

Conoco Phillips

Lea County, New Mexico

Sec 25, T26S, 31E

Golden Spur WC 25 #2H

CONFIDENTIAL

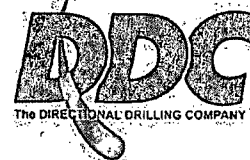
Curve & Lateral ST 01

Design: Curve & Lateral ST 01

Survey Report - Geographic

25 March, 2014

15-41235



Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Golden Spur WC 25 #2H
Project:	Lea County New Mexico	TVD Reference:	WELL @ 3171.0usft (H&P #486)
Site:	Sec 25 T26S 31E	MD Reference:	WELL @ 3171.0usft (H&P #486)
Well:	Golden Spur WC 25 #2H	North Reference:	Grid
Wellbore:	Curve & Lateral ST 01	Survey Calculation Method:	Minimum Curvature
Design:	Curve & Lateral ST 01	Database:	EDM 5000.1 Single User Db

Project	Lea County New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sec 25 T26S 31E		
Site Position:		Northing:	366,990.85 usft
From:	Map	Easting:	688,386.20 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 0' 27.057 N
		Longitude:	103° 43' 32.091 W
		Grid Convergence:	0.32 °

Well	Golden Spur WC 25 #2H		
Well Position	+N/-S	0.0 usft	Northing: 366,990.85 usft
	+E/-W	0.0 usft	Easting: 688,386.20 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 0' 27.057 N
		Longitude:	103° 43' 32.091 W
		Ground Level:	3,146.0 usft

Wellbore:	Curve & Lateral ST 01		
Magnetics	Model Name	Sample Date	Declination
	BGGM2012	4/26/2013	7.52
			Dip Angle
			59.87
			Field Strength
			48,304

Design	Curve & Lateral ST 01		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	11,126.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			6.76

Survey Program	Date 3/25/2014		
From	To	Survey (Wellbore)	Tool Name
(usft)	(usft)		Description
1,086.0	11,126.0	MWD (Pilot Hole)	MWD default
11,225.0	16,325.0	MWD (Curve & Lateral ST 01)	MWD default
			MWD - Standard
			MWD - Standard

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,003.0	6.59	160.04	1,001.3	-44.4	11.1	366,946.42	688,397.27	32° 0' 26.616 N	103° 43' 31.966 W
1,086.0	7.30	162.20	1,083.7	-53.9	14.3	366,936.92	688,400.51	32° 0' 26.522 N	103° 43' 31.929 W
1,181.0	8.10	144.80	1,177.8	-65.1	20.0	366,925.71	688,406.21	32° 0' 26.411 N	103° 43' 31.863 W
1,276.0	8.80	127.10	1,271.8	-75.0	29.7	366,915.85	688,415.87	32° 0' 26.313 N	103° 43' 31.752 W
1,370.0	9.10	106.50	1,364.7	-81.4	42.5	366,909.40	688,428.73	32° 0' 26.248 N	103° 43' 31.603 W
1,465.0	9.30	100.40	1,458.5	-85.0	57.3	366,905.88	688,443.49	32° 0' 26.213 N	103° 43' 31.432 W
1,559.0	8.90	103.00	1,551.3	-88.0	71.8	366,902.87	688,458.04	32° 0' 26.182 N	103° 43' 31.263 W
1,654.0	8.30	105.60	1,645.2	-91.5	85.6	366,899.38	688,471.81	32° 0' 26.147 N	103° 43' 31.103 W
1,749.0	9.00	98.60	1,739.2	-94.4	99.6	366,896.42	688,485.76	32° 0' 26.117 N	103° 43' 30.941 W
1,844.0	9.10	96.80	1,833.0	-96.4	114.4	366,894.42	688,500.57	32° 0' 26.096 N	103° 43' 30.769 W
1,939.0	8.40	97.70	1,926.9	-98.2	128.7	366,892.60	688,514.90	32° 0' 26.077 N	103° 43' 30.603 W

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Golden Spur WC 25 #2H
Project:	Lea County New Mexico	TVD Reference:	WELL @ 3171.0usft (H&P #486)
Site:	Sec 25 T26S 31E	MD Reference:	WELL @ 3171.0usft (H&P #486)
Well:	Golden Spur WC 25 #2H	North Reference:	Grid
Wellbore:	Curve & Lateral ST 01	Survey Calculation Method:	Minimum Curvature
Design:	Curve & Lateral ST 01	Database:	EDM 5000.1 Single User Db

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
2,033.0	7.60	98.40	2,020.0	-100.1	141.7	366,890.77	688,527.86	32° 0' 26.058 N	103° 43' 30.453 W	
2,128.0	9.10	100.20	2,113.9	-102.3	155.3	366,888.53	688,541.47	32° 0' 26.035 N	103° 43' 30.295 W	
2,223.0	9.60	103.50	2,207.7	-105.5	170.4	366,885.35	688,556.56	32° 0' 26.003 N	103° 43' 30.120 W	
2,318.0	9.50	93.20	2,301.4	-107.8	185.9	366,883.06	688,572.09	32° 0' 25.980 N	103° 43' 29.940 W	
2,412.0	9.20	88.20	2,394.1	-108.0	201.1	366,882.86	688,587.35	32° 0' 25.977 N	103° 43' 29.762 W	
2,507.0	9.20	91.90	2,487.9	-108.0	216.3	366,882.85	688,602.53	32° 0' 25.976 N	103° 43' 29.586 W	
2,602.0	9.20	99.80	2,581.7	-109.5	231.4	366,881.30	688,617.60	32° 0' 25.960 N	103° 43' 29.411 W	
2,696.0	10.40	99.80	2,674.3	-112.3	247.2	366,878.58	688,633.37	32° 0' 25.932 N	103° 43' 29.228 W	
2,791.0	9.70	99.50	2,767.9	-115.0	263.5	366,875.80	688,649.71	32° 0' 25.903 N	103° 43' 29.039 W	
2,886.0	8.10	101.80	2,861.7	-117.7	278.0	366,873.11	688,664.16	32° 0' 25.876 N	103° 43' 28.871 W	
2,980.0	8.50	97.00	2,954.7	-119.9	291.3	366,870.91	688,677.54	32° 0' 25.853 N	103° 43' 28.716 W	
3,075.0	10.70	92.60	3,048.4	-121.2	307.1	366,869.65	688,693.32	32° 0' 25.840 N	103° 43' 28.533 W	
3,170.0	10.90	92.10	3,141.7	-121.9	324.9	366,868.93	688,711.10	32° 0' 25.832 N	103° 43' 28.326 W	
3,265.0	9.60	91.90	3,235.2	-122.5	341.8	366,868.33	688,728.00	32° 0' 25.825 N	103° 43' 28.130 W	
3,359.0	8.40	89.60	3,328.0	-122.7	356.5	366,868.12	688,742.70	32° 0' 25.822 N	103° 43' 27.959 W	
3,454.0	8.40	100.00	3,422.0	-123.9	370.3	366,866.97	688,756.47	32° 0' 25.810 N	103° 43' 27.799 W	
3,549.0	9.70	104.20	3,515.8	-127.1	384.9	366,863.80	688,771.06	32° 0' 25.778 N	103° 43' 27.630 W	
3,643.0	10.70	103.50	3,608.3	-131.0	401.0	366,859.82	688,787.23	32° 0' 25.738 N	103° 43' 27.443 W	
3,738.0	9.90	102.80	3,701.8	-134.9	417.6	366,855.95	688,803.77	32° 0' 25.698 N	103° 43' 27.251 W	
3,833.0	9.40	105.60	3,795.5	-138.8	433.0	366,852.05	688,819.20	32° 0' 25.659 N	103° 43' 27.072 W	
3,928.0	9.90	103.00	3,889.1	-142.7	448.4	366,848.13	688,834.63	32° 0' 25.619 N	103° 43' 26.893 W	
4,022.0	9.90	101.90	3,981.7	-146.2	464.2	366,844.65	688,850.41	32° 0' 25.584 N	103° 43' 26.710 W	
4,117.0	8.60	101.60	4,075.5	-149.3	479.2	366,841.53	688,865.36	32° 0' 25.552 N	103° 43' 26.536 W	
4,212.0	7.30	100.20	4,169.6	-151.8	492.1	366,839.04	688,878.26	32° 0' 25.527 N	103° 43' 26.387 W	
4,307.0	6.70	97.40	4,263.9	-153.6	503.5	366,837.25	688,889.70	32° 0' 25.509 N	103° 43' 26.254 W	
4,401.0	6.60	92.30	4,357.2	-154.5	514.3	366,836.33	688,900.53	32° 0' 25.499 N	103° 43' 26.128 W	
4,496.0	4.90	89.80	4,451.8	-154.7	523.8	366,836.13	688,910.05	32° 0' 25.496 N	103° 43' 26.018 W	
4,591.0	2.60	88.20	4,546.5	-154.6	530.1	366,836.21	688,916.26	32° 0' 25.497 N	103° 43' 25.946 W	
4,614.0	2.00	81.60	4,569.5	-154.6	531.0	366,836.28	688,917.18	32° 0' 25.497 N	103° 43' 25.935 W	
4,779.0	0.60	59.90	4,734.5	-153.7	534.6	366,837.14	688,920.77	32° 0' 25.506 N	103° 43' 25.893 W	
4,965.0	0.50	51.90	4,920.5	-152.7	536.1	366,838.13	688,922.25	32° 0' 25.515 N	103° 43' 25.876 W	
5,156.0	0.40	59.70	5,111.5	-151.9	537.3	366,838.98	688,923.49	32° 0' 25.524 N	103° 43' 25.862 W	
5,346.0	0.30	29.50	5,301.5	-151.1	538.1	366,839.74	688,924.30	32° 0' 25.531 N	103° 43' 25.852 W	
5,536.0	0.20	71.10	5,491.5	-150.6	538.7	366,840.28	688,924.86	32° 0' 25.537 N	103° 43' 25.845 W	
5,727.0	0.10	49.10	5,682.5	-150.3	539.1	366,840.50	688,925.30	32° 0' 25.539 N	103° 43' 25.840 W	
5,917.0	0.80	8.80	5,872.5	-148.9	539.4	366,841.92	688,925.63	32° 0' 25.553 N	103° 43' 25.836 W	
6,106.0	0.10	311.00	6,061.4	-147.5	539.5	366,843.33	688,925.71	32° 0' 25.567 N	103° 43' 25.835 W	
6,297.0	0.10	121.00	6,252.4	-147.5	539.5	366,843.36	688,925.73	32° 0' 25.567 N	103° 43' 25.835 W	
6,481.0	0.20	180.70	6,436.4	-147.9	539.7	366,842.95	688,925.86	32° 0' 25.563 N	103° 43' 25.834 W	
6,674.0	0.40	178.50	6,629.4	-148.9	539.7	366,841.94	688,925.87	32° 0' 25.553 N	103° 43' 25.834 W	
6,860.0	0.50	203.70	6,815.4	-150.3	539.4	366,840.55	688,925.56	32° 0' 25.539 N	103° 43' 25.837 W	
7,048.0	0.70	188.40	7,003.4	-152.2	538.9	366,838.66	688,925.07	32° 0' 25.521 N	103° 43' 25.843 W	
7,238.0	0.80	186.50	7,193.4	-154.7	538.5	366,836.20	688,924.75	32° 0' 25.496 N	103° 43' 25.847 W	
7,430.0	0.90	184.90	7,385.4	-157.5	538.3	366,833.36	688,924.47	32° 0' 25.468 N	103° 43' 25.851 W	
7,620.0	1.10	182.00	7,575.4	-160.8	538.1	366,830.05	688,924.27	32° 0' 25.435 N	103° 43' 25.853 W	
7,810.0	1.40	179.30	7,765.3	-164.9	538.0	366,825.91	688,924.24	32° 0' 25.394 N	103° 43' 25.854 W	
7,995.0	1.50	181.00	7,950.3	-169.6	538.0	366,821.23	688,924.22	32° 0' 25.348 N	103° 43' 25.845 W	
8,185.0	1.50	187.50	8,140.2	-174.6	537.7	366,816.28	688,923.86	32° 0' 25.299 N	103° 43' 25.859 W	
8,281.0	1.30	184.70	8,236.2	-176.9	537.4	366,813.95	688,923.60	32° 0' 25.276 N	103° 43' 25.862 W	
8,375.0	1.30	181.10	8,330.1	-179.0	537.3	366,811.82	688,923.50	32° 0' 25.255 N	103° 43' 25.863 W	
8,453.0	1.00	185.60	8,408.1	-180.6	537.2	366,810.25	688,923.41	32° 0' 25.239 N	103° 43' 25.864 W	
8,662.0	0.90	140.80	8,617.1	-183.7	538.1	366,807.17	688,924.27	32° 0' 25.209 N	103° 43' 25.855 W	
8,852.0	0.60	117.90	8,807.1	-185.3	539.9	366,805.55	688,926.09	32° 0' 25.193 N	103° 43' 25.833 W	
9,041.0	0.60	175.40	8,996.1	-186.8	540.8	366,804.10	688,927.05	32° 0' 25.178 N	103° 43' 25.822 W	
9,231.0	0.40	149.20	9,186.1	-188.3	541.3	366,802.54	688,927.47	32° 0' 25.163 N	103° 43' 25.818 W	

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Golden Spur WC 25 #2H
Project:	Lea County, New Mexico	TVD Reference:	WELL @ 3171.0usft (H&P #486)
Site:	Sec 25, T26S, 31E	MD Reference:	WELL @ 3171.0usft (H&P #486)
Well:	Golden Spur WC 25 #2H	North Reference:	Grid
Wellbore:	Curve & Lateral ST 01	Survey Calculation Method:	Minimum Curvature
Design:	Curve & Lateral ST 01	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,420.0	0.60	182.60	9,375.1	-189.9	541.6	366,800.98	688,927.76	32° 0' 25.147 N	103° 43' 25.814 W
9,610.0	0.60	214.30	9,565.0	-191.7	541.0	366,799.16	688,927.15	32° 0' 25.130 N	103° 43' 25.822 W
9,704.0	0.70	196.20	9,659.0	-192.6	540.5	366,798.21	688,926.72	32° 0' 25.120 N	103° 43' 25.827 W
9,799.0	0.60	218.50	9,754.0	-193.6	540.0	366,797.26	688,926.25	32° 0' 25.111 N	103° 43' 25.832 W
9,894.0	0.90	217.80	9,849.0	-194.6	539.3	366,796.28	688,925.48	32° 0' 25.101 N	103° 43' 25.841 W
9,989.0	0.30	231.50	9,944.0	-195.3	538.6	366,795.54	688,924.83	32° 0' 25.094 N	103° 43' 25.849 W
10,083.0	0.30	1.20	10,038.0	-195.2	538.4	366,795.63	688,924.64	32° 0' 25.095 N	103° 43' 25.851 W
10,178.0	0.30	285.60	10,133.0	-194.9	538.2	366,795.94	688,924.40	32° 0' 25.098 N	103° 43' 25.854 W
10,273.0	0.50	267.20	10,228.0	-194.9	537.6	366,795.99	688,923.75	32° 0' 25.098 N	103° 43' 25.861 W
10,368.0	0.50	240.10	10,323.0	-195.1	536.8	366,795.76	688,922.98	32° 0' 25.096 N	103° 43' 25.870 W
10,463.0	0.20	249.60	10,418.0	-195.4	536.3	366,795.50	688,922.46	32° 0' 25.094 N	103° 43' 25.876 W
10,558.0	0.20	166.10	10,513.0	-195.6	536.1	366,795.28	688,922.35	32° 0' 25.091 N	103° 43' 25.878 W
10,652.0	0.40	190.70	10,607.0	-196.1	536.1	366,794.80	688,922.33	32° 0' 25.087 N	103° 43' 25.878 W
10,747.0	0.50	203.60	10,702.0	-196.8	535.9	366,794.09	688,922.10	32° 0' 25.080 N	103° 43' 25.881 W
10,842.0	0.30	206.40	10,797.0	-197.4	535.6	366,793.49	688,921.82	32° 0' 25.074 N	103° 43' 25.884 W
10,937.0	0.30	215.70	10,892.0	-197.8	535.4	366,793.07	688,921.57	32° 0' 25.070 N	103° 43' 25.887 W
11,031.0	0.40	197.80	10,986.0	-198.3	535.1	366,792.55	688,921.32	32° 0' 25.064 N	103° 43' 25.890 W
11,126.0	0.90	205.30	11,081.0	-199.3	534.7	366,791.56	688,920.90	32° 0' 25.055 N	103° 43' 25.895 W
TIE IN @ 11126 MD / 11081 TVD									
11,225.0	3.70	351.50	11,179.9	-196.8	533.9	366,794.02	688,920.10	32° 0' 25.079 N	103° 43' 25.904 W
11,255.0	5.80	349.50	11,209.8	-194.4	533.5	366,796.47	688,919.68	32° 0' 25.103 N	103° 43' 25.909 W
11,287.0	7.90	352.60	11,241.6	-190.6	532.9	366,800.24	688,919.10	32° 0' 25.141 N	103° 43' 25.915 W
11,318.0	10.40	353.50	11,272.2	-185.7	532.3	366,805.13	688,918.51	32° 0' 25.189 N	103° 43' 25.922 W
11,350.0	12.10	350.10	11,303.6	-179.5	531.4	366,811.31	688,917.61	32° 0' 25.250 N	103° 43' 25.932 W
11,381.0	14.90	348.90	11,333.7	-172.4	530.1	366,818.42	688,916.28	32° 0' 25.321 N	103° 43' 25.947 W
11,413.0	18.10	349.10	11,364.4	-163.5	528.3	366,827.34	688,914.55	32° 0' 25.409 N	103° 43' 25.966 W
11,445.0	20.00	348.70	11,394.7	-153.3	526.3	366,837.59	688,912.53	32° 0' 25.511 N	103° 43' 25.989 W
11,476.0	22.70	348.60	11,423.5	-142.2	524.1	366,848.65	688,910.31	32° 0' 25.620 N	103° 43' 26.014 W
11,508.0	25.20	350.50	11,452.8	-129.4	521.8	366,861.43	688,907.97	32° 0' 25.747 N	103° 43' 26.040 W
11,539.0	27.10	351.70	11,480.6	-115.9	519.7	366,874.93	688,905.86	32° 0' 25.880 N	103° 43' 26.064 W
11,571.0	29.60	351.60	11,508.8	-100.9	517.5	366,889.96	688,903.65	32° 0' 26.029 N	103° 43' 26.089 W
11,602.0	31.90	351.00	11,535.4	-85.2	515.1	366,905.63	688,901.25	32° 0' 26.185 N	103° 43' 26.115 W
11,633.0	34.60	351.70	11,561.3	-68.4	512.5	366,922.43	688,898.70	32° 0' 26.351 N	103° 43' 26.144 W
11,664.0	37.80	351.70	11,586.3	-50.3	509.9	366,940.54	688,896.06	32° 0' 26.530 N	103° 43' 26.173 W
11,696.0	41.20	351.20	11,611.0	-30.2	506.8	366,960.67	688,893.03	32° 0' 26.730 N	103° 43' 26.207 W
11,727.0	43.70	350.50	11,633.9	-9.5	503.5	366,981.32	688,889.70	32° 0' 26.934 N	103° 43' 26.245 W
11,759.0	47.40	350.30	11,656.3	13.0	499.7	367,003.84	688,885.89	32° 0' 27.157 N	103° 43' 26.287 W
11,791.0	49.30	351.70	11,677.6	36.6	496.0	367,027.46	688,882.15	32° 0' 27.391 N	103° 43' 26.329 W
11,822.0	51.70	352.60	11,697.3	60.3	492.7	367,051.15	688,878.89	32° 0' 27.626 N	103° 43' 26.366 W
11,854.0	54.80	352.10	11,716.4	85.7	489.3	367,076.56	688,875.47	32° 0' 27.878 N	103° 43' 26.404 W
11,885.0	58.80	352.10	11,733.4	111.4	485.7	367,102.25	688,871.91	32° 0' 28.132 N	103° 43' 26.443 W
11,916.0	61.60	351.70	11,748.8	138.0	481.9	367,128.88	688,868.12	32° 0' 28.396 N	103° 43' 26.486 W
11,948.0	63.80	353.50	11,763.5	166.2	478.3	367,157.07	688,864.46	32° 0' 28.675 N	103° 43' 26.526 W
11,979.0	66.20	354.70	11,776.6	194.2	475.4	367,185.02	688,861.57	32° 0' 28.952 N	103° 43' 26.558 W
12,011.0	69.60	355.60	11,788.6	223.7	472.9	367,214.56	688,859.07	32° 0' 29.244 N	103° 43' 26.585 W
12,042.0	73.30	355.40	11,798.5	253.0	470.6	367,243.85	688,856.77	32° 0' 29.534 N	103° 43' 26.610 W
12,061.0	75.91	355.76	11,803.5	271.3	469.2	367,262.11	688,855.35	32° 0' 29.715 N	103° 43' 26.625 W
FTP @ 12061 MD / 11804 TVD									
12,074.0	77.70	356.00	11,806.5	283.9	468.2	367,274.74	688,854.44	32° 0' 29.840 N	103° 43' 26.635 W
12,106.0	81.90	356.10	11,812.1	315.3	466.1	367,306.15	688,852.28	32° 0' 30.151 N	103° 43' 26.658 W
12,137.0	86.10	357.20	11,815.4	346.1	464.3	367,336.92	688,850.48	32° 0' 30.456 N	103° 43' 26.677 W
12,169.0	90.00	357.90	11,816.5	378.0	462.9	367,368.86	688,849.11	32° 0' 30.772 N	103° 43' 26.691 W
12,232.0	91.30	359.30	11,815.8	441.0	461.4	367,431.84	688,847.57	32° 0' 31.395 N	103° 43' 26.704 W
12,327.0	89.60	6.00	11,815.0	535.8	465.8	367,526.68	688,851.96	32° 0' 32.333 N	103° 43' 26.647 W
12,358.0	88.90	6.50	11,815.4	566.6	469.1	367,557.49	688,855.33	32° 0' 32.638 N	103° 43' 26.606 W

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Golden Spur WC 25 #2H
Project:	Lea County, New Mexico	TVD Reference:	WELL @ 3171.0usft (H&P #486)
Site:	Sec 25, T26S, 31E	MD Reference:	WELL @ 3171.0usft (H&P #486)
Well:	Golden Spur WC 25 #2H	North Reference:	Grid
Wellbore:	Curve & Lateral ST 01	Survey Calculation Method:	Minimum Curvature
Design:	Curve & Lateral ST 01	Database:	EDM 5000.1 Single User Db

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
12,422.0	89.80	7.40	11,816.1	630.2	476.9	367,621.01	688,863.08	32° 0' 33.266 N	103° 43' 26.512 W
12,516.0	88.60	5.10	11,817.5	723.6	487.1	367,714.44	688,873.31	32° 0' 34.190 N	103° 43' 26.387 W
12,611.0	89.30	5.40	11,819.2	818.2	495.8	367,809.02	688,882.00	32° 0' 35.126 N	103° 43' 26.280 W
12,706.0	88.70	4.00	11,820.9	912.8	503.6	367,903.69	688,889.78	32° 0' 36.062 N	103° 43' 26.183 W
12,801.0	85.70	358.60	11,825.5	1,007.7	505.7	367,998.50	688,891.94	32° 0' 37.000 N	103° 43' 26.152 W
12,895.0	87.10	357.70	11,831.4	1,101.4	502.7	368,092.26	688,888.91	32° 0' 37.928 N	103° 43' 26.181 W
12,990.0	87.80	357.20	11,835.6	1,196.2	498.5	368,187.07	688,884.69	32° 0' 38.867 N	103° 43' 26.224 W
13,084.0	90.00	357.00	11,837.4	1,290.1	493.7	368,280.93	688,879.94	32° 0' 39.796 N	103° 43' 26.273 W
13,178.0	91.00	0.20	11,836.6	1,384.0	491.4	368,374.89	688,877.64	32° 0' 40.726 N	103° 43' 26.293 W
13,272.0	87.40	358.80	11,837.9	1,478.0	490.6	368,468.86	688,876.82	32° 0' 41.656 N	103° 43' 26.297 W
13,367.0	87.80	357.90	11,841.9	1,572.9	487.9	368,563.73	688,874.09	32° 0' 42.595 N	103° 43' 26.322 W
13,462.0	88.90	357.70	11,844.6	1,667.8	484.2	368,658.62	688,870.44	32° 0' 43.534 N	103° 43' 26.358 W
13,556.0	87.80	359.50	11,847.3	1,761.7	481.9	368,752.55	688,868.14	32° 0' 44.464 N	103° 43' 26.379 W
13,650.0	88.30	359.50	11,850.5	1,855.6	481.1	368,846.49	688,867.32	32° 0' 45.394 N	103° 43' 26.382 W
13,745.0	89.50	0.30	11,852.4	1,950.6	481.0	368,941.47	688,867.16	32° 0' 46.333 N	103° 43' 26.378 W
13,840.0	91.30	3.50	11,851.7	2,045.5	484.1	369,036.40	688,870.31	32° 0' 47.273 N	103° 43' 26.335 W
13,934.0	88.60	1.00	11,851.8	2,139.5	487.8	369,130.31	688,874.00	32° 0' 48.202 N	103° 43' 26.286 W
14,029.0	88.60	1.90	11,854.1	2,234.4	490.2	369,225.25	688,876.40	32° 0' 49.141 N	103° 43' 26.252 W
14,123.0	88.80	2.50	11,856.2	2,328.3	493.8	369,319.16	688,880.01	32° 0' 50.070 N	103° 43' 26.204 W
14,215.0	88.60	2.80	11,858.3	2,420.2	498.1	369,411.03	688,884.26	32° 0' 50.979 N	103° 43' 26.149 W
14,310.0	89.60	2.10	11,859.8	2,515.1	502.1	369,505.93	688,888.32	32° 0' 51.918 N	103° 43' 26.095 W
14,404.0	90.90	3.00	11,859.4	2,609.0	506.3	369,599.84	688,892.50	32° 0' 52.847 N	103° 43' 26.041 W
14,499.0	90.10	1.90	11,858.6	2,703.9	510.4	369,694.74	688,896.56	32° 0' 53.786 N	103° 43' 25.987 W
14,594.0	89.40	3.30	11,859.0	2,798.8	514.7	369,789.64	688,900.87	32° 0' 54.725 N	103° 43' 25.931 W
14,689.0	89.80	2.80	11,859.7	2,893.7	519.7	369,884.51	688,905.93	32° 0' 55.664 N	103° 43' 25.866 W
14,784.0	89.10	2.10	11,860.6	2,988.6	523.8	369,979.41	688,909.99	32° 0' 56.603 N	103° 43' 25.813 W
14,879.0	89.40	2.10	11,861.8	3,083.5	527.3	370,074.34	688,913.47	32° 0' 57.542 N	103° 43' 25.766 W
15,003.0	87.70	0.70	11,865.0	3,207.4	530.3	370,198.26	688,916.50	32° 0' 58.768 N	103° 43' 25.723 W
15,097.0	88.50	0.30	11,868.1	3,301.4	531.1	370,292.20	688,917.32	32° 0' 59.698 N	103° 43' 25.707 W
15,192.0	89.80	359.80	11,869.5	3,396.3	531.2	370,387.19	688,917.40	32° 1' 0.638 N	103° 43' 25.700 W
15,286.0	91.60	1.00	11,868.3	3,490.3	531.9	370,481.17	688,918.06	32° 1' 1.568 N	103° 43' 25.686 W
15,381.0	90.10	0.50	11,866.9	3,585.3	533.1	370,576.15	688,919.30	32° 1' 2.508 N	103° 43' 25.665 W
15,476.0	90.30	359.80	11,866.6	3,680.3	533.3	370,671.15	688,919.55	32° 1' 3.448 N	103° 43' 25.656 W
15,571.0	87.40	1.20	11,868.5	3,775.3	534.2	370,766.11	688,920.38	32° 1' 4.387 N	103° 43' 25.640 W
15,665.0	89.30	0.20	11,871.2	3,869.2	535.3	370,860.06	688,921.52	32° 1' 5.317 N	103° 43' 25.621 W
15,760.0	89.70	0.90	11,872.0	3,964.2	536.2	370,955.05	688,922.44	32° 1' 6.257 N	103° 43' 25.604 W
15,855.0	90.10	0.30	11,872.2	4,059.2	537.2	371,050.05	688,923.43	32° 1' 7.197 N	103° 43' 25.586 W
15,949.0	90.00	359.80	11,872.1	4,153.2	537.3	371,144.05	688,923.51	32° 1' 8.127 N	103° 43' 25.579 W
15,958.0	90.00	359.65	11,872.1	4,162.2	537.3	371,153.05	688,923.47	32° 1' 8.216 N	103° 43' 25.579 W
LTP @ 15958 MD / 11872 TVD									
16,044.0	90.00	358.20	11,872.1	4,248.2	535.7	371,239.03	688,921.86	32° 1' 9.067 N	103° 43' 25.592 W
16,139.0	90.90	358.10	11,871.4	4,343.1	532.6	371,333.98	688,918.79	32° 1' 10.007 N	103° 43' 25.622 W
16,219.0	88.94	357.33	11,871.5	4,423.1	529.4	371,413.91	688,915.60	32° 1' 10.798 N	103° 43' 25.653 W
PBTD @ 16219 MD / 11872 TVD									
16,233.0	88.60	357.20	11,871.8	4,437.0	528.7	371,427.89	688,914.93	32° 1' 10.937 N	103° 43' 25.660 W
16,281.0	88.40	356.00	11,873.0	4,484.9	525.9	371,475.79	688,912.09	32° 1' 11.411 N	103° 43' 25.690 W
16,325.0	88.40	356.00	11,874.3	4,528.8	522.8	371,519.66	688,909.02	32° 1' 11.845 N	103° 43' 25.723 W
TD @ 16325 MD / 11874.3 TVD									

Company:	Conoco Phillips	Local Co-ordinate Reference:	Well Golden Spur WC 25 #2H
Project:	Lea County New Mexico	TVD Reference:	WELL @ 3171.0usft (H&P #486)
Site:	Sec 25, T26S, 31E	MD Reference:	WELL @ 3171.0usft (H&P #486)
Well:	Golden Spur WC 25 #2H	North Reference:	Grid
Wellbore:	Curve & Lateral ST 01	Survey Calculation Method:	Minimum Curvature
Design:	Curve & Lateral ST 01	Database:	EDM 5000.1 Single User Db

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
+N/-S (usft)	+E/-W (usft)			
11,126.0	11,081.0	-199.3	534.7	TIE IN @ 11126' MD / 11081' TVD
12,061.0	11,803.5	271.3	469.2	FTP @ 12061' MD / 11804' TVD
15,958.0	11,872.1	4,162.2	537.3	LTP @ 15958' MD / 11872' TVD
16,219.0	11,871.5	4,423.1	529.4	PBTD @ 16219' MD / 11872' TVD
16,325.0	11,874.3	4,528.8	522.8	TD @ 16325' MD / 11874.3' TVD

Checked By: _____	Approved By: _____	Date: _____
-------------------	--------------------	-------------