

30.025-43296



Directional Survey

Well Name SALADO DRAW WE 24 FED P23 002H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation		Mud Line Elevation (ft)	Water Depth (ft)

Wellbore Name Original Hole		Parent Wellbore Original Hole		Min Kick Off Depth (ftKB) 8,515.0		Vertical Section Direction (°) 359.71	
Northing (Y) (ft)		Easting (X) (ft)		UTM Grd Zone			
Date 8/20/2016		Definitive? N		Description MWD		Planned? N	
MD Tie In (ftKB)		TVD Tie In (ftKB)		Inclination Tie In (°)		Azimuth Tie In (°)	
						NSTie In (ft)	
						EW Tie In (ft)	

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Magn MS		0.00	0.00	0.00	N
125	0.90	55.30	124.99	0.58	0.81	0.55	0.72	Magn MS		0.72	0.98	44.24	N
170	1.20	44.30	169.99	1.10	1.43	1.09	0.80	Magn MS		0.67	1.80	-24.44	N
245	1.40	60.30	244.97	2.11	2.77	2.10	0.55	Magn MS		0.27	3.49	21.33	N
345	1.30	46.30	344.94	3.50	4.65	3.48	0.34	Magn MS		-0.10	5.82	-14.00	N
439	1.10	48.30	438.92	4.84	6.10	4.81	0.22	Magn MS		-0.21	7.78	2.13	N
623	1.40	78.30	622.88	6.47	9.62	6.42	0.39	Magn MS		0.16	11.59	16.30	N
712	1.30	87.30	711.85	6.74	11.69	6.68	0.26	Magn MS		-0.11	13.49	10.11	N
800	0.90	108.72	799.84	6.58	13.34	6.50	0.64	Magn MWD	Baker Hughes	-0.46	14.87	24.34	N
982	3.16	251.69	981.76	4.53	9.93	4.48	2.15	Magn MWD	Baker Hughes	1.24	10.92	78.55	N
1,164	6.39	241.65	1,163.11	-1.86	-3.75	-1.84	1.83	Magn MWD	Baker Hughes	1.77	4.18	-5.52	N
1,346	8.44	243.14	1,343.57	-12.70	-24.58	-12.58	1.13	Magn MWD	Baker Hughes	1.13	27.67	0.82	N
1,524	9.38	248.21	1,519.43	-23.99	-49.70	-23.74	0.69	Magn MWD	Baker Hughes	0.53	55.19	2.85	N
1,700	9.44	242.45	1,693.06	-35.99	-75.82	-35.61	0.54	Magn MWD	Baker Hughes	0.03	83.93	-3.27	N
1,877	9.18	240.26	1,867.73	-49.71	-100.95	-49.20	0.25	Magn MWD	Baker Hughes	-0.15	112.52	-1.24	N
2,054	9.26	241.37	2,042.44	-63.54	-125.70	-62.90	0.11	Magn MWD	Baker Hughes	0.05	140.85	0.63	N
2,230	9.38	238.04	2,216.12	-77.91	-150.30	-77.15	0.31	Magn MWD	Baker Hughes	0.07	169.30	-1.89	N
2,408	9.17	249.40	2,391.81	-90.58	-175.89	-89.69	1.03	Magn MWD	Baker Hughes	-0.12	197.84	6.38	N
2,585	9.17	247.47	2,566.55	-100.95	-202.12	-99.92	0.17	Magn MWD	Baker Hughes	0.00	225.92	-1.09	N
2,762	8.78	248.90	2,741.38	-111.22	-227.75	-110.06	0.26	Magn MWD	Baker Hughes	-0.22	253.45	0.81	N
2,939	7.75	251.27	2,916.54	-119.91	-251.65	-118.64	0.61	Magn MWD	Baker Hughes	-0.58	278.76	1.34	N
3,116	7.42	248.25	3,091.99	-127.98	-273.57	-126.59	0.29	Magn MWD	Baker Hughes	-0.19	302.03	-1.71	N
3,294	5.95	235.13	3,268.79	-137.51	-291.82	-136.04	1.19	Magn MWD	Baker Hughes	-0.83	322.60	-7.37	N
3,472	5.97	216.63	3,445.84	-150.22	-304.91	-148.67	1.07	Magn MWD	Baker Hughes	0.01	339.91	-10.39	N
3,648	4.09	189.38	3,621.18	-163.76	-311.40	-162.18	1.70	Magn MWD	Baker Hughes	-1.07	351.83	-15.48	N
3,826	0.36	70.65	3,799.04	-169.84	-311.90	-168.26	2.40	Magn MWD	Baker Hughes	-2.10	355.15	-66.70	N
4,003	1.52	139.43	3,976.01	-171.44	-309.85	-169.87	0.81	Magn MWD	Baker Hughes	0.66	354.12	38.86	N
4,180	1.88	141.59	4,152.93	-175.50	-306.52	-173.94	0.21	Magn MWD	Baker Hughes	0.20	353.21	1.22	N
4,357	2.95	136.38	4,329.77	-181.07	-301.58	-179.54	0.62	Magn MWD	Baker Hughes	0.60	351.76	-2.94	N
4,551	2.59	136.10	4,523.55	-187.84	-295.09	-186.35	0.19	Magn MWD	Baker Hughes	-0.19	349.81	-0.14	N



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Survey Data													
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depth (ft)	Turn (°/100ft)	Unuse d data
4.706	2.31	140.64	4,678.41	-192.78	-290.68	-191.31	0.22	Magn MWD	Baker Hughes	-0.18	348.80	2.93	N
4.795	0.48	260.53	4,767.38	-194.23	-289.91	-192.76	2.90	Magn MWD	Baker Hughes	-2.06	348.96	134.71	N
4.883	0.28	263.20	4,855.38	-194.31	-290.49	-192.84	0.23	Magn MWD	Baker Hughes	-0.23	349.49	3.03	N
4.972	1.39	344.29	4,944.37	-193.30	-291.00	-191.83	1.54	Magn MWD	Baker Hughes	1.25	349.35	91.11	N
5.149	1.70	352.08	5,121.31	-188.63	-291.94	-187.15	0.21	Magn MWD	Baker Hughes	0.18	347.58	4.40	N
5.326	1.55	338.90	5,298.24	-183.80	-293.17	-182.31	0.23	Magn MWD	Baker Hughes	-0.08	346.02	-7.45	N
5.503	1.52	333.98	5,475.17	-179.48	-295.06	-177.98	0.08	Magn MWD	Baker Hughes	-0.02	345.35	-2.78	N
5.681	1.50	320.68	5,653.11	-175.53	-297.57	-174.03	0.20	Magn MWD	Baker Hughes	-0.01	345.48	-7.47	N
5.858	1.60	332.34	5,830.05	-171.55	-300.18	-170.03	0.19	Magn MWD	Baker Hughes	0.06	345.75	6.59	N
6.035	1.79	333.99	6,006.97	-166.88	-302.54	-166.35	0.11	Magn MWD	Baker Hughes	0.11	345.52	0.93	N
6.212	0.38	239.26	6,183.94	-164.69	-304.26	-163.15	1.05	Magn MWD	Baker Hughes	-0.80	345.97	-53.52	N
6.389	0.89	256.66	6,360.93	-165.31	-306.10	-163.76	0.30	Magn MWD	Baker Hughes	0.29	347.89	9.83	N
6.565	0.46	267.83	6,536.92	-165.65	-308.14	-164.09	0.25	Magn MWD	Baker Hughes	-0.24	349.84	6.35	N
6.742	0.70	274.46	6,713.91	-165.60	-309.93	-164.03	0.14	Magn MWD	Baker Hughes	0.14	351.39	3.75	N
6.919	0.83	256.69	6,890.89	-165.81	-312.25	-164.23	0.16	Magn MWD	Baker Hughes	0.07	353.54	-10.04	N
7.096	0.86	278.82	7,067.87	-165.90	-314.81	-164.30	0.18	Magn MWD	Baker Hughes	0.02	355.85	12.50	N
7.273	1.08	269.33	7,244.85	-165.72	-317.79	-164.10	0.15	Magn MWD	Baker Hughes	0.12	358.40	-5.36	N
7.451	1.04	263.01	7,422.82	-166.93	-321.07	-164.30	0.07	Magn MWD	Baker Hughes	-0.02	361.42	-3.55	N
7.628	0.87	245.62	7,599.79	-166.68	-323.89	-165.04	0.19	Magn MWD	Baker Hughes	-0.10	364.26	-9.82	N
7.805	1.09	235.73	7,776.77	-168.18	-326.51	-166.53	0.16	Magn MWD	Baker Hughes	0.12	367.28	-5.59	N
7.982	1.35	240.62	7,953.73	-170.16	-329.71	-168.48	0.16	Magn MWD	Baker Hughes	0.15	371.03	2.76	N
8.158	1.45	238.30	8,129.67	-172.34	-333.42	-170.65	0.07	Magn MWD	Baker Hughes	0.06	375.32	-1.32	N
8.312	1.68	216.56	8,283.62	-175.18	-336.42	-173.47	0.41	Magn MWD	Baker Hughes	0.15	379.30	-14.12	N
8.489	1.45	213.81	8,460.55	-179.12	-339.21	-177.41	0.14	Magn MWD	Baker Hughes	-0.13	383.60	-1.55	N
8.533	1.58	317.88	8,504.54	-179.14	-339.98	-177.41	5.43	Magn MWD	Baker Hughes	0.30	384.24	236.52	N
8.577	6.64	352.56	8,548.42	-176.16	-340.66	-174.44	12.31	Magn MWD	Baker Hughes	11.50	383.52	78.82	N
8.621	13.39	357.24	8,591.72	-168.54	-341.24	-166.81	15.44	Magn MWD	Baker Hughes	15.34	380.59	10.64	N
8.666	19.09	356.84	8,634.91	-155.98	-341.90	-154.25	12.67	Magn MWD	Baker Hughes	12.67	375.80	-0.89	N
8.710	25.44	358.53	8,675.61	-139.33	-342.54	-137.60	14.50	Magn MWD	Baker Hughes	14.43	369.79	3.84	N
8.754	31.08	359.70	8,714.35	-118.51	-342.84	-116.77	12.88	Magn MWD	Baker Hughes	12.82	362.74	2.66	N



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Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
8.798	34.28	359.33	8,751.38	-94.76	-343.04	-93.02	7.29	Magn MWD	Baker Hughes	7.27	355.89	-0.84	N
8.842	37.70	359.07	8,786.98	-68.91	-343.41	-67.17	7.78	Magn MWD	Baker Hughes	7.77	350.25	-0.59	N
8.887	42.79	358.64	8,821.31	-39.85	-343.99	-38.11	11.33	Magn MWD	Baker Hughes	11.31	346.29	-0.96	N
8.931	47.99	359.37	8,852.20	-8.54	-344.53	-6.80	11.88	Magn MWD	Baker Hughes	11.82	344.63	1.66	N
8.975	51.38	359.73	8,880.67	25.00	-344.79	26.75	7.73	Magn MWD	Baker Hughes	7.70	345.69	0.82	N
9.020	54.68	359.84	8,907.73	60.95	-344.92	62.70	7.34	Magn MWD	Baker Hughes	7.33	350.27	0.24	N
9.064	58.85	0.81	8,931.84	97.74	-344.71	99.49	9.65	Magn MWD	Baker Hughes	9.48	358.30	-	N
9.108	63.82	1.19	8,952.94	136.33	-344.03	138.07	11.32	Magn MWD	Baker Hughes	11.30	370.06	0.86	N
9.152	68.46	0.76	8,970.73	176.56	-343.35	178.29	10.58	Magn MWD	Baker Hughes	10.55	386.08	-0.98	N
9.196	72.13	0.49	8,985.56	217.97	-342.90	219.70	8.36	Magn MWD	Baker Hughes	8.34	406.31	-0.61	N
9.241	75.81	0.02	8,997.99	261.21	-342.71	262.94	8.24	Magn MWD	Baker Hughes	8.18	430.90	-1.04	N
9.285	80.20	359.40	9,007.13	304.24	-342.93	305.97	10.07	Magn MWD	Baker Hughes	9.98	458.43	816.77	N
9.373	85.18	359.76	9,018.34	391.49	-343.56	393.23	5.65	Magn MWD	Baker Hughes	5.64	520.87	0.41	N
9.461	88.03	359.39	9,023.56	479.33	-344.22	481.06	3.29	Magn MWD	Baker Hughes	3.26	590.12	-0.42	N
9.550	88.18	358.70	9,026.51	568.26	-345.70	570.01	0.79	Magn MWD	Baker Hughes	0.17	665.15	-0.78	N
9.638	89.14	0.27	9,028.56	656.23	-346.49	657.98	2.09	Magn MWD	Baker Hughes	1.09	742.09	-	N
9.727	88.27	359.86	9,030.58	745.21	-346.39	746.95	1.08	Magn MWD	Baker Hughes	-0.98	821.78	404.03	N
9.816	90.62	0.13	9,031.44	834.20	-346.40	835.94	2.66	Magn MWD	Baker Hughes	2.64	903.26	-	N
9.905	90.98	0.07	9,030.20	923.19	-346.24	924.93	0.41	Magn MWD	Baker Hughes	0.40	985.98	-0.07	N
9.994	91.48	0.60	9,028.28	1,012.17	-345.72	1,013.90	0.82	Magn MWD	Baker Hughes	0.56	1,069.58	0.60	N
10.082	91.73	0.89	9,025.82	1,100.12	-344.58	1,101.85	0.43	Magn MWD	Baker Hughes	0.28	1,152.83	0.33	N
10.170	89.78	0.11	9,024.66	1,188.11	-343.81	1,189.83	2.39	Magn MWD	Baker Hughes	-2.22	1,236.85	-0.89	N
10.259	89.91	359.32	9,024.90	1,277.11	-344.25	1,278.83	0.90	Magn MWD	Baker Hughes	0.15	1,322.69	403.61	N
10.347	90.06	0.41	9,024.92	1,365.10	-344.46	1,366.83	1.25	Magn MWD	Baker Hughes	0.17	1,407.89	-	N
10.436	90.18	0.44	9,024.74	1,454.10	-343.80	1,455.62	0.14	Magn MWD	Baker Hughes	0.13	1,494.19	0.03	N
10.525	89.51	359.85	9,024.98	1,543.10	-343.57	1,544.82	1.00	Magn MWD	Baker Hughes	-0.75	1,580.89	403.83	N
10.613	87.81	358.96	9,027.04	1,631.07	-344.49	1,632.79	2.18	Magn MWD	Baker Hughes	-1.93	1,667.05	-1.01	N
10.702	87.44	358.48	9,030.72	1,719.97	-346.47	1,721.70	0.68	Magn MWD	Baker Hughes	-0.42	1,754.52	-0.54	N
10.791	87.82	359.41	9,034.41	1,808.88	-348.11	1,810.62	1.13	Magn MWD	Baker Hughes	0.43	1,842.07	1.04	N
10.880	86.89	358.76	9,038.51	1,897.77	-349.53	1,899.51	1.27	Magn MWD	Baker Hughes	-1.04	1,929.69	-0.73	N



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Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
10,968	89.54	358.70	9,041.25	1,985.70	-351.48	1,987.45	3.01	Magn MWD	Baker Hughes	3.01	2,016. 56	-0.07	N
11,056	91.69	0.60	9,040.31	2,073.68	-352.02	2,075.44	3.28	Magn MWD	Baker Hughes	2.44	2,103. 35	406.93	N
11,145	91.17	359.56	9,038.09	2,162.65	-351.89	2,164.40	1.31	Magn MWD	Baker Hughes	-0.58	2,191. 09	403.33	N
11,233	89.05	359.14	9,037.92	2,250.64	-352.89	2,252.40	2.46	Magn MWD	Baker Hughes	-2.41	2,278. 14	-0.48	N
11,321	91.17	1.18	9,037.75	2,338.63	-352.65	2,340.38	3.34	Magn MWD	Baker Hughes	2.41	2,365. 07	406.77	N
11,414	92.34	1.62	9,034.90	2,431.56	-350.37	2,433.30	1.34	Magn MWD	Baker Hughes	1.26	2,456. 67	0.47	N
11,505	92.80	1.26	9,030.82	2,522.44	-348.09	2,524.17	0.64	Magn MWD	Baker Hughes	0.51	2,546. 34	-0.40	N
11,597	93.66	0.79	9,025.64	2,614.27	-346.45	2,615.99	1.06	Magn MWD	Baker Hughes	0.93	2,637. 13	-0.51	N
11,688	91.82	1.99	9,021.29	2,705.14	-344.24	2,706.85	2.41	Magn MWD	Baker Hughes	-2.02	2,728. 95	1.32	N
11,779	91.28	0.92	9,018.84	2,796.07	-341.93	2,797.77	1.33	Magn MWD	Baker Hughes	-0.62	2,816. 90	-1.18	N
11,870	88.98	0.25	9,018.65	2,887.06	-341.00	2,888.75	2.61	Magn MWD	Baker Hughes	-2.51	2,907. 13	-0.74	N
11,960	89.60	0.10	9,019.77	2,977.05	-340.73	2,978.74	0.71	Magn MWD	Baker Hughes	0.69	2,996. 49	-0.17	N
12,051	90.52	359.87	9,019.67	3,068.05	-340.75	3,069.74	1.04	Magn MWD	Baker Hughes	1.01	3,086. 92	395.35	N
12,142	88.18	359.61	9,020.70	3,159.04	-341.16	3,160.73	2.59	Magn MWD	Baker Hughes	-2.57	3,177. 41	-0.29	N
12,233	86.89	358.73	9,024.62	3,249.94	-342.48	3,251.64	1.72	Magn MWD	Baker Hughes	-1.42	3,267. 94	-0.97	N
12,321	89.35	358.70	9,027.50	3,337.87	-344.45	3,339.57	2.80	Magn MWD	Baker Hughes	2.80	3,355. 59	-0.03	N
12,410	86.05	357.29	9,031.08	3,426.73	-347.56	3,428.44	4.03	Magn MWD	Baker Hughes	-3.71	3,444. 31	-1.58	N
12,499	90.15	0.02	9,034.03	3,515.63	-349.65	3,517.35	5.53	Magn MWD	Baker Hughes	4.61	3,532. 97	401.43	N
12,587	90.43	0.02	9,033.58	3,603.62	-349.62	3,605.35	0.32	Magn MWD	Baker Hughes	0.32	3,620. 54	0.00	N
12,675	88.86	0.97	9,034.13	3,691.62	-348.66	3,693.33	2.09	Magn MWD	Baker Hughes	-1.78	3,708. 06	1.08	N
12,764	87.47	0.67	9,036.98	3,780.56	-347.58	3,782.27	1.60	Magn MWD	Baker Hughes	-1.56	3,796. 50	-0.34	N
12,853	87.26	0.35	9,041.07	3,869.46	-346.79	3,871.17	0.43	Magn MWD	Baker Hughes	-0.24	3,884. 97	-0.36	N
12,941	88.03	0.59	9,044.68	3,957.38	-346.07	3,959.08	0.92	Magn MWD	Baker Hughes	0.87	3,972. 49	0.27	N
13,030	87.13	0.60	9,048.44	4,046.30	-345.15	4,047.99	1.01	Magn MWD	Baker Hughes	-1.01	4,060. 99	0.01	N
13,119	89.94	0.34	9,050.72	4,135.26	-344.42	4,136.95	3.17	Magn MWD	Baker Hughes	3.16	4,149. 58	-0.29	N
13,208	89.02	358.82	9,051.52	4,224.25	-345.07	4,225.94	2.00	Magn MWD	Baker Hughes	-1.03	4,238. 32	402.79	N
13,296	90.25	358.63	9,052.08	4,312.22	-347.03	4,313.92	1.41	Magn MWD	Baker Hughes	1.40	4,326. 18	-0.22	N
13,384	88.31	357.48	9,053.19	4,400.16	-350.01	4,401.87	2.56	Magn MWD	Baker Hughes	-2.20	4,414. 06	-1.31	N
13,473	85.90	356.07	9,057.69	4,488.90	-355.01	4,490.64	3.14	Magn MWD	Baker Hughes	-2.71	4,502. 91	-1.58	N
13,562	87.63	356.97	9,062.71	4,577.59	-360.41	4,579.35	2.19	Magn MWD	Baker Hughes	1.94	4,591. 75	1.01	N



Directional Survey

Well Name SALADO DRAW WE 24 FED P23 002H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft) Water Depth (ft)

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
13,650	89.51	357.92	9,064.90	4,665.47	-364.33	4,667.25	2.39	Magn MWD	Baker Hughes	2.14	4,679.67	1.08	N
13,739	89.11	0.12	9,065.98	4,754.44	-365.85	4,756.23	2.51	Magn MWD	Baker Hughes	-0.45	4,768.50	402.02	N
13,827	89.63	1.43	9,066.94	4,842.43	-364.66	4,844.21	1.60	Magn MWD	Baker Hughes	0.59	4,856.14	1.49	N
13,916	92.44	0.63	9,065.34	4,931.39	-363.06	4,933.16	3.28	Magn MWD	Baker Hughes	3.16	4,944.73	-0.90	N
14,005	93.11	0.11	9,061.03	5,020.28	-362.48	5,022.05	0.95	Magn MWD	Baker Hughes	0.75	5,033.35	-0.58	N
14,094	92.00	358.97	9,057.06	5,109.19	-363.20	5,110.96	1.79	Magn MWD	Baker Hughes	-1.25	5,122.08	403.21	N
14,182	90.00	358.60	9,055.52	5,197.15	-365.06	5,198.93	2.31	Magn MWD	Baker Hughes	-2.27	5,209.95	-0.42	N
14,271	87.88	355.69	9,057.17	5,286.01	-369.50	5,287.81	4.04	Magn MWD	Baker Hughes	-2.38	5,298.91	-3.27	N
14,359	87.97	357.36	9,060.36	5,373.79	-374.83	5,375.61	1.90	Magn MWD	Baker Hughes	0.10	5,386.84	1.90	N
14,448	87.10	356.95	9,064.18	5,462.59	-379.24	5,464.44	1.08	Magn MWD	Baker Hughes	-0.98	5,475.74	-0.46	N
14,537	89.82	0.98	9,066.58	5,551.52	-380.84	5,553.38	5.46	Magn MWD	Baker Hughes	3.06	5,564.57	399.97	N
14,625	88.27	0.45	9,068.04	5,639.50	-379.75	5,641.35	1.86	Magn MWD	Baker Hughes	-1.76	5,652.27	-0.60	N
14,714	88.71	2.52	9,070.39	5,728.43	-377.44	5,730.27	2.38	Magn MWD	Baker Hughes	0.49	5,740.85	2.33	N
14,802	89.10	2.10	9,072.07	5,816.34	-373.89	5,818.16	0.65	Magn MWD	Baker Hughes	0.44	5,828.35	-0.48	N
14,890	89.29	1.92	9,073.31	5,904.28	-370.81	5,906.08	0.30	Magn MWD	Baker Hughes	0.22	5,915.91	-0.20	N
14,979	89.75	2.18	9,074.05	5,993.22	-367.62	5,995.00	0.59	Magn MWD	Baker Hughes	0.52	6,004.48	0.29	N
15,067	89.38	1.66	9,074.72	6,081.17	-364.68	6,082.94	0.73	Magn MWD	Baker Hughes	-0.42	6,092.09	-0.59	N
15,156	88.09	0.58	9,076.69	6,170.13	-362.94	6,171.88	1.89	Magn MWD	Baker Hughes	-1.45	6,180.79	-1.21	N
15,244	88.49	1.81	9,079.31	6,258.07	-361.10	6,259.81	1.47	Magn MWD	Baker Hughes	0.45	6,268.47	1.40	N
15,333	88.09	0.80	9,081.97	6,347.00	-359.08	6,348.74	1.22	Magn MWD	Baker Hughes	-0.45	6,357.15	-1.13	N
15,421	89.48	359.88	9,083.83	6,434.98	-358.55	6,436.71	1.89	Magn MWD	Baker Hughes	1.58	6,444.96	408.05	N
15,509	89.85	0.27	9,084.35	6,522.97	-358.44	6,524.71	0.61	Magn MWD	Baker Hughes	0.42	6,532.82	408.65	N
15,598	93.17	1.33	9,082.00	6,611.92	-357.20	6,613.64	3.92	Magn MWD	Baker Hughes	3.73	6,621.56	1.19	N
15,686	91.79	0.00	9,078.20	6,699.83	-356.18	6,701.55	2.18	Magn MWD	Baker Hughes	-1.57	6,709.29	-1.51	N
15,775	92.56	359.70	9,074.82	6,788.76	-356.41	6,790.48	0.93	Magn MWD	Baker Hughes	0.87	6,798.11	404.16	N
15,863	90.34	359.96	9,072.59	6,876.73	-356.67	6,878.45	2.54	Magn MWD	Baker Hughes	-2.52	6,885.97	0.30	N
15,952	90.80	0.35	9,071.71	6,965.72	-356.43	6,967.44	0.68	Magn MWD	Baker Hughes	0.52	6,974.84	404.06	N
16,041	88.37	357.47	9,072.35	7,054.69	-358.12	7,056.41	4.23	Magn MWD	Baker Hughes	-2.73	7,063.77	401.26	N
16,129	88.58	356.84	9,074.69	7,142.55	-362.49	7,144.29	0.75	Magn MWD	Baker Hughes	0.24	7,151.74	-0.72	N
16,217	88.55	356.14	9,076.90	7,230.36	-367.87	7,232.13	0.80	Magn MWD	Baker Hughes	-0.03	7,239.71	-0.80	N



Directional Survey

Well Name SALADO DRAW WE 24 FED P23 002H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
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Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
16,306	88.03	356.71	9,079.55	7,319.14	-373.42	7,320.94	0.87	Magn MWD	Baker Hughes	-0.58	7,328. 66	0.64	N
16,394	87.53	358.65	9,082.96	7,407.00	-376.98	7,408.81	2.27	Magn MWD	Baker Hughes	-0.57	7,416. 59	2.20	N
16,482	88.86	0.13	9,085.73	7,494.95	-377.92	7,496.76	2.28	Magn MWD	Baker Hughes	1.51	7,504. 47	407.41	N
16,572	88.55	359.15	9,087.77	7,584.92	-378.48	7,586.74	1.14	Magn MWD	Baker Hughes	-0.34	7,594. 36	398.91	N
16,661	89.32	359.39	9,089.42	7,673.90	-379.62	7,675.72	0.91	Magn MWD	Baker Hughes	0.87	7,683. 28	0.27	N
16,750	89.97	0.45	9,089.97	7,762.89	-379.74	7,764.72	1.40	Magn MWD	Baker Hughes	0.73	7,772. 18	403.30	N
16,836	90.22	1.36	9,089.83	7,848.88	-378.38	7,850.70	1.10	Magn MWD	Baker Hughes	0.29	7,858. 00	1.06	N
16,926	91.79	1.74	9,088.25	7,938.83	-375.95	7,940.63	1.79	Magn MWD	Baker Hughes	1.74	7,947. 73	0.42	N
17,015	92.65	2.42	9,084.80	8,027.71	-372.72	8,029.49	1.23	Magn MWD	Baker Hughes	0.97	8,036. 35	0.76	N
17,104	-91.51	1.53	9,081.57	8,116.59	-369.66	8,118.36	1.62	Magn MWD	Baker Hughes	-1.28	8,125. 01	-1.00	N
17,192	92.71	1.46	9,078.33	8,204.50	-367.36	8,206.26	1.37	Magn MWD	Baker Hughes	1.36	8,212. 72	-0.08	N
17,281	91.23	0.72	9,075.27	8,293.43	-365.67	8,295.17	1.86	Magn MWD	Baker Hughes	-1.66	8,301. 49	-0.83	N
17,369	91.29	1.04	9,073.34	8,381.40	-364.32	8,383.13	0.37	Magn MWD	Baker Hughes	0.07	8,389. 31	0.36	N
17,458	89.94	359.69	9,072.38	8,470.39	-363.75	8,472.12	2.15	Magn MWD	Baker Hughes	-1.52	8,478. 19	402.98	N
17,546	88.61	357.78	9,073.50	8,558.35	-365.69	8,560.09	2.64	Magn MWD	Baker Hughes	-1.51	8,566. 16	-2.17	N
17,635	88.98	356.76	9,075.37	8,647.23	-369.93	8,648.99	1.22	Magn MWD	Baker Hughes	0.42	8,655. 14	-1.15	N
17,723	88.52	357.98	9,077.29	8,735.11	-373.97	8,736.90	1.48	Magn MWD	Baker Hughes	-0.52	8,743. 12	1.39	N
17,812	89.11	357.56	9,079.13	8,824.03	-377.43	8,825.83	0.81	Magn MWD	Baker Hughes	0.66	8,832. 10	-0.47	N
17,900	89.48	359.35	9,080.21	8,911.99	-379.80	8,913.79	2.08	Magn MWD	Baker Hughes	0.42	8,920. 07	2.03	N
17,900	89.48	359.35	9,080.21	8,911.99	-379.80	8,913.79	2.08	Magn MWD	Baker Hughes	0.00	8,920. 07	0.00	N
17,989	89.32	359.54	9,081.14	9,000.98	-380.67	9,002.79	0.28	Magn MWD	Baker Hughes	-0.18	9,009. 02	0.21	N
17,989	89.32	359.54	9,081.14	9,000.98	-380.67	9,002.79	0.28	Magn MWD	Baker Hughes	0.00	9,009. 02	0.00	N
18,078	90.43	359.93	9,081.34	9,089.97	-381.08	9,091.79	1.32	Magn MWD	Baker Hughes	1.25	9,097. 96	0.44	N
18,078	90.43	359.93	9,081.34	9,089.97	-381.08	9,091.79	1.32	Magn MWD	Baker Hughes	0.00	9,097. 96	0.00	N
18,166	90.93	359.48	9,080.29	9,177.97	-381.53	9,179.78	0.76	Magn MWD	Baker Hughes	0.57	9,185. 89	-0.51	N
18,166	90.93	359.48	9,080.29	9,177.97	-381.53	9,179.78	0.76	Magn MWD	Baker Hughes	0.00	9,185. 89	0.00	N
18,255	91.08	358.26	9,078.73	9,266.93	-383.29	9,268.75	1.38	Magn MWD	Baker Hughes	0.00	9,274. 86	0.00	N
18,255	91.08	358.26	9,078.73	9,266.93	-383.29	9,268.75	1.38	Magn MWD	Baker Hughes	0.17	9,274. 86	-1.37	N
18,343	92.31	358.09	9,076.13	9,354.85	-386.09	9,356.68	1.41	Magn MWD	Baker Hughes	0.00	9,362. 81	0.00	N
18,343	92.31	358.09	9,076.13	9,354.85	-386.09	9,356.68	1.41	Magn MWD	Baker Hughes	1.40	9,362. 81	-0.19	N



Directional Survey

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Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
18,432	91.39	358.72	9,073.26	9,443.77	-388.56	9,445.61	1.25	Magn MWD	Baker Hughes	-1.03	9,451.76	0.71	N
18,432	91.39	358.72	9,073.26	9,443.77	-388.56	9,445.61	1.25	Magn MWD	Baker Hughes	0.00	9,451.76	0.00	N
18,520	88.89	359.37	9,073.04	9,531.75	-390.03	9,533.60	2.94	Magn MWD	Baker Hughes	-2.84	9,539.72	0.74	N
18,520	88.89	359.37	9,073.04	9,531.75	-390.03	9,533.60	2.94	Magn MWD	Baker Hughes	0.00	9,539.72	0.00	N
18,609	88.43	359.61	9,075.12	9,620.72	-390.82	9,622.57	0.58	Magn MWD	Baker Hughes	0.00	9,628.65	0.00	N
18,609	88.43	359.61	9,075.12	9,620.72	-390.82	9,622.57	0.58	Magn MWD	Baker Hughes	-0.52	9,628.65	0.27	N
18,697	88.30	359.00	9,077.63	9,708.68	-391.89	9,710.53	0.71	Magn MWD	Baker Hughes	0.00	9,716.58	0.00	N
18,697	88.30	359.00	9,077.63	9,708.68	-391.89	9,710.53	0.71	Magn MWD	Baker Hughes	-0.15	9,716.58	-0.69	N
18,786	89.48	358.95	9,079.36	9,797.64	-393.48	9,799.51	1.33	Magn MWD	Baker Hughes	1.33	9,805.54	-0.06	N
18,786	89.48	358.95	9,079.36	9,797.64	-393.48	9,799.51	1.33	Magn MWD	Baker Hughes	0.00	9,805.54	0.00	N
18,874	90.31	359.11	9,079.52	9,885.63	-394.97	9,887.50	0.96	Magn MWD	Baker Hughes	0.94	9,893.52	0.18	N
18,963	90.19	357.71	9,079.13	9,974.59	-397.44	9,976.48	1.58	Magn MWD	Baker Hughes	-0.13	9,982.51	-1.57	N
19,052	90.74	357.30	9,078.41	10,063.50	-401.31	10,065.41	0.77	Magn MWD	Baker Hughes	0.62	10,071.50	-0.46	N
19,091	89.84	359.71	9,078.21	10,102.49	-402.33	10,104.39	6.60	Magn MWD	Baker Hughes	-2.31	10,110.50	6.18	N
19,140	90.89	356.99	9,077.90	10,151.46	-403.74	10,153.37	5.95	Magn MWD	Baker Hughes	2.14	10,159.49	-5.55	N
19,208	91.02	356.36	9,076.77	10,219.34	-407.68	10,221.27	0.95	Magn MWD	Baker Hughes	0.19	10,227.46	-0.93	N
19,261	91.02	356.36	9,075.82	10,272.22	-411.05	10,274.17	0.00	Extrap	Baker Hughes	0.00	10,280.44	0.00	N