | 8373.41                  | -8.92                 | 8.92 S      | 26.54 E  | 27.99         | 108.57      | 1.59                     | -1.52               | 18.32              |
|                  | 8400.00           | 1.51              | 271.92        | 25                 | 8398.40                  | -8.82                 | 8.82 S      | 25.95 E  | 27.41         | 108.78      | 1.82                     | 1.08                | -61.72             |
|                  | 8425.00           | 1.62              | 263.52        | 25                 | 8423.39                  | -8.85                 | 8.85 S      | 25.27 E  | 26.77         | 109.31      | 1.02                     | 0.44                | -33.60             |
|                  | 8450.00           | 1.74              | 275.41        | 25                 | 8448.38                  | -8.86                 | 8.86 S      | 24.54 E  | 26.09         | 109.85      | 1.47                     | 0.48                | 47.56              |
|                  | 8475.00           | 1.58              | 285.66        | 25                 | 8473.37                  | -8.73                 | 8.73 S      | 23.83 E  | 25.38         | 110.12      | 1.35                     | -0.64               | 41.00              |
|                  | 8500.00           | 1.52              | 302.25        | 25                 | 8498.36                  | -8.46                 | 8.46 S      | 23.22 E  | 24.71         | 110.02      | 1.80                     | -0.24               | 66.36              |
|                  | 8525.00           | 1.72              | 267.28        | 25                 | 8523.35                  | -8.30                 | 8.30 S      | 22.56 E  | 24.04         | 110.20      | 3.97                     | 0.80                | -139.88            |
|                  | 8550.00           | 2.01              | 275.19        | 25                 | 8548.34                  | -8.28                 | 8.28 S      | 21.75 E  | 23.27         | 110.84      | 1.55                     | 1.16                | 31.64              |
|                  | 8575.00           | 2.01              | 289.45        | 25                 | 8573.33                  | -8.09                 | 8.09 S      | 20.90 E  | 22.41         | 111.16      | 2.00                     | 0.00                | 57.04              |
|                  | 8600.00           | 1.83              | 277.02        | 25                 | 8598.31                  | -7.90                 | 7.90 S      | 20.09 E  | 21.59         | 111.46      | 1.81                     | -0.72               | -49.72             |
|                  | 8625.00           | 2.07              | 287.78        | 25                 | 8623.30                  | -7.71                 | 7.71 S      | 19.26 E  | 20.75         | 111.81      | 1.75                     | 0.96                | 43.04              |
|                  | 8650.00           | 1.80              | 298.41        | 25                 | 8648.28                  | -7.39                 | 7.39 S      | 18.49 E  | 19.91         | 111.77      | 1.79                     | -1.08               | 42.52              |
|                  | 8675.00           | 2.15              | 299.25        | 25                 | 8673.27                  | -6.97                 | 6.97 S      | 17.73 E  | 19.06         | 111.45      | 1.40                     | 1.40                | 3.36               |
|                  | 8700.00           | 1.77              | 288.43        | 25                 | 8698.25                  | -6.62                 | 6.62 S      | 16.96 E  | 18.20         | 111.32      | 2.12                     | -1.52               | -43.28             |
|                  | 8725.00           | 2.08              | 283.77        | 25                 | 8723.24                  | -6.39                 | 6.39 S      | 16.15 E  | 17.37         | 111.58      | 1.39                     | 1.24                | -18.64             |
|                  | 8750.00           | 2.32              | 293.46        | 25                 | 8748.22                  | -6.08                 | 6.08 S      | 15.25 E  | 16.41         | 111.74      | 1.77                     | 0.96                | 38.76              |
|                  | 8775.00           | 1.82              | 298.30        | 25                 | 8773.20                  | -5.69                 | 5.69 S      | 14.43 E  | 15.51         | 111.51      | 2.12                     | -2.00               | 19.36              |
|                  | 8800.00           | 1.92              | 282.42        | 25                 | 8798.19                  | -5.41                 | 5.41 S      | 13.68 E  | 14.71         | 111.59      | 2.10                     | 0.40                | -63.52             |
|                  | 8825.00           | 1.35              | 289.96        | 25                 | 8823.18                  | -5.22                 | 5.22 S      | 12.99 E  | 14.00         | 111.90      | 2.43                     | -2.28               | 30.16              |
|                  | 8850.00           | 1.08              | 257.80        | 25                 | 8848.18                  | -5.17                 | 5.17 S      | 12.48 E  | 13.51         | 112.50      | 2.89                     | -1.08               | -128.64            |
|                  | 8875.00           | 1.32              | 276.79        | 25                 | 8873.17                  | -5.19                 | 5.19 S      | 11.97 E  | 13.04         | 113.43      | 1.85                     | 0.96                | 75.96              |
|                  | 8900.00           | 1.00              | 267.30        | 25                 | 8898.17                  | -5.16                 | 5.16 S      | 11.46 E  | 12.57         | 114.24      | 1.49                     | -1.28               | -37.96             |
|                  | 8925.00           | 1.33              | 281.92        | 25                 | 8923.16                  | -5.11                 | 5.11 S      | 10.96 E  | 12.09         | 115.00      | 1.77                     | 1.32                | 58.48              |
|                  | 8950.00           | 1.14              | 297.71        | 25                 | 8948.15                  | -4.94                 | 4.94 S      | 10.46 E  | 11.56         | 115.27      | 1.55                     | -0.76               | 63.16              |
|                  | 8975.00           | 0.81              | 280.91        | 25                 | 8973.15                  | -4.79                 | 4.79 S      | 10.06 E  | 11.14         | 115.44      | 1.73                     | -1.32               | -67.20             |
|                  | 9000.00           | 1.49              | 265.21        | 25                 | 8998.15                  | -4.78                 | 4.78 S      | 9.57 E   | 10.69         | 116.56      | 2.97                     | 2.72                | -62.80             |



| Survey<br>Tool<br>Type | Survey<br>Depth<br>(ft) | Inclina-<br>tion<br>(deg) | Azimuth<br>(deg) | Course<br>Length<br>(ft) | True Vertical<br>Depth<br>(ft) | Vertical<br>Section<br>(ft) | Coordinates |             | Closure          |                | Dogleg<br>Severity<br>(d/100') | Build<br>Rate<br>(d/100') | Walk<br>Rate<br>(d/100') |
|------------------------|-------------------------|---------------------------|------------------|--------------------------|--------------------------------|-----------------------------|-------------|-------------|------------------|----------------|--------------------------------|---------------------------|--------------------------|
|                        |                         |                           |                  |                          |                                |                             | N/S<br>(ft) | E/W<br>(ft) | Distance<br>(ft) | Angle<br>(deg) |                                |                           |                          |
|                        | 9025.00                 | 1.12                      | 269.92           | 25                       | 9023.14                        | -4.81                       | 4.81 S      | 9.00 E      | 10.20            | 118.12         | 1.54                           | -1.48                     | 18.84                    |
|                        | 9050.00                 | 1.41                      | 246.85           | 25                       | 9048.13                        | -4.93                       | 4.93 S      | 8.47 E      | 9.80             | 120.20         | 2.32                           | 1.16                      | -92.28                   |
|                        | 9075.00                 | 1.39                      | 277.25           | 25                       | 9073.13                        | -5.01                       | 5.01 S      | 7.89 E      | 9.34             | 122.44         | 2.94                           | -0.08                     | 121.60                   |
|                        | 9100.00                 | 1.25                      | 264.58           | 25                       | 9098.12                        | -5.00                       | 5.00 S      | 7.31 E      | 8.86             | 124.36         | 1.29                           | -0.56                     | -50.68                   |
|                        | 9125.00                 | 1.57                      | 259.31           | 25                       | 9123.11                        | -5.09                       | 5.09 S      | 6.71 E      | 8.42             | 127.20         | 1.38                           | 1.28                      | -21.08                   |
|                        | 9150.00                 | 0.89                      | 270.71           | 25                       | 9148.11                        | -5.15                       | 5.15 S      | 6.18 E      | 8.04             | 129.83         | 2.88                           | -2.72                     | 45.60                    |
|                        | 9175.00                 | 1.51                      | 254.25           | 25                       | 9173.10                        | -5.24                       | 5.24 S      | 5.66 E      | 7.71             | 132.76         | 2.81                           | 2.48                      | -65.84                   |
|                        | 9200.00                 | 1.19                      | 274.31           | 25                       | 9198.09                        | -5.31                       | 5.31 S      | 5.09 E      | 7.35             | 136.21         | 2.26                           | -1.28                     | 80.24                    |
|                        | 9225.00                 | 1.16                      | 254.54           | 25                       | 9223.09                        | -5.36                       | 5.36 S      | 4.59 E      | 7.05             | 139.43         | 1.62                           | -0.12                     | -79.08                   |
|                        | 9250.00                 | 1.50                      | 273.55           | 25                       | 9248.08                        | -5.40                       | 5.40 S      | 4.01 E      | 6.73             | 143.38         | 2.21                           | 1.36                      | 76.04                    |
|                        | 9275.00                 | 1.29                      | 296.08           | 25                       | 9273.07                        | -5.26                       | 5.26 S      | 3.44 E      | 6.28             | 146.84         | 2.33                           | -0.84                     | 90.12                    |
|                        | 9300.00                 | 1.44                      | 279.40           | 25                       | 9298.07                        | -5.08                       | 5.08 S      | 2.87 E      | 5.84             | 150.53         | 1.69                           | 0.60                      | -66.72                   |
|                        | 9325.00                 | 1.52                      | 307.92           | 25                       | 9323.06                        | -4.83                       | 4.83 S      | 2.30 E      | 5.35             | 154.52         | 2.93                           | 0.32                      | 114.08                   |
|                        | 9350.00                 | 1.16                      | 291.75           | 25                       | 9348.05                        | -4.53                       | 4.53 S      | 1.80 E      | 4.88             | 158.28         | 2.07                           | -1.44                     | -64.68                   |
|                        | 9375.00                 | 1.70                      | 302.29           | 25                       | 9373.05                        | -4.24                       | 4.24 S      | 1.26 E      | 4.42             | 163.49         | 2.39                           | 2.16                      | 42.16                    |
|                        | 9400.00                 | 1.31                      | 312.74           | 25                       | 9398.04                        | -3.85                       | 3.85 S      | 0.73 E      | 3.92             | 169.21         | 1.90                           | -1.56                     | 41.80                    |
|                        | 9425.00                 | 1.38                      | 297.95           | 25                       | 9423.03                        | -3.51                       | 3.51 S      | 0.26 E      | 3.52             | 175.81         | 1.41                           | 0.28                      | -59.16                   |
|                        | 9450.00                 | 1.48                      | 316.55           | 25                       | 9448.02                        | -3.14                       | 3.14 S      | 0.23 W      | 3.14             | 184.21         | 1.89                           | 0.40                      | 74.40                    |
|                        | 9475.00                 | 1.29                      | 312.50           | 25                       | 9473.01                        | -2.71                       | 2.71 S      | 0.66 W      | 2.79             | 193.69         | 0.85                           | -0.76                     | -16.20                   |
|                        | 9500.00                 | 1.53                      | 311.54           | 25                       | 9498.01                        | -2.30                       | 2.30 S      | 1.12 W      | 2.56             | 205.91         | 0.96                           | 0.96                      | -3.84                    |
|                        | 9525.00                 | 1.62                      | 325.07           | 25                       | 9523.00                        | -1.79                       | 1.79 S      | 1.57 W      | 2.38             | 221.26         | 1.53                           | 0.36                      | 54.12                    |
|                        | 9550.00                 | 1.25                      | 321.67           | 25                       | 9547.99                        | -1.29                       | 1.29 S      | 1.94 W      | 2.33             | 236.48         | 1.52                           | -1.48                     | -13.60                   |
|                        | 9575.00                 | 1.43                      | 326.86           | 25                       | 9572.98                        | -0.81                       | 0.81 S      | 2.28 W      | 2.42             | 250.44         | 0.87                           | 0.72                      | 20.76                    |
|                        | 9600.00                 | 1.48                      | 337.96           | 25                       | 9597.98                        | -0.25                       | 0.25 S      | 2.57 W      | 2.58             | 264.45         | 1.14                           | 0.20                      | 44.40                    |
|                        | 9625.00                 | 1.56                      | 327.99           | 25                       | 9622.97                        | 0.34                        | 0.34 N      | 2.87 W      | 2.89             | 276.70         | 1.10                           | 0.32                      | -39.88                   |
|                        | 9650.00                 | 1.71                      | 340.00           | 25                       | 9647.96                        | 0.98                        | 0.98 N      | 3.18 W      | 3.33             | 287.06         | 1.49                           | 0.60                      | 48.04                    |
|                        | 9675.00                 | 1.43                      | 333.50           | 25                       | 9672.95                        | 1.61                        | 1.61 N      | 3.45 W      | 3.80             | 294.98         | 1.33                           | -1.12                     | -26.00                   |
|                        | 9700.00                 | 1.91                      | 328.52           | 25                       | 9697.94                        | 2.24                        | 2.24 N      | 3.81 W      | 4.42             | 300.49         | 2.00                           | 1.92                      | -19.92                   |
|                        | 9725.00                 | 1.78                      | 344.82           | 25                       | 9722.92                        | 2.97                        | 2.97 N      | 4.12 W      | 5.08             | 305.76         | 2.15                           | -0.52                     | 65.20                    |
|                        | 9750.00                 | 1.49                      | 330.38           | 25                       | 9747.91                        | 3.63                        | 3.63 N      | 4.39 W      | 5.69             | 309.59         | 2.01                           | -1.16                     | -57.76                   |



|           |                     |
|-----------|---------------------|
| Company:  | Legacy              |
| Well:     | Lea Unit No. 62H    |
| Location: | Lea Co., New Mexico |
| Rig:      | Pulling Unit        |

|             |                |
|-------------|----------------|
| Job Number: | <u>63622</u>   |
| Grid Corr.: | <u>-0.45</u>   |
| Lat:        | <u>32.56</u>   |
| Long:       | <u>-103.50</u> |

|                     |                   |
|---------------------|-------------------|
| Calculation Method: | Minimum Curvature |
| Proposed Azimuth:   |                   |
| RKB - MSL in feet:  | <u>Ground</u>     |
| Tie Into:           | Surface           |

| Survey<br>Tool<br>Type | Survey<br>Depth<br>(ft) | Inclina-<br>tion<br>(deg) | Azimuth<br>(deg) | Course<br>Length<br>(ft) | True Vertical<br>Depth<br>(ft) | Vertical<br>Section<br>(ft) | Coordinates |             | Closure          |                | Dogleg<br>Severity<br>(d/100') | Build<br>Rate<br>(d/100') | Walk<br>Rate<br>(d/100') |
|------------------------|-------------------------|---------------------------|------------------|--------------------------|--------------------------------|-----------------------------|-------------|-------------|------------------|----------------|--------------------------------|---------------------------|--------------------------|
|                        |                         |                           |                  |                          |                                |                             | N/S<br>(ft) | E/W<br>(ft) | Distance<br>(ft) | Angle<br>(deg) |                                |                           |                          |
|                        | 9775.00                 | 2.06                      | 333.23           | 25                       | 9772.90                        | 4.31                        | 4.31 N      | 4.75 W      | 6.42             | 312.23         | 2.31                           | 2.28                      | 11.40                    |
|                        | 9800.00                 | 1.57                      | 345.14           | 25                       | 9797.89                        | 5.04                        | 5.04 N      | 5.04 W      | 7.13             | 315.02         | 2.46                           | -1.96                     | 47.64                    |
|                        | 9825.00                 | 1.91                      | 327.88           | 25                       | 9822.88                        | 5.73                        | 5.73 N      | 5.35 W      | 7.84             | 316.96         | 2.48                           | 1.36                      | -69.04                   |
|                        | 9850.00                 | 1.88                      | 343.76           | 25                       | 9847.86                        | 6.47                        | 6.47 N      | 5.69 W      | 8.62             | 318.71         | 2.10                           | -0.12                     | 63.52                    |
|                        | 9875.00                 | 1.49                      | 339.40           | 25                       | 9872.85                        | 7.17                        | 7.17 N      | 5.92 W      | 9.30             | 320.49         | 1.64                           | -1.56                     | -17.44                   |
|                        | 9900.00                 | 1.86                      | 326.95           | 25                       | 9897.84                        | 7.82                        | 7.82 N      | 6.25 W      | 10.01            | 321.35         | 2.07                           | 1.48                      | -49.80                   |
|                        | 9925.00                 | 1.22                      | 339.25           | 25                       | 9922.83                        | 8.41                        | 8.41 N      | 6.57 W      | 10.67            | 322.00         | 2.87                           | -2.56                     | 49.20                    |
|                        | 9950.00                 | 1.78                      | 325.19           | 25                       | 9947.82                        | 8.97                        | 8.97 N      | 6.88 W      | 11.31            | 322.51         | 2.66                           | 2.24                      | -56.24                   |
|                        | 9975.00                 | 1.10                      | 320.78           | 25                       | 9972.82                        | 9.48                        | 9.48 N      | 7.26 W      | 11.94            | 322.57         | 2.75                           | -2.72                     | -17.64                   |
|                        | 10000.00                | 1.32                      | 336.47           | 25                       | 9997.81                        | 9.93                        | 9.93 N      | 7.52 W      | 12.46            | 322.85         | 1.58                           | 0.88                      | 62.76                    |
|                        | 10025.00                | 1.53                      | 307.02           | 25                       | 10022.80                       | 10.39                       | 10.39 N     | 7.90 W      | 13.06            | 322.75         | 3.01                           | 0.84                      | -117.80                  |
|                        | 10050.00                | 1.36                      | 292.42           | 25                       | 10047.80                       | 10.71                       | 10.71 N     | 8.44 W      | 13.64            | 321.74         | 1.62                           | -0.68                     | -58.40                   |
|                        | 10075.00                | 1.48                      | 313.73           | 25                       | 10072.79                       | 11.04                       | 11.04 N     | 8.95 W      | 14.22            | 320.97         | 2.15                           | 0.48                      | 85.24                    |
|                        | 10100.00                | 1.04                      | 309.89           | 25                       | 10097.78                       | 11.41                       | 11.41 N     | 9.36 W      | 14.76            | 320.64         | 1.79                           | -1.76                     | -15.36                   |
|                        | 10125.00                | 1.66                      | 298.41           | 25                       | 10122.78                       | 11.73                       | 11.73 N     | 9.85 W      | 15.32            | 319.97         | 2.69                           | 2.48                      | -45.92                   |
|                        | 10150.00                | 1.50                      | 306.53           | 25                       | 10147.77                       | 12.10                       | 12.10 N     | 10.43 W     | 15.97            | 319.22         | 1.10                           | -0.64                     | 32.48                    |
|                        | 10175.00                | 1.29                      | 284.69           | 25                       | 10172.76                       | 12.36                       | 12.36 N     | 10.97 W     | 16.53            | 318.42         | 2.27                           | -0.84                     | -87.36                   |
|                        | 10200.00                | 1.85                      | 300.37           | 25                       | 10197.75                       | 12.64                       | 12.64 N     | 11.59 W     | 17.15            | 317.48         | 2.80                           | 2.24                      | 62.72                    |
|                        | 10225.00                | 1.25                      | 305.71           | 25                       | 10222.74                       | 13.00                       | 13.00 N     | 12.16 W     | 17.80            | 316.92         | 2.47                           | -2.40                     | 21.36                    |
|                        | 10250.00                | 1.55                      | 277.44           | 25                       | 10247.73                       | 13.20                       | 13.20 N     | 12.72 W     | 18.33            | 316.08         | 2.97                           | 1.20                      | -113.08                  |
|                        | 10275.00                | 1.62                      | 295.56           | 25                       | 10272.72                       | 13.40                       | 13.40 N     | 13.37 W     | 18.93            | 315.07         | 2.02                           | 0.28                      | 72.48                    |
|                        | 10300.00                | 1.40                      | 281.88           | 25                       | 10297.71                       | 13.62                       | 13.62 N     | 13.99 W     | 19.52            | 314.23         | 1.68                           | -0.88                     | -54.72                   |
|                        | 10325.00                | 1.80                      | 278.86           | 25                       | 10322.70                       | 13.74                       | 13.74 N     | 14.67 W     | 20.10            | 313.12         | 1.63                           | 1.60                      | -12.08                   |
|                        | 10350.00                | 1.63                      | 298.19           | 25                       | 10347.69                       | 13.97                       | 13.97 N     | 15.38 W     | 20.77            | 312.25         | 2.40                           | -0.68                     | 77.32                    |
|                        | 10375.00                | 1.26                      | 277.04           | 25                       | 10372.69                       | 14.17                       | 14.17 N     | 15.96 W     | 21.34            | 311.60         | 2.57                           | -1.48                     | -84.60                   |
|                        | 10400.00                | 1.44                      | 261.49           | 25                       | 10397.68                       | 14.16                       | 14.16 N     | 16.54 W     | 21.77            | 310.55         | 1.63                           | 0.72                      | -62.20                   |
|                        | 10425.00                | 1.18                      | 278.29           | 25                       | 10422.67                       | 14.15                       | 14.15 N     | 17.11 W     | 22.20            | 309.59         | 1.84                           | -1.04                     | 67.20                    |
|                        | 10450.00                | 1.06                      | 253.71           | 25                       | 10447.67                       | 14.12                       | 14.12 N     | 17.59 W     | 22.55            | 308.76         | 1.96                           | -0.48                     | -98.32                   |
|                        | 10475.00                | 1.34                      | 267.54           | 25                       | 10472.66                       | 14.04                       | 14.04 N     | 18.10 W     | 22.91            | 307.80         | 1.60                           | 1.12                      | 55.32                    |
|                        | 10500.00                | 0.91                      | 285.17           | 25                       | 10497.66                       | 14.08                       | 14.08 N     | 18.58 W     | 23.32            | 307.15         | 2.19                           | -1.72                     | 70.52                    |





Company: Legacy  
 Well: Lea Unit No. 62H  
 Location: Lea Co., New Mexico  
 Rig: Pulling Unit

Job Number: 63622  
 Grid Corr.: -0.45  
 Lat: 32.56  
 Long: -103.50

Calculation Method: Minimum Curvature  
 Proposed Azimuth: Ground  
 RKB - MSL in feet: Ground  
 Tie Into: Surface

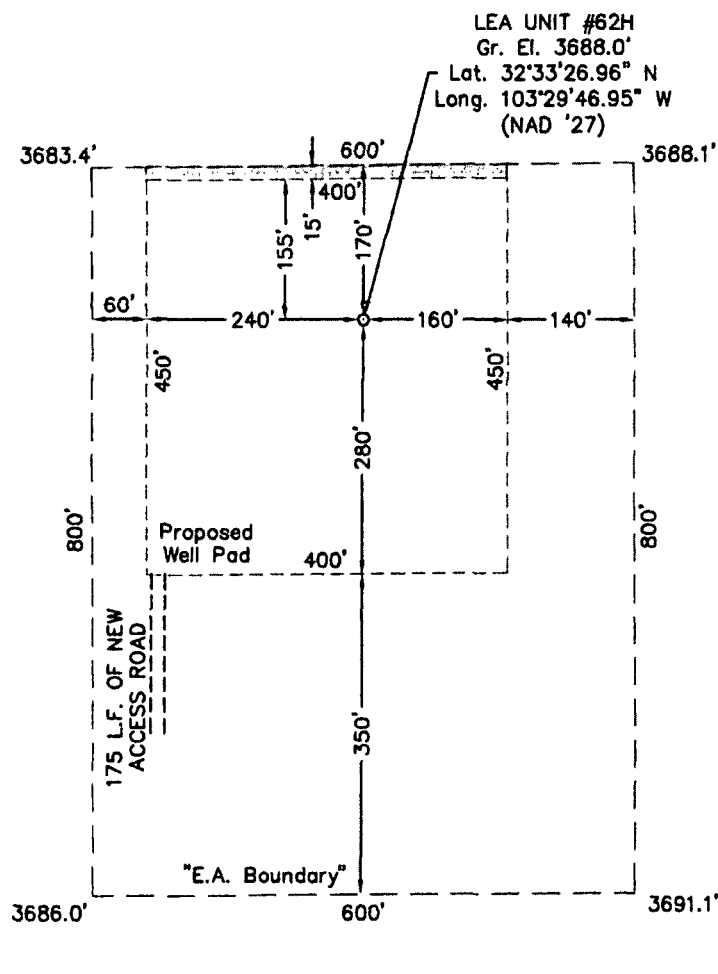
| Survey Tool Type | Survey Depth (ft) | Inclina- tion (deg) | Azimuth (deg) | Course Length (ft) | True Vertical Depth (ft) | Vertical Section (ft) | Coordinates |          | Closure       |             | Dogleg Severity (d/100') | Build Rate (d/100') | Walk Rate (d/100') |
|------------------|-------------------|---------------------|---------------|--------------------|--------------------------|-----------------------|-------------|----------|---------------|-------------|--------------------------|---------------------|--------------------|
|                  |                   |                     |               |                    |                          |                       | N/S (ft)    | E/W (ft) | Distance (ft) | Angle (deg) |                          |                     |                    |
|                  | 10525.00          | 0.51                | 346.73        | 25                 | 10522.66                 | 14.24                 | 14.24 N     | 18.80 W  | 23.59         | 307.14      | 3.22                     | -1.60               | 246.24             |
|                  | 10550.00          | 0.29                | 242.95        | 25                 | 10547.66                 | 14.32                 | 14.32 N     | 18.88 W  | 23.70         | 307.18      | 2.58                     | -0.88               | -415.12            |
|                  | 10575.00          | 0.61                | 247.09        | 25                 | 10572.65                 | 14.24                 | 14.24 N     | 19.06 W  | 23.79         | 306.76      | 1.29                     | 1.28                | 16.56              |
|                  | 10600.00          | 0.52                | 245.84        | 25                 | 10597.65                 | 14.14                 | 14.14 N     | 19.29 W  | 23.92         | 306.25      | 0.36                     | -0.36               | -5.00              |
|                  | 10625.00          | 0.36                | 223.26        | 25                 | 10622.65                 | 14.04                 | 14.04 N     | 19.45 W  | 23.98         | 305.83      | 0.93                     | -0.64               | -90.32             |
|                  | 10650.00          | 0.43                | 175.85        | 25                 | 10647.65                 | 13.89                 | 13.89 N     | 19.49 W  | 23.93         | 305.47      | 1.30                     | 0.28                | -189.64            |
|                  | 10675.00          | 0.70                | 199.37        | 25                 | 10672.65                 | 13.65                 | 13.65 N     | 19.54 W  | 23.83         | 304.94      | 1.40                     | 1.08                | 94.08              |
|                  | 10700.00          | 1.19                | 205.21        | 25                 | 10697.65                 | 13.27                 | 13.27 N     | 19.70 W  | 23.75         | 303.97      | 1.99                     | 1.96                | 23.36              |
|                  | 10725.00          | 1.20                | 232.00        | 25                 | 10722.64                 | 12.88                 | 12.88 N     | 20.01 W  | 23.80         | 302.75      | 2.21                     | 0.04                | 107.16             |
|                  | 10750.00          | 1.14                | 223.26        | 25                 | 10747.64                 | 12.53                 | 12.53 N     | 20.39 W  | 23.94         | 301.58      | 0.75                     | -0.24               | -34.96             |
|                  | 10775.00          | 1.19                | 248.39        | 25                 | 10772.63                 | 12.26                 | 12.26 N     | 20.80 W  | 24.15         | 300.51      | 2.04                     | 0.20                | 100.52             |
|                  | 10800.00          | 1.59                | 226.95        | 25                 | 10797.63                 | 11.92                 | 11.92 N     | 21.30 W  | 24.41         | 299.24      | 2.60                     | 1.60                | -85.76             |

# SECTION 19, TOWNSHIP 20 SOUTH, RANGE 35 EAST, N.M.P.M.

LEA COUNTY

NEW MEXICO

2015-0535-12



## 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 23.6 MILES TO MARATHON ROAD / CO. RD. 27-A ON SOUTH (LEFT) SIDE OF THE HIGHWAY. THEN GO SOUTH 5.4 MILES TO A LEASE ROAD ON THE EAST (LEFT) SIDE OF THE ROAD, THEN GO EAST ON LEASE ROAD 1.5 MILES TO A POINT APPROXIMATELY 470 FEET SOUTH OF THE PROPOSED LOCATION.

## LEGACY RESERVES OPERATING LP

### LEA UNIT #62H

Located 2270' FSL & 2560' FWL, Section 19  
Township 20 South, Range 35 East, N.M.P.M.  
Lea County, New Mexico



SURVEYORS - ENGINEERS - PLANNERS  
FIRM REGISTRATION NUMBER: 100682-00  
110 W. LOUISIANA AVE., SUITE 110  
MIDLAND, TEXAS 79701  
(432) 687-0865 - FAX (432) 687-0868

|                          |                         |
|--------------------------|-------------------------|
| Drawn By: SC             | Date: August 25, 2016   |
| Scale: 1" = 200'         | Field Book: 599 / 52-54 |
| Revision Date: 9-23-2015 | Quadrangle: Monument SW |
| W.O. No: 2015-0535       | Dwg. No.: 2015-0535-12  |