



Directional Survey

Well Name SALADO DRAW WE 24 FED P23 004H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)

Wellbore Name Original Hole	Parent Wellbore Original Hole	Min Kick Off Depth (RKB) 8,600.0	Vertical Section Direction 359.71
Northing (Y) (ft)	Easting (X) (ft)	UTM Grid Zone	

Date 9/7/2016	Definitive N	Description MWD	Planned N
MD True In (RKB)	TVD True In (RKB)	Inclination True In (°)	Azimuth True In (°)

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	360.00	0.00	0.00	0.00	0.00	0.00	Magn MS		0.00	0.00	0.00	N
162	0.60	30.30	162.00	0.73	0.43	0.73	0.37	Magn MS		0.37	0.85	203.52	N
205	0.40	320.30	205.00	1.04	0.45	1.04	1.39	Magn MS		-0.47	1.13	674.42	N
237	0.40	318.30	236.99	1.21	0.30	1.21	0.04	Magn MS		0.00	1.25	-6.25	N
298	0.50	33.30	297.99	1.59	0.30	1.59	0.91	Magn MS		0.16	1.62	467.21	N
346	0.10	209.30	345.99	1.73	0.40	1.73	1.25	Magn MS		-0.83	1.78	366.67	N
385	0.40	317.30	384.99	1.80	0.29	1.80	1.13	Magn MS		0.77	1.83	276.92	N
445	0.30	100.30	444.99	1.93	0.30	1.93	1.11	Magn MS		-0.17	1.95	361.67	N
476	0.30	332.30	475.99	1.99	0.34	1.98	1.74	Magn MS		0.00	2.01	748.39	N
530	0.20	287.30	529.99	2.14	0.19	2.14	0.39	Magn MS		-0.19	2.15	-83.33	N
621	0.60	220.30	620.99	1.82	-0.27	1.82	0.61	Magn MS		0.44	1.84	-73.63	N
801	0.93	190.21	800.97	-0.43	-1.16	-0.42	0.31	Magn MS	Baker Hughes	0.22	1.23	-16.72	N
983	2.41	120.58	982.90	-3.92	1.86	-3.93	1.24	Magn MS	Baker Hughes	0.78	4.34	-38.26	N
1,165	5.13	102.89	1,164.50	-7.68	13.09	-7.75	1.61	Magn MS	Baker Hughes	1.49	15.18	-9.72	N
1,347	5.65	103.72	1,345.69	-11.62	29.72	-11.77	0.29	Magn MS	Baker Hughes	0.29	31.92	0.46	N
1,525	8.22	101.84	1,522.37	-16.31	50.69	-16.57	1.45	Magn MS	Baker Hughes	1.44	53.25	-1.06	N
1,701	8.66	104.18	1,696.47	-22.14	75.85	-22.53	0.32	Magn MS	Baker Hughes	0.25	79.02	1.33	N
1,878	8.55	108.61	1,871.48	-29.61	101.24	-30.12	0.38	Magn MS	Baker Hughes	-0.06	105.48	2.50	N
2,054	9.71	96.66	2,045.26	-35.50	128.39	-36.15	1.26	Magn MS	Baker Hughes	0.66	133.21	-6.79	N
2,231	10.07	100.86	2,219.63	-40.15	156.41	-40.95	0.46	Magn MS	Baker Hughes	0.20	163.42	2.37	N
2,408	10.20	103.62	2,393.87	-46.76	188.84	-47.71	0.28	Magn MS	Baker Hughes	0.07	194.54	1.56	N
2,586	11.04	94.86	2,568.83	-51.91	221.14	-53.03	1.02	Magn MS	Baker Hughes	0.47	227.15	-4.92	N
2,763	11.71	84.17	2,742.37	-51.52	255.90	-52.82	1.25	Magn MS	Baker Hughes	0.38	261.04	-6.04	N
2,940	11.47	86.00	2,915.77	-48.47	291.33	-49.94	0.25	Magn MS	Baker Hughes	-0.14	295.33	1.03	N
3,117	10.41	90.99	3,089.55	-47.52	324.87	-49.18	0.80	Magn MS	Baker Hughes	-0.60	328.33	2.82	N
3,295	10.40	97.23	3,264.63	-49.82	356.89	-51.62	0.63	Magn MS	Baker Hughes	-0.01	360.35	3.51	N
3,472	9.74	104.75	3,436.91	-55.64	387.22	-57.60	0.83	Magn MS	Baker Hughes	-0.37	391.20	4.25	N
3,649	8.76	117.17	3,613.62	-65.61	413.69	-67.70	1.25	Magn MS	Baker Hughes	-0.55	418.86	7.02	N
3,827	10.47	123.66	3,789.12	-80.76	439.22	-82.99	1.14	Magn MS	Baker Hughes	0.96	446.58	3.65	N
4,004	11.32	121.77	3,962.93	-98.82	467.37	-101.19	0.52	Magn MS	Baker Hughes	0.48	477.71	-1.07	N
4,180	13.05	99.76	4,135.05	-111.30	501.66	-113.83	2.80	Magn MS	Baker Hughes	0.96	513.86	-12.51	N
4,357	14.36	99.96	4,307.00	-118.48	543.01	-121.23	0.75	Magn MS	Baker Hughes	0.75	555.78	0.11	N
4,546	12.28	96.74	4,490.90	-124.90	586.09	-127.87	1.18	Magn MS	Baker Hughes	-1.11	589.25	-1.70	N
4,708	10.37	98.28	4,649.74	-129.03	617.63	-132.15	1.19	Magn MS	Baker Hughes	-1.18	630.96	0.95	N
4,885	9.77	98.69	4,824.01	-133.59	648.24	-136.87	0.34	Magn MS	Baker Hughes	-0.34	661.86	0.23	N
5,062	9.53	97.41	4,998.51	-137.75	677.61	-141.18	0.18	Magn MS	Baker Hughes	-0.14	681.47	-0.72	N
5,238	9.18	97.31	5,172.17	-141.41	705.99	-144.98	0.20	Magn MS	Baker Hughes	-0.20	720.01	-0.06	N
5,416	8.86	96.66	5,347.96	-144.81	733.68	-148.52	0.19	Magn MS	Baker Hughes	-0.18	747.84	-0.37	N
5,594	8.24	95.11	5,523.99	-147.54	760.00	-151.38	0.37	Magn MS	Baker Hughes	-0.35	774.19	-0.87	N
5,771	7.07	95.01	5,699.41	-149.62	783.49	-153.58	0.66	Magn MS	Baker Hughes	-0.68	797.65	-0.06	N
5,948	6.52	93.45	5,875.16	-151.17	804.37	-155.24	0.33	Magn MS	Baker Hughes	-0.31	818.45	-0.88	N
6,125	8.73	100.08	6,050.59	-154.13	827.63	-158.32	1.34	Magn MS	Baker Hughes	1.25	841.86	3.75	N
6,302	8.32	98.06	6,225.63	-158.28	853.54	-162.59	0.29	Magn MS	Baker Hughes	-0.23	868.09	-1.14	N
6,478	7.78	95.86	6,399.90	-161.28	877.99	-165.72	0.35	Magn MS	Baker Hughes	-0.31	892.68	-1.25	N
6,652	6.14	100.41	6,751.28	-167.14	920.45	-171.80	0.49	Magn MS	Baker Hughes	-0.46	935.51	1.29	N
7,009	5.33	100.03	6,927.39	-170.29	937.86	-175.03	0.46	Magn MS	Baker Hughes	-0.46	953.19	-0.21	N
7,186	4.92	94.57	7,103.69	-172.32	953.52	-177.15	0.36	Magn MS	Baker Hughes	-0.23	968.97	-3.08	N
7,362	2.29	90.78	7,279.32	-172.97	964.56	-177.85	1.50	Magn MS	Baker Hughes	-1.49	979.95	-2.15	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)	Unused data
7.541	1.97	87.08	7.458.20	-172.86	971.21	-177.78	0.18	Magn MS	Baker Hughes	-0.18	986.47	-2.08	N
7.613	1.66	83.46	7.530.16	-172.68	973.48	-177.61	0.46	Magn MS	Baker Hughes	-0.43	986.68	-5.00	N
7.789	0.16	87.19	7.706.14	-172.38	976.26	-177.32	0.85	Magn MS	Baker Hughes	-0.85	991.36	2.12	N
7.966	0.38	122.19	7.883.13	-172.68	977.00	-177.62	0.15	Magn MS	Baker Hughes	0.12	992.15	19.77	N
8.143	5.50	284.28	8.059.88	-170.90	969.27	-175.80	3.31	Magn MS	Baker Hughes	2.89	984.22	91.58	N
8.320	0.51	251.93	8.236.58	-169.05	960.30	-173.91	2.87	Magn MS	Baker Hughes	-2.82	975.06	-18.28	N
8.497	0.20	289.17	8.413.58	-169.19	959.28	-174.05	0.21	Magn MS	Baker Hughes	-0.18	974.06	21.04	N
8.674	9.75	354.52	8.589.72	-154.14	957.53	-158.98	5.46	Magn MS	Baker Hughes	5.40	969.88	36.92	N
8.763	18.47	352.13	8.675.95	-132.63	954.88	-137.46	9.82	Magn MS	Baker Hughes	9.80	964.04	-2.69	N
8.851	28.39	345.16	8.756.61	-98.50	947.59	-103.30	11.69	Magn MS	Baker Hughes	11.27	952.70	-7.92	N
8.940	36.57	338.81	8.831.65	-53.24	932.56	-57.96	9.95	Magn MS	Baker Hughes	9.19	934.07	-7.13	N
9.029	43.85	344.19	8.899.59	1.23	914.54	-3.40	9.06	Magn MS	Baker Hughes	8.18	914.54	6.04	N
9.117	52.70	351.71	8.958.15	65.37	901.16	60.81	11.90	Magn MS	Baker Hughes	10.06	903.52	8.55	N
9.206	64.17	355.78	9.004.67	140.62	893.07	136.10	13.46	Magn MS	Baker Hughes	12.89	904.08	4.57	N
9.294	75.24	359.63	9.035.16	222.95	889.87	218.44	13.23	Magn MS	Baker Hughes	12.58	917.38	4.38	N
9.383	85.65	4.79	9.049.92	310.50	893.31	305.97	13.02	Magn MS	Baker Hughes	11.70	945.74	-	N
9.472	90.77	6.61	9.052.70	398.98	902.15	394.41	6.10	Magn MS	Baker Hughes	5.75	986.43	2.04	N
9.560	90.74	7.40	9.051.54	486.31	912.88	481.69	0.90	Magn MS	Baker Hughes	-0.03	1,034.33	0.90	N
9.649	90.86	4.34	9.050.30	574.83	921.98	570.15	3.44	Magn MS	Baker Hughes	0.13	1,086.50	-3.44	N
9.737	90.77	5.14	9.049.05	662.52	929.25	657.81	0.91	Magn MS	Baker Hughes	-0.10	1,141.24	0.91	N
9.826	92.16	5.07	9.046.77	751.13	937.17	746.38	1.56	Magn MS	Baker Hughes	1.56	1,201.03	-0.08	N
9.915	91.76	4.19	9.043.73	839.79	944.35	835.00	1.09	Magn MS	Baker Hughes	-0.45	1,263.74	-0.99	N
10.004	91.35	4.40	9.041.31	928.51	951.01	923.68	0.52	Magn MS	Baker Hughes	-0.46	1,329.11	0.24	N
10.092	89.38	359.60	9.040.75	1,016.42	954.08	1,011.58	5.90	Magn MS	Baker Hughes	-2.24	1,394.05	403.64	N
10.181	89.17	355.64	9.041.88	1,105.32	950.38	1,100.50	4.46	Magn MS	Baker Hughes	-0.24	1,457.72	-4.45	N
10.269	90.37	357.41	9.042.23	1,193.15	945.05	1,188.35	2.43	Magn MS	Baker Hughes	1.36	1,522.08	2.01	N
10.358	88.86	354.48	9.042.83	1,281.92	938.76	1,277.15	3.70	Magn MS	Baker Hughes	-1.70	1,588.89	-3.29	N
10.446	96.54	354.18	9.038.69	1,369.32	930.08	1,364.60	8.73	Magn MS	Baker Hughes	8.73	1,655.32	-0.34	N
10.535	94.56	0.21	9.030.07	1,457.75	925.76	1,453.05	7.10	Magn MS	Baker Hughes	-2.22	1,726.87	397.72	N
10.624	91.02	3.92	9.025.74	1,546.56	928.96	1,541.84	5.76	Magn MS	Baker Hughes	-3.98	1,804.11	4.17	N
10.715	90.55	3.10	9.024.49	1,637.38	934.53	1,632.63	1.04	Magn MS	Baker Hughes	-0.52	1,885.30	-0.90	N
10.806	94.35	1.06	9.020.60	1,728.22	937.83	1,723.45	4.74	Magn MS	Baker Hughes	4.18	1,966.28	-2.24	N
10.897	91.45	1.42	9.016.00	1,819.07	939.80	1,814.29	3.21	Magn MS	Baker Hughes	-3.19	2,047.49	0.40	N
10.988	86.83	358.58	9.017.36	1,910.02	939.80	1,905.24	5.96	Magn MS	Baker Hughes	-5.06	2,128.71	392.48	N
11.079	87.97	355.45	9.021.49	2,000.79	935.07	1,996.03	3.66	Magn MS	Baker Hughes	1.25	2,208.51	-3.44	N
11.170	88.03	355.51	9.024.67	2,091.46	927.90	2,086.73	0.09	Magn MS	Baker Hughes	0.07	2,288.05	0.07	N
11.261	87.90	356.30	9.027.90	2,182.18	921.41	2,177.47	0.88	Magn MS	Baker Hughes	-0.14	2,368.72	0.87	N
11.352	90.43	358.58	9.029.23	2,273.05	917.33	2,268.38	3.73	Magn MS	Baker Hughes	2.78	2,451.17	2.48	N



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Survey Data													
MD (ft)	Incl (°)	Azm (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depth (ft)	Turn (°/100ft)	Unuse d data
11,443	90 46	356 45	9,028 52	2,363.96	913 37	2,359 30	2 32	Magn MS	Baker Hughes	0 03	2,534 27	-2.32	N
11,534	90 06	356 33	9,028 11	2,454.77	907.64	2,450 15	0 46	Magn MS	Baker Hughes	-0 44	2,617. 20	-0 13	N
11,623	89 85	356 22	9,028 18	2,543.59	901 85	2,538 99	0 27	Magn MS	Baker Hughes	-0 24	2,698. 74	-0 12	N
11 712	89 97	355 22	9,028 32	2,632.34	895 21	2,627.77	1 13	Magn MS	Baker Hughes	0 13	2 780 40	-1 12	N
11 800	92 28	355 73	9,026 59	2,720 04	888 27	2,715 51	2 69	Magn MS	Baker Hughes	2 63	2 861 41	0 58	N
11 889	91 97	357 56	9,023 29	2 808 82	883 07	2,804 32	2 08	Magn MS	Baker Hughes	-0 35	2 944 37	2 06	N
11,977	93 27	0 88	9,019 26	2 896 71	881.87	2 892 21	4 05	Magn MS	Baker Hughes	1 48	3,027 97	- 405 32	N
12 065	92 19	1 70	9,015 07	2,984 58	883 85	2,980 07	1 54	Magn MS	Baker Hughes	-1 23	3,112 70	0 93	N
12 154	90 37	2 08	9,013 09	3,073 51	886 78	3,068 98	2 09	Magn MS	Baker Hughes	-2 04	3 198 88	0 43	N
12 242	89 69	2 19	9,013 04	3 161 45	890 06	3,156 90	0 78	Magn MS	Baker Hughes	-0 77	3,284 35	0 13	N
12 331	89 72	1 94	9,013 50	3,250 39	893 27	3,245 83	0 28	Magn MS	Baker Hughes	0 03	3,370 90	-0 28	N
12 419	87 62	3 29	9,015 54	3,338 27	897 28	3,333 68	2 84	Magn MS	Baker Hughes	-2 39	3,456 75	1 53	N
12 508	85 14	4 14	9,021 16	3,426 89	903 04	3,422 28	2 95	Magn MS	Baker Hughes	-2 79	3,543 88	0 96	N
12 596	85 68	3 70	9,028 20	3,514 41	909 03	3,509 76	0 79	Magn MS	Baker Hughes	0 61	3,630 07	-0 50	N
12 685	84 95	2 52	9,035 47	3,602 98	913 84	3,598 30	1 56	Magn MS	Baker Hughes	-0 82	3,717 06	-1 33	N
12 773	85 59	1 45	9,042 73	3,690 62	916 88	3,685 93	1 41	Magn MS	Baker Hughes	0 73	3,802 81	-1 22	N
12 862	87 97	2 84	9,047 73	3,779 41	920 21	3,774 70	3 10	Magn MS	Baker Hughes	2 67	3,889 82	1 56	N
12 951	86 89	4 34	9,051 72	3,868 14	925 78	3,863 41	2 08	Magn MS	Baker Hughes	-1 21	3,977 38	1 69	N
13 039	86 28	3 80	9,056 98	3,955 76	932 01	3,951 00	0 93	Magn MS	Baker Hughes	-0 69	4,064 08	-0 61	N
13 128	86 95	3 23	9,062 21	4,044 44	937 46	4,039 64	0 99	Magn MS	Baker Hughes	0 75	4,151 67	-0 64	N
13,216	85 00	1 87	9,068 39	4,132 13	941 36	4,127 31	2 70	Magn MS	Baker Hughes	-2 22	4,236 00	-1 55	N
13,305	85 11	1 73	9,076 06	4,220 76	944 15	4,215 92	0 20	Magn MS	Baker Hughes	0 12	4,325 07	-0 16	N
13 394	85 20	0 50	9,083 58	4,309 42	945 87	4,304 58	1 38	Magn MS	Baker Hughes	0 10	4,412 00	-1 38	N
13 482	86 36	359 32	9,090 06	4,397 18	945 74	4,392 33	1 88	Magn MS	Baker Hughes	1 32	4,497 73	407 75	N
13,571	82 46	355 65	9,098 73	4,485 64	941 86	4,480 81	6 00	Magn MS	Baker Hughes	-4 38	4,583 45	-4 12	N
13,659	90 77	355 09	9,103 92	4,573 12	934 77	4,568 33	9 46	Magn MS	Baker Hughes	9 44	4,667 68	-0 64	N
13,748	90 95	356 49	9,102 58	4,661 87	928 24	4,657 11	1 59	Magn MS	Baker Hughes	0 20	4,753 38	1 57	N
13,836	90 92	357 72	9,101 15	4,749 74	923 80	4,745 00	1 40	Magn MS	Baker Hughes	-0 03	4,836 74	1 40	N
13,925	90 92	357 37	9,099 72	4,838 65	919 98	4,833 93	0 39	Magn MS	Baker Hughes	0 00	4,925 33	-0 39	N
14,014	90 99	359 34	9,098 23	4,927 59	917 43	4,922 89	2 21	Magn MS	Baker Hughes	0 08	5,012 27	2 21	N



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			Water Depth (ft)

Survey Data

MD (RKB)	Incl (°)	Azm (°)	TVC (RKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Buid (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
14,102	91 11	359 54	9,096.62	5,015.58	916.57	5,010.87	0 27	Magn MS	Baker Hughes	0.14	5,098.64	0 23	N
14,192	91 02	359.73	9,094.95	5,105.56	916.00	5,100.86	0 23	Magn MS	Baker Hughes	-0.10	5,187.08	0 21	N
14,280	90 92	358 58	9,093.46	5,193.53	914.70	5,188.84	1 31	Magn MS	Baker Hughes	-0.11	5,273.47	-1 31	N
14,369	92 56	358 88	9,090.76	5,282.47	912.73	5,277.78	1 87	Magn MS	Baker Hughes	1.84	5,360.74	0 34	N
14,457	91 05	358 57	9,087.98	5,370.40	910.77	5,365.72	1 75	Magn MS	Baker Hughes	-1.72	5,447.08	-0 35	N
14,546	91 02	358 10	9,086.38	5,459.35	908.18	5,454.68	0 53	Magn MS	Baker Hughes	-0.03	5,534.37	-0 53	N
14,634	90 15	358 96	9,085.48	5,547.31	905.93	5,542.66	1 39	Magn MS	Baker Hughes	-0.99	5,620.80	0 98	N
14,723	89 91	3 65	9,085.43	5,636.26	907.95	5,631.60	5 28	Magn MS	Baker Hughes	-0.27	5,708.93	399 22	N
14,811	90 68	358 41	9,084.98	5,724.22	909.54	5,719.54	6 02	Magn MS	Baker Hughes	0.88	5,796.03	403 14	N
14,899	89 78	359 91	9,084.62	5,812.20	908.25	5,807.53	1 99	Magn MS	Baker Hughes	-1.02	5,882.74	1 70	N
14,988	90 03	0 65	9,084.77	5,901.20	908.68	5,896.53	0 88	Magn MS	Baker Hughes	0.28	5,970.75	403.66	N
15,076	90 09	2 30	9,084.68	5,989.17	910.95	5,984.48	1.88	Magn MS	Baker Hughes	0.07	6,058.05	1 88	N
15,165	89 41	2 49	9,085.07	6,078.09	914.66	6,073.38	0 79	Magn MS	Baker Hughes	-0.76	6,146.53	0 21	N
15,253	89 41	0 33	9,085.97	6,166.05	916.83	6,161.33	2 45	Magn MS	Baker Hughes	0.00	6,233.84	-2 45	N
15,342	89 38	359 51	9,086.91	6,255.05	916.71	6,250.33	0 92	Magn MS	Baker Hughes	-0.03	6,321.87	403 57	N
15,430	90 40	355 58	9,087.08	6,342.95	912.94	6,338.25	4 61	Magn MS	Baker Hughes	1.16	6,408.31	-4 47	N
15,519	89 57	355 59	9,087.11	6,431.68	906.09	6,427.02	0 93	Magn MS	Baker Hughes	-0.93	6,495.19	0 01	N
15,607	78 94	354 79	9,095.90	6,518.81	898.76	6,514.18	12 11	Magn MS	Baker Hughes	-12.08	6,580.47	-0 91	N
15,695	80 50	358 80	9,111.61	6,605.16	892.42	6,600.55	2.86	Magn MS	Baker Hughes	1.77	6,685.17	2 28	N
15,784	90 09	3 18	9,118.91	6,693.71	892.43	6,689.10	12 92	Magn MS	Baker Hughes	10.78	6,752.94	397 33	N
15,873	92 43	3 73	9,116.95	6,782.52	897.60	6,777.89	2 70	Magn MS	Baker Hughes	2.63	6,841.68	0 62	N
15,961	92 40	0 96	9,113.24	6,870.36	901.39	6,865.71	3 15	Magn MS	Baker Hughes	-0.03	6,929.24	-3 15	N
16,050	92 13	357 63	9,109.72	6,959.27	900.30	6,954.62	3.75	Magn MS	Baker Hughes	-0.30	7,017.26	400 75	N
16,138	92 59	356 10	9,106.10	7,047.06	895.49	7,042.44	1 81	Magn MS	Baker Hughes	0.52	7,103.73	-1 74	N
16,226	92 65	358 58	9,102.08	7,134.86	891.41	7,130.26	2 82	Magn MS	Baker Hughes	0.07	7,190.33	2 82	N
16,315	92 68	358 93	9,097.94	7,223.75	889.48	7,219.15	0 39	Magn MS	Baker Hughes	0.03	7,278.30	0 39	N
16,403	92 25	358 80	9,094.15	7,311.65	887.74	7,307.06	0 51	Magn MS	Baker Hughes	-0.49	7,365.34	-0 15	N
16,492	92 46	359 43	9,090.50	7,400.56	886.36	7,395.98	0 75	Magn MS	Baker Hughes	0.24	7,453.45	0 71	N
16,580	91 69	358 65	9,087.31	7,488.49	884.69	7,483.92	1 25	Magn MS	Baker Hughes	-0.87	7,540.59	-0 89	N
16,668	90 12	356 63	9,085.92	7,576.40	881.27	7,571.84	2 91	Magn MS	Baker Hughes	1.78	7,627.48	-2 30	N



Directional Survey

Well Name SALADO DRAW WE 24 FED P23 004H	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)	Depth (ft)	Turn (°/100ft)	Unuse d data
16,758	90.00	357.07	9,085.83	7,666.26	876.32	7,661.73	0.51	Magn MS	Baker Hughes	-0.13	7,716.18	0.49	N
16,848	90.25	0.11	9,085.63	7,756.22	874.11	7,751.70	3.39	Magn MS	Baker Hughes	0.28	7,805.32	-396.62	N
16,936	90.15	1.98	9,085.32	7,844.20	875.71	7,839.67	2.13	Magn MS	Baker Hughes	-0.11	7,892.93	2.13	N
17,025	89.48	1.35	9,085.61	7,933.16	878.30	7,928.62	1.03	Magn MS	Baker Hughes	-0.75	7,981.64	-0.71	N
17,113	89.57	357.65	9,086.34	8,021.14	877.53	8,016.60	4.21	Magn MS	Baker Hughes	0.10	8,069.00	404.89	N
17,202	89.57	355.53	9,087.01	8,109.98	872.24	8,105.46	2.38	Magn MS	Baker Hughes	0.00	8,156.75	-2.38	N
17,290	89.91	358.22	9,087.41	8,197.84	867.44	8,193.34	3.08	Magn MS	Baker Hughes	0.39	8,243.60	3.06	N
17,379	89.63	3.19	9,087.76	8,286.80	868.53	8,282.30	5.59	Magn MS	Baker Hughes	-0.31	8,332.19	-398.91	N
17,468	89.97	4.93	9,088.08	8,375.58	874.84	8,371.04	1.99	Magn MS	Baker Hughes	0.38	8,421.14	1.96	N
17,556	89.82	4.55	9,088.24	8,463.27	882.11	8,458.70	0.46	Magn MS	Baker Hughes	-0.17	8,509.12	-0.43	N
17,645	89.78	0.82	9,088.55	8,552.16	888.28	8,547.56	4.19	Magn MS	Baker Hughes	-0.04	8,597.96	-4.19	N
17,733	89.66	357.91	9,088.98	8,640.14	885.30	8,635.55	3.31	Magn MS	Baker Hughes	-0.14	8,685.38	405.78	N
17,822	90.55	359.04	9,088.81	8,729.11	882.93	8,724.53	1.62	Magn MS	Baker Hughes	1.00	8,773.65	1.27	N
17,910	90.46	359.67	9,088.04	8,817.10	881.94	8,812.52	0.72	Magn MS	Baker Hughes	-0.10	8,861.10	0.72	N
17,999	89.65	1.45	9,087.80	8,906.09	882.81	8,901.51	2.11	Magn MS	Baker Hughes	-0.69	8,949.74	-402.49	N
18,087	90.74	2.74	9,087.34	8,994.03	886.03	8,989.43	1.78	Magn MS	Baker Hughes	1.01	9,037.57	1.47	N
18,176	90.34	359.48	9,086.51	9,083.00	887.75	9,078.39	3.69	Magn MS	Baker Hughes	-0.45	9,126.28	400.83	N
18,265	89.60	0.21	9,086.55	9,171.99	887.51	9,167.39	1.17	Magn MS	Baker Hughes	-0.83	9,214.83	-403.67	N
18,353	90.65	359.65	9,086.36	9,259.99	887.56	9,255.38	1.26	Magn MS	Baker Hughes	1.19	9,302.43	406.68	N
18,442	90.49	359.93	9,085.48	9,348.99	887.39	9,344.38	0.20	Magn MS	Baker Hughes	-0.18	9,391.01	0.09	N
18,530	89.41	356.35	9,085.55	9,436.93	884.53	9,432.33	4.25	Magn MS	Baker Hughes	-1.23	9,478.29	-4.07	N
18,619	89.60	358.61	9,086.32	9,525.83	880.62	9,521.25	2.55	Magn MS	Baker Hughes	0.21	9,566.45	2.54	N
18,709	89.60	358.61	9,086.95	9,615.80	878.44	9,611.23	0.00	Extrap	Baker Hughes	0.00	9,655.84	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)
3002543298	SD WE 24 P23 004H	12/21/2016	1	18,357.00	18,543.00	9,121.00	85.12	6,049.00
3002543298		12/21/2016	2	18,157.00	18,319.00	6,144.00	84.75	6,694.00
3002543298		12/22/2016	3	17,957.00	18,119.00	5,813.00	84.7	7,215.00
3002543298		12/22/2016	4	17,757.00	17,919.00	6,017.00	84.3	6,662.00
3002543298		12/23/2016	5	17,557.00	17,719.00	6,662.00	84.61	6,911.00
3002543298		12/23/2016	6	17,357.00	17,519.00	6,517.00	84.85	6,941.00
3002543298		12/24/2016	7	17,157.00	17,319.00	5,469.00	83.58	6,987.00
3002543298		12/24/2016	8	16,957.00	17,119.00	7,073.00	84.35	6,664.00
3002543298		12/25/2016	9	16,757.00	16,919.00	5,639.00	86.2	6,977.00
3002543298		12/26/2016	10	16,557.00	16,719.00	6,994.00	82.39	6,807.00
3002543298		12/26/2016	11	16,357.00	16,519.00	5,881.00	82.03	7,141.00
3002543298		12/27/2016	12	16,157.00	16,319.00	8,411.00	79.53	7,020.00
3002543298		12/27/2016	13	15,957.00	16,119.00	37.4	83.78	6,204.00
3002543298		12/28/2016	14	15,757.00	15,919.00	5,697.00	84.4	6,812.00
3002543298		12/29/2016	15	15,557.00	15,719.00	6,460.00	84.44	6,707.00
3002543298		12/29/2016	16	15,357.00	15,519.00	6,198.00	85.4	6,921.00
3002543298		12/30/2016	17	15,157.00	15,319.00	5,981.00	85.37	6,795.00
3002543298		12/30/2016	18	14,957.00	15,119.00	5,534.00	85.3	6,708.00
3002543298		12/31/2016	19	14,757.00	14,919.00	5,979.00	84.7	6,777.00
3002543298		1/1/2017	20	14,557.00	14,719.00	6,461.00	85.9	6,900.00
3002543298		1/1/2017	21	14,357.00	14,519.00	6,994.00	78.43	6,498.00
3002543298		1/2/2017	22	14,157.00	14,319.00	5,434.00	84.31	6,808.00
3002543298		1/3/2017	23	13,957.00	14,119.00	5,357.00	87.2	6,869.00
3002543298		1/3/2017	24	13,757.00	13,919.00	5,731.00	81.21	6,335.00
3002543298		1/4/2017	25	13,557.00	13,719.00	5,599.00	85.1	6,648.00
3002543298		1/4/2017	26	13,357.00	13,519.00	5,378.00	80.23	5,924.00
3002543298		1/5/2017	27	13,157.00	13,319.00	5,732.00	80.52	5,988.00
3002543298		1/5/2017	28	12,957.00	13,119.00	5,575.00	85.4	7,020.00
3002543298		1/6/2017	29	12,757.00	12,919.00	4,683.00	84.9	6,724.00
3002543298		1/7/2017	30	12,557.00	12,719.00	5,791.00	84.2	7,017.00
3002543298		1/8/2017	31	12,357.00	12,519.00	6,668.00	84.4	6,986.00
3002543298		1/8/2017	32	12,157.00	12,319.00	5,571.00	89.84	6,295.00

3002543298	1/9/2017	33	11,957.00	12,119.00	5,715.00	84.3	6,445.00
3002543298	1/9/2017	34	11,757.00	11,919.00	5,074.00	85.47	6,328.00
3002543298	1/10/2017	35	11,557.00	11,719.00	5,441.00	85.2	6,382.00
3002543298	1/10/2017	36	11,357.00	11,519.00	4,849.00	85.25	6,131.00
3002543298	1/11/2017	37	11,157.00	11,319.00	4,429.00	85.9	6,066.00
3002543298	1/11/2017	38	10,957.00	11,119.00	5,028.00	85.28	6,111.00
3002543298	1/12/2017	39	10,757.00	10,919.00	6,048.00	88	6,689.00
3002543298	1/12/2017	40	10,557.00	10,719.00	4,831.00	85.2	5,940.00
3002543298	1/13/2017	41	10,357.00	10,519.00	5,685.00	85.47	5,891.00
3002543298	1/14/2017	42	10,157.00	10,319.00	6,819.00	89.5	6,300.00
3002543298	1/14/2017	43	9,957.00	10,119.00	5,717.00	85.19	6,077.00
3002543298	1/15/2017	44	9,757.00	9,919.00	5,350.00	89.59	5,701.00
3002543298	1/15/2017	45	9,557.00	9,719.00	5,406.00	89.6	6,360.00
3002543298	1/16/2017	46	9,357.00	9,519.00	5,486.00	89.09	6,352.00

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)
86.9	9,122.00	1,751.00	7,883.38	8,185.42	279,980.00
85.56	8,522.00	2,131.00	7,720.21	8,022.83	280,559.00
86.76	9,031.00	2,120.00	7,782.00	8,083.51	279,509.00
85.66	7,944.00	2,121.00	7,784.81	8,087.46	280,606.00
85.83	8,440.00	2,361.00	7,735.76	8,038.82	280,941.00
85.8	8,962.00	2,397.00	7,673.14	7,975.72	280,507.00
85.83	8,881.00	2,841.00	7,697.98	7,998.54	278,609.00
85.67	9,131.00	2,373.00	7,695.05	7,997.33	280,197.00
91.48	8,916.00	2,757.00	7,736.17	8,041.70	283,246.00
85.15	8,210.00	2,326.00	7,651.88	7,954.51	280,543.00
84.95	8,988.00	2,360.00	8,052.02	8,354.33	280,237.00
87.68	8,930.00	2,765.00	7,956.05	8,258.51	280,493.00
86.9	8,569.00	2,669.00	7,827.64	8,129.93	280,211.00
85	8,037.00	2,553.00	7,707.93	8,009.31	279,379.00
85.44	8,116.00	2,679.00	7,631.93	7,936.17	282,094.00
85.9	8,373.00	2,473.00	7,692.52	7,995.21	280,627.00
85.79	8,228.00	2,654.00	7,678.24	7,984.13	283,578.00
85.9	7,884.00	2,460.00	7,619.19	7,921.21	279,981.00
85.4	8,243.00	2,583.00	7,713.21	8,014.74	279,535.00
86.5	8,330.00	2,614.00	7,710.33	8,012.74	280,401.00
80.79	8,583.00	2,611.00	7,599.40	7,902.87	281,377.00
85.65	8,649.00	2,677.00	7,662.31	7,967.17	282,686.00
89.1	8,048.00	2,321.00	7,574.90	7,876.49	279,659.00
85.29	8,477.00	2,782.00	7,649.38	7,954.08	282,477.00
86	8,613.00	2,335.00	7,543.07	7,846.58	281,340.00
80.6	8,733.00	2,549.00	7,542.60	7,847.07	282,260.00
84.66	8,960.00	2,469.00	7,728.38	8,032.41	281,820.00
86	8,929.00	2,446.00	7,639.36	7,942.38	280,909.00
85.9	8,272.00	2,524.00	7,527.60	7,830.45	280,742.00
85.5	8,199.00	2,696.00	7,523.55	7,825.82	280,215.00
85.6	8,722.00	2,498.00	7,452.17	7,754.79	280,507.00
90.78	8,297.00	2,400.00	7,645.14	7,951.50	283,987.00