

DELAWARE BASIN SOUTH

LOVING/WINKLER COUNTY, TX

UL 20 GOLD SPOON

UL 20 GOLD SPOON #2904H

423013607200

OWB

Design: AWP

Standard Survey Report

31 May, 2023

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN SOUTH	Local Co-ordinate Reference:	Well UL 20 GOLD SPOON #2904H
Project:	LOVING/WINKLER COUNTY, TX	TVD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Site:	UL 20 GOLD SPOON	MD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Well:	UL 20 GOLD SPOON #2904H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDT 17 Central Planning Prod

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

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

Well		UL 20 GOLD SPOON #2904H				
Well Position	+N/-S	0.0 usft	Northing:	742,950.67 usft	Latitude:	31° 40' 29.830 N
	+E/-W	0.0 usft	Easting:	1,068,169.58 usft	Longitude:	103° 19' 44.430 W
Position Uncertainty		3.0 usft	Wellhead Elevation:	usft	Ground Level:	2,776.8 usft
Grid Convergence:		-1.54 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	6/1/2023	6.53	59.33	46,968.05514293

Design	AWP				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	333.95	

Survey Program	Date	5/31/2023			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
100.0	11,143.0	SDI GYRO-INTERMEDIATE (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp.-Initilzd Cont. rev.5	
11,220.0	12,090.0	MWD+IFR1+MS-CVE (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5	
12,165.0	16,993.0	MWD+IFR1+MS-LAT (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5	

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00	
100.0	0.78	343.84	100.0	0.7	-0.2	0.7	0.78	0.78	0.00	
125.0	0.76	344.27	125.0	1.0	-0.3	1.0	0.08	-0.08	1.72	
150.0	0.79	342.23	150.0	1.3	-0.4	1.3	0.16	0.12	-8.16	
175.0	0.90	337.88	175.0	1.6	-0.5	1.7	0.51	0.44	-17.40	
200.0	0.84	340.66	200.0	2.0	-0.6	2.1	0.29	-0.24	11.12	
225.0	0.84	337.10	225.0	2.3	-0.8	2.4	0.21	0.00	-14.24	
250.0	0.86	340.58	250.0	2.7	-0.9	2.8	0.22	0.08	13.92	

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Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDT 17 Central Planning Prod

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
275.0	0.78	340.45	275.0	3.0	-1.0	3.2	0.32	-0.32	-0.52	
300.0	0.85	325.06	300.0	3.3	-1.2	3.5	0.92	0.28	-61.56	
325.0	0.67	315.49	325.0	3.6	-1.4	3.8	0.88	-0.72	-38.28	
350.0	0.70	304.60	350.0	3.8	-1.6	4.1	0.53	0.12	-43.56	
375.0	0.60	300.58	375.0	3.9	-1.9	4.4	0.44	-0.40	-16.08	
400.0	0.59	288.97	400.0	4.0	-2.1	4.6	0.48	-0.04	-46.44	
425.0	0.69	275.20	425.0	4.1	-2.4	4.7	0.73	0.40	-55.08	
450.0	0.73	267.22	450.0	4.1	-2.7	4.9	0.43	0.16	-31.92	
475.0	0.69	272.97	475.0	4.1	-3.0	5.0	0.33	-0.16	23.00	
500.0	0.69	271.15	500.0	4.1	-3.3	5.1	0.09	0.00	-7.28	
525.0	0.74	269.34	525.0	4.1	-3.6	5.3	0.22	0.20	-7.24	
550.0	0.81	268.81	550.0	4.1	-3.9	5.4	0.28	0.28	-2.12	
575.0	0.64	271.77	575.0	4.1	-4.3	5.6	0.70	-0.68	11.84	
600.0	0.75	271.39	600.0	4.1	-4.6	5.7	0.44	0.44	-1.52	
625.0	0.79	271.39	625.0	4.1	-4.9	5.9	0.16	0.16	0.00	
650.0	0.86	252.23	649.9	4.1	-5.2	6.0	1.13	0.28	-76.64	
675.0	0.81	242.56	674.9	3.9	-5.6	6.0	0.60	-0.20	-38.68	
700.0	0.81	246.72	699.9	3.8	-5.9	6.0	0.24	0.00	16.64	
725.0	0.75	236.94	724.9	3.6	-6.2	6.0	0.58	-0.24	-39.12	
750.0	0.88	237.66	749.9	3.4	-6.5	5.9	0.52	0.52	2.88	
775.0	0.89	239.42	774.9	3.2	-6.8	5.9	0.12	0.04	7.04	
800.0	1.03	232.58	799.9	3.0	-7.2	5.8	0.72	0.56	-27.36	
825.0	0.90	234.86	824.9	2.8	-7.5	5.8	0.54	-0.52	9.12	
850.0	0.93	240.33	849.9	2.5	-7.8	5.7	0.37	0.12	21.88	
875.0	0.95	238.37	874.9	2.3	-8.2	5.7	0.15	0.08	-7.84	
900.0	0.94	237.48	899.9	2.1	-8.6	5.7	0.07	-0.04	-3.56	
925.0	0.87	236.16	924.9	1.9	-8.9	5.6	0.29	-0.28	-5.28	
950.0	0.97	238.51	949.9	1.7	-9.2	5.6	0.43	0.40	9.40	
975.0	1.24	245.21	974.9	1.5	-9.6	5.5	1.20	1.08	26.80	
1,000.0	1.23	240.22	999.9	1.2	-10.1	5.5	0.43	-0.04	-19.96	
1,025.0	1.18	240.42	1,024.9	0.9	-10.6	5.5	0.20	-0.20	0.80	
1,050.0	1.17	243.42	1,049.9	0.7	-11.0	5.5	0.25	-0.04	12.00	
1,075.0	1.33	245.59	1,074.9	0.5	-11.5	5.5	0.67	0.64	8.68	
1,100.0	1.27	242.56	1,099.9	0.2	-12.0	5.5	0.36	-0.24	-12.12	
1,125.0	1.24	234.54	1,124.9	-0.1	-12.5	5.4	0.71	-0.12	-32.08	
1,150.0	1.17	241.89	1,149.9	-0.3	-12.9	5.4	0.68	-0.28	29.40	
1,175.0	1.21	243.14	1,174.9	-0.6	-13.4	5.4	0.19	0.16	5.00	
1,200.0	1.24	244.81	1,199.9	-0.8	-13.9	5.4	0.19	0.12	6.68	
1,225.0	1.32	243.21	1,224.9	-1.1	-14.4	5.4	0.35	0.32	-6.40	
1,250.0	1.24	241.47	1,249.8	-1.3	-14.9	5.4	0.36	-0.32	-6.96	
1,275.0	1.33	243.91	1,274.8	-1.6	-15.4	5.3	0.42	0.36	9.76	
1,300.0	1.54	245.90	1,299.8	-1.8	-16.0	5.4	0.86	0.84	7.96	
1,325.0	2.62	248.79	1,324.8	-2.2	-16.8	5.4	4.34	4.32	11.56	

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Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
1,350.0	4.09	247.24	1,349.8	-2.7	-18.1	5.5	5.89	5.88	-6.20	
1,375.0	4.94	248.53	1,374.7	-3.5	-20.0	5.6	3.42	3.40	5.16	
1,400.0	5.27	249.34	1,399.6	-4.3	-22.0	5.8	1.35	1.32	3.24	
1,425.0	5.40	248.87	1,424.5	-5.1	-24.2	6.1	0.55	0.52	-1.88	
1,450.0	5.42	248.79	1,449.4	-6.0	-26.4	6.3	0.09	0.08	-0.32	
1,475.0	5.64	248.66	1,474.3	-6.8	-28.7	6.5	0.88	0.88	-0.52	
1,500.0	6.02	248.37	1,499.1	-7.8	-31.0	6.7	1.52	1.52	-1.16	
1,525.0	7.80	249.93	1,523.9	-8.8	-33.8	6.9	7.16	7.12	6.24	
1,550.0	8.77	250.52	1,548.7	-10.0	-37.2	7.3	3.89	3.88	2.36	
1,575.0	9.46	250.29	1,573.4	-11.4	-41.0	7.8	2.76	2.76	-0.92	
1,600.0	9.61	250.69	1,598.0	-12.7	-44.9	8.2	0.66	0.60	1.60	
1,625.0	9.69	250.42	1,622.7	-14.1	-48.8	8.7	0.37	0.32	-1.08	
1,650.0	9.74	250.54	1,647.3	-15.6	-52.8	9.2	0.22	0.20	0.48	
1,675.0	9.72	249.69	1,672.0	-17.0	-56.8	9.7	0.58	-0.08	-3.40	
1,700.0	9.67	251.03	1,696.6	-18.4	-60.7	10.1	0.92	-0.20	5.36	
1,725.0	9.74	250.14	1,721.2	-19.8	-64.7	10.6	0.66	0.28	-3.56	
1,750.0	9.78	250.77	1,745.9	-21.2	-68.7	11.1	0.46	0.16	2.52	
1,775.0	9.76	250.76	1,770.5	-22.6	-72.7	11.6	0.08	-0.08	-0.04	
1,800.0	9.74	250.89	1,795.2	-24.0	-76.7	12.1	0.12	-0.08	0.52	
1,825.0	9.67	250.63	1,819.8	-25.4	-80.7	12.6	0.33	-0.28	-1.04	
1,850.0	9.69	250.51	1,844.4	-26.8	-84.6	13.1	0.11	0.08	-0.48	
1,875.0	9.71	250.84	1,869.1	-28.2	-88.6	13.6	0.24	0.08	1.32	
1,900.0	9.60	250.51	1,893.7	-29.6	-92.6	14.1	0.49	-0.44	-1.32	
1,925.0	9.57	251.02	1,918.4	-31.0	-96.5	14.6	0.36	-0.12	2.04	
1,950.0	9.51	250.95	1,943.0	-32.3	-100.4	15.1	0.24	-0.24	-0.28	
1,975.0	9.54	251.29	1,967.7	-33.6	-104.3	15.6	0.26	0.12	1.36	
2,000.0	9.58	251.07	1,992.3	-35.0	-108.3	16.1	0.22	0.16	-0.88	
2,025.0	9.57	251.38	2,017.0	-36.3	-112.2	16.6	0.21	-0.04	1.24	
2,050.0	9.57	251.73	2,041.6	-37.6	-116.1	17.2	0.23	0.00	1.40	
2,075.0	9.51	251.72	2,066.3	-38.9	-120.1	17.7	0.24	-0.24	-0.04	
2,100.0	9.39	251.84	2,091.0	-40.2	-124.0	18.3	0.49	-0.48	0.48	
2,125.0	9.55	251.90	2,115.6	-41.5	-127.9	18.9	0.64	0.64	0.24	
2,150.0	9.38	251.89	2,140.3	-42.8	-131.8	19.4	0.68	-0.68	-0.04	
2,175.0	9.37	251.37	2,164.9	-44.1	-135.7	20.0	0.34	-0.04	-2.08	
2,200.0	9.36	252.08	2,189.6	-45.3	-139.5	20.5	0.46	-0.04	2.84	
2,225.0	9.33	251.70	2,214.3	-46.6	-143.4	21.1	0.27	-0.12	-1.52	
2,250.0	9.39	251.84	2,238.9	-47.9	-147.2	21.6	0.26	0.24	0.56	
2,275.0	9.42	252.00	2,263.6	-49.1	-151.1	22.2	0.16	0.12	0.64	
2,300.0	9.62	250.00	2,288.3	-50.5	-155.0	22.7	1.55	0.80	-8.00	
2,325.0	10.01	245.26	2,312.9	-52.1	-159.0	23.0	3.59	1.56	-18.96	
2,350.0	10.26	244.04	2,337.5	-54.0	-162.9	23.0	1.32	1.00	-4.88	
2,375.0	10.27	243.64	2,362.1	-56.0	-166.9	23.0	0.29	0.04	-1.60	
2,400.0	10.31	243.52	2,386.7	-57.9	-170.9	23.0	0.18	0.16	-0.48	
2,425.0	10.34	243.59	2,411.3	-59.9	-175.0	23.0	0.13	0.12	0.28	

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2,450.0	10.27	243.31	2,435.9	-61.9	-179.0	22.9	0.34	-0.28	-1.12
2,475.0	10.15	243.31	2,460.5	-63.9	-182.9	22.9	0.48	-0.48	0.00
2,500.0	10.13	243.51	2,485.1	-65.9	-186.9	22.8	0.16	-0.08	0.80
2,525.0	10.19	243.50	2,509.7	-67.9	-190.8	22.8	0.24	0.24	-0.04
2,550.0	10.15	243.44	2,534.3	-69.8	-194.7	22.8	0.17	-0.16	-0.24
2,575.0	10.06	243.48	2,558.9	-71.8	-198.7	22.7	0.36	-0.36	0.16
2,600.0	10.04	243.62	2,583.6	-73.7	-202.6	22.7	0.13	-0.08	0.56
2,625.0	10.04	243.00	2,608.2	-75.7	-206.5	22.7	0.43	0.00	-2.48
2,650.0	9.94	244.19	2,632.8	-77.6	-210.4	22.6	0.92	-0.40	4.76
2,675.0	10.02	243.85	2,657.4	-79.5	-214.3	22.6	0.40	0.32	-1.36
2,700.0	9.79	244.41	2,682.0	-81.4	-218.1	22.6	1.00	-0.92	2.24
2,725.0	9.75	244.25	2,706.7	-83.2	-221.9	22.7	0.19	-0.16	-0.64
2,750.0	9.61	244.33	2,731.3	-85.1	-225.7	22.7	0.56	-0.56	0.32
2,775.0	9.56	244.30	2,756.0	-86.9	-229.5	22.7	0.20	-0.20	-0.12
2,800.0	9.54	244.48	2,780.6	-88.7	-233.2	22.8	0.14	-0.08	0.72
2,825.0	9.54	244.33	2,805.3	-90.4	-237.0	22.8	0.10	0.00	-0.60
2,850.0	9.42	244.08	2,829.9	-92.2	-240.7	22.8	0.51	-0.48	-1.00
2,875.0	9.29	243.91	2,854.6	-94.0	-244.3	22.8	0.53	-0.52	-0.68
2,900.0	9.34	243.02	2,879.3	-95.8	-247.9	22.8	0.61	0.20	-3.56
2,925.0	9.34	242.97	2,903.9	-97.7	-251.6	22.7	0.03	0.00	-0.20
2,950.0	9.44	241.35	2,928.6	-99.6	-255.2	22.6	1.13	0.40	-6.48
2,975.0	10.29	235.56	2,953.2	-101.8	-258.8	22.2	5.22	3.40	-23.16
3,000.0	10.49	232.45	2,977.8	-104.5	-262.4	21.4	2.38	0.80	-12.44
3,025.0	10.40	233.41	3,002.4	-107.2	-266.1	20.5	0.78	-0.36	3.84
3,050.0	10.46	233.68	3,027.0	-109.9	-269.7	19.7	0.31	0.24	1.08
3,075.0	10.49	233.59	3,051.6	-112.6	-273.4	18.9	0.14	0.12	-0.36
3,100.0	10.37	233.46	3,076.2	-115.3	-277.0	18.1	0.49	-0.48	-0.52
3,125.0	10.41	232.99	3,100.8	-118.0	-280.6	17.2	0.37	0.16	-1.88
3,150.0	10.12	234.04	3,125.4	-120.6	-284.2	16.4	1.38	-1.16	4.20
3,175.0	10.17	233.19	3,150.0	-123.2	-287.7	15.6	0.63	0.20	-3.40
3,200.0	10.18	234.16	3,174.6	-125.9	-291.3	14.8	0.69	0.04	3.88
3,225.0	10.10	234.16	3,199.2	-128.4	-294.9	14.1	0.32	-0.32	0.00
3,250.0	10.11	234.03	3,223.8	-131.0	-298.4	13.3	0.10	0.04	-0.52
3,275.0	10.24	233.78	3,248.4	-133.6	-302.0	12.6	0.55	0.52	-1.00
3,300.0	10.20	234.03	3,273.0	-136.2	-305.6	11.8	0.24	-0.16	1.00
3,325.0	10.46	236.30	3,297.6	-138.8	-309.3	11.1	1.93	1.04	9.08
3,350.0	10.87	239.28	3,322.2	-141.2	-313.2	10.6	2.75	1.64	11.92
3,375.0	10.93	240.59	3,346.7	-143.6	-317.3	10.3	1.02	0.24	5.24
3,400.0	11.12	240.44	3,371.3	-146.0	-321.4	10.0	0.77	0.76	-0.60
3,425.0	11.12	241.48	3,395.8	-148.3	-325.6	9.7	0.80	0.00	4.16
3,450.0	11.15	240.89	3,420.3	-150.6	-329.9	9.5	0.47	0.12	-2.36
3,475.0	11.11	241.51	3,444.9	-153.0	-334.1	9.3	0.50	-0.16	2.48
3,500.0	11.05	240.19	3,469.4	-155.3	-338.3	9.0	1.04	-0.24	-5.28

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN SOUTH	Local Co-ordinate Reference:	Well UL 20 GOLD SPOON #2904H
Project:	LOVING/WINKLER COUNTY, TX	TVD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Site:	UL 20 GOLD SPOON	MD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Well:	UL 20 GOLD SPOON #2904H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDT 17 Central Planning Prod

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
3,525.0	11.07	241.59	3,493.9	-157.6	-342.5	8.8	1.08	0.08	5.60	
3,550.0	10.90	242.15	3,518.5	-159.9	-346.7	8.6	0.80	-0.68	2.24	
3,575.0	10.63	242.22	3,543.0	-162.1	-350.8	8.4	1.08	-1.08	0.28	
3,600.0	10.35	242.59	3,567.6	-164.2	-354.8	8.3	1.15	-1.12	1.48	
3,625.0	9.94	242.91	3,592.2	-166.2	-358.8	8.2	1.66	-1.64	1.28	
3,650.0	9.58	243.34	3,616.9	-168.1	-362.5	8.2	1.47	-1.44	1.72	
3,675.0	9.45	242.86	3,641.5	-170.0	-366.2	8.1	0.61	-0.52	-1.92	
3,700.0	9.04	242.85	3,666.2	-171.8	-369.8	8.0	1.64	-1.64	-0.04	
3,725.0	8.96	242.42	3,690.9	-173.6	-373.3	7.9	0.42	-0.32	-1.72	
3,750.0	9.00	242.08	3,715.6	-175.4	-376.7	7.8	0.27	0.16	-1.36	
3,775.0	9.25	239.11	3,740.3	-177.4	-380.2	7.6	2.13	1.00	-11.88	
3,800.0	9.89	235.02	3,764.9	-179.6	-383.7	7.1	3.73	2.56	-16.36	
3,825.0	9.97	234.38	3,789.5	-182.1	-387.2	6.4	0.55	0.32	-2.56	
3,850.0	9.91	234.03	3,814.2	-184.6	-390.7	5.7	0.34	-0.24	-1.40	
3,875.0	9.59	232.95	3,838.8	-187.2	-394.1	4.9	1.47	-1.28	-4.32	
3,900.0	9.62	232.30	3,863.4	-189.7	-397.4	4.1	0.45	0.12	-2.60	
3,925.0	9.44	232.40	3,888.1	-192.2	-400.7	3.2	0.72	-0.72	0.40	
3,950.0	9.54	231.68	3,912.8	-194.8	-403.9	2.4	0.62	0.40	-2.88	
3,975.0	10.22	232.65	3,937.4	-197.4	-407.3	1.5	2.80	2.72	3.88	
4,000.0	11.18	232.28	3,962.0	-200.2	-411.0	0.6	3.85	3.84	-1.48	
4,025.0	11.21	233.87	3,986.5	-203.1	-414.9	-0.3	1.24	0.12	6.36	
4,050.0	11.22	233.90	4,011.0	-206.0	-418.8	-1.2	0.05	0.04	0.12	
4,075.0	11.13	233.98	4,035.5	-208.8	-422.7	-2.0	0.37	-0.36	0.32	
4,100.0	10.93	233.03	4,060.1	-211.7	-426.6	-2.9	1.08	-0.80	-3.80	
4,125.0	10.65	232.08	4,084.6	-214.5	-430.3	-3.8	1.33	-1.12	-3.80	
4,150.0	10.36	231.81	4,109.2	-217.3	-433.9	-4.8	1.18	-1.16	-1.08	
4,175.0	10.10	231.47	4,133.8	-220.1	-437.3	-5.7	1.07	-1.04	-1.36	
4,200.0	9.68	231.08	4,158.4	-222.8	-440.7	-6.7	1.70	-1.68	-1.56	
4,225.0	9.60	230.75	4,183.1	-225.4	-443.9	-7.6	0.39	-0.32	-1.32	
4,250.0	9.18	230.16	4,207.7	-228.0	-447.1	-8.5	1.72	-1.68	-2.36	
4,275.0	8.93	229.94	4,232.4	-230.5	-450.1	-9.5	1.01	-1.00	-0.88	
4,300.0	8.86	229.94	4,257.1	-233.0	-453.1	-10.4	0.28	-0.28	0.00	
4,325.0	8.77	230.25	4,281.8	-235.5	-456.0	-11.3	0.41	-0.36	1.24	
4,350.0	8.61	230.37	4,306.6	-237.9	-458.9	-12.2	0.64	-0.64	0.48	
4,375.0	8.68	230.18	4,331.3	-240.3	-461.8	-13.1	0.30	0.28	-0.76	
4,400.0	8.74	230.53	4,356.0	-242.7	-464.7	-14.0	0.32	0.24	1.40	
4,425.0	10.07	236.37	4,380.6	-245.1	-468.0	-14.7	6.54	5.32	23.36	
4,450.0	11.46	240.16	4,405.2	-247.6	-472.0	-15.2	6.24	5.56	15.16	
4,475.0	11.67	241.35	4,429.7	-250.0	-476.4	-15.5	1.27	0.84	4.76	
4,500.0	11.72	240.65	4,454.2	-252.5	-480.8	-15.7	0.60	0.20	-2.80	
4,525.0	11.65	241.44	4,478.7	-254.9	-485.2	-16.0	0.70	-0.28	3.16	
4,550.0	11.48	241.65	4,503.2	-257.3	-489.6	-16.2	0.70	-0.68	0.84	
4,575.0	11.29	242.07	4,527.7	-259.7	-494.0	-16.4	0.83	-0.76	1.68	

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN SOUTH	Local Co-ordinate Reference:	Well UL 20 GOLD SPOON #2904H
Project:	LOVING/WINKLER COUNTY, TX	TVD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Site:	UL 20 GOLD SPOON	MD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Well:	UL 20 GOLD SPOON #2904H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,600.0	10.94	241.89	4,552.2	-261.9	-498.2	-16.6	1.41	-1.40	-0.72
4,625.0	10.43	242.02	4,576.8	-264.1	-502.3	-16.7	2.04	-2.04	0.52
4,650.0	10.22	242.51	4,601.4	-266.2	-506.3	-16.8	0.91	-0.84	1.96
4,675.0	9.99	241.70	4,626.0	-268.2	-510.2	-17.0	1.08	-0.92	-3.24
4,700.0	9.62	244.85	4,650.6	-270.2	-514.0	-17.0	2.61	-1.48	12.60
4,725.0	9.38	246.19	4,675.3	-271.9	-517.7	-16.9	1.31	-0.96	5.36
4,750.0	9.14	248.41	4,699.9	-273.4	-521.4	-16.7	1.72	-0.96	8.88
4,775.0	9.06	248.00	4,724.6	-274.9	-525.1	-16.4	0.41	-0.32	-1.64
4,800.0	8.82	249.39	4,749.3	-276.3	-528.7	-16.1	1.29	-0.96	5.56
4,825.0	8.33	248.41	4,774.0	-277.6	-532.2	-15.8	2.05	-1.96	-3.92
4,850.0	8.15	248.41	4,798.8	-279.0	-535.5	-15.5	0.72	-0.72	0.00
4,875.0	7.95	247.86	4,823.5	-280.3	-538.8	-15.2	0.86	-0.80	-2.20
4,900.0	7.71	246.42	4,848.3	-281.6	-541.9	-15.0	1.24	-0.96	-5.76
4,925.0	7.65	246.93	4,873.1	-282.9	-545.0	-14.9	0.36	-0.24	2.04
4,950.0	7.66	246.50	4,897.8	-284.2	-548.0	-14.7	0.23	0.04	-1.72
4,975.0	8.13	247.36	4,922.6	-285.6	-551.2	-14.5	1.94	1.88	3.44
5,000.0	8.80	248.99	4,947.3	-286.9	-554.6	-14.3	2.85	2.68	6.52
5,025.0	9.00	250.19	4,972.0	-288.3	-558.2	-13.9	1.09	0.80	4.80
5,050.0	9.31	250.32	4,996.7	-289.6	-562.0	-13.4	1.24	1.24	0.52
5,075.0	10.44	252.03	5,021.3	-291.0	-566.0	-12.9	4.67	4.52	6.84
5,100.0	12.02	253.23	5,045.9	-292.5	-570.7	-12.2	6.39	6.32	4.80
5,125.0	12.90	254.19	5,070.3	-294.0	-575.9	-11.3	3.62	3.52	3.84
5,150.0	12.92	254.37	5,094.6	-295.5	-581.2	-10.3	0.18	0.08	0.72
5,175.0	12.85	254.40	5,119.0	-297.0	-586.6	-9.2	0.28	-0.28	0.12
5,200.0	12.23	254.23	5,143.4	-298.4	-591.8	-8.3	2.48	-2.48	-0.68
5,225.0	11.82	253.45	5,167.9	-299.9	-596.8	-7.4	1.76	-1.64	-3.12
5,250.0	11.65	253.58	5,192.4	-301.3	-601.7	-6.5	0.69	-0.68	0.52
5,275.0	11.64	253.66	5,216.8	-302.8	-606.6	-5.7	0.08	-0.04	0.32
5,300.0	11.51	253.76	5,241.3	-304.2	-611.4	-4.8	0.53	-0.52	0.40
5,325.0	11.52	253.54	5,265.8	-305.6	-616.2	-4.0	0.18	0.04	-0.88
5,350.0	11.52	253.13	5,290.3	-307.0	-620.9	-3.2	0.33	0.00	-1.64
5,375.0	11.41	252.96	5,314.8	-308.5	-625.7	-2.4	0.46	-0.44	-0.68
5,400.0	11.38	252.36	5,339.3	-309.9	-630.4	-1.6	0.49	-0.12	-2.40
5,425.0	11.35	252.34	5,363.8	-311.4	-635.1	-0.9	0.12	-0.12	-0.08
5,450.0	11.35	252.28	5,388.4	-312.9	-639.8	-0.2	0.05	0.00	-0.24
5,475.0	11.24	252.05	5,412.9	-314.4	-644.5	0.5	0.48	-0.44	-0.92
5,500.0	11.22	251.76	5,437.4	-315.9	-649.1	1.2	0.24	-0.08	-1.16
5,525.0	11.12	251.69	5,461.9	-317.4	-653.7	1.8	0.40	-0.40	-0.28
5,550.0	11.14	251.45	5,486.4	-319.0	-658.3	2.5	0.20	0.08	-0.96
5,575.0	11.15	251.55	5,511.0	-320.5	-662.8	3.1	0.09	0.04	0.40
5,600.0	11.10	251.40	5,535.5	-322.0	-667.4	3.7	0.23	-0.20	-0.60
5,625.0	11.15	251.26	5,560.0	-323.6	-672.0	4.3	0.23	0.20	-0.56
5,650.0	11.05	250.85	5,584.6	-325.1	-676.5	4.9	0.51	-0.40	-1.64
5,675.0	10.97	250.45	5,609.1	-326.7	-681.0	5.5	0.44	-0.32	-1.60

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN SOUTH	Local Co-ordinate Reference:	Well UL 20 GOLD SPOON #2904H
Project:	LOVING/WINKLER COUNTY, TX	TVD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Site:	UL 20 GOLD SPOON	MD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Well:	UL 20 GOLD SPOON #2904H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,700.0	10.94	250.38	5,633.7	-328.3	-685.5	6.0	0.13	-0.12	-0.28
5,725.0	10.80	249.47	5,658.2	-329.9	-690.0	6.5	0.89	-0.56	-3.64
5,750.0	10.59	250.50	5,682.8	-331.5	-694.3	7.0	1.14	-0.84	4.12
5,775.0	10.53	249.89	5,707.3	-333.1	-698.6	7.5	0.51	-0.24	-2.44
5,800.0	10.18	249.24	5,731.9	-334.6	-702.8	7.9	1.48	-1.40	-2.60
5,825.0	10.20	248.52	5,756.5	-336.2	-707.0	8.3	0.52	0.08	-2.88
5,850.0	9.88	248.81	5,781.2	-337.8	-711.0	8.7	1.30	-1.28	1.16
5,875.0	9.82	248.73	5,805.8	-339.4	-715.0	9.0	0.25	-0.24	-0.32
5,900.0	9.85	248.65	5,830.4	-340.9	-719.0	9.4	0.13	0.12	-0.32
5,925.0	9.72	248.42	5,855.1	-342.5	-722.9	9.7	0.54	-0.52	-0.92
5,950.0	9.72	247.87	5,879.7	-344.1	-726.9	10.0	0.37	0.00	-2.20
5,975.0	9.57	247.58	5,904.3	-345.6	-730.7	10.3	0.63	-0.60	-1.16
6,000.0	9.55	246.78	5,929.0	-347.2	-734.6	10.6	0.54	-0.08	-3.20
6,025.0	9.39	247.27	5,953.7	-348.9	-738.3	10.8	0.72	-0.64	1.96
6,050.0	9.38	246.49	5,978.3	-350.5	-742.1	11.0	0.51	-0.04	-3.12
6,075.0	8.83	246.34	6,003.0	-352.0	-745.7	11.2	2.20	-2.20	-0.60
6,100.0	8.74	246.27	6,027.7	-353.6	-749.2	11.3	0.36	-0.36	-0.28
6,125.0	8.60	245.39	6,052.4	-355.1	-752.7	11.4	0.77	-0.56	-3.52
6,150.0	7.70	239.42	6,077.2	-356.7	-755.8	11.3	4.94	-3.60	-23.88
6,175.0	6.98	233.37	6,102.0	-358.5	-758.5	10.9	4.22	-2.88	-24.20
6,200.0	6.81	231.56	6,126.8	-360.3	-760.8	10.3	1.10	-0.68	-7.24
6,225.0	6.63	230.63	6,151.6	-362.2	-763.1	9.7	0.84	-0.72	-3.72
6,250.0	6.19	221.75	6,176.5	-364.1	-765.1	8.8	4.33	-1.76	-35.52
6,275.0	6.08	215.70	6,201.3	-366.2	-766.8	7.7	2.62	-0.44	-24.20
6,300.0	5.82	212.49	6,226.2	-368.3	-768.2	6.4	1.69	-1.04	-12.84
6,325.0	5.83	211.30	6,251.1	-370.5	-769.6	5.1	0.48	0.04	-4.76
6,350.0	5.55	202.51	6,275.9	-372.7	-770.7	3.6	3.66	-1.12	-35.16
6,375.0	5.49	198.25	6,300.8	-374.9	-771.5	1.9	1.66	-0.24	-17.04
6,400.0	5.36	195.54	6,325.7	-377.2	-772.2	0.2	1.15	-0.52	-10.84
6,425.0	5.35	194.92	6,350.6	-379.4	-772.8	-1.6	0.23	-0.04	-2.48
6,450.0	5.45	193.66	6,375.5	-381.7	-773.4	-3.3	0.62	0.40	-5.04
6,475.0	5.23	193.08	6,400.4	-384.0	-774.0	-5.1	0.91	-0.88	-2.32
6,500.0	5.29	189.36	6,425.3	-386.2	-774.4	-7.0	1.38	0.24	-14.88
6,525.0	4.72	184.33	6,450.2	-388.4	-774.7	-8.8	2.88	-2.28	-20.12
6,550.0	4.63	181.88	6,475.1	-390.4	-774.8	-10.6	0.88	-0.36	-9.80
6,575.0	4.53	178.61	6,500.0	-392.4	-774.8	-12.4	1.12	-0.40	-13.08
6,600.0	4.55	176.69	6,524.9	-394.4	-774.7	-14.2	0.61	0.08	-7.68
6,625.0	4.35	174.08	6,549.9	-396.3	-774.6	-16.0	1.14	-0.80	-10.44
6,650.0	4.37	175.75	6,574.8	-398.2	-774.4	-17.8	0.51	0.08	6.68
6,675.0	4.22	175.25	6,599.7	-400.1	-774.2	-19.5	0.62	-0.60	-2.00
6,700.0	3.29	169.79	6,624.7	-401.7	-774.0	-21.0	3.98	-3.72	-21.84
6,725.0	2.34	161.86	6,649.6	-402.9	-773.8	-22.2	4.10	-3.80	-31.72
6,750.0	1.85	153.94	6,674.6	-403.7	-773.4	-23.1	2.27	-1.96	-31.68

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN SOUTH	Local Co-ordinate Reference:	Well UL 20 GOLD SPOON #2904H
Project:	LOVING/WINKLER COUNTY, TX	TVD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Site:	UL 20 GOLD SPOON	MD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Well:	UL 20 GOLD SPOON #2904H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,775.0	1.40	147.96	6,699.6	-404.4	-773.1	-23.9	1.92	-1.80	-23.92
6,800.0	1.57	145.22	6,724.6	-404.9	-772.7	-24.5	0.74	0.68	-10.96
6,825.0	1.56	148.27	6,749.6	-405.5	-772.4	-25.2	0.34	-0.04	12.20
6,850.0	1.53	145.88	6,774.6	-406.0	-772.0	-25.8	0.28	-0.12	-9.56
6,875.0	1.51	147.26	6,799.6	-406.6	-771.6	-26.5	0.17	-0.08	5.52
6,900.0	1.57	143.77	6,824.6	-407.2	-771.2	-27.2	0.45	0.24	-13.96
6,925.0	1.57	136.89	6,849.6	-407.7	-770.8	-27.8	0.75	0.00	-27.52
6,950.0	1.54	144.94	6,874.5	-408.2	-770.4	-28.5	0.88	-0.12	32.20
6,975.0	1.57	146.55	6,899.5	-408.8	-770.0	-29.2	0.21	0.12	6.44
7,000.0	1.50	143.89	6,924.5	-409.3	-769.6	-29.8	0.40	-0.28	-10.64
7,025.0	1.50	144.21	6,949.5	-409.8	-769.2	-30.5	0.03	0.00	1.28
7,050.0	1.54	142.61	6,974.5	-410.4	-768.8	-31.1	0.23	0.16	-6.40
7,075.0	1.50	149.08	6,999.5	-410.9	-768.5	-31.8	0.70	-0.16	25.88
7,100.0	1.61	149.87	7,024.5	-411.5	-768.1	-32.4	0.45	0.44	3.16
7,125.0	1.51	150.06	7,049.5	-412.1	-767.8	-33.1	0.40	-0.40	0.76
7,150.0	1.52	147.11	7,074.5	-412.7	-767.4	-33.8	0.31	0.04	-11.80
7,175.0	1.60	147.90	7,099.5	-413.2	-767.1	-34.5	0.33	0.32	3.16
7,200.0	1.67	150.07	7,124.5	-413.8	-766.7	-35.2	0.37	0.28	8.68
7,225.0	1.50	154.15	7,149.4	-414.5	-766.4	-35.9	0.82	-0.68	16.32
7,250.0	1.51	150.45	7,174.4	-415.0	-766.1	-36.5	0.39	0.04	-14.80
7,275.0	1.64	151.69	7,199.4	-415.6	-765.7	-37.2	0.54	0.52	4.96
7,300.0	1.58	152.25	7,224.4	-416.3	-765.4	-37.9	0.25	-0.24	2.24
7,325.0	1.61	146.93	7,249.4	-416.9	-765.1	-38.6	0.60	0.12	-21.28
7,350.0	1.53	152.32	7,274.4	-417.5	-764.7	-39.3	0.67	-0.32	21.56
7,375.0	1.68	149.40	7,299.4	-418.1	-764.4	-40.0	0.68	0.60	-11.68
7,400.0	1.56	151.01	7,324.4	-418.7	-764.0	-40.7	0.51	-0.48	6.44
7,425.0	1.56	148.84	7,349.4	-419.3	-763.7	-41.4	0.24	0.00	-8.68
7,450.0	1.51	150.25	7,374.4	-419.8	-763.3	-42.0	0.25	-0.20	5.64
7,475.0	1.34	152.07	7,399.4	-420.4	-763.0	-42.7	0.70	-0.68	7.28
7,500.0	1.34	151.59	7,424.3	-420.9	-762.8	-43.2	0.04	0.00	-1.92
7,525.0	1.28	152.45	7,449.3	-421.4	-762.5	-43.8	0.25	-0.24	3.44
7,550.0	1.30	152.70	7,474.3	-421.9	-762.2	-44.4	0.08	0.08	1.00
7,575.0	1.19	152.47	7,499.3	-422.4	-762.0	-44.9	0.44	-0.44	-0.92
7,600.0	1.25	157.34	7,524.3	-422.9	-761.8	-45.4	0.48	0.24	19.48
7,625.0	0.95	162.12	7,549.3	-423.3	-761.6	-45.9	1.25	-1.20	19.12
7,650.0	0.99	165.80	7,574.3	-423.7	-761.5	-46.3	0.30	0.16	14.72
7,675.0	0.96	169.25	7,599.3	-424.1	-761.4	-46.8	0.26	-0.12	13.80
7,700.0	0.97	167.52	7,624.3	-424.6	-761.3	-47.2	0.12	0.04	-6.92
7,725.0	1.01	165.16	7,649.3	-425.0	-761.2	-47.6	0.23	0.16	-9.44
7,750.0	0.95	160.40	7,674.3	-425.4	-761.1	-48.0	0.40	-0.24	-19.04
7,775.0	0.93	161.18	7,699.3	-425.8	-760.9	-48.4	0.09	-0.08	3.12
7,800.0	0.95	161.23	7,724.3	-426.2	-760.8	-48.8	0.08	0.08	0.20
7,825.0	0.86	159.93	7,749.3	-426.5	-760.7	-49.2	0.37	-0.36	-5.20

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN SOUTH	Local Co-ordinate Reference:	Well UL 20 GOLD SPOON #2904H
Project:	LOVING/WINKLER COUNTY, TX	TVD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Site:	UL 20 GOLD SPOON	MD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Well:	UL 20 GOLD SPOON #2904H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
7,850.0	0.88	159.19	7,774.3	-426.9	-760.5	-49.6	0.09	0.08	-2.96
7,875.0	0.86	158.31	7,799.3	-427.2	-760.4	-50.0	0.10	-0.08	-3.52
7,900.0	0.91	161.36	7,824.3	-427.6	-760.3	-50.3	0.27	0.20	12.20
7,925.0	0.99	165.80	7,849.3	-428.0	-760.1	-50.8	0.43	0.32	17.76
7,950.0	0.89	162.92	7,874.3	-428.4	-760.0	-51.2	0.44	-0.40	-11.52
7,975.0	0.88	166.09	7,899.3	-428.8	-759.9	-51.5	0.20	-0.04	12.68
8,000.0	0.93	164.78	7,924.3	-429.1	-759.8	-51.9	0.22	0.20	-5.24
8,025.0	0.89	160.04	7,949.3	-429.5	-759.7	-52.3	0.34	-0.16	-18.96
8,050.0	1.01	169.52	7,974.3	-429.9	-759.6	-52.7	0.79	0.48	37.92
8,075.0	0.90	167.61	7,999.3	-430.3	-759.5	-53.1	0.46	-0.44	-7.64
8,100.0	0.99	169.38	8,024.3	-430.7	-759.4	-53.5	0.38	0.36	7.08
8,125.0	1.06	163.63	8,049.3	-431.2	-759.3	-54.0	0.50	0.28	-23.00
8,150.0	1.04	172.41	8,074.2	-431.6	-759.2	-54.4	0.65	-0.08	35.12
8,175.0	0.92	166.83	8,099.2	-432.0	-759.2	-54.8	0.61	-0.48	-22.32
8,200.0	0.91	166.49	8,124.2	-432.4	-759.1	-55.2	0.05	-0.04	-1.36
8,225.0	0.91	167.88	8,149.2	-432.8	-759.0	-55.6	0.09	0.00	5.56
8,250.0	0.86	172.22	8,174.2	-433.2	-758.9	-56.0	0.33	-0.20	17.36
8,275.0	0.95	167.97	8,199.2	-433.6	-758.9	-56.3	0.45	0.36	-17.00
8,300.0	0.92	168.12	8,224.2	-434.0	-758.8	-56.7	0.12	-0.12	0.60
8,325.0	0.79	161.22	8,249.2	-434.3	-758.7	-57.1	0.66	-0.52	-27.60
8,350.0	0.84	168.80	8,274.2	-434.7	-758.6	-57.5	0.47	0.20	30.32
8,375.0	0.99	165.30	8,299.2	-435.1	-758.5	-57.8	0.64	0.60	-14.00
8,400.0	0.92	168.09	8,324.2	-435.5	-758.4	-58.2	0.34	-0.28	11.16
8,425.0	0.95	169.61	8,349.2	-435.9	-758.3	-58.6	0.16	0.12	6.08
8,450.0	0.97	172.42	8,374.2	-436.3	-758.2	-59.0	0.20	0.08	11.24
8,475.0	0.97	167.61	8,399.2	-436.7	-758.2	-59.4	0.33	0.00	-19.24
8,500.0	0.94	172.72	8,424.2	-437.1	-758.1	-59.8	0.36	-0.12	20.44
8,525.0	1.01	172.32	8,449.2	-437.5	-758.0	-60.3	0.28	0.28	-1.60
8,550.0	1.04	171.61	8,474.2	-438.0	-758.0	-60.7	0.13	0.12	-2.84
8,575.0	0.98	171.29	8,499.2	-438.4	-757.9	-61.1	0.24	-0.24	-1.28
8,600.0	1.06	162.67	8,524.2	-438.8	-757.8	-61.5	0.69	0.32	-34.48
8,625.0	1.01	174.41	8,549.2	-439.3	-757.7	-62.0	0.87	-0.20	46.96
8,650.0	1.20	185.16	8,574.2	-439.8	-757.7	-62.4	1.12	0.76	43.00
8,675.0	1.04	184.01	8,599.2	-440.3	-757.8	-62.8	0.65	-0.64	-4.60
8,700.0	0.88	190.05	8,624.2	-440.7	-757.8	-63.2	0.76	-0.64	24.16
8,725.0	1.00	182.56	8,649.2	-441.1	-757.9	-63.5	0.69	0.48	-29.96
8,750.0	1.08	172.44	8,674.2	-441.5	-757.8	-63.9	0.80	0.32	-40.48
8,775.0	1.04	177.41	8,699.2	-442.0	-757.8	-64.4	0.40	-0.16	19.88
8,800.0	1.10	180.55	8,724.2	-442.5	-757.8	-64.8	0.34	0.24	12.56
8,825.0	1.20	187.11	8,749.1	-443.0	-757.8	-65.2	0.66	0.40	26.24
8,850.0	1.11	178.39	8,774.1	-443.5	-757.9	-65.7	0.79	-0.36	-34.88
8,875.0	1.22	185.18	8,799.1	-444.0	-757.9	-66.1	0.71	0.44	27.16
8,900.0	1.01	184.42	8,824.1	-444.5	-757.9	-66.5	0.84	-0.84	-3.04
8,925.0	1.00	181.01	8,849.1	-444.9	-757.9	-66.9	0.24	-0.04	-13.64

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN SOUTH	Local Co-ordinate Reference:	Well UL 20 GOLD SPOON #2904H
Project:	LOVING/WINKLER COUNTY, TX	TVD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Site:	UL 20 GOLD SPOON	MD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Well:	UL 20 GOLD SPOON #2904H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,950.0	1.13	182.02	8,874.1	-445.4	-757.9	-67.3	0.53	0.52	4.04
8,975.0	1.11	183.19	8,899.1	-445.8	-758.0	-67.7	0.12	-0.08	4.68
9,000.0	1.08	182.87	8,924.1	-446.3	-758.0	-68.2	0.12	-0.12	-1.28
9,025.0	1.08	185.15	8,949.1	-446.8	-758.0	-68.6	0.17	0.00	9.12
9,050.0	1.05	187.36	8,974.1	-447.2	-758.1	-69.0	0.20	-0.12	8.84
9,075.0	1.06	186.23	8,999.1	-447.7	-758.1	-69.4	0.09	0.04	-4.52
9,100.0	1.12	180.13	9,024.1	-448.2	-758.2	-69.8	0.52	0.24	-24.40
9,125.0	1.08	184.10	9,049.1	-448.7	-758.2	-70.2	0.34	-0.16	15.88
9,150.0	1.01	187.03	9,074.1	-449.1	-758.2	-70.6	0.35	-0.28	11.72
9,175.0	0.25	200.31	9,099.1	-449.4	-758.3	-70.8	3.08	-3.04	53.12
9,200.0	0.23	20.71	9,124.1	-449.4	-758.3	-70.8	1.92	-0.08	-718.40
9,225.0	0.14	35.05	9,149.1	-449.3	-758.2	-70.8	0.40	-0.36	57.36
9,250.0	0.07	326.69	9,174.1	-449.3	-758.2	-70.7	0.53	-0.28	-273.44
9,275.0	0.07	201.16	9,199.1	-449.3	-758.2	-70.7	0.50	0.00	-502.12
9,300.0	0.28	193.48	9,224.1	-449.4	-758.3	-70.8	0.84	0.84	-30.72
9,325.0	0.36	190.11	9,249.1	-449.5	-758.3	-70.9	0.33	0.32	-13.48
9,350.0	0.42	205.56	9,274.1	-449.7	-758.3	-71.0	0.48	0.24	61.80
9,375.0	0.46	200.55	9,299.1	-449.8	-758.4	-71.1	0.22	0.16	-20.04
9,400.0	0.37	202.90	9,324.1	-450.0	-758.5	-71.3	0.37	-0.36	9.40
9,425.0	0.34	120.35	9,349.1	-450.1	-758.4	-71.4	1.88	-0.12	-330.20
9,450.0	0.51	99.36	9,374.1	-450.2	-758.3	-71.5	0.91	0.68	-83.96
9,475.0	0.51	96.22	9,399.1	-450.2	-758.1	-71.6	0.11	0.00	-12.56
9,500.0	0.60	95.53	9,424.1	-450.2	-757.8	-71.7	0.36	0.36	-2.76
9,525.0	0.66	94.82	9,449.1	-450.2	-757.5	-71.9	0.24	0.24	-2.84
9,550.0	0.52	89.74	9,474.1	-450.3	-757.3	-72.0	0.60	-0.56	-20.32
9,575.0	0.69	104.08	9,499.1	-450.3	-757.0	-72.2	0.91	0.68	57.36
9,600.0	0.73	115.75	9,524.1	-450.4	-756.7	-72.4	0.60	0.16	46.68
9,625.0	0.87	116.88	9,549.1	-450.6	-756.4	-72.7	0.56	0.56	4.52
9,650.0	0.98	112.81	9,574.1	-450.7	-756.1	-73.0	0.51	0.44	-16.28
9,675.0	1.07	119.78	9,599.1	-450.9	-755.7	-73.3	0.61	0.36	27.88
9,700.0	1.02	114.10	9,624.1	-451.1	-755.2	-73.7	0.46	-0.20	-22.72
9,725.0	1.21	122.08	9,649.1	-451.4	-754.8	-74.1	0.98	0.76	31.92
9,750.0	1.42	129.47	9,674.0	-451.7	-754.4	-74.6	1.08	0.84	29.56
9,775.0	1.74	136.50	9,699.0	-452.2	-753.9	-75.2	1.49	1.28	28.12
9,800.0	2.24	142.78	9,724.0	-452.8	-753.3	-76.1	2.18	2.00	25.12
9,825.0	2.72	147.49	9,749.0	-453.7	-752.7	-77.1	2.08	1.92	18.84
9,850.0	3.16	150.46	9,774.0	-454.8	-752.0	-78.4	1.86	1.76	11.88
9,875.0	3.21	155.91	9,798.9	-456.1	-751.4	-79.8	1.23	0.20	21.80
9,900.0	2.90	162.03	9,823.9	-457.3	-750.9	-81.1	1.80	-1.24	24.48
9,925.0	2.88	167.11	9,848.9	-458.5	-750.6	-82.4	1.03	-0.08	20.32
9,950.0	2.71	170.96	9,873.8	-459.7	-750.4	-83.5	1.01	-0.68	15.40
9,975.0	2.42	169.04	9,898.8	-460.8	-750.2	-84.6	1.21	-1.16	-7.68
10,000.0	1.61	180.64	9,923.8	-461.7	-750.1	-85.4	3.61	-3.24	46.40

ConocoPhillips

Survey Report

Company:	DELAWARE BASIN SOUTH	Local Co-ordinate Reference:	Well UL 20 GOLD SPOON #2904H
Project:	LOVING/WINKLER COUNTY, TX	TVD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Site:	UL 20 GOLD SPOON	MD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Well:	UL 20 GOLD SPOON #2904H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,025.0	0.72	221.85	9,948.8	-462.1	-750.2	-85.8	4.68	-3.56	164.84
10,050.0	0.61	250.24	9,973.8	-462.3	-750.4	-85.9	1.37	-0.44	113.56
10,075.0	0.22	292.95	9,998.8	-462.3	-750.6	-85.8	1.89	-1.56	170.84
10,100.0	0.29	21.82	10,023.8	-462.3	-750.6	-85.7	1.44	0.28	355.48
10,125.0	0.26	50.46	10,048.8	-462.2	-750.5	-85.7	0.56	-0.12	114.56
10,150.0	0.18	78.31	10,073.8	-462.1	-750.4	-85.7	0.53	-0.32	111.40
10,175.0	0.21	141.22	10,098.8	-462.1	-750.4	-85.7	0.82	0.12	251.64
10,200.0	0.26	191.53	10,123.8	-462.2	-750.4	-85.8	0.82	0.20	201.24
10,225.0	0.45	204.08	10,148.8	-462.4	-750.4	-85.9	0.82	0.76	50.20
10,250.0	0.66	209.61	10,173.8	-462.6	-750.5	-86.1	0.87	0.84	22.12
10,275.0	0.88	217.98	10,198.8	-462.9	-750.7	-86.2	0.99	0.88	33.48
10,300.0	1.01	222.94	10,223.8	-463.2	-751.0	-86.4	0.61	0.52	19.84
10,325.0	1.21	225.84	10,248.8	-463.5	-751.3	-86.6	0.83	0.80	11.60
10,350.0	1.09	260.71	10,273.8	-463.8	-751.7	-86.6	2.79	-0.48	139.48
10,375.0	1.43	295.61	10,298.8	-463.7	-752.3	-86.3	3.29	1.36	139.60
10,400.0	1.60	308.48	10,323.8	-463.3	-752.8	-85.7	1.52	0.68	51.48
10,425.0	1.66	307.43	10,348.7	-462.9	-753.4	-85.1	0.27	0.24	-4.20
10,450.0	1.66	307.08	10,373.7	-462.4	-753.9	-84.4	0.04	0.00	-1.40
10,475.0	1.54	301.37	10,398.7	-462.0	-754.5	-83.8	0.80	-0.48	-22.84
10,500.0	1.48	287.85	10,423.7	-461.8	-755.1	-83.3	1.44	-0.24	-54.08
10,525.0	1.49	280.61	10,448.7	-461.6	-755.7	-82.9	0.75	0.04	-28.96
10,550.0	1.50	270.97	10,473.7	-461.5	-756.4	-82.5	1.01	0.04	-38.56
10,575.0	1.62	267.39	10,498.7	-461.5	-757.1	-82.3	0.62	0.48	-14.32
10,600.0	1.60	272.48	10,523.7	-461.6	-757.8	-81.9	0.58	-0.08	20.36
10,625.0	1.65	292.58	10,548.7	-461.4	-758.5	-81.5	2.28	0.20	80.40
10,650.0	1.87	288.65	10,573.7	-461.1	-759.2	-81.0	1.00	0.88	-15.72
10,675.0	1.77	294.43	10,598.6	-460.8	-759.9	-80.4	0.84	-0.40	23.12
10,700.0	1.90	288.33	10,623.6	-460.5	-760.7	-79.8	0.94	0.52	-24.40
10,725.0	1.88	274.14	10,648.6	-460.4	-761.5	-79.3	1.87	-0.08	-56.76
10,750.0	1.99	270.19	10,673.6	-460.4	-762.3	-78.9	0.69	0.44	-15.80
10,775.0	2.12	264.40	10,698.6	-460.4	-763.2	-78.5	0.98	0.52	-23.16
10,800.0	2.07	266.00	10,723.6	-460.5	-764.1	-78.2	0.31	-0.20	6.40
10,825.0	2.08	262.47	10,748.6	-460.6	-765.0	-77.9	0.51	0.04	-14.12
10,850.0	2.07	262.52	10,773.5	-460.7	-765.9	-77.6	0.04	-0.04	0.20
10,875.0	1.90	257.08	10,798.5	-460.8	-766.8	-77.4	1.01	-0.68	-21.76
10,900.0	1.93	254.28	10,823.5	-461.0	-767.6	-77.2	0.39	0.12	-11.20
10,925.0	1.71	245.49	10,848.5	-461.3	-768.3	-77.1	1.42	-0.88	-35.16
10,950.0	1.66	230.25	10,873.5	-461.7	-768.9	-77.2	1.80	-0.20	-60.96
10,975.0	1.71	212.86	10,898.5	-462.2	-769.4	-77.5	2.05	0.20	-69.56
11,000.0	1.26	208.34	10,923.5	-462.8	-769.7	-77.8	1.86	-1.80	-18.08
11,025.0	1.08	194.38	10,948.5	-463.3	-769.9	-78.2	1.34	-0.72	-55.84
11,050.0	0.91	204.42	10,973.5	-463.7	-770.1	-78.5	0.97	-0.68	40.16
11,075.0	1.14	201.40	10,998.5	-464.1	-770.2	-78.8	0.94	0.92	-12.08

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Survey Report

Company:	DELAWARE BASIN SOUTH	Local Co-ordinate Reference:	Well UL 20 GOLD SPOON #2904H
Project:	LOVING/WINKLER COUNTY, TX	TVD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Site:	UL 20 GOLD SPOON	MD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Well:	UL 20 GOLD SPOON #2904H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDT 17 Central Planning Prod

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
11,100.0	1.41	183.25	11,023.4	-464.6	-770.4	-79.2	1.93	1.08	-72.60
11,125.0	1.50	195.64	11,048.4	-465.3	-770.5	-79.7	1.31	0.36	49.56
11,143.0	1.46	187.52	11,066.4	-465.7	-770.6	-80.1	1.19	-0.22	-45.11
11,220.0	1.12	168.24	11,143.4	-467.4	-770.5	-81.6	0.71	-0.44	-25.04
11,311.0	0.94	204.22	11,234.4	-469.0	-770.7	-83.0	0.72	-0.20	39.54
11,392.0	0.60	208.07	11,315.4	-469.9	-771.1	-83.6	0.42	-0.42	4.75
11,437.0	0.36	297.08	11,360.4	-470.1	-771.4	-83.7	1.54	-0.53	197.80
11,483.0	2.24	0.20	11,406.4	-469.1	-771.5	-82.7	4.57	4.09	137.22
11,528.0	4.84	348.24	11,451.3	-466.4	-771.9	-80.1	5.98	5.78	-26.58
11,627.0	10.33	0.69	11,549.4	-453.4	-772.6	-68.1	5.76	5.55	12.58
11,673.0	13.59	356.61	11,594.4	-443.9	-772.9	-59.4	7.32	7.09	-8.87
11,718.0	19.22	355.85	11,637.5	-431.2	-773.7	-47.7	12.52	12.51	-1.69
11,738.2	21.50	357.97	11,656.5	-424.2	-774.1	-41.2	11.86	11.28	10.51
FTP @ 11738.2 MD / 11656.5 TVD									
11,764.0	24.44	0.13	11,680.2	-414.1	-774.3	-32.1	11.86	11.40	8.36
11,809.0	29.41	358.32	11,720.3	-393.8	-774.6	-13.7	11.19	11.04	-4.02
11,854.0	33.28	358.46	11,758.8	-370.4	-775.2	7.6	8.60	8.60	0.31
11,868.0	35.46	357.55	11,770.3	-362.5	-775.5	14.8	16.00	15.57	-6.50
11,900.0	38.93	355.66	11,795.8	-343.2	-776.7	32.7	11.42	10.84	-5.91
11,945.0	44.94	355.13	11,829.3	-313.2	-779.1	60.7	13.38	13.36	-1.18
12,000.0	54.47	356.48	11,864.8	-271.4	-782.1	99.6	17.43	17.33	2.45
12,037.0	64.79	357.45	11,883.5	-239.6	-783.8	128.9	27.98	27.89	2.62
12,090.0	80.75	354.69	11,899.1	-189.3	-787.3	175.7	30.52	30.11	-5.21
12,165.0	93.94	345.28	11,902.6	-115.7	-800.3	247.4	21.58	17.59	-12.55
12,255.0	92.65	343.80	11,897.4	-29.1	-824.3	335.7	2.18	-1.43	-1.64
12,346.0	92.51	340.94	11,893.3	57.5	-851.8	425.7	3.14	-0.15	-3.14
12,436.0	92.54	341.75	11,889.4	142.7	-880.5	514.8	0.90	0.03	0.90
12,527.0	92.26	342.66	11,885.6	229.3	-908.3	604.8	1.05	-0.31	1.00
12,618.0	92.43	343.22	11,881.8	316.2	-935.0	694.6	0.64	0.19	0.62
12,709.0	91.70	342.97	11,878.6	403.2	-961.5	784.4	0.85	-0.80	-0.27
12,800.0	92.20	344.21	11,875.5	490.4	-987.1	874.1	1.47	0.55	1.36
12,890.0	89.57	342.93	11,874.1	576.7	-1,012.6	962.8	3.25	-2.92	-1.42
12,981.0	89.23	342.15	11,875.0	663.5	-1,039.9	1,052.8	0.93	-0.37	-0.86
13,071.0	88.39	340.39	11,876.9	748.7	-1,068.8	1,142.0	2.17	-0.93	-1.96
13,162.0	88.02	340.22	11,879.7	834.4	-1,099.4	1,232.4	0.45	-0.41	-0.19
13,253.0	89.45	341.41	11,881.7	920.3	-1,129.3	1,322.7	2.04	1.57	1.31
13,344.0	88.56	341.55	11,883.3	1,006.6	-1,158.2	1,412.9	0.99	-0.98	0.15
13,435.0	91.11	346.05	11,883.6	1,093.9	-1,183.6	1,502.6	5.68	2.80	4.95
13,525.0	89.45	344.09	11,883.2	1,180.9	-1,206.8	1,590.9	2.85	-1.84	-2.18
13,616.0	91.11	340.38	11,882.7	1,267.5	-1,234.6	1,680.9	4.47	1.82	-4.08
13,707.0	88.89	338.43	11,882.7	1,352.7	-1,266.6	1,771.5	3.25	-2.44	-2.14
13,798.0	88.61	342.62	11,884.7	1,438.5	-1,296.9	1,861.8	4.61	-0.31	4.60
13,889.0	86.68	343.21	11,888.4	1,525.4	-1,323.6	1,951.6	2.22	-2.12	0.65
13,980.0	92.14	345.33	11,889.4	1,612.9	-1,348.3	2,041.1	6.44	6.00	2.33

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Survey Report

Company:	DELAWARE BASIN SOUTH	Local Co-ordinate Reference:	Well UL 20 GOLD SPOON #2904H
Project:	LOVING/WINKLER COUNTY, TX	TVD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Site:	UL 20 GOLD SPOON	MD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Well:	UL 20 GOLD SPOON #2904H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDT 17 Central Planning Prod

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
14,070.0	93.40	345.31	11,885.0	1,699.9	-1,371.0	2,129.2	1.40	1.40	-0.02	
14,161.0	92.68	343.49	11,880.2	1,787.4	-1,395.5	2,218.6	2.15	-0.79	-2.00	
14,251.0	87.77	340.82	11,879.8	1,873.0	-1,423.0	2,307.7	6.21	-5.46	-2.97	
14,342.0	85.69	340.45	11,885.0	1,958.7	-1,453.2	2,397.9	2.32	-2.29	-0.41	
14,433.0	87.46	340.49	11,890.5	2,044.3	-1,483.5	2,488.1	1.95	1.95	0.04	
14,523.0	90.18	342.68	11,892.3	2,129.7	-1,512.0	2,577.3	3.88	3.02	2.43	
14,614.0	90.83	344.76	11,891.5	2,217.0	-1,537.5	2,667.0	2.39	0.71	2.29	
14,705.0	90.13	343.41	11,890.8	2,304.5	-1,562.4	2,756.5	1.67	-0.77	-1.48	
14,795.0	90.46	342.10	11,890.3	2,390.5	-1,589.1	2,845.5	1.50	0.37	-1.46	
14,886.0	90.24	337.24	11,889.7	2,475.8	-1,620.7	2,936.0	5.35	-0.24	-5.34	
14,977.0	89.45	332.23	11,890.0	2,558.1	-1,659.5	3,027.0	5.57	-0.87	-5.51	
15,067.0	88.70	339.93	11,891.4	2,640.3	-1,696.0	3,116.8	8.59	-0.83	8.56	
15,158.0	89.12	345.96	11,893.2	2,727.2	-1,722.7	3,206.6	6.64	0.46	6.63	
15,249.0	90.41	348.65	11,893.5	2,816.0	-1,742.7	3,295.2	3.28	1.42	2.96	
15,340.0	89.68	351.00	11,893.5	2,905.5	-1,758.7	3,382.7	2.70	-0.80	2.58	
15,431.0	88.75	350.37	11,894.7	2,995.3	-1,773.5	3,469.8	1.23	-1.02	-0.69	
15,522.0	89.79	345.62	11,895.9	3,084.3	-1,792.4	3,558.1	5.34	1.14	-5.22	
15,612.0	89.26	340.44	11,896.6	3,170.4	-1,818.6	3,646.9	5.79	-0.59	-5.76	
15,703.0	89.31	336.26	11,897.8	3,254.9	-1,852.2	3,737.6	4.59	0.05	-4.59	
15,794.0	90.18	339.23	11,898.2	3,339.1	-1,886.7	3,828.4	3.40	0.96	3.26	
15,885.0	89.96	336.78	11,898.1	3,423.5	-1,920.7	3,919.2	2.70	-0.24	-2.69	
15,975.0	90.35	340.05	11,897.8	3,507.2	-1,953.8	4,008.9	3.66	0.43	3.63	
16,066.0	90.27	345.62	11,897.3	3,594.1	-1,980.7	4,098.8	6.12	-0.09	6.12	
16,157.0	89.62	343.08	11,897.4	3,681.7	-2,005.2	4,188.3	2.88	-0.71	-2.79	
16,247.0	91.05	345.95	11,896.9	3,768.4	-2,029.3	4,276.7	3.56	1.59	3.19	
16,337.0	91.02	348.50	11,895.3	3,856.2	-2,049.2	4,364.3	2.83	-0.03	2.83	
16,428.0	87.97	346.29	11,896.1	3,945.0	-2,069.0	4,452.8	4.14	-3.35	-2.43	
16,519.0	85.56	345.61	11,901.2	4,033.1	-2,091.1	4,541.7	2.75	-2.65	-0.75	
16,609.0	88.70	346.14	11,905.7	4,120.2	-2,113.0	4,629.6	3.54	3.49	0.59	
16,699.0	90.80	347.58	11,906.1	4,207.9	-2,133.5	4,717.3	2.83	2.33	1.60	
16,790.0	90.32	346.42	11,905.2	4,296.5	-2,153.9	4,806.0	1.38	-0.53	-1.27	
16,933.0	89.71	344.58	11,905.2	4,435.0	-2,189.7	4,946.1	1.36	-0.43	-1.29	
FINAL SURVEY @ 16933 MD / 11905.2 TVD										
16,956.8	89.71	344.58	11,905.3	4,457.9	-2,196.1	4,969.4	0.00	0.00	0.00	
LTP @ 16956.8 MD / 11905.3 TVD										
16,993.0	89.71	344.58	11,905.5	4,492.8	-2,205.7	5,005.0	0.00	0.00	0.00	
PTB @ 16993 MD / 11905.5 TVD										

ConocoPhillips
Survey Report

Company:	DELAWARE BASIN SOUTH	Local Co-ordinate Reference:	Well UL 20 GOLD SPOON #2904H
Project:	LOVING/WINKLER COUNTY, TX	TVD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Site:	UL 20 GOLD SPOON	MD Reference:	RKB=32ft @ 2808.8usft (Nabors X04)
Well:	UL 20 GOLD SPOON #2904H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWP	Database:	EDT 17 Central Planning Prod

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,738.2	11,656.5	-424.2	-774.1	FTP @ 11738.2 MD / 11656.5 TVD
16,933.0	11,905.2	4,435.0	-2,189.7	FINAL SURVEY @ 16933 MD / 11905.2 TVD
16,956.8	11,905.3	4,457.9	-2,196.1	LTP @ 16956.8 MD / 11905.3 TVD
16,993.0	11,905.5	4,492.8	-2,205.7	PTB @ 16993 MD / 11905.5 TVD

Checked By:	_____	Approved By:	_____	Date:	_____
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