



Directional Survey

Well Name SALADO DRAW WE 24 FED P23 003H		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 (RKB)	Vertical Section Direction *
Northing (Y) (ft)	Easting (X) (ft)	UTM Grid Zone	359.71

Date 9/2/2016	Definitive? N	Description MWD	Planned N		
MD Tie In (ftKB)	TVD Tie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NS Tie In (ft)	EW Tie In (ft)

Survey Data

MD (RKB)	Incl (°)	Azm (°)	TVD (RKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unused 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
68	0.20	276.30	68.00	0.01	-0.12	0.01	0.29	Magn MS		0.29	0.12	406.32	N
162	0.30	328.30	162.00	0.24	-0.41	0.24	0.25	Magn MS		0.11	0.48	55.32	N
229	0.40	339.30	229.00	0.61	-0.59	0.61	0.18	Magn MS		0.15	0.84	16.42	N
296	0.10	77.30	296.00	0.84	-0.61	0.84	0.64	Magn MS		-0.45	1.04		N
												391.04	
432	0.50	231.30	432.00	0.50	-0.96	0.50	0.43	Magn MS		0.29	1.08	113.24	N
527	0.80	195.30	526.99	-0.40	-1.46	-0.40	0.52	Magn MS		0.32	1.51	-37.89	N
618	1.30	197.30	617.97	-2.00	-1.93	-1.99	0.55	Magn MS		0.55	2.78	2.20	N
709	1.30	200.30	708.95	-3.95	-2.60	-3.94	0.07	Magn MS		0.00	4.73	3.30	N
717	1.20	191.30	716.95	-4.12	-2.64	-4.11	2.75	Magn MS		-1.25	4.90		N
												112.50	
891	3.40	179.28	890.80	-11.07	-2.94	-11.05	1.29	Magn MS	Baker Hughes	1.26	11.45	-6.91	N
1.074	4.13	128.09	1.073.45	-20.56	-2.32	-20.58	1.81	Magn MS	Baker Hughes	0.40	20.69	-27.97	N
1.256	5.91	99.23	1.254.77	-26.11	-16.73	-26.20	1.67	Magn MS	Baker Hughes	0.98	31.01	-15.86	N
1.436	7.98	105.97	1.433.45	-31.04	-37.89	-31.23	1.23	Magn MS	Baker Hughes	1.15	48.98	3.74	N
1.613	8.21	106.26	1.608.88	-37.95	-61.84	-38.27	0.13	Magn MS	Baker Hughes	0.13	72.56	0.16	N
1.789	8.44	106.65	1.782.83	-45.18	-86.27	-45.61	0.13	Magn MS	Baker Hughes	0.13	97.39	0.23	N
1.966	8.88	108.52	1.957.81	-53.24	-111.67	-53.80	0.29	Magn MS	Baker Hughes	0.25	123.71	1.05	N
2.143	7.39	104.74	2.133.03	-60.48	-135.64	-61.16	0.89	Magn MS	Baker Hughes	-0.84	148.51	-2.14	N
2.320	7.57	106.00	2.308.52	-66.59	-157.85	-67.36	0.14	Magn MS	Baker Hughes	0.10	171.32	0.71	N
2.497	7.78	105.83	2.483.93	-73.07	-180.58	-73.98	0.12	Magn MS	Baker Hughes	0.12	194.81	-0.10	N
2.674	8.85	113.84	2.659.08	-81.84	-204.57	-82.87	0.89	Magn MS	Baker Hughes	0.60	220.33	4.53	N
2.851	8.98	110.53	2.833.94	-92.19	-229.96	-93.35	0.30	Magn MS	Baker Hughes	0.07	247.75	-1.67	N
3.028	8.77	114.37	3.008.82	-102.60	-255.18	-103.89	0.36	Magn MS	Baker Hughes	-0.12	275.04	2.17	N
3.206	9.08	118.06	3.184.67	-114.81	-279.94	-116.22	0.37	Magn MS	Baker Hughes	0.17	302.57	2.07	N
3.384	6.56	131.18	3.361.01	-128.11	-299.99	-129.63	1.73	Magn MS	Baker Hughes	-1.42	326.20	7.37	N
3.561	4.54	140.78	3.537.18	-140.20	-312.03	-141.77	1.25	Magn MS	Baker Hughes	-1.14	342.08	5.42	N
3.738	2.19	160.11	3.713.86	-148.80	-317.61	-150.41	1.46	Magn MS	Baker Hughes	-1.33	350.74	10.92	N
3.915	3.31	98.40	3.890.89	-152.73	-323.82	-154.37	1.68	Magn MS	Baker Hughes	0.63	358.03	-34.88	N
4.092	2.55	92.75	4.067.46	-153.67	-332.81	-155.35	0.46	Magn MS	Baker Hughes	-0.43	366.57	-3.19	N
4.269	4.04	87.53	4.244.16	-153.59	-342.97	-155.32	0.86	Magn MS	Baker Hughes	0.84	375.79	-2.95	N
4.446	2.59	107.52	4.420.87	-154.52	-353.02	-156.31	1.04	Magn MS	Baker Hughes	-0.82	385.35	11.29	N
4.531	0.61	209.60	4.505.84	-155.49	-354.62	-157.29	3.27	Magn MS	Baker Hughes	-2.33	387.22	120.09	N
4.617	1.01	250.15	4.591.83	-156.15	-353.68	-157.94	0.79	Magn MS	Baker Hughes	0.47	386.62	47.15	N
4.794	0.75	265.86	4.768.81	-156.76	-351.06	-158.54	0.20	Magn MS	Baker Hughes	-0.15	384.47	8.68	N
4.972	0.85	256.17	4.946.79	-157.16	-348.62	-158.93	0.09	Magn MS	Baker Hughes	0.06	382.41	-5.44	N
5.148	0.68	261.65	5.122.78	-157.63	-346.32	-159.38	0.11	Magn MS	Baker Hughes	-0.10	380.50	3.11	N
5.325	0.62	259.39	5.299.76	-157.96	-344.34	-159.70	0.04	Magn MS	Baker Hughes	-0.03	378.84	-1.28	N
5.502	0.47	272.57	5.476.76	-158.10	-342.67	-159.83	0.11	Magn MS	Baker Hughes	-0.08	377.38	7.45	N
5.680	0.40	273.77	5.654.75	-158.03	-341.32	-159.75	0.04	Magn MS	Baker Hughes	-0.04	376.13	0.67	N
5.858	0.50	258.97	5.832.75	-158.13	-339.94	-159.85	0.09	Magn MS	Baker Hughes	0.06	374.92	-8.31	N
6.035	0.22	216.99	6.009.74	-158.55	-338.98	-160.27	0.21	Magn MS	Baker Hughes	-0.16	374.22	-23.72	N
6.211	0.28	234.24	6.185.74	-159.07	-338.42	-160.78	0.05	Magn MS	Baker Hughes	0.03	373.94	9.80	N
6.388	0.28	206.49	6.362.74	-159.71	-337.88	-161.42	0.08	Magn MS	Baker Hughes	0.00	373.73	-15.68	N
6.565	0.64	214.59	6.539.73	-160.91	-337.13	-162.62	0.21	Magn MS	Baker Hughes	0.20	373.56	4.58	N
6.741	0.65	210.23	6.715.72	-162.69	-336.06	-164.29	0.03	Magn MS	Baker Hughes	0.01	373.33	-2.48	N
6.919	0.73	196.03	6.893.71	-164.55	-335.24	-166.24	0.11	Magn MS	Baker Hughes	0.04	373.45	-7.68	N
7.096	0.83	193.06	7.070.69	-166.88	-334.64	-168.57	0.06	Magn MS	Baker Hughes	0.06	373.94	-1.68	N
7.272	0.90	208.77	7.246.67	-169.33	-333.69	-171.02	0.14	Magn MS	Baker Hughes	0.04	374.20	8.93	N



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			Water Depth (ft)

Survey Data													
MD (RKB)	Incl (°)	Azm (°)	TVD (RKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
7.450	1 11	191 10	7.424 65	-172 25	332 68	-173 93	0 21	Magn MS	Baker Hughes	0 12	374.63	-9 93	N
7.627	0 93	205 11	7.601 62	-175 23	331 74	-176 91	0 17	Magn MS	Baker Hughes	0 10	375 18	7 92	N
7.804	0 83	199 33	7.778 60	-177 75	330 71	-179 42	0 08	Magn MS	Baker Hughes	-0 06	375 45	-3 27	N
7.981	1 04	189 69	7.955 57	-180 54	330 02	-182 21	0 15	Magn MS	Baker Hughes	0 12	376 17	-5 45	N
8.158	0 65	191 09	8.132 55	-183 11	329 55	-184 77	0 22	Magn MS	Baker Hughes	-0 22	377 01	0 79	N
8.334	0 78	202 47	8.308 54	-185 19	328 90	-186 88	0 11	Magn MS	Baker Hughes	0 07	377 46	6 47	N
8.406	0 97	216 95	8.380 53	-186 13	328 35	-187 79	0 40	Magn MS	Baker Hughes	0 28	377 44	20 11	N
8.568	5 73	355 60	8.542 29	-179 16	326 90	-180 81	4 01	Magn MS	Baker Hughes	2 94	372 78	85 59	N
8.612	12 02	349 39	8.585 74	-172 48	325 89	-174 11	14 44	Magn MS	Baker Hughes	14 30	358 71	-14 11	N
8.656	18 68	353 56	8.628 36	-161 67	324 34	-163 31	10 84	Magn MS	Baker Hughes	10 59	362 40	9 48	N
8.701	20 23	356 95	8.671 04	-147 48	323 20	-149 12	8 24	Magn MS	Baker Hughes	7 89	355 26	7 53	N
8.745	24 77	2 87	8.711 68	-130 67	323 25	-132 30	11 52	Magn MS	Baker Hughes	10 32	348 67		N
												804 73	
8.789	30 25	3 52	8.750 69	-110 39	324 40	-112 03	12 47	Magn MS	Baker Hughes	12 45	342 66	1 48	N
8.833	35 05	1 91	8.787 73	-86 68	325 50	-88 33	11 09	Magn MS	Baker Hughes	10 91	336 84	-3 66	N
8.878	39 61	2 75	8.823 50	-59 42	326 62	-61 08	10 20	Magn MS	Baker Hughes	10 13	331 98	1 87	N
8.922	43 84	3 29	8.856 33	-30 19	328 17	-31 85	9 65	Magn MS	Baker Hughes	9 61	329 55	1 23	N
8.966	48 55	2 03	8.886 78	-1 52	329 63	-0 15	10 90	Magn MS	Baker Hughes	10 70	329 63	-2 86	N
9.011	53 17	359 95	8.915 18	-36 41	330 21	-34 74	10 87	Magn MS	Baker Hughes	10 27	332 21	795 38	N
9.055	58 21	357 73	8.939 98	-72 73	329 45	-71 06	12 19	Magn MS	Baker Hughes	11 45	337 38	-5 05	N
9.099	64 35	0 49	8.961 11	-111 29	328 88	-109 62	15 00	Magn MS	Baker Hughes	13 95	347 20		N
												811 91	
9.146	70 33	3 87	8.979 22	-154 60	330 56	-152 92	14 35	Magn MS	Baker Hughes	12 72	364 92	7 19	N
9.190	73 50	4 78	8.992 88	-196 30	333 71	-194 61	7 47	Magn MS	Baker Hughes	7 20	367 17	2 07	N
9.231	76 62	4 94	9.003 44	-235 77	337 07	-234 06	7 62	Magn MS	Baker Hughes	7 61	411 34	0 39	N
9.285	82 33	3 23	9.013 30	-288 70	340 84	-286 97	11 02	Magn MS	Baker Hughes	10 57	446 68	-3 17	N
9.374	85 89	2 53	9.022 44	-377 10	345 29	-375 35	4 08	Magn MS	Baker Hughes	4 00	511 30	-0 79	N
9.462	89 26	1 31	9.026 16	-464 96	348 28	-463 19	4 07	Magn MS	Baker Hughes	3 83	580 91	-1 39	N
9.550	88 89	0 24	9.027 58	-552 94	349 42	-551 16	1 29	Magn MS	Baker Hughes	0 42	654 09	1 22	N
9.639	90 68	0 63	9.027 91	-641 93	350 10	-640 15	2 06	Magn MS	Baker Hughes	2 01	731 20	0 44	N
9.728	90 74	0 45	9.026 81	-730 92	350 94	-729 14	0 21	Magn MS	Baker Hughes	0 07	810 80	0 20	N
9.816	91 02	1 16	9.025 46	-818 90	352 17	-817 11	0 87	Magn MS	Baker Hughes	0 32	891 42	0 81	N
9.906	92 07	359 62	9.023 03	-908 86	352 79	-907 07	2 07	Magn MS	Baker Hughes	1 17	974 93	398 29	N
9.994	88 55	358 08	9.022 56	-996 83	351 02	-995 04	4 37	Magn MS	Baker Hughes	-4 00	1.056 83	-1 75	N
10.083	87 41	356 85	9.025 69	-1.085 68	347 09	-1.083 91	1 88	Magn MS	Baker Hughes	-1 28	1.139 81	-1 38	N
10.171	90 37	359 64	9.027 40	-1.173 61	344 39	-1.171 85	4 62	Magn MS	Baker Hughes	3 36	1.223 09	3 17	N
10.259	90 00	358 19	9.027 11	-1.261 59	342 73	-1.259 84	1 70	Magn MS	Baker Hughes	-0 42	1.307 31	-1 65	N
10.348	89 29	357 29	9.027 67	-1.350 52	339 22	-1.348 78	1 29	Magn MS	Baker Hughes	-0 80	1.392 47	-1 01	N
10.437	89 69	359 51	9.028 46	-1.439 47	336 73	-1.437 75	2 53	Magn MS	Baker Hughes	0 45	1.478 33	2 49	N
10.526	89 94	359 94	9.028 75	-1.528 47	336 31	-1.526 75	0 56	Magn MS	Baker Hughes	0 28	1.565 03	0 48	N
10.614	89 26	359 03	9.029 38	-1.616 46	335 52	-1.614 74	1 29	Magn MS	Baker Hughes	-0 77	1.650 92	-1 03	N
10.703	89 35	1 32	9.030 44	-1.705 45	335 79	-1.703 73	2 57	Magn MS	Baker Hughes	0 10	1.738 19	401 92	N
10.792	89 85	358 56	9.031 06	-1.794 44	335 69	-1.792 72	3 15	Magn MS	Baker Hughes	0 56	1.825 57	401 39	N
10.880	90 00	359 01	9.031 18	-1.882 42	333 63	-1.880 70	0 54	Magn MS	Baker Hughes	0 17	1.911 79	0 51	N
10.968	90 56	358 95	9.030 75	-1.970 40	332 26	-1.968 70	0 64	Magn MS	Baker Hughes	0 64	1.998 22	-0 07	N
11.057	90 86	359 65	9.029 64	-2.059 39	331 17	-2.057 69	0 86	Magn MS	Baker Hughes	0 34	2.085 85	0 79	N



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Survey Data

MD (RKB)	Incl (°)	Azm (°)	TVD (RKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Buid (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
11.145	89.32	359.83	9.029.51	2,147.39	330.78	2,145.68	1.78	Magn MS	Baker Hughes	-1.75	2,172.71	0.20	N
11.234	88.89	359.68	9.030.90	2,238.37	330.39	2,234.67	0.51	Magn MS	Baker Hughes	-0.48	2,260.65	-0.17	N
11.324	87.60	358.78	9.033.65	2,326.32	329.19	2,324.62	1.75	Magn MS	Baker Hughes	-1.43	2,349.50	-1.00	N
11.415	89.85	0.45	9.035.68	2,417.29	328.58	2,415.59	3.08	Magn MS	Baker Hughes	2.47	2,439.52	-	N
11.508	92.16	1.82	9.034.08	2,508.25	330.38	2,506.54	2.95	Magn MS	Baker Hughes	2.54	2,529.91	1.51	N
11.598	87.38	1.05	9.034.45	2,600.19	332.68	2,598.47	5.28	Magn MS	Baker Hughes	-5.20	2,621.39	-0.84	N
11.688	85.46	0.64	9.039.29	2,690.05	334.01	2,688.32	1.12	Magn MS	Baker Hughes	-1.02	2,710.70	-0.46	N
11.779	88.86	359.25	9.043.00	2,780.96	333.92	2,779.24	3.05	Magn MS	Baker Hughes	2.64	2,800.94	394.08	N
11.870	92.10	358.95	9.042.24	2,871.94	332.50	2,870.22	3.57	Magn MS	Baker Hughes	3.55	2,891.12	0.32	N
11.961	91.72	357.98	9.039.21	2,962.85	330.07	2,961.14	1.15	Magn MS	Baker Hughes	0.42	2,981.18	-1.08	N
12.053	91.93	358.67	9.038.28	3,054.77	327.38	3,053.07	0.78	Magn MS	Baker Hughes	0.23	3,072.26	0.75	N
12.144	93.33	358.94	9.032.10	3,145.65	325.48	3,143.98	1.57	Magn MS	Baker Hughes	1.54	3,162.44	0.30	N
12.233	90.15	357.09	9.029.40	3,234.54	322.40	3,232.87	4.13	Magn MS	Baker Hughes	-3.57	3,250.57	-2.08	N
12.321	89.54	0.40	9.029.64	3,322.50	320.48	3,320.84	3.82	Magn MS	Baker Hughes	-0.69	3,337.92	-	N
12.410	90.46	2.02	9.029.64	3,411.48	322.35	3,409.81	2.09	Magn MS	Baker Hughes	1.03	3,426.68	1.82	N
12.498	88.70	0.82	9.030.28	3,499.45	324.54	3,497.76	2.42	Magn MS	Baker Hughes	-2.00	3,514.46	-1.36	N
12.587	91.35	2.33	9.030.24	3,588.40	326.98	3,586.70	3.43	Magn MS	Baker Hughes	2.98	3,603.27	1.70	N
12.675	88.89	0.17	9.030.06	3,676.37	328.90	3,674.68	3.72	Magn MS	Baker Hughes	-2.80	3,691.05	-2.45	N
12.764	87.99	358.29	9.032.48	3,765.32	327.71	3,763.62	2.34	Magn MS	Baker Hughes	-1.01	3,779.56	402.38	N
12.852	87.01	357.97	9.036.32	3,853.19	324.84	3,851.50	1.17	Magn MS	Baker Hughes	-1.11	3,866.86	-0.36	N
12.941	87.63	358.37	9.040.48	3,942.05	322.00	3,940.37	0.83	Magn MS	Baker Hughes	0.70	3,955.16	0.45	N
13.030	86.71	358.20	9.044.88	4,030.90	319.34	4,029.23	1.05	Magn MS	Baker Hughes	-1.03	4,043.53	-0.19	N
13.119	88.83	358.36	9.048.34	4,119.79	316.67	4,118.13	2.39	Magn MS	Baker Hughes	2.36	4,131.94	0.18	N
13.207	87.26	358.75	9.051.34	4,207.70	314.45	4,206.06	1.84	Magn MS	Baker Hughes	-1.78	4,219.44	0.44	N
13.295	93.55	359.26	9.050.72	4,295.64	312.92	4,294.01	7.17	Magn MS	Baker Hughes	7.15	4,307.03	0.58	N
13.383	95.16	359.89	9.044.04	4,383.38	312.27	4,381.75	1.96	Magn MS	Baker Hughes	-1.83	4,394.49	0.72	N
13.472	93.17	0.59	9.037.57	4,472.14	312.64	4,470.50	2.37	Magn MS	Baker Hughes	-2.24	4,483.05	-	N
13.561	90.86	0.50	9.034.44	4,561.08	313.49	4,559.43	2.60	Magn MS	Baker Hughes	2.60	4,571.84	-0.10	N
13.649	86.95	0.88	9.035.12	4,649.04	314.55	4,647.39	4.46	Magn MS	Baker Hughes	-4.44	4,659.67	0.43	N
13.738	85.98	359.82	9.041.63	4,737.88	315.09	4,736.21	1.63	Magn MS	Baker Hughes	-1.11	4,748.33	403.30	N



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Survey Data

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13.827	88.37	359.18	9.046.03	4.826.75	314.32	4.825.09	2.80	Magn MS	Baker Hughes	2.71	4,836.97	-0.72	N
13.915	89.38	0.31	9.047.76	4.914.72	313.92	4.913.07	1.72	Magn MS	Baker Hughes	1.15	4,924.74	-	N
14.004	87.72	0.66	9.050.01	5.003.69	314.68	5.002.03	1.91	Magn MS	Baker Hughes	-1.87	5,013.57	0.39	N
14.093	88.31	0.80	9.053.09	5.092.63	315.81	5.090.96	0.68	Magn MS	Baker Hughes	0.66	5,102.41	0.16	N
14.181	88.71	0.42	9.055.38	5.180.59	316.75	5.178.92	0.63	Magn MS	Baker Hughes	0.45	5,190.27	-0.43	N
14.270	89.54	0.51	9.056.74	5.269.58	317.47	5.267.91	0.94	Magn MS	Baker Hughes	0.93	5,279.13	0.10	N
14.358	87.59	359.69	9.058.94	5.357.55	317.62	5.355.87	2.40	Magn MS	Baker Hughes	2.22	5,366.95	408.16	N
14.447	87.26	359.70	9.062.94	5.446.46	317.15	5.444.78	0.37	Magn MS	Baker Hughes	0.37	5,455.68	0.01	N
14.536	86.98	358.59	9.067.41	5.535.33	315.82	5.533.66	1.28	Magn MS	Baker Hughes	0.31	5,544.33	-1.25	N
14.624	89.38	0.93	9.070.21	5.623.27	315.46	5.621.61	3.81	Magn MS	Baker Hughes	2.73	5,632.12	-	N
14.713	89.11	0.36	9.071.38	5.712.26	316.46	5.710.59	0.71	Magn MS	Baker Hughes	-0.30	5,721.02	-0.64	N
14.801	89.41	359.86	9.072.52	5.800.25	316.63	5.798.58	0.66	Magn MS	Baker Hughes	0.34	5,808.89	408.52	N
14.889	89.26	358.88	9.073.54	5.888.24	315.66	5.886.57	1.13	Magn MS	Baker Hughes	0.17	5,896.69	-1.11	N
14.978	89.72	358.08	9.074.33	5.977.20	313.30	5.975.54	1.04	Magn MS	Baker Hughes	0.52	5,985.41	0.90	N
15.066	87.53	358.11	9.076.44	6.065.12	310.37	6.063.48	2.49	Magn MS	Baker Hughes	2.49	6,073.06	0.03	N
15.155	89.07	359.70	9.079.08	6.154.06	308.68	6.152.42	2.49	Magn MS	Baker Hughes	1.73	6,161.80	1.79	N
15.243	89.54	0.09	9.080.15	6.242.06	308.51	6.240.42	0.69	Magn MS	Baker Hughes	0.53	6,249.68	408.65	N
15.332	89.85	359.57	9.080.62	6.331.05	308.25	6.329.41	0.68	Magn MS	Baker Hughes	0.35	6,338.55	403.91	N
15.420	90.15	359.46	9.080.62	6.419.05	307.51	6.417.41	0.36	Magn MS	Baker Hughes	0.34	6,426.41	-0.13	N
15.508	90.37	359.09	9.080.23	6.507.04	306.39	6.505.41	0.49	Magn MS	Baker Hughes	0.25	6,514.25	-0.42	N
15.597	90.03	359.52	9.079.91	6.596.04	305.31	6.594.41	0.62	Magn MS	Baker Hughes	-0.38	6,603.10	0.48	N
15.685	90.83	359.99	9.079.25	6.684.03	304.94	6.682.40	1.05	Magn MS	Baker Hughes	0.91	6,690.98	0.53	N
15.774	89.08	358.15	9.079.32	6.773.01	303.49	6.771.39	2.85	Magn MS	Baker Hughes	-1.97	6,779.81	2.07	N
15.863	89.57	359.66	9.080.37	6.861.99	301.79	6.860.37	1.78	Magn MS	Baker Hughes	0.55	6,868.62	1.70	N
15.951	90.18	359.34	9.080.56	6.949.98	301.02	6.948.37	0.78	Magn MS	Baker Hughes	0.69	6,956.50	-0.36	N
16.040	90.52	357.08	9.080.02	7.038.93	298.24	7.037.33	2.57	Magn MS	Baker Hughes	0.38	7,045.25	-2.54	N
16.128	93.27	1.50	9.077.11	7.126.85	297.15	7.125.25	5.91	Magn MS	Baker Hughes	3.13	7,133.04	-	N
16.216	90.49	1.02	9.074.22	7.214.77	299.08	7.213.16	3.21	Magn MS	Baker Hughes	-3.16	7,220.97	-0.55	N
16.305	91.32	0.74	9.072.82	7.303.75	300.45	7.302.13	0.98	Magn MS	Baker Hughes	0.93	7,309.92	-0.31	N
16.393	91.64	0.43	9.070.54	7.391.71	301.35	7.390.09	0.51	Magn MS	Baker Hughes	0.36	7,397.85	-0.35	N



Directional Survey

Well Name SALADO DRAW WE 24 FED P23 003H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)

Survey Data

MD (RKB)	Incl (°)	Azm (°)	TVD (RKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
16.482	87.81	0.34	9.070.97	7,480.69	301.95	7,479.07	4.30	Magn MS	Baker Hughes	-4.30	7,486.78	-0.10	N
16.571	87.72	0.44	9.074.44	7,569.62	302.55	7,568.00	0.15	Magn MS	Baker Hughes	-0.10	7,575.67	0.11	N
16.660	87.50	359.72	9.078.15	7,658.55	302.68	7,658.92	0.85	Magn MS	Baker Hughes	-0.25	7,664.52	403.69	N
16.749	89.48	0.17	9.080.50	7,747.51	302.59	7,745.88	2.28	Magn MS	Baker Hughes	2.22	7,753.42	403.99	N
16.838	90.55	359.48	9.080.48	7,836.51	302.30	7,834.88	1.44	Magn MS	Baker Hughes	1.20	7,842.34	403.70	N
16.926	90.62	359.38	9.079.58	7,924.50	301.41	7,922.87	0.12	Magn MS	Baker Hughes	0.08	7,930.23	-0.09	N
17.015	91.17	359.05	9.078.19	8,013.48	300.19	8,011.88	0.72	Magn MS	Baker Hughes	0.62	8,019.10	-0.37	N
17.104	91.29	358.21	9.076.28	8,102.43	298.07	8,100.82	0.95	Magn MS	Baker Hughes	0.13	8,107.91	0.94	N
17.192	91.63	358.18	9.074.03	8,190.36	295.30	8,188.76	0.39	Magn MS	Baker Hughes	0.39	8,195.68	-0.03	N
17.281	90.89	358.05	9.072.08	8,279.29	292.37	8,277.70	0.84	Magn MS	Baker Hughes	-0.83	8,284.45	0.15	N
17.369	90.77	1.51	9.070.80	8,367.27	292.03	8,365.68	3.93	Magn MS	Baker Hughes	0.14	8,372.38	405.16	N
17.458	91.57	1.76	9.068.98	8,456.21	294.57	8,454.61	0.94	Magn MS	Baker Hughes	0.90	8,461.34	0.28	N
17.546	92.04	2.67	9.066.21	8,544.10	297.97	8,542.48	1.16	Magn MS	Baker Hughes	0.53	8,549.29	1.03	N
17.635	89.94	1.34	9.064.68	8,633.03	301.08	8,631.39	2.79	Magn MS	Baker Hughes	-2.36	8,638.27	-1.49	N
17.723	87.75	359.25	9.066.45	8,721.00	301.54	8,719.36	3.44	Magn MS	Baker Hughes	-2.49	8,726.21	406.72	N
17.812	87.69	358.61	9.069.99	8,809.91	299.88	8,808.28	0.72	Magn MS	Baker Hughes	0.07	8,815.01	0.72	N
17.901	88.18	358.06	9.073.20	8,898.81	297.29	8,897.19	0.83	Magn MS	Baker Hughes	0.55	8,903.78	-0.62	N
17.989	90.34	359.35	9.074.33	8,986.78	295.30	8,985.17	2.86	Magn MS	Baker Hughes	2.45	8,991.63	1.47	N
18.078	91.57	358.96	9.072.85	9,075.75	293.99	9,074.15	1.45	Magn MS	Baker Hughes	1.38	9,080.51	-0.44	N
18.166	92.24	358.85	9.069.92	9,163.69	292.31	9,162.09	0.77	Magn MS	Baker Hughes	0.76	9,168.35	-0.12	N
18.255	90.80	357.71	9.067.58	9,252.61	289.64	9,251.03	2.06	Magn MS	Baker Hughes	-1.62	9,257.14	-1.28	N
18.343	91.88	0.09	9.065.51	9,340.56	287.95	9,338.99	2.97	Magn MS	Baker Hughes	1.23	9,345.00	406.39	N
18.432	93.21	359.47	9.061.55	9,429.47	287.61	9,427.90	1.65	Magn MS	Baker Hughes	1.49	9,433.86	403.80	N
18.520	91.45	359.48	9.057.98	9,517.39	286.79	9,515.82	2.00	Magn MS	Baker Hughes	2.00	9,521.71	-0.01	N
18.609	88.80	359.45	9.057.78	9,606.38	285.94	9,604.81	2.98	Magn MS	Baker Hughes	-2.98	9,610.64	-0.01	N
18.696	88.46	359.35	9.059.91	9,695.35	285.01	9,693.78	0.40	Magn MS	Baker Hughes	-0.38	9,699.54	0.11	N
18.786	88.80	0.08	9.062.01	9,783.32	284.56	9,781.78	0.89	Magn MS	Baker Hughes	0.39	9,787.46	408.28	N
18.875	89.42	359.07	9.063.40	9,872.31	284.58	9,870.75	0.70	Magn MS	Baker Hughes	0.70	9,876.41	404.39	N
18.963	89.45	359.69	9.064.26	9,960.31	284.32	9,958.74	0.32	Magn MS	Baker Hughes	0.03	9,964.36	-0.32	N
19.052	89.88	359.51	9.064.78	10,049.30	283.70	10,047.74	0.52	Magn MS	Baker Hughes	0.48	10,053.31	-0.20	N



Directional Survey

Well Name SALADO DRAW WE 24 FED P23 003H	Leaser	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
19.140	89.57	357.42	9,065.21	10,137.27	281.34	10,135.71	2.40	Magn MS	Baker Hughes	-0.35	10,141 17	-2.37	N
19.207	90.99	357.28	9,064.88	10,204.19	278.24	10,202.65	2.13	Magn MS	Baker Hughes	2.12	10,207 98	-0.21	N
19.261	90.99	357.28	9,063.95	10,258.12	275.68	10,256.60	0.00	Extrap	Baker Hughes	0.00	10,261 83	0.00	N

Stimulation Intervals

UWI	Well Name	Start Date	Interval Number	Top (ftKB)	Btm (ftKB)	P Breakdown (psi)	Avg Treat Rate (bbl/min)	Avg Treat Pressure (psi)
3002543297	SD WE 24 P23 003H	12/20/2016	1	18,909.00	19,095.00	7,164.00	83.6	6,868.00
3002543297		12/21/2016	2	18,709.00	18,871.00	6,146.00	86.03	6,749.00
3002543297		12/21/2016	3	18,509.00	18,671.00	6,475.00	84.91	6,732.00
3002543297		12/22/2016	4	18,309.00	18,471.00	6,452.00	85.55	6,620.00
3002543297		12/22/2016	5	18,109.00	18,271.00	5,131.00	84.89	6,723.00
3002543297		12/23/2016	6	17,909.00	18,071.00	4,909.00	85.89	6,815.00
3002543297		12/23/2016	7	17,709.00	17,871.00	5,615.00	84.73	6,703.00
3002543297		12/24/2016	8	17,509.00	17,671.00	4,859.00	85	7,087.00
3002543297		12/25/2016	9	17,309.00	17,471.00	0	85.01	8,649.00
3002543297		12/25/2016	10	17,109.00	17,271.00	4,203.00	85.58	6,825.00
3002543297		12/26/2016	11	16,909.00	17,071.00	5,539.00	73.51	7,570.00
3002543297		12/27/2016	12	16,709.00	16,871.00	5,430.00	82.54	7,124.00
3002543297		12/27/2016	13	16,509.00	16,671.00	5,347.00	84.33	7,236.00
3002543297		12/28/2016	14	16,309.00	16,471.00	5,808.00	79.6	6,919.00
3002543297		12/28/2016	15	16,109.00	16,271.00	5,474.00	84.5	6,833.00
3002543297		12/29/2016	16	15,909.00	16,071.00	5,356.00	83.81	6,560.00
3002543297		12/30/2016	17	15,709.00	15,871.00	5,421.00	85.3	6,938.00
3002543297		12/30/2016	18	15,509.00	15,671.00	6,211.00	84.22	6,808.00
3002543297		12/31/2016	19	15,309.00	15,471.00	5,703.00	82.77	6,506.00
3002543297		12/31/2016	20	15,109.00	15,271.00	5,457.00	85.6	6,955.00
3002543297		1/1/2017	21	14,909.00	15,071.00	5,218.00	84.24	6,730.00
3002543297		1/2/2017	22	14,709.00	14,871.00	5,285.00	81.34	6,640.00
3002543297		1/2/2017	23	14,509.00	14,671.00	5,386.00	86.7	7,054.00
3002543297		1/3/2017	24	14,309.00	14,471.00	5,550.00	84.4	6,571.00
3002543297		1/3/2017	25	14,109.00	14,271.00	5,312.00	82.7	6,536.00
3002543297		1/4/2017	26	13,909.00	14,071.00	5,707.00	83.81	6,374.00
3002543297		1/4/2017	27	13,709.00	13,871.00	5,827.00	82.7	6,707.00
3002543297		1/5/2017	28	13,509.00	13,671.00	5,923.00	84.82	6,609.00
3002543297		1/6/2017	29	13,309.00	13,471.00	5,851.00	84.63	6,502.00
3002543297		1/7/2017	30	13,109.00	13,271.00	6,533.00	83.08	6,620.00
3002543297		1/7/2017	31	12,909.00	13,071.00	5,161.00	83.7	6,606.00
3002543297		1/8/2017	32	12,709.00	12,871.00	5,397.00	84.62	6,585.00

3002543297	1/8/2017	33	12,509.00	12,671.00	5,192.00	88	6,681.00
3002543297	1/9/2017	34	12,309.00	12,471.00	5,011.00	85.19	6,795.00
3002543297	1/9/2017	35	12,109.00	12,271.00	5,091.00	85.7	6,704.00
3002543297	1/10/2017	36	11,909.00	12,071.00	5,085.00	85.1	6,660.00
3002543297	1/10/2017	37	11,709.00	11,871.00	4,534.00	85	6,368.00
3002543297	1/11/2017	38	11,509.00	11,671.00	5,296.00	85.16	6,413.00
3002543297	1/11/2017	39	11,309.00	11,471.00	4,991.00	88	6,399.00
3002543297	1/12/2017	40	11,109.00	11,271.00	6,568.00	85.3	6,253.00
3002543297	1/12/2017	41	10,909.00	11,071.00	5,667.00	84.5	6,308.00
3002543297	1/13/2017	42	10,709.00	10,871.00	5,485.00	85.04	6,219.00
3002543297	1/14/2017	43	10,509.00	10,671.00	4,864.00	85.37	6,124.00
3002543297	1/14/2017	44	10,309.00	10,471.00	5,508.00	86.5	6,148.00
3002543297	1/15/2017	45	10,109.00	10,271.00	6,224.00	89.93	6,396.00
3002543297	1/15/2017	46	9,909.00	10,071.00	5,541.00	89	6,275.00
3002543297	1/16/2017	47	9,709.00	9,871.00	5,663.00	90.36	6,391.00
3002543297	1/16/2017	48	9,509.00	9,671.00	5,094.00	88.5	6,070.00
3002543297	1/17/2017	49	9,309.00	9,471.00	6,016.00	85.21	5,902.00

Max Treat Rate (bbl/min)	Max Treat Pressure (psi)	Post-Treat ISIP (psi)	Total Clean Volume (bbl)	Total Slurry Vol (bbl)	Proppant In Formation (lb)
85.8	9,021.00	1,964.00	7,827.52	8,128.79	279,287.00
86.93	9,008.00	2,417.00	7,910.07	8,213.08	280,890.00
85.94	8,784.00	2,053.00	7,703.26	8,005.52	280,201.00
87.2	8,921.00	2,360.00	7,731.31	8,033.78	280,389.00
85.74	8,735.00	2,187.00	7,772.55	8,074.38	279,823.00
87.48	8,752.00	2,596.00	7,822.60	8,125.03	280,359.00
85.72	8,537.00	2,405.00	7,630.14	7,928.94	276,974.00
86	8,732.00	2,644.00	7,715.86	8,018.39	280,447.20
85.01	8,799.00	2,828.00	7,714.91	8,018.07	281,017.00
86.38	8,820.00	2,500.00	7,733.33	8,035.52	280,450.00
83.51	9,034.00	3,064.00	7,888.29	8,191.16	280,785.00
85.9	8,689.00	2,614.00	7,811.83	8,115.48	281,487.00
85.69	8,173.00	2,924.00	7,991.31	8,293.01	279,797.00
85.48	7,620.00	2,751.00	8,170.79	8,474.68	281,883.00
85.9	8,295.00	2,548.00	7,629.57	7,932.80	281,121.00
85.75	8,977.00	2,707.00	7,713.41	8,017.72	282,142.00
85.8	8,382.00	2,595.00	7,669.98	7,972.85	280,784.00
85.55	8,526.00	2,931.00	7,630.17	7,935.32	282,967.00
85.36	8,109.00	2,757.00	7,547.07	7,850.32	281,192.00
86.7	8,227.00	2,637.00	7,565.64	7,867.98	280,296.00
85.17	7,938.00	2,692.00	7,727.24	8,028.34	279,150.00
82.55	8,159.00	3,108.00	7,609.45	7,910.29	278,905.00
88.9	8,757.00	2,794.00	7,562.24	7,864.50	280,197.00
85.4	8,718.00	2,770.00	7,684.86	7,989.80	282,705.00
85.9	8,374.00	2,567.00	7,595.74	7,898.58	280,724.00
85.63	8,263.00	2,697.00	7,587.00	7,889.16	280,141.00
83.9	8,998.00	2,493.00	7,583.67	7,886.28	280,520.00
85.42	7,896.00	2,649.00	7,508.74	7,812.66	281,778.00
85.56	8,250.00	2,613.00	7,918.40	8,223.03	282,399.00
85.61	7,392.00	2,621.00	7,647.12	7,952.88	283,468.00
86.2	8,009.00	2,747.00	7,495.62	7,797.91	280,218.00
85.58	8,137.00	2,751.00	7,579.40	7,882.34	280,819.00

89.2	9,082.00	2,720.00	7,507.14	7,809.80	280,550.00
86.89	7,996.00	2,690.00	7,536.45	7,839.64	281,055.00
86.7	8,766.00	2,587.00	7,409.26	7,711.81	280,454.00
85.78	8,395.00	2,467.00	7,464.81	7,766.54	279,696.00
85.7	8,626.00	2,539.00	7,533.93	7,837.20	281,116.00
85.98	9,022.00	2,819.00	7,688.40	7,991.06	280,554.00
89.5	8,810.00	2,665.00	7,568.36	7,870.25	279,840.00
85.77	9,010.00	2,814.00	7,386.64	7,686.72	278,152.00
85.4	8,871.00	2,518.00	7,493.05	7,795.14	280,028.00
85.75	8,366.00	2,569.00	7,527.05	7,829.89	280,722.00
85.92	7,982.00	2,617.00	7,468.00	7,770.69	280,578.00
87.2	7,752.00	2,658.00	7,680.67	7,983.60	280,815.00
90.38	8,279.00	2,603.00	7,437.05	7,738.10	279,069.00
89.6	8,948.00	2,705.00	7,397.00	7,700.81	281,626.00
90.71	7,245.00	2,635.00	7,418.17	7,721.14	280,914.00
89.5	8,826.00	2,571.00	7,650.88	7,954.79	281,755.00
85.6	9,145.00	2,428.00	7,311.62	7,614.97	281,181.00
			374,157.57	388,990.74	13,751,420.20