



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)

Wellbore Name Original Hole		Parent Wellbore Original Hole		Min Kick Off Depth (ftKB) 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 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	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	0.99	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	158.41	-40.95	0.46	Magn MS	Baker Hughes	0.20	183.42	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	-49.16	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	3,438.91	-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	0.98	513.86	-12.51	N
4,357	14.38	99.96	4,307.00	-118.48	543.01	-121.23	0.75	Magn MS	Baker Hughes	0.75	556.78	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	691.47	-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	-0.66	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
6,832	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 (ft)	Incl (°)	Azm (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
7,541	1.97	87.06	7,458.20	-172.86	971.21	-177.78	0.19	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	988.68	-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	959.26	-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	969.86	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
												398.70	
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	-	N
												397.72	
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	-5.08	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	2,182.16	921.41	2,177.47	0.88	Magn MS	Baker Hughes	-0.14	2,368.72	0.87	N
11,352	90.43	358.56	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 (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
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	-	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	4,238.00	-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	-0.18	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	4,838.74	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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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	356.80	9,111.61	6,605.16	892.42	6,600.55	2.86	Magn MS	Baker Hughes	1.77	6,665.17	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	897.80	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	884.89	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 (ft)	Incl (°)	Azm (°)	TVD (ft)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (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	886.28	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	89.85	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	359.85	9,086.36	9,259.99	887.56	9,255.38	1.26	Magn MS	Baker Hughes	1.19	9,302.43	408.68	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