

# **DELAWARE BASIN SOUTH**

**LOVING/WINKLER COUNTY, TX**

**UL 20 GOLD SPOON**

**UL 20 GOLD SPOON #2901H**

**OWB**

**Design: AWP**

## **Survey Report - Geographic**

**21 February, 2023**

# ConocoPhillips

## Survey Report - Geographic

<b>Company:</b>	DELAWARE BASIN SOUTH	<b>Local Co-ordinate Reference:</b>	Well UL 20 GOLD SPOON #2901H
<b>Project:</b>	LOVING/WINKLER COUNTY, TX	<b>TVD Reference:</b>	KB=26 @ 2819.6usft
<b>Site:</b>	UL 20 GOLD SPOON	<b>MD Reference:</b>	KB=26 @ 2819.6usft
<b>Well:</b>	UL 20 GOLD SPOON #2901H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWP	<b>Database:</b>	EDT 17 Central Planning Prod

<b>Project</b>	LOVING/WINKLER COUNTY, TX		
<b>Map System:</b>	US State Plane 1927 (Exact solution)	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	NAD 1927 (NADCON CONUS)		
<b>Map Zone:</b>	Texas Central 4203		

<b>Site</b>	UL 20 GOLD SPOON		
<b>Site Position:</b>		<b>Northing:</b>	742,094.09 usft
<b>From:</b>	Map	<b>Easting:</b>	1,065,239.42 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	31° 40' 20.574 N
		<b>Longitude:</b>	103° 20' 18.058 W
		<b>Grid Convergence:</b>	-1.55 °

<b>Well</b>	UL 20 GOLD SPOON #2901H		
<b>Well Position</b>	<b>+N/-S</b>	0.0 usft	<b>Northing:</b>
	<b>+E/-W</b>	0.0 usft	<b>Easting:</b>
<b>Position Uncertainty</b>	3.0 usft		<b>Wellhead Elevation:</b>
			<b>Latitude:</b>
			<b>Longitude:</b>
			<b>Ground Level:</b>

<b>Wellbore</b>	OWB		
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination</b>
			(°)
	BGGM2022	1/15/2023	6.56
			<b>Dip Angle</b>
			(°)
			59.33
			<b>Field Strength</b>
			(nT)
			47,002.49820007

<b>Design</b>	AWP		
<b>Audit Notes:</b>			
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL
		<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD)</b>	<b>+N/-S</b>	<b>+E/-W</b>
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			<b>Direction</b>
			(°)
			342.67

<b>Survey Program</b>	<b>Date</b>	2/21/2023		
<b>From</b>	<b>To</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>
(usft)	(usft)			
100.0	11,000.0	GYRO INT (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp.-Initilzd Cont. rev.5
11,050.0	16,770.0	MWD CRV/LAT (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5

<b>Survey</b>									
<b>Measured</b>	<b>Inclination</b>	<b>Azimuth</b>	<b>Vertical</b>	<b>+N/-S</b>	<b>+E/-W</b>	<b>Map</b>	<b>Map</b>		
<b>Depth</b>	(°)	(°)	<b>Depth</b>	(usft)	(usft)	<b>Northing</b>	<b>Easting</b>	<b>Latitude</b>	<b>Longitude</b>
(usft)			(usft)			(usft)	(usft)		
0.0	0.00	0.00	0.0	0.0	0.0	742,094.11	1,065,239.42	31° 40' 20.574 N	103° 20' 18.058 W
100.0	0.54	140.94	100.0	-0.4	0.3	742,093.74	1,065,239.72	31° 40' 20.570 N	103° 20' 18.054 W
125.0	0.17	270.41	125.0	-0.5	0.3	742,093.65	1,065,239.76	31° 40' 20.569 N	103° 20' 18.054 W
150.0	0.10	244.39	150.0	-0.5	0.3	742,093.64	1,065,239.70	31° 40' 20.569 N	103° 20' 18.054 W
175.0	0.17	288.29	175.0	-0.5	0.2	742,093.64	1,065,239.65	31° 40' 20.569 N	103° 20' 18.055 W
200.0	0.23	295.70	200.0	-0.4	0.1	742,093.68	1,065,239.57	31° 40' 20.570 N	103° 20' 18.056 W
225.0	0.20	295.91	225.0	-0.4	0.1	742,093.72	1,065,239.48	31° 40' 20.570 N	103° 20' 18.057 W
250.0	0.26	303.48	250.0	-0.3	0.0	742,093.77	1,065,239.39	31° 40' 20.570 N	103° 20' 18.058 W
275.0	0.23	310.62	275.0	-0.3	-0.1	742,093.83	1,065,239.31	31° 40' 20.571 N	103° 20' 18.059 W
300.0	0.19	312.85	300.0	-0.2	-0.2	742,093.89	1,065,239.24	31° 40' 20.572 N	103° 20' 18.060 W
325.0	0.24	306.75	325.0	-0.2	-0.3	742,093.95	1,065,239.17	31° 40' 20.572 N	103° 20' 18.061 W

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<b>Project:</b>	LOVING/WINKLER COUNTY, TX	<b>TVD Reference:</b>	KB=26 @ 2819.6usft
<b>Site:</b>	UL 20 GOLD SPOON	<b>MD Reference:</b>	KB=26 @ 2819.6usft
<b>Well:</b>	UL 20 GOLD SPOON #2901H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWP	<b>Database:</b>	EDT 17 Central Planning Prod

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
350.0	0.23	317.28	350.0	-0.1	-0.3	742,094.02	1,065,239.09	31° 40' 20.573 N	103° 20' 18.062 W	
375.0	0.27	307.44	375.0	0.0	-0.4	742,094.09	1,065,239.01	31° 40' 20.574 N	103° 20' 18.063 W	
400.0	0.25	306.04	400.0	0.1	-0.5	742,094.16	1,065,238.92	31° 40' 20.574 N	103° 20' 18.064 W	
425.0	0.27	311.57	425.0	0.1	-0.6	742,094.23	1,065,238.83	31° 40' 20.575 N	103° 20' 18.065 W	
450.0	0.28	319.18	450.0	0.2	-0.7	742,094.32	1,065,238.75	31° 40' 20.576 N	103° 20' 18.066 W	
475.0	0.17	330.06	475.0	0.3	-0.7	742,094.40	1,065,238.69	31° 40' 20.576 N	103° 20' 18.066 W	
500.0	0.23	318.81	500.0	0.4	-0.8	742,094.46	1,065,238.64	31° 40' 20.577 N	103° 20' 18.067 W	
525.0	0.18	313.25	525.0	0.4	-0.8	742,094.53	1,065,238.58	31° 40' 20.578 N	103° 20' 18.068 W	
550.0	0.25	320.37	550.0	0.5	-0.9	742,094.60	1,065,238.51	31° 40' 20.578 N	103° 20' 18.068 W	
575.0	0.34	325.19	575.0	0.6	-1.0	742,094.70	1,065,238.44	31° 40' 20.579 N	103° 20' 18.069 W	
600.0	0.39	319.19	600.0	0.7	-1.1	742,094.83	1,065,238.34	31° 40' 20.581 N	103° 20' 18.071 W	
625.0	0.46	319.76	625.0	0.9	-1.2	742,094.97	1,065,238.22	31° 40' 20.582 N	103° 20' 18.072 W	
650.0	0.35	319.60	650.0	1.0	-1.3	742,095.10	1,065,238.10	31° 40' 20.583 N	103° 20' 18.073 W	
675.0	0.35	322.66	675.0	1.1	-1.4	742,095.22	1,065,238.01	31° 40' 20.584 N	103° 20' 18.075 W	
700.0	0.42	321.72	700.0	1.2	-1.5	742,095.35	1,065,237.90	31° 40' 20.586 N	103° 20' 18.076 W	
725.0	0.47	315.73	725.0	1.4	-1.6	742,095.50	1,065,237.78	31° 40' 20.587 N	103° 20' 18.077 W	
750.0	0.48	321.65	750.0	1.5	-1.8	742,095.65	1,065,237.64	31° 40' 20.589 N	103° 20' 18.079 W	
775.0	0.58	312.62	775.0	1.7	-1.9	742,095.82	1,065,237.48	31° 40' 20.590 N	103° 20' 18.081 W	
800.0	0.44	313.41	800.0	1.9	-2.1	742,095.97	1,065,237.32	31° 40' 20.592 N	103° 20' 18.083 W	
825.0	0.60	312.49	825.0	2.0	-2.3	742,096.13	1,065,237.15	31° 40' 20.593 N	103° 20' 18.085 W	
850.0	0.46	313.08	850.0	2.2	-2.4	742,096.29	1,065,236.98	31° 40' 20.595 N	103° 20' 18.087 W	
875.0	0.52	311.24	875.0	2.3	-2.6	742,096.43	1,065,236.82	31° 40' 20.596 N	103° 20' 18.089 W	
900.0	0.61	308.47	900.0	2.5	-2.8	742,096.59	1,065,236.63	31° 40' 20.598 N	103° 20' 18.091 W	
925.0	0.64	309.05	925.0	2.7	-3.0	742,096.76	1,065,236.42	31° 40' 20.599 N	103° 20' 18.093 W	
950.0	0.53	309.81	950.0	2.8	-3.2	742,096.92	1,065,236.23	31° 40' 20.601 N	103° 20' 18.096 W	
975.0	0.55	310.79	975.0	3.0	-3.4	742,097.07	1,065,236.05	31° 40' 20.602 N	103° 20' 18.098 W	
1,000.0	0.57	311.46	1,000.0	3.1	-3.6	742,097.23	1,065,235.86	31° 40' 20.604 N	103° 20' 18.100 W	
1,025.0	0.51	302.99	1,025.0	3.3	-3.7	742,097.38	1,065,235.67	31° 40' 20.605 N	103° 20' 18.102 W	
1,050.0	0.68	299.94	1,050.0	3.4	-4.0	742,097.51	1,065,235.45	31° 40' 20.606 N	103° 20' 18.105 W	
1,075.0	0.72	296.63	1,075.0	3.5	-4.2	742,097.65	1,065,235.18	31° 40' 20.608 N	103° 20' 18.108 W	
1,100.0	0.69	296.40	1,100.0	3.7	-4.5	742,097.79	1,065,234.91	31° 40' 20.609 N	103° 20' 18.111 W	
1,125.0	0.81	298.90	1,125.0	3.8	-4.8	742,097.94	1,065,234.62	31° 40' 20.610 N	103° 20' 18.115 W	
1,150.0	0.77	297.78	1,150.0	4.0	-5.1	742,098.11	1,065,234.32	31° 40' 20.612 N	103° 20' 18.118 W	
1,175.0	0.78	299.18	1,175.0	4.2	-5.4	742,098.27	1,065,234.02	31° 40' 20.614 N	103° 20' 18.122 W	
1,200.0	0.78	297.79	1,200.0	4.3	-5.7	742,098.43	1,065,233.72	31° 40' 20.615 N	103° 20' 18.125 W	
1,225.0	0.75	292.30	1,225.0	4.5	-6.0	742,098.57	1,065,233.42	31° 40' 20.616 N	103° 20' 18.129 W	
1,250.0	0.73	295.65	1,250.0	4.6	-6.3	742,098.70	1,065,233.12	31° 40' 20.618 N	103° 20' 18.132 W	
1,275.0	0.75	300.38	1,275.0	4.7	-6.6	742,098.86	1,065,232.84	31° 40' 20.619 N	103° 20' 18.135 W	
1,300.0	0.76	293.25	1,300.0	4.9	-6.9	742,099.00	1,065,232.54	31° 40' 20.620 N	103° 20' 18.139 W	
1,325.0	0.76	297.70	1,325.0	5.0	-7.2	742,099.15	1,065,232.25	31° 40' 20.622 N	103° 20' 18.142 W	
1,350.0	0.84	301.62	1,350.0	5.2	-7.5	742,099.32	1,065,231.94	31° 40' 20.623 N	103° 20' 18.146 W	
1,375.0	0.78	300.06	1,374.9	5.4	-7.8	742,099.50	1,065,231.64	31° 40' 20.625 N	103° 20' 18.150 W	
1,400.0	0.84	304.26	1,399.9	5.6	-8.1	742,099.69	1,065,231.34	31° 40' 20.627 N	103° 20' 18.153 W	
1,425.0	0.85	303.88	1,424.9	5.8	-8.4	742,099.90	1,065,231.04	31° 40' 20.629 N	103° 20' 18.157 W	
1,450.0	0.86	306.32	1,449.9	6.0	-8.7	742,100.11	1,065,230.73	31° 40' 20.631 N	103° 20' 18.160 W	
1,475.0	0.93	303.94	1,474.9	6.2	-9.0	742,100.33	1,065,230.41	31° 40' 20.633 N	103° 20' 18.164 W	
1,500.0	0.93	306.72	1,499.9	6.5	-9.3	742,100.57	1,065,230.08	31° 40' 20.635 N	103° 20' 18.168 W	
1,525.0	0.96	313.01	1,524.9	6.7	-9.7	742,100.83	1,065,229.76	31° 40' 20.638 N	103° 20' 18.172 W	
1,550.0	1.03	319.83	1,549.9	7.0	-10.0	742,101.15	1,065,229.47	31° 40' 20.641 N	103° 20' 18.175 W	
1,575.0	1.01	325.14	1,574.9	7.4	-10.2	742,101.50	1,065,229.19	31° 40' 20.644 N	103° 20' 18.178 W	
1,600.0	0.88	329.02	1,599.9	7.7	-10.5	742,101.85	1,065,228.97	31° 40' 20.648 N	103° 20' 18.181 W	
1,625.0	0.87	332.21	1,624.9	8.1	-10.6	742,102.18	1,065,228.78	31° 40' 20.651 N	103° 20' 18.183 W	
1,650.0	0.89	333.23	1,649.9	8.4	-10.8	742,102.52	1,065,228.61	31° 40' 20.654 N	103° 20' 18.186 W	
1,675.0	0.87	336.90	1,674.9	8.8	-11.0	742,102.87	1,065,228.44	31° 40' 20.658 N	103° 20' 18.188 W	
1,700.0	0.81	340.45	1,699.9	9.1	-11.1	742,103.21	1,065,228.31	31° 40' 20.661 N	103° 20' 18.189 W	

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## Survey Report - Geographic

<b>Company:</b>	DELAWARE BASIN SOUTH	<b>Local Co-ordinate Reference:</b>	Well UL 20 GOLD SPOON #2901H
<b>Project:</b>	LOVING/WINKLER COUNTY, TX	<b>TVD Reference:</b>	KB=26 @ 2819.6usft
<b>Site:</b>	UL 20 GOLD SPOON	<b>MD Reference:</b>	KB=26 @ 2819.6usft
<b>Well:</b>	UL 20 GOLD SPOON #2901H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWP	<b>Database:</b>	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
1,725.0	0.87	339.25	1,724.9	9.4	-11.2	742,103.55	1,065,228.18	31° 40' 20.664 N	103° 20' 18.191 W
1,750.0	0.82	338.29	1,749.9	9.8	-11.4	742,103.90	1,065,228.05	31° 40' 20.668 N	103° 20' 18.192 W
1,775.0	0.44	327.64	1,774.9	10.0	-11.5	742,104.14	1,065,227.93	31° 40' 20.670 N	103° 20' 18.194 W
1,800.0	1.46	179.46	1,799.9	9.8	-11.5	742,103.91	1,065,227.89	31° 40' 20.668 N	103° 20' 18.194 W
1,825.0	3.06	173.97	1,824.9	8.8	-11.5	742,102.92	1,065,227.96	31° 40' 20.658 N	103° 20' 18.193 W
1,850.0	3.52	172.43	1,849.8	7.4	-11.3	742,101.50	1,065,228.13	31° 40' 20.644 N	103° 20' 18.191 W
1,875.0	3.54	173.59	1,874.8	5.9	-11.1	742,099.97	1,065,228.32	31° 40' 20.629 N	103° 20' 18.188 W
1,900.0	3.68	171.22	1,899.7	4.3	-10.9	742,098.41	1,065,228.53	31° 40' 20.613 N	103° 20' 18.185 W
1,925.0	3.59	171.99	1,924.7	2.7	-10.7	742,096.84	1,065,228.76	31° 40' 20.598 N	103° 20' 18.182 W
1,950.0	3.54	173.11	1,949.6	1.2	-10.5	742,095.30	1,065,228.96	31° 40' 20.583 N	103° 20' 18.179 W
1,975.0	3.92	174.41	1,974.6	-0.4	-10.3	742,093.69	1,065,229.13	31° 40' 20.567 N	103° 20' 18.177 W
2,000.0	5.07	175.10	1,999.5	-2.4	-10.1	742,091.73	1,065,229.31	31° 40' 20.548 N	103° 20' 18.174 W
2,025.0	5.64	174.78	2,024.4	-4.7	-9.9	742,089.41	1,065,229.52	31° 40' 20.525 N	103° 20' 18.171 W
2,050.0	5.58	175.50	2,049.3	-7.1	-9.7	742,086.98	1,065,229.73	31° 40' 20.501 N	103° 20' 18.168 W
2,075.0	5.58	174.68	2,074.2	-9.6	-9.5	742,084.55	1,065,229.93	31° 40' 20.477 N	103° 20' 18.165 W
2,100.0	5.52	173.48	2,099.0	-12.0	-9.2	742,082.15	1,065,230.18	31° 40' 20.453 N	103° 20' 18.161 W
2,125.0	5.26	172.01	2,123.9	-14.3	-8.9	742,079.82	1,065,230.48	31° 40' 20.430 N	103° 20' 18.157 W
2,150.0	5.06	172.23	2,148.8	-16.5	-8.6	742,077.59	1,065,230.79	31° 40' 20.408 N	103° 20' 18.153 W
2,175.0	5.11	170.89	2,173.7	-18.7	-8.3	742,075.40	1,065,231.11	31° 40' 20.387 N	103° 20' 18.148 W
2,200.0	5.04	170.99	2,198.6	-20.9	-8.0	742,073.22	1,065,231.46	31° 40' 20.365 N	103° 20' 18.143 W
2,225.0	5.02	170.09	2,223.5	-23.1	-7.6	742,071.05	1,065,231.82	31° 40' 20.344 N	103° 20' 18.139 W
2,250.0	4.74	167.02	2,248.5	-25.1	-7.2	742,068.97	1,065,232.24	31° 40' 20.323 N	103° 20' 18.133 W
2,275.0	4.53	163.70	2,273.4	-27.1	-6.7	742,067.02	1,065,232.75	31° 40' 20.304 N	103° 20' 18.127 W
2,300.0	4.47	161.97	2,298.3	-29.0	-6.1	742,065.14	1,065,233.33	31° 40' 20.286 N	103° 20' 18.119 W
2,325.0	4.11	160.55	2,323.2	-30.7	-5.5	742,063.37	1,065,233.93	31° 40' 20.268 N	103° 20' 18.112 W
2,350.0	3.89	156.46	2,348.2	-32.4	-4.9	742,061.75	1,065,234.57	31° 40' 20.252 N	103° 20' 18.104 W
2,375.0	3.95	155.56	2,373.1	-33.9	-4.2	742,060.19	1,065,235.26	31° 40' 20.237 N	103° 20' 18.095 W
2,400.0	3.90	157.16	2,398.0	-35.5	-3.5	742,058.62	1,065,235.95	31° 40' 20.222 N	103° 20' 18.087 W
2,425.0	3.84	157.02	2,423.0	-37.0	-2.8	742,057.07	1,065,236.60	31° 40' 20.207 N	103° 20' 18.079 W
2,450.0	3.75	157.73	2,447.9	-38.6	-2.2	742,055.54	1,065,237.24	31° 40' 20.192 N	103° 20' 18.071 W
2,475.0	4.37	157.25	2,472.9	-40.2	-1.5	742,053.90	1,065,237.92	31° 40' 20.176 N	103° 20' 18.063 W
2,500.0	5.84	171.56	2,497.8	-42.3	-1.0	742,051.77	1,065,238.47	31° 40' 20.155 N	103° 20' 18.056 W
2,525.0	6.65	177.22	2,522.6	-45.0	-0.7	742,049.06	1,065,238.73	31° 40' 20.128 N	103° 20' 18.052 W
2,550.0	6.96	177.68	2,547.4	-48.0	-0.6	742,046.10	1,065,238.86	31° 40' 20.099 N	103° 20' 18.049 W
2,575.0	6.98	178.07	2,572.3	-51.0	-0.4	742,043.07	1,065,238.97	31° 40' 20.069 N	103° 20' 18.047 W
2,600.0	7.06	177.56	2,597.1	-54.1	-0.3	742,040.02	1,065,239.09	31° 40' 20.039 N	103° 20' 18.045 W
2,625.0	6.84	174.60	2,621.9	-57.1	-0.1	742,037.00	1,065,239.30	31° 40' 20.009 N	103° 20' 18.041 W
2,650.0	6.64	171.97	2,646.7	-60.0	0.2	742,034.09	1,065,239.64	31° 40' 19.980 N	103° 20' 18.037 W
2,675.0	6.40	168.34	2,671.6	-62.8	0.7	742,031.29	1,065,240.12	31° 40' 19.953 N	103° 20' 18.030 W
2,700.0	6.38	167.00	2,696.4	-65.5	1.3	742,028.57	1,065,240.72	31° 40' 19.926 N	103° 20' 18.022 W
2,725.0	6.38	165.22	2,721.2	-68.2	2.0	742,025.88	1,065,241.38	31° 40' 19.899 N	103° 20' 18.014 W
2,750.0	6.33	165.23	2,746.1	-70.9	2.7	742,023.20	1,065,242.09	31° 40' 19.873 N	103° 20' 18.005 W
2,775.0	6.04	166.54	2,770.9	-73.5	3.3	742,020.59	1,065,242.75	31° 40' 19.847 N	103° 20' 17.996 W
2,800.0	5.86	166.51	2,795.8	-76.0	3.9	742,018.07	1,065,243.35	31° 40' 19.823 N	103° 20' 17.989 W
2,825.0	5.83	166.84	2,820.7	-78.5	4.5	742,015.59	1,065,243.94	31° 40' 19.798 N	103° 20' 17.981 W
2,850.0	5.72	169.12	2,845.6	-81.0	5.0	742,013.13	1,065,244.46	31° 40' 19.774 N	103° 20' 17.974 W
2,875.0	5.98	179.18	2,870.4	-83.5	5.3	742,010.61	1,065,244.71	31° 40' 19.749 N	103° 20' 17.971 W
2,900.0	6.36	189.34	2,895.3	-86.2	5.1	742,007.94	1,065,244.51	31° 40' 19.723 N	103° 20' 17.972 W
2,925.0	6.73	192.81	2,920.1	-89.0	4.5	742,005.14	1,065,243.96	31° 40' 19.695 N	103° 20' 17.978 W
2,950.0	6.85	193.62	2,944.9	-91.8	3.9	742,002.27	1,065,243.28	31° 40' 19.666 N	103° 20' 17.984 W
2,975.0	6.82	193.71	2,969.8	-94.7	3.2	741,999.38	1,065,242.58	31° 40' 19.637 N	103° 20' 17.992 W
3,000.0	6.84	193.05	2,994.6	-97.6	2.5	741,996.48	1,065,241.89	31° 40' 19.609 N	103° 20' 17.999 W
3,025.0	6.59	192.58	3,019.4	-100.5	1.8	741,993.63	1,065,241.24	31° 40' 19.580 N	103° 20' 18.005 W
3,050.0	6.48	192.79	3,044.3	-103.2	1.2	741,990.86	1,065,240.62	31° 40' 19.553 N	103° 20' 18.012 W
3,075.0	6.08	194.42	3,069.1	-105.9	0.6	741,988.20	1,065,239.98	31° 40' 19.526 N	103° 20' 18.018 W

# ConocoPhillips

## Survey Report - Geographic

<b>Company:</b>	DELAWARE BASIN SOUTH	<b>Local Co-ordinate Reference:</b>	Well UL 20 GOLD SPOON #2901H
<b>Project:</b>	LOVING/WINKLER COUNTY, TX	<b>TVD Reference:</b>	KB=26 @ 2819.6usft
<b>Site:</b>	UL 20 GOLD SPOON	<b>MD Reference:</b>	KB=26 @ 2819.6usft
<b>Well:</b>	UL 20 GOLD SPOON #2901H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWP	<b>Database:</b>	EDT 17 Central Planning Prod

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
3,100.0	5.74	195.84	3,094.0	-108.4	-0.1	741,985.71	1,065,239.31	31° 40' 19.501 N	103° 20' 18.025 W	
3,125.0	5.71	196.05	3,118.8	-110.8	-0.8	741,983.32	1,065,238.62	31° 40' 19.478 N	103° 20' 18.032 W	
3,150.0	5.77	195.47	3,143.7	-113.2	-1.5	741,980.91	1,065,237.94	31° 40' 19.454 N	103° 20' 18.040 W	
3,175.0	5.76	196.11	3,168.6	-115.6	-2.2	741,978.49	1,065,237.26	31° 40' 19.429 N	103° 20' 18.047 W	
3,200.0	5.77	195.65	3,193.5	-118.0	-2.9	741,976.08	1,065,236.57	31° 40' 19.405 N	103° 20' 18.054 W	
3,225.0	5.61	195.92	3,218.3	-120.4	-3.5	741,973.69	1,065,235.90	31° 40' 19.382 N	103° 20' 18.061 W	
3,250.0	5.42	197.56	3,243.2	-122.7	-4.2	741,971.39	1,065,235.21	31° 40' 19.359 N	103° 20' 18.068 W	
3,275.0	5.35	196.88	3,268.1	-125.0	-4.9	741,969.15	1,065,234.51	31° 40' 19.336 N	103° 20' 18.076 W	
3,300.0	5.21	197.86	3,293.0	-127.2	-5.6	741,966.96	1,065,233.82	31° 40' 19.314 N	103° 20' 18.083 W	
3,325.0	5.08	200.60	3,317.9	-129.3	-6.3	741,964.84	1,065,233.09	31° 40' 19.293 N	103° 20' 18.091 W	
3,350.0	5.04	205.68	3,342.8	-131.3	-7.2	741,962.81	1,065,232.22	31° 40' 19.273 N	103° 20' 18.100 W	
3,375.0	5.11	206.65	3,367.7	-133.3	-8.2	741,960.83	1,065,231.25	31° 40' 19.253 N	103° 20' 18.111 W	
3,400.0	5.06	206.78	3,392.6	-135.3	-9.2	741,958.85	1,065,230.25	31° 40' 19.233 N	103° 20' 18.122 W	
3,425.0	4.84	206.95	3,417.5	-137.2	-10.1	741,956.93	1,065,229.28	31° 40' 19.214 N	103° 20' 18.132 W	
3,450.0	4.49	206.76	3,442.4	-139.0	-11.1	741,955.11	1,065,228.36	31° 40' 19.196 N	103° 20' 18.142 W	
3,475.0	4.30	203.37	3,467.4	-140.7	-11.9	741,953.38	1,065,227.55	31° 40' 19.178 N	103° 20' 18.151 W	
3,500.0	3.95	200.47	3,492.3	-142.4	-12.6	741,951.71	1,065,226.87	31° 40' 19.162 N	103° 20' 18.158 W	
3,525.0	3.56	199.26	3,517.3	-143.9	-13.1	741,950.17	1,065,226.31	31° 40' 19.146 N	103° 20' 18.164 W	
3,550.0	3.24	193.19	3,542.2	-145.4	-13.5	741,948.75	1,065,225.90	31° 40' 19.132 N	103° 20' 18.169 W	
3,575.0	3.01	184.03	3,567.2	-146.7	-13.7	741,947.41	1,065,225.69	31° 40' 19.119 N	103° 20' 18.171 W	
3,600.0	2.80	181.23	3,592.1	-148.0	-13.8	741,946.14	1,065,225.63	31° 40' 19.106 N	103° 20' 18.171 W	
3,625.0	2.57	180.71	3,617.1	-149.1	-13.8	741,944.97	1,065,225.61	31° 40' 19.095 N	103° 20' 18.171 W	
3,650.0	2.23	186.31	3,642.1	-150.2	-13.9	741,943.93	1,065,225.55	31° 40' 19.084 N	103° 20' 18.171 W	
3,675.0	1.95	193.40	3,667.1	-151.1	-14.0	741,943.03	1,065,225.40	31° 40' 19.075 N	103° 20' 18.173 W	
3,700.0	1.93	195.33	3,692.1	-151.9	-14.2	741,942.21	1,065,225.19	31° 40' 19.067 N	103° 20' 18.175 W	
3,725.0	1.73	201.42	3,717.0	-152.7	-14.5	741,941.45	1,065,224.94	31° 40' 19.060 N	103° 20' 18.178 W	
3,750.0	1.59	217.50	3,742.0	-153.3	-14.8	741,940.83	1,065,224.59	31° 40' 19.053 N	103° 20' 18.181 W	
3,775.0	1.51	215.52	3,767.0	-153.8	-15.2	741,940.28	1,065,224.19	31° 40' 19.048 N	103° 20' 18.186 W	
3,800.0	1.47	226.61	3,792.0	-154.3	-15.7	741,939.80	1,065,223.76	31° 40' 19.043 N	103° 20' 18.191 W	
3,825.0	1.38	237.70	3,817.0	-154.7	-16.1	741,939.41	1,065,223.28	31° 40' 19.039 N	103° 20' 18.196 W	
3,850.0	1.37	248.15	3,842.0	-155.0	-16.7	741,939.14	1,065,222.74	31° 40' 19.036 N	103° 20' 18.202 W	
3,875.0	1.33	253.96	3,867.0	-155.2	-17.2	741,938.95	1,065,222.19	31° 40' 19.034 N	103° 20' 18.209 W	
3,900.0	1.30	258.30	3,892.0	-155.3	-17.8	741,938.81	1,065,221.63	31° 40' 19.033 N	103° 20' 18.215 W	
3,925.0	0.74	243.82	3,917.0	-155.4	-18.2	741,938.68	1,065,221.21	31° 40' 19.031 N	103° 20' 18.220 W	
3,950.0	0.32	136.04	3,942.0	-155.5	-18.3	741,938.56	1,065,221.11	31° 40' 19.030 N	103° 20' 18.221 W	
3,975.0	1.53	102.63	3,967.0	-155.7	-17.9	741,938.44	1,065,221.49	31° 40' 19.029 N	103° 20' 18.217 W	
4,000.0	2.42	98.46	3,992.0	-155.8	-17.1	741,938.29	1,065,222.33	31° 40' 19.028 N	103° 20' 18.207 W	
4,025.0	3.32	97.48	4,016.9	-156.0	-15.8	741,938.12	1,065,223.57	31° 40' 19.026 N	103° 20' 18.192 W	
4,050.0	3.92	96.43	4,041.9	-156.2	-14.3	741,937.93	1,065,225.14	31° 40' 19.025 N	103° 20' 18.174 W	
4,075.0	4.16	94.93	4,066.8	-156.4	-12.5	741,937.75	1,065,226.89	31° 40' 19.024 N	103° 20' 18.154 W	
4,100.0	4.70	95.29	4,091.7	-156.5	-10.6	741,937.58	1,065,228.82	31° 40' 19.022 N	103° 20' 18.132 W	
4,125.0	5.01	96.52	4,116.7	-156.7	-8.5	741,937.36	1,065,230.92	31° 40' 19.021 N	103° 20' 18.107 W	
4,150.0	4.99	96.21	4,141.6	-157.0	-6.3	741,937.12	1,065,233.09	31° 40' 19.019 N	103° 20' 18.082 W	
4,175.0	5.02	95.84	4,166.5	-157.2	-4.2	741,936.89	1,065,235.26	31° 40' 19.017 N	103° 20' 18.057 W	
4,200.0	4.83	97.53	4,191.4	-157.5	-2.0	741,936.64	1,065,237.39	31° 40' 19.015 N	103° 20' 18.032 W	
4,225.0	4.66	100.41	4,216.3	-157.8	0.0	741,936.32	1,065,239.43	31° 40' 19.013 N	103° 20' 18.008 W	
4,250.0	4.67	114.68	4,241.2	-158.4	1.9	741,935.71	1,065,241.35	31° 40' 19.007 N	103° 20' 17.986 W	
4,275.0	4.36	133.92	4,266.1	-159.5	3.5	741,934.63	1,065,242.96	31° 40' 18.997 N	103° 20' 17.967 W	
4,300.0	4.44	154.27	4,291.1	-161.0	4.6	741,933.10	1,065,244.07	31° 40' 18.982 N	103° 20' 17.954 W	
4,325.0	4.22	161.46	4,316.0	-162.8	5.4	741,931.35	1,065,244.78	31° 40' 18.965 N	103° 20' 17.945 W	
4,350.0	4.08	165.45	4,340.9	-164.5	5.9	741,929.62	1,065,245.30	31° 40' 18.948 N	103° 20' 17.938 W	
4,375.0	4.18	164.86	4,365.9	-166.2	6.3	741,927.88	1,065,245.76	31° 40' 18.931 N	103° 20' 17.933 W	
4,400.0	4.25	164.94	4,390.8	-168.0	6.8	741,926.11	1,065,246.24	31° 40' 18.914 N	103° 20' 17.926 W	
4,425.0	4.14	165.28	4,415.7	-169.8	7.3	741,924.34	1,065,246.71	31° 40' 18.896 N	103° 20' 17.921 W	
4,450.0	4.13	164.45	4,440.7	-171.5	7.8	741,922.60	1,065,247.18	31° 40' 18.879 N	103° 20' 17.915 W	

# ConocoPhillips

## Survey Report - Geographic

<b>Company:</b>	DELAWARE BASIN SOUTH	<b>Local Co-ordinate Reference:</b>	Well UL 20 GOLD SPOON #2901H
<b>Project:</b>	LOVING/WINKLER COUNTY, TX	<b>TVD Reference:</b>	KB=26 @ 2819.6usft
<b>Site:</b>	UL 20 GOLD SPOON	<b>MD Reference:</b>	KB=26 @ 2819.6usft
<b>Well:</b>	UL 20 GOLD SPOON #2901H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWP	<b>Database:</b>	EDT 17 Central Planning Prod

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
4,475.0	3.80	167.01	4,465.6	-173.2	8.2	741,920.92	1,065,247.60	31° 40' 18.863 N	103° 20' 17.909 W	
4,500.0	3.71	169.30	4,490.5	-174.8	8.5	741,919.32	1,065,247.94	31° 40' 18.847 N	103° 20' 17.905 W	
4,525.0	3.59	171.61	4,515.5	-176.4	8.8	741,917.75	1,065,248.21	31° 40' 18.831 N	103° 20' 17.901 W	
4,550.0	3.86	201.46	4,540.4	-177.9	8.6	741,916.20	1,065,248.01	31° 40' 18.816 N	103° 20' 17.903 W	
4,575.0	4.55	219.22	4,565.4	-179.5	7.7	741,914.64	1,065,247.08	31° 40' 18.800 N	103° 20' 17.913 W	
4,600.0	4.82	222.62	4,590.3	-181.0	6.3	741,913.10	1,065,245.74	31° 40' 18.785 N	103° 20' 17.928 W	
4,625.0	4.72	220.42	4,615.2	-182.6	4.9	741,911.55	1,065,244.36	31° 40' 18.769 N	103° 20' 17.944 W	
4,650.0	4.39	215.49	4,640.1	-184.1	3.7	741,909.99	1,065,243.14	31° 40' 18.753 N	103° 20' 17.957 W	
4,675.0	3.97	209.85	4,665.1	-185.7	2.7	741,908.46	1,065,242.15	31° 40' 18.738 N	103° 20' 17.968 W	
4,700.0	3.59	201.61	4,690.0	-187.1	2.0	741,906.98	1,065,241.43	31° 40' 18.723 N	103° 20' 17.976 W	
4,725.0	3.42	200.53	4,715.0	-188.6	1.5	741,905.55	1,065,240.88	31° 40' 18.709 N	103° 20' 17.982 W	
4,750.0	3.34	200.12	4,739.9	-189.9	0.9	741,904.17	1,065,240.37	31° 40' 18.695 N	103° 20' 17.987 W	
4,775.0	3.44	198.45	4,764.9	-191.3	0.5	741,902.77	1,065,239.88	31° 40' 18.681 N	103° 20' 17.993 W	
4,800.0	3.14	193.13	4,789.8	-192.7	0.1	741,901.40	1,065,239.49	31° 40' 18.667 N	103° 20' 17.997 W	
4,825.0	2.98	189.39	4,814.8	-194.0	-0.2	741,900.09	1,065,239.23	31° 40' 18.654 N	103° 20' 17.999 W	
4,850.0	3.25	176.21	4,839.8	-195.4	-0.3	741,898.74	1,065,239.17	31° 40' 18.641 N	103° 20' 18.000 W	
4,875.0	3.20	167.01	4,864.7	-196.8	-0.1	741,897.35	1,065,239.37	31° 40' 18.627 N	103° 20' 17.997 W	
4,900.0	3.35	162.47	4,889.7	-198.1	0.3	741,895.98	1,065,239.75	31° 40' 18.614 N	103° 20' 17.992 W	
4,925.0	3.23	155.98	4,914.6	-199.5	0.8	741,894.64	1,065,240.26	31° 40' 18.601 N	103° 20' 17.986 W	
4,950.0	2.80	156.97	4,939.6	-200.7	1.4	741,893.43	1,065,240.78	31° 40' 18.589 N	103° 20' 17.979 W	
4,975.0	2.54	157.09	4,964.6	-201.7	1.8	741,892.36	1,065,241.24	31° 40' 18.578 N	103° 20' 17.974 W	
5,000.0	2.11	161.54	4,989.6	-202.7	2.2	741,891.41	1,065,241.60	31° 40' 18.569 N	103° 20' 17.969 W	
5,025.0	1.35	229.58	5,014.5	-203.3	2.1	741,890.78	1,065,241.52	31° 40' 18.563 N	103° 20' 17.970 W	
5,050.0	1.81	259.82	5,039.5	-203.6	1.5	741,890.52	1,065,240.91	31° 40' 18.560 N	103° 20' 17.977 W	
5,075.0	2.03	264.47	5,064.5	-203.7	0.7	741,890.41	1,065,240.08	31° 40' 18.559 N	103° 20' 17.987 W	
5,100.0	1.99	262.00	5,089.5	-203.8	-0.2	741,890.31	1,065,239.21	31° 40' 18.558 N	103° 20' 17.997 W	
5,125.0	1.87	259.33	5,114.5	-203.9	-1.0	741,890.17	1,065,238.38	31° 40' 18.556 N	103° 20' 18.006 W	
5,150.0	1.86	265.60	5,139.5	-204.0	-1.9	741,890.07	1,065,237.57	31° 40' 18.555 N	103° 20' 18.015 W	
5,175.0	1.83	266.53	5,164.5	-204.1	-2.7	741,890.01	1,065,236.77	31° 40' 18.554 N	103° 20' 18.025 W	
5,200.0	1.85	265.66	5,189.5	-204.2	-3.5	741,889.96	1,065,235.97	31° 40' 18.553 N	103° 20' 18.034 W	
5,225.0	1.66	260.38	5,214.4	-204.2	-4.2	741,889.86	1,065,235.21	31° 40' 18.552 N	103° 20' 18.043 W	
5,250.0	1.74	264.86	5,239.4	-204.3	-5.0	741,889.77	1,065,234.47	31° 40' 18.551 N	103° 20' 18.051 W	
5,275.0	1.58	264.64	5,264.4	-204.4	-5.7	741,889.70	1,065,233.75	31° 40' 18.550 N	103° 20' 18.060 W	
5,300.0	1.65	261.43	5,289.4	-204.5	-6.4	741,889.62	1,065,233.05	31° 40' 18.549 N	103° 20' 18.068 W	
5,325.0	1.78	264.83	5,314.4	-204.6	-7.1	741,889.53	1,065,232.31	31° 40' 18.548 N	103° 20' 18.076 W	
5,350.0	1.83	266.83	5,339.4	-204.6	-7.9	741,889.47	1,065,231.52	31° 40' 18.547 N	103° 20' 18.085 W	
5,375.0	1.68	263.15	5,364.4	-204.7	-8.7	741,889.41	1,065,230.76	31° 40' 18.546 N	103° 20' 18.094 W	
5,400.0	1.56	263.91	5,389.4	-204.8	-9.4	741,889.33	1,065,230.06	31° 40' 18.545 N	103° 20' 18.102 W	
5,425.0	1.67	268.67	5,414.4	-204.8	-10.1	741,889.28	1,065,229.36	31° 40' 18.545 N	103° 20' 18.110 W	
5,450.0	1.57	266.78	5,439.3	-204.9	-10.8	741,889.25	1,065,228.65	31° 40' 18.544 N	103° 20' 18.118 W	
5,475.0	1.69	264.60	5,464.3	-204.9	-11.5	741,889.20	1,065,227.94	31° 40' 18.544 N	103° 20' 18.127 W	
5,500.0	1.59	264.83	5,489.3	-205.0	-12.2	741,889.13	1,065,227.23	31° 40' 18.543 N	103° 20' 18.135 W	
5,525.0	1.55	259.76	5,514.3	-205.1	-12.9	741,889.04	1,065,226.55	31° 40' 18.542 N	103° 20' 18.143 W	
5,550.0	1.61	261.67	5,539.3	-205.2	-13.6	741,888.93	1,065,225.87	31° 40' 18.540 N	103° 20' 18.150 W	
5,575.0	1.57	262.27	5,564.3	-205.3	-14.2	741,888.84	1,065,225.18	31° 40' 18.539 N	103° 20' 18.158 W	
5,600.0	1.53	259.64	5,589.3	-205.4	-14.9	741,888.73	1,065,224.52	31° 40' 18.538 N	103° 20' 18.166 W	
5,625.0	1.53	255.14	5,614.3	-205.5	-15.6	741,888.58	1,065,223.87	31° 40' 18.536 N	103° 20' 18.174 W	
5,650.0	1.51	251.21	5,639.3	-205.7	-16.2	741,888.39	1,065,223.23	31° 40' 18.534 N	103° 20' 18.181 W	
5,675.0	1.56	251.05	5,664.3	-205.9	-16.8	741,888.18	1,065,222.60	31° 40' 18.532 N	103° 20' 18.188 W	
5,700.0	1.57	251.82	5,689.3	-206.1	-17.5	741,887.96	1,065,221.95	31° 40' 18.530 N	103° 20' 18.195 W	
5,725.0	1.58	251.60	5,714.2	-206.4	-18.1	741,887.74	1,065,221.30	31° 40' 18.527 N	103° 20' 18.203 W	
5,750.0	1.60	254.86	5,739.2	-206.6	-18.8	741,887.54	1,065,220.63	31° 40' 18.525 N	103° 20' 18.211 W	
5,775.0	1.62	257.61	5,764.2	-206.7	-19.5	741,887.38	1,065,219.95	31° 40' 18.523 N	103° 20' 18.218 W	
5,800.0	1.56	251.71	5,789.2	-206.9	-20.1	741,887.19	1,065,219.28	31° 40' 18.521 N	103° 20' 18.226 W	
5,825.0	1.66	255.62	5,814.2	-207.1	-20.8	741,887.00	1,065,218.61	31° 40' 18.519 N	103° 20' 18.234 W	



# ConocoPhillips

## Survey Report - Geographic

<b>Company:</b>	DELAWARE BASIN SOUTH	<b>Local Co-ordinate Reference:</b>	Well UL 20 GOLD SPOON #2901H
<b>Project:</b>	LOVING/WINKLER COUNTY, TX	<b>TVD Reference:</b>	KB=26 @ 2819.6usft
<b>Site:</b>	UL 20 GOLD SPOON	<b>MD Reference:</b>	KB=26 @ 2819.6usft
<b>Well:</b>	UL 20 GOLD SPOON #2901H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWP	<b>Database:</b>	EDT 17 Central Planning Prod

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude	
5,850.0	1.58	252.34	5,839.2	-207.3	-21.5	741,886.80	1,065,217.93	31° 40' 18.517 N	103° 20' 18.242 W	
5,875.0	1.54	247.91	5,864.2	-207.5	-22.1	741,886.57	1,065,217.29	31° 40' 18.515 N	103° 20' 18.249 W	
5,900.0	1.63	251.88	5,889.2	-207.8	-22.8	741,886.33	1,065,216.64	31° 40' 18.512 N	103° 20' 18.256 W	
5,925.0	1.61	252.12	5,914.2	-208.0	-23.5	741,886.12	1,065,215.97	31° 40' 18.510 N	103° 20' 18.264 W	
5,950.0	1.67	252.41	5,939.2	-208.2	-24.1	741,885.90	1,065,215.29	31° 40' 18.507 N	103° 20' 18.272 W	
5,975.0	1.68	255.22	5,964.1	-208.4	-24.8	741,885.69	1,065,214.59	31° 40' 18.505 N	103° 20' 18.280 W	
6,000.0	1.65	250.34	5,989.1	-208.6	-25.5	741,885.48	1,065,213.89	31° 40' 18.503 N	103° 20' 18.288 W	
6,025.0	1.54	254.82	6,014.1	-208.8	-26.2	741,885.27	1,065,213.23	31° 40' 18.501 N	103° 20' 18.296 W	
6,050.0	1.46	252.75	6,039.1	-209.0	-26.8	741,885.09	1,065,212.60	31° 40' 18.499 N	103° 20' 18.303 W	
6,075.0	1.50	255.02	6,064.1	-209.2	-27.4	741,884.91	1,065,211.98	31° 40' 18.497 N	103° 20' 18.310 W	
6,100.0	1.38	252.32	6,089.1	-209.4	-28.0	741,884.73	1,065,211.38	31° 40' 18.495 N	103° 20' 18.317 W	
6,125.0	1.31	254.57	6,114.1	-209.5	-28.6	741,884.57	1,065,210.82	31° 40' 18.493 N	103° 20' 18.323 W	
6,150.0	1.46	259.17	6,139.1	-209.7	-29.2	741,884.43	1,065,210.23	31° 40' 18.492 N	103° 20' 18.330 W	
6,175.0	1.36	258.98	6,164.1	-209.8	-29.8	741,884.31	1,065,209.62	31° 40' 18.490 N	103° 20' 18.337 W	
6,200.0	1.34	256.69	6,189.1	-209.9	-30.4	741,884.19	1,065,209.05	31° 40' 18.489 N	103° 20' 18.344 W	
6,225.0	1.45	256.18	6,214.1	-210.1	-31.0	741,884.05	1,065,208.46	31° 40' 18.487 N	103° 20' 18.350 W	
6,250.0	1.30	250.25	6,239.1	-210.2	-31.5	741,883.87	1,065,207.88	31° 40' 18.485 N	103° 20' 18.357 W	
6,275.0	1.31	252.57	6,264.0	-210.4	-32.1	741,883.69	1,065,207.34	31° 40' 18.484 N	103° 20' 18.363 W	
6,300.0	1.17	253.96	6,289.0	-210.6	-32.6	741,883.54	1,065,206.83	31° 40' 18.482 N	103° 20' 18.369 W	
6,325.0	1.12	253.01	6,314.0	-210.7	-33.1	741,883.39	1,065,206.35	31° 40' 18.480 N	103° 20' 18.375 W	
6,350.0	1.02	257.56	6,339.0	-210.8	-33.5	741,883.28	1,065,205.90	31° 40' 18.479 N	103° 20' 18.380 W	
6,375.0	1.16	261.06	6,364.0	-210.9	-34.0	741,883.19	1,065,205.43	31° 40' 18.478 N	103° 20' 18.385 W	
6,400.0	0.92	253.38	6,389.0	-211.0	-34.4	741,883.09	1,065,204.99	31° 40' 18.477 N	103° 20' 18.390 W	
6,425.0	1.03	259.44	6,414.0	-211.1	-34.9	741,882.99	1,065,204.57	31° 40' 18.476 N	103° 20' 18.395 W	
6,450.0	0.91	256.31	6,439.0	-211.2	-35.3	741,882.90	1,065,204.16	31° 40' 18.475 N	103° 20' 18.400 W	
6,475.0	0.97	259.79	6,464.0	-211.3	-35.7	741,882.82	1,065,203.76	31° 40' 18.474 N	103° 20' 18.404 W	
6,500.0	1.00	262.07	6,489.0	-211.4	-36.1	741,882.75	1,065,203.33	31° 40' 18.473 N	103° 20' 18.409 W	
6,525.0	1.00	254.44	6,514.0	-211.4	-36.5	741,882.66	1,065,202.91	31° 40' 18.472 N	103° 20' 18.414 W	
6,550.0	1.04	258.60	6,539.0	-211.5	-36.9	741,882.56	1,065,202.47	31° 40' 18.471 N	103° 20' 18.419 W	
6,575.0	1.02	260.52	6,564.0	-211.6	-37.4	741,882.48	1,065,202.03	31° 40' 18.470 N	103° 20' 18.424 W	
6,600.0	0.96	253.50	6,589.0	-211.7	-37.8	741,882.38	1,065,201.61	31° 40' 18.469 N	103° 20' 18.429 W	
6,625.0	0.94	253.31	6,614.0	-211.8	-38.2	741,882.26	1,065,201.21	31° 40' 18.468 N	103° 20' 18.434 W	
6,650.0	0.95	256.82	6,639.0	-211.9	-38.6	741,882.16	1,065,200.82	31° 40' 18.467 N	103° 20' 18.438 W	
6,675.0	0.98	256.58	6,664.0	-212.0	-39.0	741,882.06	1,065,200.41	31° 40' 18.466 N	103° 20' 18.443 W	
6,700.0	1.05	259.86	6,689.0	-212.1	-39.5	741,881.97	1,065,199.97	31° 40' 18.465 N	103° 20' 18.448 W	
6,725.0	1.03	260.49	6,714.0	-212.2	-39.9	741,881.89	1,065,199.53	31° 40' 18.464 N	103° 20' 18.453 W	
6,750.0	1.03	258.20	6,739.0	-212.3	-40.3	741,881.81	1,065,199.08	31° 40' 18.463 N	103° 20' 18.458 W	
6,775.0	1.09	263.06	6,764.0	-212.4	-40.8	741,881.74	1,065,198.63	31° 40' 18.462 N	103° 20' 18.463 W	
6,800.0	0.98	261.05	6,789.0	-212.4	-41.2	741,881.67	1,065,198.18	31° 40' 18.461 N	103° 20' 18.468 W	
6,825.0	0.98	255.94	6,814.0	-212.5	-41.7	741,881.59	1,065,197.76	31° 40' 18.460 N	103° 20' 18.473 W	
6,850.0	1.04	260.75	6,839.0	-212.6	-42.1	741,881.50	1,065,197.33	31° 40' 18.459 N	103° 20' 18.478 W	
6,875.0	1.10	262.13	6,864.0	-212.7	-42.6	741,881.43	1,065,196.87	31° 40' 18.458 N	103° 20' 18.484 W	
6,900.0	1.11	262.84	6,888.9	-212.7	-43.0	741,881.37	1,065,196.39	31° 40' 18.458 N	103° 20' 18.489 W	
6,925.0	1.03	257.88	6,913.9	-212.8	-43.5	741,881.29	1,065,195.93	31° 40' 18.457 N	103° 20' 18.494 W	
6,950.0	1.08	259.75	6,938.9	-212.9	-43.9	741,881.20	1,065,195.48	31° 40' 18.456 N	103° 20' 18.500 W	
6,975.0	0.97	257.45	6,963.9	-213.0	-44.4	741,881.11	1,065,195.04	31° 40' 18.455 N	103° 20' 18.505 W	
7,000.0	1.08	252.31	6,988.9	-213.1	-44.8	741,881.00	1,065,194.61	31° 40' 18.453 N	103° 20' 18.510 W	
7,025.0	1.12	255.79	7,013.9	-213.2	-45.3	741,880.87	1,065,194.15	31° 40' 18.452 N	103° 20' 18.515 W	
7,050.0	1.08	253.27	7,038.9	-213.4	-45.7	741,880.74	1,065,193.69	31° 40' 18.451 N	103° 20' 18.520 W	
7,075.0	1.16	255.73	7,063.9	-213.5	-46.2	741,880.61	1,065,193.22	31° 40' 18.449 N	103° 20' 18.526 W	
7,100.0	1.27	255.25	7,088.9	-213.6	-46.7	741,880.47	1,065,192.70	31° 40' 18.448 N	103° 20' 18.531 W	
7,125.0	1.19	250.32	7,113.9	-213.8	-47.2	741,880.32	1,065,192.19	31° 40' 18.446 N	103° 20' 18.537 W	
7,150.0	1.24	251.19	7,138.9	-214.0	-47.7	741,880.14	1,065,191.69	31° 40' 18.444 N	103° 20' 18.543 W	
7,175.0	1.24	255.26	7,163.9	-214.1	-48.3	741,879.99	1,065,191.17	31° 40' 18.443 N	103° 20' 18.549 W	
7,200.0	1.32	252.70	7,188.9	-214.3	-48.8	741,879.83	1,065,190.64	31° 40' 18.441 N	103° 20' 18.555 W	

# ConocoPhillips

## Survey Report - Geographic

<b>Company:</b>	DELAWARE BASIN SOUTH	<b>Local Co-ordinate Reference:</b>	Well UL 20 GOLD SPOON #2901H
<b>Project:</b>	LOVING/WINKLER COUNTY, TX	<b>TVD Reference:</b>	KB=26 @ 2819.6usft
<b>Site:</b>	UL 20 GOLD SPOON	<b>MD Reference:</b>	KB=26 @ 2819.6usft
<b>Well:</b>	UL 20 GOLD SPOON #2901H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWP	<b>Database:</b>	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
7,225.0	1.40	255.82	7,213.9	-214.4	-49.4	741,879.67	1,065,190.07	31° 40' 18.439 N	103° 20' 18.562 W
7,250.0	1.39	259.53	7,238.9	-214.6	-50.0	741,879.54	1,065,189.47	31° 40' 18.438 N	103° 20' 18.569 W
7,275.0	1.34	253.83	7,263.9	-214.7	-50.5	741,879.40	1,065,188.89	31° 40' 18.436 N	103° 20' 18.575 W
7,300.0	1.39	261.18	7,288.9	-214.8	-51.1	741,879.28	1,065,188.31	31° 40' 18.435 N	103° 20' 18.582 W
7,325.0	1.38	260.82	7,313.9	-214.9	-51.7	741,879.18	1,065,187.71	31° 40' 18.434 N	103° 20' 18.589 W
7,350.0	1.50	263.65	7,338.8	-215.0	-52.3	741,879.10	1,065,187.09	31° 40' 18.433 N	103° 20' 18.596 W
7,375.0	1.42	262.69	7,363.8	-215.1	-53.0	741,879.02	1,065,186.46	31° 40' 18.432 N	103° 20' 18.603 W
7,400.0	1.44	261.23	7,388.8	-215.2	-53.6	741,878.93	1,065,185.84	31° 40' 18.431 N	103° 20' 18.610 W
7,425.0	1.52	260.77	7,413.8	-215.3	-54.2	741,878.83	1,065,185.20	31° 40' 18.430 N	103° 20' 18.618 W
7,450.0	1.43	256.23	7,438.8	-215.4	-54.8	741,878.71	1,065,184.57	31° 40' 18.428 N	103° 20' 18.625 W
7,475.0	1.53	261.50	7,463.8	-215.5	-55.5	741,878.58	1,065,183.94	31° 40' 18.427 N	103° 20' 18.632 W
7,500.0	1.49	259.30	7,488.8	-215.6	-56.1	741,878.47	1,065,183.29	31° 40' 18.425 N	103° 20' 18.640 W
7,525.0	1.45	244.44	7,513.8	-215.8	-56.7	741,878.28	1,065,182.69	31° 40' 18.423 N	103° 20' 18.647 W
7,550.0	1.46	229.99	7,538.8	-216.2	-57.3	741,877.93	1,065,182.16	31° 40' 18.420 N	103° 20' 18.653 W
7,575.0	1.45	230.90	7,563.8	-216.6	-57.8	741,877.53	1,065,181.67	31° 40' 18.416 N	103° 20' 18.658 W
7,600.0	1.53	221.51	7,588.8	-217.0	-58.2	741,877.08	1,065,181.20	31° 40' 18.411 N	103° 20' 18.663 W
7,625.0	1.41	230.55	7,613.8	-217.5	-58.7	741,876.64	1,065,180.74	31° 40' 18.407 N	103° 20' 18.669 W
7,650.0	1.34	220.33	7,638.7	-217.9	-59.1	741,876.22	1,065,180.32	31° 40' 18.402 N	103° 20' 18.673 W
7,675.0	1.88	274.84	7,663.7	-218.1	-59.7	741,876.03	1,065,179.72	31° 40' 18.400 N	103° 20' 18.680 W
7,700.0	1.07	226.61	7,688.7	-218.2	-60.3	741,875.90	1,065,179.14	31° 40' 18.399 N	103° 20' 18.687 W
7,725.0	0.86	217.48	7,713.7	-218.5	-60.6	741,875.59	1,065,178.86	31° 40' 18.396 N	103° 20' 18.690 W
7,750.0	0.77	211.61	7,738.7	-218.8	-60.8	741,875.30	1,065,178.65	31° 40' 18.393 N	103° 20' 18.692 W
7,775.0	0.78	206.12	7,763.7	-219.1	-60.9	741,875.01	1,065,178.49	31° 40' 18.390 N	103° 20' 18.694 W
7,800.0	0.86	200.24	7,788.7	-219.4	-61.1	741,874.68	1,065,178.35	31° 40' 18.387 N	103° 20' 18.696 W
7,825.0	1.33	214.16	7,813.7	-219.8	-61.3	741,874.26	1,065,178.12	31° 40' 18.382 N	103° 20' 18.698 W
7,850.0	1.64	216.94	7,838.7	-220.4	-61.7	741,873.74	1,065,177.75	31° 40' 18.377 N	103° 20' 18.702 W
7,875.0	1.76	218.69	7,863.7	-221.0	-62.1	741,873.15	1,065,177.29	31° 40' 18.371 N	103° 20' 18.707 W
7,900.0	1.81	216.82	7,888.7	-221.6	-62.6	741,872.53	1,065,176.81	31° 40' 18.365 N	103° 20' 18.713 W
7,925.0	1.81	218.66	7,913.7	-222.2	-63.1	741,871.91	1,065,176.33	31° 40' 18.359 N	103° 20' 18.718 W
7,950.0	1.76	222.97	7,938.7	-222.8	-63.6	741,871.32	1,065,175.82	31° 40' 18.353 N	103° 20' 18.724 W
7,975.0	1.67	227.36	7,963.6	-223.3	-64.1	741,870.79	1,065,175.29	31° 40' 18.347 N	103° 20' 18.730 W
8,000.0	1.64	225.84	7,988.6	-223.8	-64.7	741,870.30	1,065,174.77	31° 40' 18.342 N	103° 20' 18.736 W
8,025.0	1.58	236.57	8,013.6	-224.2	-65.2	741,869.86	1,065,174.22	31° 40' 18.338 N	103° 20' 18.742 W
8,050.0	1.58	234.93	8,038.6	-224.6	-65.8	741,869.47	1,065,173.65	31° 40' 18.334 N	103° 20' 18.748 W
8,075.0	1.66	243.41	8,063.6	-225.0	-66.4	741,869.11	1,065,173.05	31° 40' 18.330 N	103° 20' 18.755 W
8,100.0	1.63	243.43	8,088.6	-225.3	-67.0	741,868.79	1,065,172.41	31° 40' 18.327 N	103° 20' 18.763 W
8,125.0	1.57	244.42	8,113.6	-225.6	-67.6	741,868.48	1,065,171.78	31° 40' 18.324 N	103° 20' 18.770 W
8,150.0	1.57	252.81	8,138.6	-225.9	-68.3	741,868.23	1,065,171.14	31° 40' 18.321 N	103° 20' 18.777 W
8,175.0	1.39	249.93	8,163.6	-226.1	-68.9	741,868.03	1,065,170.53	31° 40' 18.319 N	103° 20' 18.784 W
8,200.0	1.44	257.22	8,188.6	-226.3	-69.5	741,867.85	1,065,169.94	31° 40' 18.317 N	103° 20' 18.791 W
8,225.0	1.44	257.43	8,213.6	-226.4	-70.1	741,867.72	1,065,169.33	31° 40' 18.315 N	103° 20' 18.798 W
8,250.0	1.38	253.83	8,238.5	-226.5	-70.7	741,867.56	1,065,168.73	31° 40' 18.314 N	103° 20' 18.805 W
8,275.0	1.48	257.90	8,263.5	-226.7	-71.3	741,867.41	1,065,168.13	31° 40' 18.312 N	103° 20' 18.812 W
8,300.0	1.43	252.52	8,288.5	-226.9	-71.9	741,867.25	1,065,167.51	31° 40' 18.310 N	103° 20' 18.819 W
8,325.0	1.45	254.93	8,313.5	-227.0	-72.5	741,867.07	1,065,166.91	31° 40' 18.308 N	103° 20' 18.826 W
8,350.0	1.41	259.16	8,338.5	-227.2	-73.1	741,866.93	1,065,166.30	31° 40' 18.307 N	103° 20' 18.833 W
8,375.0	1.43	256.74	8,363.5	-227.3	-73.7	741,866.81	1,065,165.70	31° 40' 18.305 N	103° 20' 18.840 W
8,400.0	1.37	253.29	8,388.5	-227.5	-74.3	741,866.65	1,065,165.11	31° 40' 18.304 N	103° 20' 18.846 W
8,425.0	1.40	259.20	8,413.5	-227.6	-74.9	741,866.50	1,065,164.52	31° 40' 18.302 N	103° 20' 18.853 W
8,450.0	1.39	256.01	8,438.5	-227.7	-75.5	741,866.37	1,065,163.93	31° 40' 18.301 N	103° 20' 18.860 W
8,475.0	1.41	257.70	8,463.5	-227.9	-76.1	741,866.24	1,065,163.33	31° 40' 18.299 N	103° 20' 18.867 W
8,500.0	1.39	254.76	8,488.5	-228.0	-76.7	741,866.09	1,065,162.74	31° 40' 18.297 N	103° 20' 18.874 W
8,525.0	1.31	253.52	8,513.5	-228.2	-77.3	741,865.93	1,065,162.17	31° 40' 18.296 N	103° 20' 18.880 W
8,550.0	1.20	258.34	8,538.5	-228.3	-77.8	741,865.80	1,065,161.64	31° 40' 18.294 N	103° 20' 18.886 W
8,575.0	1.14	260.56	8,563.5	-228.4	-78.3	741,865.70	1,065,161.14	31° 40' 18.293 N	103° 20' 18.892 W



# ConocoPhillips

## Survey Report - Geographic

<b>Company:</b>	DELAWARE BASIN SOUTH	<b>Local Co-ordinate Reference:</b>	Well UL 20 GOLD SPOON #2901H
<b>Project:</b>	LOVING/WINKLER COUNTY, TX	<b>TVD Reference:</b>	KB=26 @ 2819.6usft
<b>Site:</b>	UL 20 GOLD SPOON	<b>MD Reference:</b>	KB=26 @ 2819.6usft
<b>Well:</b>	UL 20 GOLD SPOON #2901H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWP	<b>Database:</b>	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
8,600.0	1.07	254.95	8,588.4	-228.5	-78.8	741,865.60	1,065,160.67	31° 40' 18.292 N	103° 20' 18.897 W
8,625.0	1.07	254.75	8,613.4	-228.6	-79.2	741,865.48	1,065,160.22	31° 40' 18.291 N	103° 20' 18.903 W
8,650.0	1.07	255.05	8,638.4	-228.7	-79.7	741,865.36	1,065,159.77	31° 40' 18.289 N	103° 20' 18.908 W
8,675.0	0.99	258.20	8,663.4	-228.9	-80.1	741,865.25	1,065,159.33	31° 40' 18.288 N	103° 20' 18.913 W
8,700.0	0.98	256.95	8,688.4	-228.9	-80.5	741,865.16	1,065,158.91	31° 40' 18.287 N	103° 20' 18.918 W
8,725.0	0.99	258.74	8,713.4	-229.0	-80.9	741,865.07	1,065,158.49	31° 40' 18.286 N	103° 20' 18.922 W
8,750.0	0.98	255.50	8,738.4	-229.1	-81.4	741,864.97	1,065,158.07	31° 40' 18.285 N	103° 20' 18.927 W
8,775.0	1.06	255.21	8,763.4	-229.2	-81.8	741,864.86	1,065,157.64	31° 40' 18.284 N	103° 20' 18.932 W
8,800.0	1.13	260.15	8,788.4	-229.3	-82.2	741,864.76	1,065,157.18	31° 40' 18.283 N	103° 20' 18.938 W
8,825.0	1.08	258.72	8,813.4	-229.4	-82.7	741,864.67	1,065,156.70	31° 40' 18.282 N	103° 20' 18.943 W
8,850.0	0.97	253.96	8,838.4	-229.5	-83.2	741,864.57	1,065,156.27	31° 40' 18.281 N	103° 20' 18.948 W
8,875.0	1.06	258.94	8,863.4	-229.6	-83.6	741,864.46	1,065,155.84	31° 40' 18.280 N	103° 20' 18.953 W
8,900.0	1.20	256.99	8,888.4	-229.7	-84.1	741,864.36	1,065,155.36	31° 40' 18.278 N	103° 20' 18.958 W
8,925.0	1.41	258.47	8,913.4	-229.9	-84.6	741,864.24	1,065,154.80	31° 40' 18.277 N	103° 20' 18.965 W
8,950.0	1.49	259.33	8,938.4	-230.0	-85.2	741,864.12	1,065,154.18	31° 40' 18.276 N	103° 20' 18.972 W
8,975.0	1.48	256.82	8,963.4	-230.1	-85.9	741,863.99	1,065,153.54	31° 40' 18.274 N	103° 20' 18.979 W
9,000.0	1.50	258.44	8,988.4	-230.3	-86.5	741,863.85	1,065,152.91	31° 40' 18.273 N	103° 20' 18.987 W
9,025.0	1.49	254.08	9,013.4	-230.4	-87.1	741,863.69	1,065,152.28	31° 40' 18.271 N	103° 20' 18.994 W
9,050.0	1.49	254.73	9,038.3	-230.6	-87.8	741,863.52	1,065,151.65	31° 40' 18.269 N	103° 20' 19.001 W
9,075.0	1.46	258.49	9,063.3	-230.7	-88.4	741,863.37	1,065,151.02	31° 40' 18.267 N	103° 20' 19.008 W
9,100.0	1.43	250.79	9,088.3	-230.9	-89.0	741,863.20	1,065,150.42	31° 40' 18.266 N	103° 20' 19.015 W
9,125.0	1.43	255.58	9,113.3	-231.1	-89.6	741,863.02	1,065,149.82	31° 40' 18.264 N	103° 20' 19.022 W
9,150.0	1.47	255.94	9,138.3	-231.2	-90.2	741,862.87	1,065,149.21	31° 40' 18.262 N	103° 20' 19.029 W
9,175.0	1.48	255.86	9,163.3	-231.4	-90.8	741,862.71	1,065,148.58	31° 40' 18.260 N	103° 20' 19.036 W
9,200.0	1.42	254.64	9,188.3	-231.6	-91.5	741,862.55	1,065,147.97	31° 40' 18.258 N	103° 20' 19.043 W
9,225.0	1.23	255.05	9,213.3	-231.7	-92.0	741,862.40	1,065,147.41	31° 40' 18.257 N	103° 20' 19.050 W
9,250.0	0.98	255.47	9,238.3	-231.8	-92.5	741,862.27	1,065,146.95	31° 40' 18.255 N	103° 20' 19.055 W
9,275.0	0.90	257.22	9,263.3	-231.9	-92.9	741,862.18	1,065,146.55	31° 40' 18.254 N	103° 20' 19.060 W
9,300.0	0.93	255.34	9,288.3	-232.0	-93.3	741,862.08	1,065,146.16	31° 40' 18.253 N	103° 20' 19.064 W
9,325.0	1.10	246.08	9,313.3	-232.2	-93.7	741,861.93	1,065,145.75	31° 40' 18.252 N	103° 20' 19.069 W
9,350.0	1.30	234.89	9,338.3	-232.4	-94.1	741,861.67	1,065,145.29	31° 40' 18.249 N	103° 20' 19.074 W
9,375.0	1.69	230.67	9,363.3	-232.8	-94.6	741,861.28	1,065,144.78	31° 40' 18.245 N	103° 20' 19.080 W
9,400.0	2.16	227.47	9,388.3	-233.4	-95.3	741,860.72	1,065,144.15	31° 40' 18.239 N	103° 20' 19.087 W
9,425.0	2.40	225.92	9,413.2	-234.1	-96.0	741,860.04	1,065,143.42	31° 40' 18.232 N	103° 20' 19.095 W
9,450.0	2.30	227.00	9,438.2	-234.8	-96.7	741,859.33	1,065,142.68	31° 40' 18.225 N	103° 20' 19.104 W
9,475.0	2.17	229.14	9,463.2	-235.4	-97.5	741,858.68	1,065,141.95	31° 40' 18.219 N	103° 20' 19.112 W
9,500.0	1.86	239.61	9,488.2	-235.9	-98.2	741,858.17	1,065,141.25	31° 40' 18.213 N	103° 20' 19.120 W
9,525.0	1.64	255.90	9,513.2	-236.2	-98.9	741,857.88	1,065,140.55	31° 40' 18.210 N	103° 20' 19.128 W
9,550.0	1.57	270.48	9,538.2	-236.3	-99.6	741,857.79	1,065,139.86	31° 40' 18.209 N	103° 20' 19.136 W
9,575.0	1.59	275.56	9,563.1	-236.3	-100.3	741,857.83	1,065,139.17	31° 40' 18.209 N	103° 20' 19.144 W
9,600.0	1.67	277.31	9,588.1	-236.2	-101.0	741,857.91	1,065,138.47	31° 40' 18.210 N	103° 20' 19.152 W
9,625.0	1.63	276.01	9,613.1	-236.1	-101.7	741,857.99	1,065,137.75	31° 40' 18.211 N	103° 20' 19.160 W
9,650.0	1.83	283.64	9,638.1	-236.0	-102.4	741,858.12	1,065,137.01	31° 40' 18.212 N	103° 20' 19.169 W
9,675.0	2.05	291.20	9,663.1	-235.7	-103.2	741,858.38	1,065,136.20	31° 40' 18.214 N	103° 20' 19.178 W
9,700.0	2.10	295.35	9,688.1	-235.4	-104.1	741,858.74	1,065,135.37	31° 40' 18.217 N	103° 20' 19.188 W
9,725.0	2.23	296.85	9,713.1	-235.0	-104.9	741,859.15	1,065,134.53	31° 40' 18.221 N	103° 20' 19.198 W
9,750.0	2.17	299.91	9,738.0	-234.5	-105.7	741,859.61	1,065,133.68	31° 40' 18.226 N	103° 20' 19.208 W
9,775.0	1.76	326.13	9,763.0	-233.9	-106.4	741,860.16	1,065,133.06	31° 40' 18.231 N	103° 20' 19.215 W
9,800.0	1.71	337.81	9,788.0	-233.3	-106.7	741,860.83	1,065,132.70	31° 40' 18.237 N	103° 20' 19.219 W
9,825.0	1.63	341.98	9,813.0	-232.6	-107.0	741,861.51	1,065,132.45	31° 40' 18.244 N	103° 20' 19.222 W
9,850.0	1.65	343.75	9,838.0	-231.9	-107.2	741,862.19	1,065,132.24	31° 40' 18.251 N	103° 20' 19.225 W
9,875.0	1.62	341.90	9,863.0	-231.2	-107.4	741,862.88	1,065,132.03	31° 40' 18.257 N	103° 20' 19.228 W
9,900.0	1.32	347.43	9,888.0	-230.6	-107.6	741,863.49	1,065,131.86	31° 40' 18.264 N	103° 20' 19.230 W
9,925.0	1.18	3.40	9,913.0	-230.1	-107.6	741,864.03	1,065,131.81	31° 40' 18.269 N	103° 20' 19.231 W
9,950.0	1.31	26.96	9,938.0	-229.6	-107.5	741,864.54	1,065,131.96	31° 40' 18.274 N	103° 20' 19.229 W

# ConocoPhillips

## Survey Report - Geographic

<b>Company:</b>	DELAWARE BASIN SOUTH	<b>Local Co-ordinate Reference:</b>	Well UL 20 GOLD SPOON #2901H
<b>Project:</b>	LOVING/WINKLER COUNTY, TX	<b>TVD Reference:</b>	KB=26 @ 2819.6usft
<b>Site:</b>	UL 20 GOLD SPOON	<b>MD Reference:</b>	KB=26 @ 2819.6usft
<b>Well:</b>	UL 20 GOLD SPOON #2901H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWP	<b>Database:</b>	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
9,975.0	1.36	45.75	9,963.0	-229.1	-107.1	741,865.00	1,065,132.30	31° 40' 18.279 N	103° 20' 19.225 W
10,000.0	1.37	64.78	9,988.0	-228.8	-106.6	741,865.34	1,065,132.78	31° 40' 18.282 N	103° 20' 19.220 W
10,025.0	1.48	79.15	10,012.9	-228.6	-106.1	741,865.53	1,065,133.37	31° 40' 18.284 N	103° 20' 19.213 W
10,050.0	1.40	91.12	10,037.9	-228.5	-105.4	741,865.58	1,065,133.99	31° 40' 18.285 N	103° 20' 19.206 W
10,075.0	1.54	99.75	10,062.9	-228.6	-104.8	741,865.52	1,065,134.63	31° 40' 18.284 N	103° 20' 19.199 W
10,100.0	1.39	101.62	10,087.9	-228.7	-104.2	741,865.40	1,065,135.25	31° 40' 18.283 N	103° 20' 19.191 W
10,125.0	1.30	108.26	10,112.9	-228.9	-103.6	741,865.25	1,065,135.82	31° 40' 18.282 N	103° 20' 19.185 W
10,150.0	1.27	116.52	10,137.9	-229.1	-103.1	741,865.04	1,065,136.34	31° 40' 18.280 N	103° 20' 19.179 W
10,175.0	1.25	118.69	10,162.9	-229.3	-102.6	741,864.78	1,065,136.83	31° 40' 18.278 N	103° 20' 19.173 W
10,200.0	1.20	117.84	10,187.9	-229.6	-102.1	741,864.53	1,065,137.30	31° 40' 18.275 N	103° 20' 19.167 W
10,225.0	1.32	121.36	10,212.9	-229.8	-101.7	741,864.26	1,065,137.77	31° 40' 18.273 N	103° 20' 19.162 W
10,250.0	1.45	128.19	10,237.9	-230.2	-101.2	741,863.91	1,065,138.27	31° 40' 18.269 N	103° 20' 19.156 W
10,275.0	1.41	126.42	10,262.9	-230.6	-100.7	741,863.53	1,065,138.76	31° 40' 18.266 N	103° 20' 19.150 W
10,300.0	1.47	129.77	10,287.9	-231.0	-100.2	741,863.15	1,065,139.26	31° 40' 18.262 N	103° 20' 19.144 W
10,325.0	1.51	131.31	10,312.9	-231.4	-99.7	741,862.72	1,065,139.75	31° 40' 18.258 N	103° 20' 19.138 W
10,350.0	1.53	128.97	10,337.9	-231.8	-99.2	741,862.30	1,065,140.26	31° 40' 18.254 N	103° 20' 19.132 W
10,375.0	1.50	128.93	10,362.8	-232.2	-98.7	741,861.88	1,065,140.77	31° 40' 18.250 N	103° 20' 19.126 W
10,400.0	1.19	118.55	10,387.8	-232.6	-98.2	741,861.55	1,065,141.26	31° 40' 18.247 N	103° 20' 19.121 W
10,425.0	1.06	87.28	10,412.8	-232.7	-97.7	741,861.44	1,065,141.71	31° 40' 18.246 N	103° 20' 19.115 W
10,450.0	0.84	77.82	10,437.8	-232.6	-97.3	741,861.49	1,065,142.12	31° 40' 18.246 N	103° 20' 19.111 W
10,475.0	0.32	87.74	10,462.8	-232.6	-97.1	741,861.53	1,065,142.37	31° 40' 18.247 N	103° 20' 19.108 W
10,500.0	0.25	173.32	10,487.8	-232.6	-97.0	741,861.48	1,065,142.45	31° 40' 18.246 N	103° 20' 19.107 W
10,525.0	0.61	179.78	10,512.8	-232.8	-97.0	741,861.29	1,065,142.46	31° 40' 18.245 N	103° 20' 19.107 W
10,550.0	0.94	182.26	10,537.8	-233.2	-97.0	741,860.95	1,065,142.45	31° 40' 18.241 N	103° 20' 19.107 W
10,575.0	1.03	180.92	10,562.8	-233.6	-97.0	741,860.52	1,065,142.44	31° 40' 18.237 N	103° 20' 19.107 W
10,600.0	1.14	174.75	10,587.8	-234.1	-97.0	741,860.05	1,065,142.46	31° 40' 18.232 N	103° 20' 19.106 W
10,625.0	1.36	179.10	10,612.8	-234.6	-96.9	741,859.51	1,065,142.48	31° 40' 18.227 N	103° 20' 19.106 W
10,650.0	1.52	177.66	10,637.8	-235.2	-96.9	741,858.88	1,065,142.50	31° 40' 18.221 N	103° 20' 19.105 W
10,675.0	1.52	182.46	10,662.8	-235.9	-96.9	741,858.22	1,065,142.50	31° 40' 18.214 N	103° 20' 19.105 W
10,700.0	1.41	184.83	10,687.8	-236.5	-97.0	741,857.58	1,065,142.46	31° 40' 18.208 N	103° 20' 19.105 W
10,725.0	1.31	185.13	10,712.8	-237.1	-97.0	741,856.99	1,065,142.41	31° 40' 18.202 N	103° 20' 19.106 W
10,750.0	1.17	194.48	10,737.8	-237.7	-97.1	741,856.46	1,065,142.32	31° 40' 18.197 N	103° 20' 19.107 W
10,775.0	1.26	194.76	10,762.8	-238.2	-97.2	741,855.94	1,065,142.19	31° 40' 18.192 N	103° 20' 19.108 W
10,800.0	1.27	194.88	10,787.8	-238.7	-97.4	741,855.41	1,065,142.05	31° 40' 18.186 N	103° 20' 19.110 W
10,825.0	1.38	196.36	10,812.8	-239.3	-97.5	741,854.85	1,065,141.89	31° 40' 18.181 N	103° 20' 19.111 W
10,850.0	1.32	198.51	10,837.7	-239.8	-97.7	741,854.29	1,065,141.71	31° 40' 18.175 N	103° 20' 19.113 W
10,875.0	1.23	198.77	10,862.7	-240.3	-97.9	741,853.76	1,065,141.54	31° 40' 18.170 N	103° 20' 19.115 W
10,900.0	1.12	201.34	10,887.7	-240.8	-98.1	741,853.28	1,065,141.36	31° 40' 18.165 N	103° 20' 19.117 W
10,925.0	1.11	194.38	10,912.7	-241.3	-98.2	741,852.82	1,065,141.21	31° 40' 18.160 N	103° 20' 19.118 W
10,950.0	0.92	199.94	10,937.7	-241.7	-98.3	741,852.40	1,065,141.08	31° 40' 18.156 N	103° 20' 19.120 W
10,975.0	0.83	203.63	10,962.7	-242.1	-98.5	741,852.04	1,065,140.94	31° 40' 18.153 N	103° 20' 19.121 W
11,000.0	0.81	212.75	10,987.7	-242.4	-98.7	741,851.73	1,065,140.77	31° 40' 18.150 N	103° 20' 19.123 W
11,050.0	1.23	259.41	11,037.7	-242.8	-99.4	741,851.33	1,065,140.05	31° 40' 18.145 N	103° 20' 19.131 W
11,144.0	1.13	267.54	11,131.7	-243.0	-101.3	741,851.11	1,065,138.14	31° 40' 18.143 N	103° 20' 19.153 W
11,185.0	0.64	259.59	11,172.7	-243.1	-101.9	741,851.05	1,065,137.51	31° 40' 18.142 N	103° 20' 19.161 W
11,259.0	0.70	282.41	11,246.7	-243.0	-102.8	741,851.07	1,065,136.66	31° 40' 18.142 N	103° 20' 19.171 W
11,304.0	0.81	279.34	11,291.7	-242.9	-103.3	741,851.18	1,065,136.08	31° 40' 18.143 N	103° 20' 19.177 W
11,351.0	3.74	331.70	11,338.6	-241.5	-104.4	741,852.58	1,065,135.02	31° 40' 18.156 N	103° 20' 19.190 W
11,397.0	8.29	340.62	11,384.4	-237.1	-106.2	741,857.04	1,065,133.21	31° 40' 18.200 N	103° 20' 19.212 W
11,445.0	15.14	345.40	11,431.4	-227.7	-108.9	741,866.38	1,065,130.48	31° 40' 18.292 N	103° 20' 19.247 W
11,492.0	18.35	347.57	11,476.4	-214.6	-112.1	741,879.55	1,065,127.34	31° 40' 18.421 N	103° 20' 19.287 W
11,539.0	22.46	342.30	11,520.4	-198.8	-116.4	741,895.33	1,065,123.01	31° 40' 18.576 N	103° 20' 19.342 W
11,586.0	27.37	339.70	11,563.0	-180.1	-122.9	741,914.03	1,065,116.53	31° 40' 18.759 N	103° 20' 19.423 W
11,633.0	32.91	340.23	11,603.6	-157.9	-131.0	741,936.19	1,065,108.46	31° 40' 18.977 N	103° 20' 19.523 W
11,680.0	39.04	344.02	11,641.7	-131.6	-139.4	741,962.47	1,065,100.06	31° 40' 19.234 N	103° 20' 19.629 W

# ConocoPhillips

## Survey Report - Geographic

<b>Company:</b>	DELAWARE BASIN SOUTH	<b>Local Co-ordinate Reference:</b>	Well UL 20 GOLD SPOON #2901H
<b>Project:</b>	LOVING/WINKLER COUNTY, TX	<b>TVD Reference:</b>	KB=26 @ 2819.6usft
<b>Site:</b>	UL 20 GOLD SPOON	<b>MD Reference:</b>	KB=26 @ 2819.6usft
<b>Well:</b>	UL 20 GOLD SPOON #2901H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWP	<b>Database:</b>	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
11,727.0	45.92	345.13	11,676.3	-101.1	-147.8	741,993.05	1,065,091.64	31° 40' 19.535 N	103° 20' 19.736 W
11,774.0	52.44	346.66	11,707.0	-66.6	-156.4	742,027.53	1,065,083.00	31° 40' 19.873 N	103° 20' 19.846 W
11,821.0	58.39	349.29	11,733.7	-28.7	-164.5	742,065.36	1,065,074.97	31° 40' 20.245 N	103° 20' 19.951 W
11,868.0	59.10	349.30	11,758.1	10.7	-171.9	742,104.84	1,065,067.51	31° 40' 20.634 N	103° 20' 20.050 W
11,915.0	60.47	348.84	11,781.7	50.6	-179.6	742,144.72	1,065,059.81	31° 40' 21.026 N	103° 20' 20.151 W
11,962.0	63.68	348.51	11,803.7	91.3	-187.8	742,185.43	1,065,051.65	31° 40' 21.427 N	103° 20' 20.258 W
12,009.0	67.56	347.35	11,823.1	133.2	-196.7	742,227.28	1,065,042.70	31° 40' 21.839 N	103° 20' 20.375 W
12,030.0	70.00	347.34	11,830.7	152.2	-201.0	742,246.35	1,065,038.41	31° 40' 22.026 N	103° 20' 20.431 W
FTP @ 12030 MD / 11830.7 TVD									
12,056.0	73.03	347.33	11,839.0	176.3	-206.4	742,270.44	1,065,033.00	31° 40' 22.263 N	103° 20' 20.501 W
12,103.0	76.09	347.03	11,851.5	220.5	-216.5	742,314.61	1,065,022.95	31° 40' 22.697 N	103° 20' 20.631 W
12,150.0	77.85	346.62	11,862.1	265.1	-226.9	742,359.19	1,065,012.51	31° 40' 23.136 N	103° 20' 20.765 W
12,197.0	83.93	347.30	11,869.5	310.3	-237.4	742,404.38	1,065,002.05	31° 40' 23.580 N	103° 20' 20.901 W
12,244.0	91.24	348.04	11,871.5	356.1	-247.4	742,450.22	1,064,992.03	31° 40' 24.031 N	103° 20' 21.031 W
12,338.0	92.04	347.11	11,868.8	447.9	-267.6	742,541.98	1,064,971.81	31° 40' 24.933 N	103° 20' 21.293 W
12,432.0	88.49	342.05	11,868.4	538.4	-292.6	742,632.55	1,064,946.83	31° 40' 25.823 N	103° 20' 21.611 W
12,526.0	89.15	338.59	11,870.3	626.9	-324.2	742,721.03	1,064,915.19	31° 40' 26.689 N	103° 20' 22.004 W
12,620.0	89.16	339.11	11,871.7	714.6	-358.2	742,808.69	1,064,881.27	31° 40' 27.548 N	103° 20' 22.424 W
12,711.0	88.56	339.74	11,873.5	799.8	-390.1	742,893.87	1,064,849.30	31° 40' 28.382 N	103° 20' 22.821 W
12,805.0	88.31	341.56	11,876.1	888.4	-421.3	742,982.52	1,064,818.17	31° 40' 29.250 N	103° 20' 23.208 W
12,899.0	88.84	345.68	11,878.4	978.6	-447.8	743,072.66	1,064,791.67	31° 40' 30.135 N	103° 20' 23.543 W
12,994.0	87.50	343.65	11,881.4	1,070.1	-472.9	743,164.22	1,064,766.56	31° 40' 31.034 N	103° 20' 23.862 W
13,087.0	89.52	346.53	11,883.9	1,159.9	-496.8	743,254.05	1,064,742.65	31° 40' 31.917 N	103° 20' 24.167 W
13,181.0	87.51	350.93	11,886.3	1,252.1	-515.1	743,346.17	1,064,724.29	31° 40' 32.823 N	103° 20' 24.408 W
13,276.0	87.86	350.89	11,890.1	1,345.8	-530.1	743,439.90	1,064,709.29	31° 40' 33.746 N	103° 20' 24.611 W
13,370.0	88.00	350.39	11,893.5	1,438.5	-545.4	743,532.59	1,064,694.01	31° 40' 34.659 N	103° 20' 24.817 W
13,464.0	87.93	348.33	11,896.9	1,530.8	-562.8	743,624.91	1,064,676.67	31° 40' 35.568 N	103° 20' 25.046 W
13,558.0	88.83	347.66	11,899.5	1,622.7	-582.3	743,716.82	1,064,657.13	31° 40' 36.472 N	103° 20' 25.301 W
13,652.0	88.94	344.06	11,901.4	1,713.8	-605.3	743,807.94	1,064,634.17	31° 40' 37.367 N	103° 20' 25.595 W
13,746.0	89.81	342.70	11,902.4	1,803.9	-632.1	743,898.00	1,064,607.29	31° 40' 38.251 N	103° 20' 25.934 W
13,840.0	88.68	339.91	11,903.6	1,892.9	-662.3	743,987.03	1,064,577.16	31° 40' 39.124 N	103° 20' 26.311 W
13,935.0	90.47	340.44	11,904.3	1,982.3	-694.5	744,076.39	1,064,544.95	31° 40' 39.999 N	103° 20' 26.711 W
14,029.0	93.61	340.69	11,901.0	2,070.9	-725.7	744,164.97	1,064,513.69	31° 40' 40.867 N	103° 20' 27.100 W
14,122.0	93.47	340.57	11,895.2	2,158.4	-756.5	744,252.53	1,064,482.91	31° 40' 41.725 N	103° 20' 27.484 W
14,217.0	93.34	340.61	11,889.6	2,247.9	-788.0	744,341.98	1,064,451.39	31° 40' 42.602 N	103° 20' 27.877 W
14,311.0	93.97	340.96	11,883.6	2,336.5	-818.9	744,430.56	1,064,420.52	31° 40' 43.470 N	103° 20' 28.261 W
14,406.0	93.06	341.10	11,877.8	2,426.1	-849.7	744,520.23	1,064,389.69	31° 40' 44.349 N	103° 20' 28.646 W
14,500.0	88.60	340.74	11,876.4	2,514.9	-880.4	744,609.03	1,064,358.98	31° 40' 45.219 N	103° 20' 29.029 W
14,594.0	86.74	339.18	11,880.2	2,603.2	-912.6	744,697.26	1,064,326.80	31° 40' 46.083 N	103° 20' 29.429 W
14,688.0	87.02	337.80	11,885.4	2,690.5	-947.0	744,784.58	1,064,292.38	31° 40' 46.938 N	103° 20' 29.855 W
14,783.0	85.25	336.81	11,891.8	2,777.9	-983.6	744,872.02	1,064,255.81	31° 40' 47.793 N	103° 20' 30.305 W
14,876.0	89.77	335.46	11,895.8	2,862.9	-1,021.2	744,956.97	1,064,218.23	31° 40' 48.624 N	103° 20' 30.766 W
14,971.0	90.85	336.09	11,895.3	2,949.5	-1,060.2	745,043.60	1,064,179.25	31° 40' 49.470 N	103° 20' 31.244 W
15,065.0	91.25	336.54	11,893.6	3,035.6	-1,097.9	745,129.67	1,064,141.50	31° 40' 50.312 N	103° 20' 31.708 W
15,159.0	91.25	336.45	11,891.5	3,121.7	-1,135.4	745,215.85	1,064,104.02	31° 40' 51.154 N	103° 20' 32.169 W
15,253.0	90.18	335.89	11,890.3	3,207.7	-1,173.4	745,301.82	1,064,066.04	31° 40' 51.995 N	103° 20' 32.635 W
15,347.0	89.11	335.40	11,890.9	3,293.3	-1,212.1	745,387.46	1,064,027.28	31° 40' 52.831 N	103° 20' 33.110 W
15,441.0	88.53	335.41	11,892.9	3,378.8	-1,251.3	745,472.91	1,063,988.17	31° 40' 53.666 N	103° 20' 33.589 W
15,535.0	88.99	336.96	11,894.9	3,464.8	-1,289.2	745,558.88	1,063,950.22	31° 40' 54.507 N	103° 20' 34.055 W
15,629.0	89.89	338.11	11,895.8	3,551.6	-1,325.1	745,645.74	1,063,914.30	31° 40' 55.356 N	103° 20' 34.498 W
15,724.0	89.68	339.45	11,896.2	3,640.2	-1,359.5	745,734.30	1,063,879.92	31° 40' 56.223 N	103° 20' 34.923 W
15,818.0	89.60	341.56	11,896.8	3,728.8	-1,390.9	745,822.90	1,063,848.55	31° 40' 57.091 N	103° 20' 35.314 W
15,912.0	90.11	344.24	11,897.0	3,818.6	-1,418.5	745,912.74	1,063,820.91	31° 40' 57.973 N	103° 20' 35.662 W
16,006.0	89.45	346.17	11,897.4	3,909.5	-1,442.5	746,003.62	1,063,796.91	31° 40' 58.865 N	103° 20' 35.968 W
16,101.0	88.68	346.38	11,898.9	4,001.8	-1,465.0	746,095.89	1,063,774.37	31° 40' 59.772 N	103° 20' 36.258 W

**ConocoPhillips**  
Survey Report - Geographic

<b>Company:</b>	DELAWARE BASIN SOUTH	<b>Local Co-ordinate Reference:</b>	Well UL 20 GOLD SPOON #2901H
<b>Project:</b>	LOVING/WINKLER COUNTY, TX	<b>TVD Reference:</b>	KB=26 @ 2819.6usft
<b>Site:</b>	UL 20 GOLD SPOON	<b>MD Reference:</b>	KB=26 @ 2819.6usft
<b>Well:</b>	UL 20 GOLD SPOON #2901H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWP	<b>Database:</b>	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
16,195.0	89.68	347.54	11,900.2	4,093.3	-1,486.3	746,187.45	1,063,753.17	31° 41' 0.673 N	103° 20' 36.532 W
16,289.0	90.96	348.58	11,899.7	4,185.3	-1,505.7	746,279.42	1,063,733.72	31° 41' 1.577 N	103° 20' 36.785 W
16,382.0	90.45	348.73	11,898.6	4,276.5	-1,524.0	746,370.59	1,063,715.43	31° 41' 2.474 N	103° 20' 37.025 W
16,476.0	89.76	348.57	11,898.4	4,368.6	-1,542.5	746,462.75	1,063,696.93	31° 41' 3.381 N	103° 20' 37.268 W
16,571.0	89.53	348.65	11,899.0	4,461.8	-1,561.3	746,555.88	1,063,678.17	31° 41' 4.297 N	103° 20' 37.515 W
16,664.0	88.99	349.15	11,900.2	4,553.0	-1,579.2	746,647.13	1,063,660.27	31° 41' 5.195 N	103° 20' 37.750 W
16,708.0	89.34	349.43	11,900.8	4,596.3	-1,587.3	746,690.36	1,063,652.09	31° 41' 5.621 N	103° 20' 37.858 W
<b>LAST SURVEY @ 16708 MD / 11900.8 TVD</b>									
16,746.3	89.34	349.43	11,901.3	4,633.9	-1,594.4	746,727.98	1,063,645.07	31° 41' 5.991 N	103° 20' 37.951 W
<b>LTP @ 16746.3 MD / 11901.3 TVD</b>									
16,770.0	89.34	349.43	11,901.6	4,657.2	-1,598.7	746,751.30	1,063,640.72	31° 41' 6.221 N	103° 20' 38.009 W
<b>PTB @ 16770 MD / 11901.6 TVD</b>									

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
16,820.9	11,900.2	5-1/2" Production Casing	5-1/2	6-3/4	

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment	
		+N/-S (usft)	+E/-W (usft)		
12,030.0	11,830.7	152.2	-201.0	FTP @ 12030 MD / 11830.7 TVD	
16,708.0	11,900.8	4,596.3	-1,587.3	LAST SURVEY @ 16708 MD / 11900.8 TVD	
16,746.3	11,901.3	4,633.9	-1,594.4	LTP @ 16746.3 MD / 11901.3 TVD	
16,770.0	11,901.6	4,657.2	-1,598.7	PTB @ 16770 MD / 11901.6 TVD	

Checked By: _____	Approved By: _____	Date: _____
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