



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 (°) 359.71
Northing (Y) (ft)	Easting (X) (ft)	UTM Grid Zone	
Date 9/2/2016	Definitive? N	Description MWD	Planned? N
MD Tie In (RKB)	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
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	-3.96	-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	1.28	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	1,608.68	-37.95	61.84	-38.27	0.13	Magn MS	Baker Hughes	0.13	72.56	0.16	N
1,789	8.44	106.66	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	-67.38	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	-1.87	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	-34.86	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	0.64	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	8.88	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	-162.59	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	-7.98	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 (ftKB)	Inc (°)	Azm (°)	TVD (ftKB)	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	-186.86	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	0.26	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	-172.46	325.89	-174.11	14.44	Magn MS	Baker Hughes	14.30	368.71	-14.11	N
8,656	16.68	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	387.17	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	9,026.18	464.96	348.23	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	9,029.36	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	-	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	333.83	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 (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
11,145	89.32	359.83	9,029.51	2,147.39	330.78	2,145.68	1.76	Magn MS	Baker Hughes	-1.75	2,172.71	0.20	N
11,234	88.89	359.68	9,030.90	2,236.37	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	393.77	N
11,506	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	5.26	Magn MS	Baker Hughes	-5.20	2,621.39	-0.84	N
11,688	86.46	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	358.96	9,042.24	2,871.94	332.50	2,870.22	3.57	Magn MS	Baker Hughes	3.56	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	9,036.28	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	3,143.96	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	405.33	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	3,674.66	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	3,955.18	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	2.38	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	4,483.06	403.71	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	9,036.12	4,649.04	314.55	4,647.39	4.46	Magn MS	Baker Hughes	-4.44	4,659.67	0.43	N
13,738	85.96	359.82	9,041.63	4,737.86	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													
MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Buid (°/100ft)	Depart (ft)	Turn (°/100ft)	Unuse d data
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	-	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	0.38	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	9,070.64	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) 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
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	7,656.92	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	-	N
16,838	90 55	359 46	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	8,011.86	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	8,372.36	-	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 18	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	9,067.56	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	-	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 46	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
18,698	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 06	9,062.01	9,783.32	284 56	9,781.76	0 89	Magn MS	Baker Hughes	0 39	9,787.46	-	N
18,875	89 42	359 97	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

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Survey Data													
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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