

HOBBS OCD

APR 27 2016

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5D Plan Report

Devon Energy

Field Name: *Lea Co, NM Nad 83 NMEZ*
Site Name: *Coachwhip 26 Fed 4H, 6H, 8H Pad*
Well Name: *Coachwhip 26 Fed 8H*
Plan: *P1:V1*

08 May 2015



Weatherford®

Coachwhip 26 Fed 8H

| | | |
|---|---|------------------------------------|
| Field Name Lea Co, NM, Nad: 83 NMEZ | Map Units : US ft | Company Name : Devon Energy |
| | Vertical Reference Datum (VRD) : Mean Sea Level | |
| | Projected Coordinate System : NAD83 / New Mexico East (ftUS) | |
| | Comment : | |

| | | | |
|---|--|-----------------------------------|------------------------------------|
| Site Name Coachwhip 26 Fed 4H, 6H, 8H Pad | Units : US ft | North Reference : Grid | Convergence Angle : 0.43 |
| | Position | Northing : 467236.68 US ft | Latitude : 32° 16' 55.16" |
| | | Easting : 787875.60 US ft | Longitude : -103° 32' 8.08" |
| | Elevation above Mean Sea Level: 3662.00 US ft | | |
| | Comment : | | |

| | | | |
|---|---|-----------------------------------|------------------------------------|
| Slot Name Coachwhip 26 Fed:8H | Position (Offsets relative to Site Centre) | | |
| | +N / -S : 0.46 US ft | Northing : 467236.22 US ft | Latitude : 32° 16' 55.16" |
| | +E / -W : -100.00 US ft | Easting : 787775.60 US ft | Longitude : -103° 32' 9.25" |
| | Slot TVD Reference : Ground Elevation | | |
| | Elevation above Mean Sea Level : 3662.00 US ft | | |
| | Comment : | | |

| | | | |
|---|--|-----------------------------------|---------------------------|
| Well Name Coachwhip 26 Fed:8H | Type : Main well | UWI : | Plan : P1:V1 |
| | Rig Height Well TVD Reference : 25.00 US ft | Comment : | |
| | Relative to Mean Sea Level: 3687.00 US ft | | |
| | Closure Distance : 4628.47 US ft | Closure Azimuth : 179.903° | |
| | Vertical Section (Position of Origin Relative to Slot) | | |
| | +N / -S : 0.00 US ft | +E / -W : 0.00 US ft | Az : 176.72° |
| | Magnetic Parameters | | |
| | Model : BGGM | Field Strength : 48178.0nT | Dec : 7.23° |
| | | | Dip : 60.13° |
| | | | Date : 30/Oct/2015 |

Target Set

Name : Coachwhip 26 Fed 8H **Number of Targets :** 1

Comment :

| | | | |
|--------------------------------|---|-----------------------------------|------------------------------------|
| Target Name: PBHL 8H | Position (Relative to Slot centre) | | |
| | +N / -S : 4628.46 US ft | Northing : 462607.76 US ft | Latitude : 32° 16' 9.36" |
| | +E / -W : 7.82 US ft | Easting : 787783.42 US ft | Longitude : -103° 32' 9.56" |
| Shape: Cuboid | TVD (Well TVD Reference) : 9617.00 US ft | | |
| | Orientation Azimuth : 176.72° | Inclination : 0.28° | |
| | Dimensions Length : 9242.00 US ft | Breadth : 100.00 US ft | Height : 30.00 US ft |

5D Plan Report

| Casing Points (Relative to Slot centre, TVD relative to Well TVD Reference) | | | | | | | | | |
|---|---------|--------|-------------|-------------------|-------------------|------------------|-----------------|-----------|--|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | N. Offset (US ft) | E. Offset (US ft) | Northing (US ft) | Easting (US ft) | Name | |
| 1420.00 | 0.00 | 0.00 | 1420.00 | 0.00 | 0.00 | 467236.22 | 787775.60 | 13 3/8 in | |
| 5200.00 | 0.00 | 0.00 | 5200.00 | 0.00 | 0.00 | 467236.22 | 787775.60 | 9 5/8 in | |

Well path created using minimum curvature

| Salient Points (Relative to Slot centre, TVD relative to Well TVD Reference) | | | | | | | | | | | |
|--|---------|--------|-------------|-------------------|-------------------|------------|-------------------|-----------------------|-----------------------|-------------|-----------|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | N. Offset (US ft) | E. Offset (US ft) | VS (US ft) | DLS (°/100 US ft) | B. Rate (°/100 US ft) | T. Rate (°/100 US ft) | T. Face (°) | Comment |
| 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1420.00 | 0.00 | 0.00 | 1420.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 13 3/8 in |
| 5200.00 | 0.00 | 0.00 | 5200.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 9 5/8 in |
| 5300.00 | 0.00 | 0.00 | 5300.00 | 0.00 | 0.00 | -0.00 | 0.00 | 0.00 | 0.00 | 0.00 | Nudge |
| 5800.00 | 5.00 | 270.00 | 5799.37 | 0.00 | -21.80 | -1.25 | 1.00 | 1.00 | 0.00 | 270.00 | Hold |
| 8000.00 | 5.00 | 270.00 | 7990.99 | 0.00 | -213.55 | -12.22 | 0.00 | 0.00 | 0.00 | 0.00 | Drop |
| 9000.00 | 0.00 | 0.00 | 8989.73 | 0.00 | -257.15 | -14.71 | 0.50 | -0.50 | 0.00 | 180.00 | Hold |
| 9170.27 | 0.00 | 0.00 | 9160.00 | 0.00 | -257.15 | -14.71 | 0.00 | 0.00 | 0.00 | 0.00 | KOP |
| 9922.63 | 90.28 | 176.72 | 9637.46 | -479.03 | -229.73 | 465.10 | 12.00 | 12.00 | 0.00 | 176.72 | LP |
| 14078.90 | 90.28 | 176.72 | 9617.00 | -4628.46 | 7.82 | 4621.33 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL 8H |

| Interpolated Points (Relative to Slot centre, TVD relative to Well TVD Reference) | | | | | | | | | | | |
|---|---------|--------|-------------|-------------------|-------------------|------------|-------------------|------------------|-----------------|---------|--|
| MD (US ft) | Inc (°) | Az (°) | TVD (US ft) | N. Offset (US ft) | E. Offset (US ft) | VS (US ft) | DLS (°/100 US ft) | Northing (US ft) | Easting (US ft) | Comment | |
| 5300.00 | 0.00 | 0.00 | 5300.00 | 0.00 | 0.00 | -0.00 | 0.00 | 467236.22 | 787775.60 | Nudge | |
| 5400.00 | 1.00 | 270.00 | 5399.99 | 0.00 | -0.87 | -0.05 | 1.00 | 467236.22 | 787774.73 | | |
| 5500.00 | 2.00 | 270.00 | 5499.96 | 0.00 | -3.49 | -0.20 | 1.00 | 467236.22 | 787772.11 | | |
| 5600.00 | 3.00 | 270.00 | 5599.86 | 0.00 | -7.85 | -0.45 | 1.00 | 467236.22 | 787767.75 | | |
| 5700.00 | 4.00 | 270.00 | 5699.68 | 0.00 | -13.96 | -0.80 | 1.00 | 467236.22 | 787761.64 | | |
| 5800.00 | 5.00 | 270.00 | 5799.37 | 0.00 | -21.80 | -1.25 | 1.00 | 467236.22 | 787753.80 | Hold | |
| 5900.00 | 5.00 | 270.00 | 5898.99 | 0.00 | -30.52 | -1.75 | 0.00 | 467236.22 | 787745.08 | | |
| 6000.00 | 5.00 | 270.00 | 5998.60 | 0.00 | -39.23 | -2.24 | 0.00 | 467236.22 | 787736.37 | | |
| 6100.00 | 5.00 | 270.00 | 6098.22 | 0.00 | -47.95 | -2.74 | 0.00 | 467236.22 | 787727.65 | | |
| 6200.00 | 5.00 | 270.00 | 6197.84 | 0.00 | -56.67 | -3.24 | 0.00 | 467236.22 | 787718.93 | | |
| 6300.00 | 5.00 | 270.00 | 6297.46 | 0.00 | -65.38 | -3.74 | 0.00 | 467236.22 | 787710.22 | | |
| 6400.00 | 5.00 | 270.00 | 6397.08 | 0.00 | -74.10 | -4.24 | 0.00 | 467236.22 | 787701.50 | | |
| 6500.00 | 5.00 | 270.00 | 6496.70 | 0.00 | -82.81 | -4.74 | 0.00 | 467236.22 | 787692.79 | | |
| 6600.00 | 5.00 | 270.00 | 6596.32 | 0.00 | -91.53 | -5.24 | 0.00 | 467236.22 | 787684.07 | | |
| 6700.00 | 5.00 | 270.00 | 6695.94 | 0.00 | -100.24 | -5.74 | 0.00 | 467236.22 | 787675.36 | | |
| 6800.00 | 5.00 | 270.00 | 6795.56 | 0.00 | -108.96 | -6.23 | 0.00 | 467236.22 | 787666.64 | | |
| 6900.00 | 5.00 | 270.00 | 6895.18 | 0.00 | -117.67 | -6.73 | 0.00 | 467236.22 | 787657.93 | | |
| 7000.00 | 5.00 | 270.00 | 6994.80 | 0.00 | -126.39 | -7.23 | 0.00 | 467236.22 | 787649.21 | | |
| 7100.00 | 5.00 | 270.00 | 7094.42 | 0.00 | -135.11 | -7.73 | 0.00 | 467236.22 | 787640.49 | | |
| 7200.00 | 5.00 | 270.00 | 7194.04 | 0.00 | -143.82 | -8.23 | 0.00 | 467236.22 | 787631.78 | | |
| 7300.00 | 5.00 | 270.00 | 7293.66 | 0.00 | -152.54 | -8.73 | 0.00 | 467236.22 | 787623.06 | | |
| 7400.00 | 5.00 | 270.00 | 7393.28 | 0.00 | -161.25 | -9.23 | 0.00 | 467236.22 | 787614.35 | | |
| 7500.00 | 5.00 | 270.00 | 7492.90 | 0.00 | -169.97 | -9.72 | 0.00 | 467236.22 | 787605.63 | | |
| 7600.00 | 5.00 | 270.00 | 7592.52 | 0.00 | -178.68 | -10.22 | 0.00 | 467236.22 | 787596.92 | | |
| 7700.00 | 5.00 | 270.00 | 7692.14 | 0.00 | -187.40 | -10.72 | 0.00 | 467236.22 | 787588.20 | | |
| 7800.00 | 5.00 | 270.00 | 7791.76 | 0.00 | -196.11 | -11.22 | 0.00 | 467236.22 | 787579.49 | | |
| 7900.00 | 5.00 | 270.00 | 7891.37 | 0.00 | -204.83 | -11.72 | 0.00 | 467236.22 | 787570.77 | | |
| 8000.00 | 5.00 | 270.00 | 7990.99 | 0.00 | -213.55 | -12.22 | 0.00 | 467236.22 | 787562.05 | Drop | |
| 8100.00 | 4.50 | 270.00 | 8090.65 | 0.00 | -221.83 | -12.69 | 0.50 | 467236.22 | 787553.77 | | |
| 8200.00 | 4.00 | 270.00 | 8190.37 | 0.00 | -229.24 | -13.12 | 0.50 | 467236.22 | 787546.36 | | |
| 8300.00 | 3.50 | 270.00 | 8290.16 | 0.00 | -235.78 | -13.49 | 0.50 | 467236.22 | 787539.82 | | |
| 8400.00 | 3.00 | 270.00 | 8390.00 | 0.00 | -241.45 | -13.81 | 0.50 | 467236.22 | 787534.15 | | |
| 8500.00 | 2.50 | 270.00 | 8489.88 | 0.00 | -246.24 | -14.09 | 0.50 | 467236.22 | 787529.36 | | |
| 8600.00 | 2.00 | 270.00 | 8589.81 | 0.00 | -250.17 | -14.31 | 0.50 | 467236.22 | 787525.43 | | |
| 8700.00 | 1.50 | 270.00 | 8689.76 | 0.00 | -253.22 | -14.49 | 0.50 | 467236.22 | 787522.38 | | |
| 8800.00 | 1.00 | 270.00 | 8789.74 | 0.00 | -255.41 | -14.61 | 0.50 | 467236.22 | 787520.19 | | |
| 8900.00 | 0.50 | 270.00 | 8889.73 | 0.00 | -256.71 | -14.69 | 0.50 | 467236.22 | 787518.89 | | |

5D Plan Report

| Interpolated Points (Relative to Slot centre TVD/relative to Wall TVD Reference) | | | | | | | | | | | |
|--|------------|-----------|----------------|---------------------|---------------------|---------------|--------------------|---------------------|--------------------|---------|--|
| MD (US.ft) | Inc (°) | Az (°) | TVD (US.ft) | N.Offset (US.ft) | E.Offset (US.ft) | VS (US.ft) | DLS %/100 US.ft | Northing (US.ft) | Easting (US.ft) | Comment | |
| 9000.00 | 0.00 | 0.00 | 8989.73 | 0.00 | -257.15 | -14.71 | 0.50 | 467236.22 | 787518.45 | Hold | |
| 9100.00 | 0.00 | 0.00 | 9089.73 | 0.00 | -257.15 | -14.71 | 0.00 | 467236.22 | 787518.45 | | |
| 9170.27 | 0.00 | 0.00 | 9160.00 | 0.00 | -257.15 | -14.71 | 0.00 | 467236.22 | 787518.45 | KOP | |
| 9200.00 | 3.57 | 176.72 | 9189.71 | -0.92 | -257.10 | -13.79 | 12.00 | 467235.30 | 787518.50 | | |
| 9300.00 | 15.57 | 176.72 | 9288.14 | -17.49 | -256.15 | 2.80 | 12.00 | 467218.73 | 787519.45 | | |
| 9400.00 | 27.57 | 176.72 | 9380.96 | -54.12 | -254.05 | 39.49 | 12.00 | 467182.10 | 787521.55 | | |
| 9500.00 | 39.57 | 176.72 | 9464.14 | -109.22 | -250.90 | 94.68 | 12.00 | 467127.00 | 787524.70 | | |
| 9600.00 | 51.57 | 176.72 | 9534.02 | -180.38 | -246.82 | 165.96 | 12.00 | 467055.84 | 787528.78 | | |
| 9700.00 | 63.57 | 176.72 | 9587.55 | -264.49 | -242.01 | 250.21 | 12.00 | 466971.73 | 787533.59 | | |
| 9800.00 | 75.57 | 176.72 | 9622.40 | -357.87 | -236.66 | 343.74 | 12.00 | 466878.35 | 787538.94 | | |
| 9900.00 | 87.57 | 176.72 | 9637.03 | -456.45 | -231.02 | 442.48 | 12.00 | 466779.77 | 787544.58 | | |
| 9922.63 | 90.28 | 176.72 | 9637.46 | -479.03 | -229.73 | 465.10 | 12.00 | 466757.19 | 787545.87 | LP | |
| 10000.00 | 90.28 | 176.72 | 9637.08 | -556.28 | -225.31 | 542.48 | 0.00 | 466679.94 | 787550.29 | | |
| 10100.00 | 90.28 | 176.72 | 9636.59 | -656.11 | -219.59 | 642.47 | 0.00 | 466580.11 | 787556.01 | | |
| 10200.00 | 90.28 | 176.72 | 9636.09 | -755.95 | -213.87 | 742.47 | 0.00 | 466480.27 | 787561.73 | | |
| 10300.00 | 90.28 | 176.72 | 9635.60 | -855.78 | -208.16 | 842.47 | 0.00 | 466380.44 | 787567.44 | | |
| 10400.00 | 90.28 | 176.72 | 9635.11 | -955.62 | -202.44 | 942.47 | 0.00 | 466280.60 | 787573.16 | | |
| 10500.00 | 90.28 | 176.72 | 9634.62 | -1055.45 | -196.73 | 1042.47 | 0.00 | 466180.77 | 787578.87 | | |
| 10600.00 | 90.28 | 176.72 | 9634.12 | -1155.29 | -191.01 | 1142.47 | 0.00 | 466080.93 | 787584.59 | | |
| 10700.00 | 90.28 | 176.72 | 9633.63 | -1255.13 | -185.30 | 1242.47 | 0.00 | 465981.09 | 787590.30 | | |
| 10800.00 | 90.28 | 176.72 | 9633.14 | -1354.96 | -179.58 | 1342.47 | 0.00 | 465881.26 | 787596.02 | | |
| 10900.00 | 90.28 | 176.72 | 9632.65 | -1454.80 | -173.87 | 1442.47 | 0.00 | 465781.42 | 787601.73 | | |
| 11000.00 | 90.28 | 176.72 | 9632.16 | -1554.63 | -168.15 | 1542.46 | 0.00 | 465681.59 | 787607.45 | | |
| 11100.00 | 90.28 | 176.72 | 9631.66 | -1654.47 | -162.44 | 1642.46 | 0.00 | 465581.75 | 787613.16 | | |
| 11200.00 | 90.28 | 176.72 | 9631.17 | -1754.30 | -156.72 | 1742.46 | 0.00 | 465481.92 | 787618.88 | | |
| 11300.00 | 90.28 | 176.72 | 9630.68 | -1854.14 | -151.00 | 1842.46 | 0.00 | 465382.08 | 787624.60 | | |
| 11400.00 | 90.28 | 176.72 | 9630.19 | -1953.97 | -145.29 | 1942.46 | 0.00 | 465282.25 | 787630.31 | | |
| 11500.00 | 90.28 | 176.72 | 9629.69 | -2053.81 | -139.57 | 2042.46 | 0.00 | 465182.41 | 787636.03 | | |
| 11600.00 | 90.28 | 176.72 | 9629.20 | -2153.64 | -133.86 | 2142.46 | 0.00 | 465082.58 | 787641.74 | | |
| 11700.00 | 90.28 | 176.72 | 9628.71 | -2253.48 | -128.14 | 2242.46 | 0.00 | 464982.74 | 787647.46 | | |
| 11800.00 | 90.28 | 176.72 | 9628.22 | -2353.31 | -122.43 | 2342.45 | 0.00 | 464882.91 | 787653.17 | | |
| 11900.00 | 90.28 | 176.72 | 9627.73 | -2453.15 | -116.71 | 2442.45 | 0.00 | 464783.07 | 787658.89 | | |
| 12000.00 | 90.28 | 176.72 | 9627.23 | -2552.98 | -111.00 | 2542.45 | 0.00 | 464683.24 | 787664.60 | | |
| 12100.00 | 90.28 | 176.72 | 9626.74 | -2652.82 | -105.28 | 2642.45 | 0.00 | 464583.40 | 787670.32 | | |
| 12200.00 | 90.28 | 176.72 | 9626.25 | -2752.66 | -99.57 | 2742.45 | 0.00 | 464483.56 | 787676.03 | | |
| 12300.00 | 90.28 | 176.72 | 9625.76 | -2852.49 | -93.85 | 2842.45 | 0.00 | 464383.73 | 787681.75 | | |
| 12400.00 | 90.28 | 176.72 | 9625.26 | -2952.33 | -88.14 | 2942.45 | 0.00 | 464283.89 | 787687.46 | | |
| 12500.00 | 90.28 | 176.72 | 9624.77 | -3052.16 | -82.42 | 3042.45 | 0.00 | 464184.06 | 787693.18 | | |
| 12600.00 | 90.28 | 176.72 | 9624.28 | -3152.00 | -76.70 | 3142.44 | 0.00 | 464084.22 | 787698.90 | | |
| 12700.00 | 90.28 | 176.72 | 9623.79 | -3251.83 | -70.99 | 3242.44 | 0.00 | 463984.39 | 787704.61 | | |
| 12800.00 | 90.28 | 176.72 | 9623.30 | -3351.67 | -65.27 | 3342.44 | 0.00 | 463884.55 | 787710.33 | | |
| 12900.00 | 90.28 | 176.72 | 9622.80 | -3451.50 | -59.56 | 3442.44 | 0.00 | 463784.72 | 787716.04 | | |
| 13000.00 | 90.28 | 176.72 | 9622.31 | -3551.34 | -53.84 | 3542.44 | 0.00 | 463684.88 | 787721.76 | | |
| 13100.00 | 90.28 | 176.72 | 9621.82 | -3651.17 | -48.13 | 3642.44 | 0.00 | 463585.05 | 787727.47 | | |
| 13200.00 | 90.28 | 176.72 | 9621.33 | -3751.01 | -42.41 | 3742.44 | 0.00 | 463485.21 | 787733.19 | | |
| 13300.00 | 90.28 | 176.72 | 9620.83 | -3850.84 | -36.70 | 3842.44 | 0.00 | 463385.38 | 787738.90 | | |
| 13400.00 | 90.28 | 176.72 | 9620.34 | -3950.68 | -30.98 | 3942.43 | 0.00 | 463285.54 | 787744.62 | | |
| 13500.00 | 90.28 | 176.72 | 9619.85 | -4050.51 | -25.27 | 4042.43 | 0.00 | 463185.71 | 787750.33 | | |
| 13600.00 | 90.28 | 176.72 | 9619.36 | -4150.35 | -19.55 | 4142.43 | 0.00 | 463085.87 | 787756.05 | | |
| 13700.00 | 90.28 | 176.72 | 9618.87 | -4250.19 | -13.84 | 4242.43 | 0.00 | 462986.03 | 787761.76 | | |
| 13800.00 | 90.28 | 176.72 | 9618.37 | -4350.02 | -8.12 | 4342.43 | 0.00 | 462886.20 | 787767.48 | | |
| 13900.00 | 90.28 | 176.72 | 9617.88 | -4449.86 | -2.40 | 4442.43 | 0.00 | 462786.36 | 787773.20 | | |
| 14000.00 | 90.28 | 176.72 | 9617.39 | -4549.69 | 3.31 | 4542.43 | 0.00 | 462686.53 | 787778.91 | | |
| 14078.90 | 90.28 | 176.72 | 9617.00 | -4628.46 | 7.82 | 4621.33 | 0.00 | 462607.76 | 787783.42 | PBHL BH | |