

30-015-37921

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NMOCD ARTESIA



Weatherford

Client : Oxy Permian  
 Well : Lost Tank 3-22  
 Location : Eddy County, NM  
 License :

UWI #:

Comment : M. Evans / J. Jenkins

Page: 1  
 Date : 1/19/2011  
 File : 4021505

**Vertical Section Calculated Along Azimuth 0.00°**

KB Elevation = 0.00ft

|                                                           | MD<br>ft | Inc<br>deg | Azi<br>deg | TVD<br>ft | North<br>ft | East<br>ft | V'Sect<br>ft | D'Leg<br>%/100 | Build<br>%/100 | Turn<br>%/100 |
|-----------------------------------------------------------|----------|------------|------------|-----------|-------------|------------|--------------|----------------|----------------|---------------|
| <b>The following are Scientific Drilling Gyro Surveys</b> |          |            |            |           |             |            |              |                |                |               |
| 0                                                         | 109.40   | 0.26       | 137.16     | 109.40    | -0.18       | 0.17       | -0.18        | 0.00           | 0.00           | 0.00          |
| 1                                                         | 201.80   | 0.53       | 104.26     | 201.80    | -0.44       | 0.73       | -0.44        | 0.37           | 0.29           | -35.61        |
| 2                                                         | 292.40   | 0.49       | 102.18     | 292.39    | -0.63       | 1.51       | -0.63        | 0.05           | -0.04          | -2.30         |
| 3                                                         | 383.10   | 0.44       | 90.68      | 383.09    | -0.71       | 2.24       | -0.71        | 0.12           | -0.06          | -12.68        |
| 4                                                         | 473.70   | 0.44       | 94.34      | 473.69    | -0.74       | 2.93       | -0.74        | 0.03           | 0.00           | 4.04          |
| 5                                                         | 564.40   | 0.55       | 80.34      | 564.38    | -0.70       | 3.71       | -0.70        | 0.18           | 0.12           | -15.44        |
| <b>Tie in to Scientific Drilling Gyro Survey</b>          |          |            |            |           |             |            |              |                |                |               |
| 6                                                         | 655.00   | 0.65       | 69.81      | 654.98    | -0.45       | 4.62       | -0.45        | 0.16           | 0.11           | -11.62        |
| <b>The Following are Weatherford MWD Surveys</b>          |          |            |            |           |             |            |              |                |                |               |
| 7                                                         | 838.00   | 0.82       | 40.38      | 837.97    | 0.91        | 6.44       | 0.91         | 0.22           | 0.09           | -16.08        |
| 8                                                         | 997.00   | 2.19       | 14.70      | 996.91    | 4.72        | 7.95       | 4.72         | 0.94           | 0.86           | -16.15        |
| 9                                                         | 1093.00  | 1.75       | 18.83      | 1092.85   | 7.88        | 8.89       | 7.88         | 0.48           | -0.46          | 4.30          |
| 10                                                        | 1187.00  | 1.21       | 22.32      | 1186.82   | 10.15       | 9.73       | 10.15        | 0.58           | -0.57          | 3.71          |
| 11                                                        | 1280.00  | 1.00       | 11.45      | 1279.80   | 11.86       | 10.26      | 11.86        | 0.32           | -0.23          | -11.69        |
| 12                                                        | 1374.00  | 1.06       | 18.20      | 1373.79   | 13.49       | 10.70      | 13.49        | 0.14           | 0.06           | 7.18          |
| 13                                                        | 1533.00  | 1.00       | 23.83      | 1532.76   | 16.15       | 11.72      | 16.15        | 0.07           | -0.04          | 3.54          |
| 14                                                        | 1692.00  | 1.19       | 34.08      | 1691.73   | 18.79       | 13.20      | 18.79        | 0.17           | 0.12           | 6.45          |
| 15                                                        | 1851.00  | 1.57       | 42.69      | 1850.69   | 21.76       | 15.61      | 21.76        | 0.27           | 0.24           | 5.42          |
| 16                                                        | 2010.00  | 2.06       | 43.08      | 2009.61   | 25.45       | 19.03      | 25.45        | 0.31           | 0.31           | 0.25          |
| 17                                                        | 2169.00  | 2.25       | 46.45      | 2168.49   | 29.69       | 23.25      | 29.69        | 0.14           | 0.12           | 2.12          |
| 18                                                        | 2264.00  | 2.25       | 44.33      | 2263.42   | 32.30       | 25.90      | 32.30        | 0.09           | 0.00           | -2.23         |
| 19                                                        | 2359.00  | 2.13       | 44.08      | 2358.35   | 34.91       | 28.43      | 34.91        | 0.13           | -0.13          | -0.26         |
| 20                                                        | 2454.00  | 1.94       | 45.45      | 2453.29   | 37.30       | 30.81      | 37.30        | 0.21           | -0.20          | 1.44          |
| 21                                                        | 2550.00  | 1.65       | 52.52      | 2549.24   | 39.28       | 33.06      | 39.28        | 0.38           | -0.30          | 7.36          |
| 22                                                        | 2645.00  | 2.25       | 53.20      | 2644.19   | 41.23       | 35.64      | 41.23        | 0.63           | 0.63           | 0.72          |
| 23                                                        | 2741.00  | 1.94       | 53.33      | 2740.12   | 43.33       | 38.45      | 43.33        | 0.32           | -0.32          | 0.14          |
| 24                                                        | 2837.00  | 1.50       | 50.58      | 2836.08   | 45.10       | 40.73      | 45.10        | 0.47           | -0.46          | -2.86         |
| 25                                                        | 2932.00  | 1.50       | 56.70      | 2931.05   | 46.57       | 42.73      | 46.57        | 0.17           | 0.00           | 6.44          |
| 26                                                        | 3027.00  | 1.69       | 61.20      | 3026.01   | 47.93       | 44.99      | 47.93        | 0.24           | 0.20           | 4.74          |
| 27                                                        | 3122.00  | 2.26       | 73.39      | 3120.96   | 49.14       | 48.02      | 49.14        | 0.74           | 0.60           | 12.83         |
| 28                                                        | 3218.00  | 2.06       | 104.45     | 3216.89   | 49.25       | 51.50      | 49.25        | 1.22           | -0.21          | 32.35         |
| 29                                                        | 3313.00  | 2.06       | 107.40     | 3311.83   | 48.31       | 54.78      | 48.31        | 0.11           | 0.00           | 3.11          |
| 30                                                        | 3376.00  | 1.88       | 104.33     | 3374.79   | 47.72       | 56.87      | 47.72        | 0.33           | -0.29          | -4.87         |
| 31                                                        | 3440.00  | 2.19       | 104.70     | 3438.75   | 47.15       | 59.07      | 47.15        | 0.48           | 0.48           | 0.58          |
| 32                                                        | 3567.00  | 3.13       | 103.58     | 3565.61   | 45.72       | 64.78      | 45.72        | 0.74           | 0.74           | -0.88         |
| 33                                                        | 3757.00  | 4.06       | 101.45     | 3755.24   | 43.17       | 76.42      | 43.17        | 0.49           | 0.49           | -1.12         |

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**Vertical Section Calculated Along Azimuth 0.00°****KB Elevation = 0.00ft**

|    | MD<br>ft | Inc<br>deg | Azi<br>deg | TVD<br>ft | North<br>ft | East<br>ft | V'Sect<br>ft | D'Leg<br>%/100 | Build<br>%/100 | Turn<br>%/100 |
|----|----------|------------|------------|-----------|-------------|------------|--------------|----------------|----------------|---------------|
| 34 | 3980.00  | 3.56       | 104.45     | 3977.74   | 39.87       | 90.86      | 39.87        | 0.24           | -0.22          | 1.35          |
| 35 | 4035.00  | 3.44       | 104.33     | 4032.64   | 39.04       | 94.11      | 39.04        | 0.22           | -0.22          | -0.22         |
| 36 | 4137.00  | 2.81       | 104.65     | 4134.49   | 37.65       | 99.50      | 37.65        | 0.62           | -0.62          | 0.31          |
| 37 | 4263.00  | 2.68       | 108.51     | 4260.34   | 35.93       | 105.28     | 35.93        | 0.18           | -0.10          | 3.06          |
| 38 | 4391.00  | 2.02       | 97.35      | 4388.24   | 34.69       | 110.35     | 34.69        | 0.63           | -0.52          | -8.72         |
| 39 | 4518.00  | 0.62       | 62.02      | 4515.20   | 34.73       | 113.18     | 34.73        | 1.23           | -1.10          | -27.82        |
| 40 | 4645.00  | 0.75       | 49.01      | 4642.19   | 35.60       | 114.41     | 35.60        | 0.16           | 0.10           | -10.24        |
| 41 | 4772.00  | 0.84       | 49.19      | 4769.18   | 36.75       | 115.75     | 36.75        | 0.07           | 0.07           | 0.14          |
| 42 | 4899.00  | 0.88       | 52.26      | 4896.17   | 37.96       | 117.22     | 37.96        | 0.05           | 0.03           | 2.42          |
| 43 | 5027.00  | 0.84       | 48.75      | 5024.15   | 39.18       | 118.70     | 39.18        | 0.05           | -0.03          | -2.74         |
| 44 | 5154.00  | 0.84       | 48.66      | 5151.14   | 40.40       | 120.10     | 40.40        | 0.00           | 0.00           | -0.07         |
| 45 | 5282.00  | 0.79       | 45.23      | 5279.12   | 41.65       | 121.43     | 41.65        | 0.05           | -0.04          | -2.68         |
| 46 | 5409.00  | 0.70       | 47.25      | 5406.11   | 42.79       | 122.63     | 42.79        | 0.07           | -0.07          | 1.59          |
| 47 | 5537.00  | 0.79       | 50.95      | 5534.10   | 43.88       | 123.89     | 43.88        | 0.08           | 0.07           | 2.89          |
| 48 | 5855.00  | 0.92       | 46.55      | 5852.07   | 47.01       | 127.44     | 47.01        | 0.05           | 0.04           | -1.38         |
| 49 | 6172.00  | 0.92       | 59.91      | 6169.03   | 50.04       | 131.49     | 50.04        | 0.07           | 0.00           | 4.21          |
| 50 | 6490.00  | 0.84       | 87.33      | 6486.99   | 51.43       | 136.03     | 51.43        | 0.13           | -0.03          | 8.62          |
| 51 | 6808.00  | 0.75       | 120.29     | 6804.96   | 50.49       | 140.15     | 50.49        | 0.14           | -0.03          | 10.36         |
| 52 | 7189.00  | 0.57       | 138.84     | 7185.94   | 47.80       | 143.55     | 47.80        | 0.07           | -0.05          | 4.87          |
| 53 | 7507.00  | 0.70       | 148.77     | 7503.92   | 44.95       | 145.60     | 44.95        | 0.05           | 0.04           | 3.12          |
| 54 | 7826.00  | 0.75       | 183.40     | 7822.89   | 41.20       | 146.49     | 41.20        | 0.14           | 0.02           | 10.86         |
| 55 | 8143.00  | 1.14       | 216.62     | 8139.85   | 36.60       | 144.48     | 36.60        | 0.21           | 0.12           | 10.48         |

**Bottom Hole Closure 149.05ft Along Azimuth 75.79°**