



Directional Survey

HOBBS OGD

DEC 05 2016

Well Name SALADO DRAW WE 14 FED P5 001H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016	Mud Line Elevation (ft) Water Depth (ft)

Wellbore Name Original Hole	Parent Wellbore Original Hole	Min Kick Off Depth (ftKB) 8,480.0	Vertical Section Direction (°) 359.84
Northing (Y) (ft)	Easting (X) (ft)	UTM Grid Zone	

Date 9/6/2016	Definitive? N	Description Dir Plan	Planned? Y
MD Tie In (ftKB) 0.00	TVD Tie In (ftKB) 0.00	Inclination Tie In (°) 0.00	Azimuth Tie In (°) 0.00
		NSTie In (ft) 0.00	EW Tie In (ft) 0.00

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	284.59	0.00	0.00	0.00	0.00	0.00	Magn MWD	Baker Hughes	0.00	0.00	0.00	N
32.6	0.00	284.59	32.60	0.00	0.00	0.00	0.00	Magn MWD	Baker Hughes	0.00	0.00	872.98	N
132.6	0.00	284.59	132.60	0.00	0.00	0.00	0.00	Magn MWD	Baker Hughes	0.00	0.00	0.00	N
232.6	0.00	284.59	232.60	0.00	0.00	0.00	0.00	Magn MWD	Baker Hughes	0.00	0.00	0.00	N
332.6	0.00	284.59	332.60	0.00	0.00	0.00	0.00	Magn MWD	Baker Hughes	0.00	0.00	0.00	N
432.6	0.00	284.59	432.60	0.00	0.00	0.00	0.00	Magn MWD	Baker Hughes	0.00	0.00	0.00	N
532.6	0.00	284.59	532.60	0.00	0.00	0.00	0.00	Magn MWD	Baker Hughes	0.00	0.00	0.00	N
632.6	0.00	284.59	632.60	0.00	0.00	0.00	0.00	Magn MWD	Baker Hughes	0.00	0.00	0.00	N
732.6	0.00	284.59	732.60	0.00	0.00	0.00	0.00	Magn MWD	Baker Hughes	0.00	0.00	0.00	N
832.6	0.00	284.59	832.60	0.00	0.00	0.00	0.00	Magn MWD	Baker Hughes	0.00	0.00	0.00	N
932.6	0.00	284.59	932.60	0.00	0.00	0.00	0.00	Magn MWD	Baker Hughes	0.00	0.00	0.00	N
1,000	0.00	284.59	1,000.00	0.00	0.00	0.00	0.00	Magn MWD	Baker Hughes	0.00	0.00	0.00	N
1,032.6	0.33	284.59	1,032.60	0.02	-0.09	0.02	1.00	Magn MWD	Baker Hughes	1.00	0.09	0.00	N
1,132.6	1.33	284.59	1,132.59	0.39	-1.48	0.39	1.00	Magn MWD	Baker Hughes	1.00	1.53	0.00	N
1,232.6	2.33	284.59	1,232.54	1.19	-4.57	1.20	1.00	Magn MWD	Baker Hughes	1.00	4.72	0.00	N
1,332.6	3.33	284.59	1,332.41	2.43	-9.34	2.46	1.00	Magn MWD	Baker Hughes	1.00	9.65	0.00	N
1,432.6	4.33	284.59	1,432.19	4.11	-15.80	4.16	1.00	Magn MWD	Baker Hughes	1.00	16.32	0.00	N
1,532.6	5.33	284.59	1,531.83	6.23	-23.94	6.30	1.00	Magn MWD	Baker Hughes	1.00	24.74	0.00	N
1,600	6.00	284.59	1,598.90	7.91	-30.37	7.99	1.00	Magn MWD	Baker Hughes	1.00	31.39	0.00	N
1,632.6	6.00	284.59	1,631.33	8.77	-33.67	8.86	0.00	Magn MWD	Baker Hughes	0.00	34.79	0.00	N
1,732.6	6.00	284.59	1,730.78	11.40	-43.79	11.52	0.00	Magn MWD	Baker Hughes	0.00	45.25	0.00	N
1,832.6	6.00	284.59	1,830.23	14.03	-53.90	14.18	0.00	Magn MWD	Baker Hughes	0.00	55.70	0.00	N
1,932.6	6.00	284.59	1,929.68	16.67	-64.02	16.85	0.00	Magn MWD	Baker Hughes	0.00	66.15	0.00	N
2,032.6	6.00	284.59	2,029.13	19.30	-74.14	19.51	0.00	Magn MWD	Baker Hughes	0.00	76.61	0.00	N
2,132.6	6.00	284.59	2,128.59	21.93	-84.25	22.17	0.00	Magn MWD	Baker Hughes	0.00	87.06	0.00	N
2,232.6	6.00	284.59	2,228.04	24.57	-94.37	24.83	0.00	Magn MWD	Baker Hughes	0.00	97.51	0.00	N
2,332.6	6.00	284.59	2,327.49	27.20	-104.48	27.49	0.00	Magn MWD	Baker Hughes	0.00	107.96	0.00	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
2,432.6	6.00	284.59	2,426.94	29.83	-114.60	30.15	0.00	Magn MWD	Baker Hughes	0.00	118.42	0.00	N
2,532.6	6.00	284.59	2,526.40	32.47	-124.71	32.82	0.00	Magn MWD	Baker Hughes	0.00	128.87	0.00	N
2,632.6	6.00	284.59	2,625.85	35.10	-134.83	35.48	0.00	Magn MWD	Baker Hughes	0.00	139.32	0.00	N
2,732.6	6.00	284.59	2,725.30	37.73	-144.95	38.14	0.00	Magn MWD	Baker Hughes	0.00	149.78	0.00	N
2,832.6	6.00	284.59	2,824.75	40.37	-155.06	40.80	0.00	Magn MWD	Baker Hughes	0.00	160.23	0.00	N
2,932.6	6.00	284.59	2,924.20	43.00	-165.18	43.46	0.00	Magn MWD	Baker Hughes	0.00	170.68	0.00	N
3,032.6	6.00	284.59	3,023.66	45.63	-175.29	46.12	0.00	Magn MWD	Baker Hughes	0.00	181.13	0.00	N
3,132.6	6.00	284.59	3,123.11	48.27	-185.41	48.79	0.00	Magn MWD	Baker Hughes	0.00	191.59	0.00	N
3,232.6	6.00	284.59	3,222.56	50.90	-195.52	51.45	0.00	Magn MWD	Baker Hughes	0.00	202.04	0.00	N
3,332.6	6.00	284.59	3,322.01	53.53	-205.64	54.11	0.00	Magn MWD	Baker Hughes	0.00	212.49	0.00	N
3,432.6	6.00	284.59	3,421.46	56.17	-215.75	56.77	0.00	Magn MWD	Baker Hughes	0.00	222.95	0.00	N
3,532.6	6.00	284.59	3,520.92	58.80	-225.87	59.43	0.00	Magn MWD	Baker Hughes	0.00	233.40	0.00	N
3,632.6	6.00	284.59	3,620.37	61.43	-235.99	62.09	0.00	Magn MWD	Baker Hughes	0.00	243.85	0.00	N
3,732.6	6.00	284.59	3,719.82	64.07	-246.10	64.76	0.00	Magn MWD	Baker Hughes	0.00	254.30	0.00	N
3,832.6	6.00	284.59	3,819.27	66.70	-256.22	67.42	0.00	Magn MWD	Baker Hughes	0.00	264.76	0.00	N
3,894.26	6.00	284.59	3,880.60	68.33	-262.45	69.06	0.00	Magn MWD	Baker Hughes	0.00	271.20	0.00	N
3,932.6	5.62	284.59	3,918.74	69.30	-266.21	70.05	1.00	Magn MWD	Baker Hughes	-1.00	275.08	0.00	N
4,032.6	4.62	284.59	4,018.34	71.55	-274.84	72.32	1.00	Magn MWD	Baker Hughes	-1.00	284.00	0.00	N
4,132.6	3.62	284.59	4,118.08	73.36	-281.79	74.15	1.00	Magn MWD	Baker Hughes	-1.00	291.18	0.00	N
4,232.6	2.62	284.59	4,217.93	74.73	-287.05	75.53	1.00	Magn MWD	Baker Hughes	-1.00	296.62	0.00	N
4,332.6	1.62	284.59	4,317.86	75.66	-290.63	76.47	1.00	Magn MWD	Baker Hughes	-1.00	300.31	0.00	N
4,432.6	0.62	284.59	4,417.84	76.15	-292.51	76.97	1.00	Magn MWD	Baker Hughes	-1.00	302.26	0.00	N
4,494.26	0.00	359.84	4,479.50	76.23	-292.83	77.05	1.00	Magn MWD	Baker Hughes	-1.00	302.59	122.04	N
4,532.6	0.00	359.84	4,517.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
4,632.6	0.00	359.84	4,617.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
4,732.6	0.00	359.84	4,717.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
4,832.6	0.00	359.84	4,817.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
4,932.6	0.00	359.84	4,917.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
5,032.6	0.00	359.84	5,017.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
5,132.6	0.00	359.84	5,117.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	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
5,232.6	0.00	359.84	5,217.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
5,332.6	0.00	359.84	5,317.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
5,432.6	0.00	359.84	5,417.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
5,532.6	0.00	359.84	5,517.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
5,632.6	0.00	359.84	5,617.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
5,732.6	0.00	359.84	5,717.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
5,832.6	0.00	359.84	5,817.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
5,932.6	0.00	359.84	5,917.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
6,032.6	0.00	359.84	6,017.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
6,132.6	0.00	359.84	6,117.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
6,232.6	0.00	359.84	6,217.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
6,332.6	0.00	359.84	6,317.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
6,432.6	0.00	359.84	6,417.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
6,532.6	0.00	359.84	6,517.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
6,632.6	0.00	359.84	6,617.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
6,732.6	0.00	359.84	6,717.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
6,832.6	0.00	359.84	6,817.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
6,932.6	0.00	359.84	6,917.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
7,032.6	0.00	359.84	7,017.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
7,132.6	0.00	359.84	7,117.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
7,232.6	0.00	359.84	7,217.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
7,332.6	0.00	359.84	7,317.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
7,432.6	0.00	359.84	7,417.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
7,532.6	0.00	359.84	7,517.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
7,632.6	0.00	359.84	7,617.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
7,732.6	0.00	359.84	7,717.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
7,832.6	0.00	359.84	7,817.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
7,932.6	0.00	359.84	7,917.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
8,032.6	0.00	359.84	8,017.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
8,132.6	0.00	359.84	8,117.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	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
8,232.6	0.00	359.84	8,217.84	-76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
8,332.6	0.00	359.84	8,317.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
8,432.6	0.00	359.84	8,417.84	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
8,512.83	0.00	359.84	8,498.07	76.23	-292.83	77.05	0.00	Magn MWD	Baker Hughes	0.00	302.59	0.00	N
8,532.6	2.37	359.84	8,517.83	76.64	-292.83	77.46	12.00	Magn MWD	Baker Hughes	12.00	302.70	0.00	N
8,632.6	14.37	359.84	8,616.59	91.18	-292.88	91.99	12.00	Magn MWD	Baker Hughes	12.00	306.74	0.00	N
8,732.6	26.37	359.84	8,710.16	125.92	-292.97	126.74	12.00	Magn MWD	Baker Hughes	12.00	318.89	0.00	N
8,832.6	38.37	359.84	8,794.47	179.37	-293.12	180.19	12.00	Magn MWD	Baker Hughes	12.00	343.65	0.00	N
8,932.6	50.37	359.84	8,865.82	249.17	-293.32	249.99	12.00	Magn MWD	Baker Hughes	12.00	384.86	0.00	N
9,032.6	62.37	359.84	8,921.10	332.28	-293.55	333.10	12.00	Magn MWD	Baker Hughes	12.00	443.38	0.00	N
9,132.6	74.37	359.84	8,957.89	425.07	-293.81	425.89	12.00	Magn MWD	Baker Hughes	12.00	516.73	0.00	N
9,232.6	86.37	359.84	8,974.58	523.48	-294.08	524.30	12.00	Magn MWD	Baker Hughes	12.00	600.43	0.00	N
9,249.08	88.35	359.84	8,975.34	539.95	-294.13	540.76	12.00	Magn MWD	Baker Hughes	12.00	614.86	0.00	N
9,332.6	88.35	359.84	8,977.74	623.43	-294.36	624.25	0.00	Magn MWD	Baker Hughes	0.00	689.43	0.00	N
9,432.6	88.35	359.84	8,980.62	723.39	-294.64	724.21	0.00	Magn MWD	Baker Hughes	0.00	781.09	0.00	N
9,532.6	88.35	359.84	8,983.50	823.35	-294.92	824.17	0.00	Magn MWD	Baker Hughes	0.00	874.57	0.00	N
9,632.6	88.35	359.84	8,986.38	923.30	-295.20	924.13	0.00	Magn MWD	Baker Hughes	0.00	969.35	0.00	N
9,732.6	88.35	359.84	8,989.26	1,023.26	-295.48	1,024.08	0.00	Magn MWD	Baker Hughes	0.00	1,065.07	0.00	N
9,832.6	88.35	359.84	8,992.14	1,123.22	-295.76	1,124.04	0.00	Magn MWD	Baker Hughes	0.00	1,161.51	0.00	N
9,932.6	88.35	359.84	8,995.02	1,223.18	-296.04	1,224.00	0.00	Magn MWD	Baker Hughes	0.00	1,258.49	0.00	N
10,032.6	88.35	359.84	8,997.90	1,323.14	-296.32	1,323.96	0.00	Magn MWD	Baker Hughes	0.00	1,355.91	0.00	N
10,132.6	88.35	359.84	9,000.78	1,423.10	-296.59	1,423.92	0.00	Magn MWD	Baker Hughes	0.00	1,453.67	0.00	N
10,232.6	88.35	359.84	9,003.66	1,523.05	-296.87	1,523.88	0.00	Magn MWD	Baker Hughes	0.00	1,551.72	0.00	N
10,332.6	88.35	359.84	9,006.54	1,623.01	-297.15	1,623.84	0.00	Magn MWD	Baker Hughes	0.00	1,649.99	0.00	N
10,432.6	88.35	359.84	9,009.42	1,722.97	-297.43	1,723.79	0.00	Magn MWD	Baker Hughes	0.00	1,748.45	0.00	N
10,459.08	88.35	359.84	9,010.18	1,749.44	-297.51	1,750.26	0.00	Magn MWD	Baker Hughes	0.00	1,774.56	0.00	N
10,532.6	89.82	359.84	9,011.35	1,822.95	-297.71	1,823.77	2.00	Magn MWD	Baker Hughes	2.00	1,847.10	0.00	N
10,573.08	90.63	359.84	9,011.20	1,863.43	-297.82	1,864.25	2.00	Magn MWD	Baker Hughes	2.00	1,887.08	0.00	N
10,632.6	90.63	359.84	9,010.54	1,922.94	-297.99	1,923.77	0.00	Magn MWD	Baker Hughes	0.00	1,945.89	0.00	N
10,732.6	90.63	359.84	9,009.44	2,022.94	-298.27	2,023.76	0.00	Magn MWD	Baker Hughes	0.00	2,044.81	0.00	N



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Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016		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
10,832.6	90.63	359.84	9,008.34	2,122.93	-298.55	2,123.76	0.00	Magn MWD	Baker Hughes	0.00	2,143. 82	0.00	N
10,932.6	90.63	359.84	9,007.24	2,222.92	-298.83	2,223.75	0.00	Magn MWD	Baker Hughes	0.00	2,242. 92	0.00	N
11,032.6	90.63	359.84	9,006.14	2,322.92	-299.11	2,323.74	0.00	Magn MWD	Baker Hughes	0.00	2,342. 09	0.00	N
11,132.6	90.63	359.84	9,005.04	2,422.91	-299.39	2,423.74	0.00	Magn MWD	Baker Hughes	0.00	2,441. 34	0.00	N
11,232.6	90.63	359.84	9,003.94	2,522.90	-299.67	2,523.73	0.00	Magn MWD	Baker Hughes	0.00	2,540. 64	0.00	N
11,332.6	90.63	359.84	9,002.84	2,622.90	-299.95	2,623.72	0.00	Magn MWD	Baker Hughes	0.00	2,639. 99	0.00	N
11,432.6	90.63	359.84	9,001.74	2,722.89	-300.22	2,723.72	0.00	Magn MWD	Baker Hughes	0.00	2,739. 39	0.00	N
11,532.6	90.63	359.84	9,000.65	2,822.88	-300.50	2,823.71	0.00	Magn MWD	Baker Hughes	0.00	2,838. 83	0.00	N
11,632.6	90.63	359.84	8,999.55	2,922.88	-300.78	2,923.71	0.00	Magn MWD	Baker Hughes	0.00	2,938. 31	0.00	N
11,732.6	90.63	359.84	8,998.45	3,022.87	-301.06	3,023.70	0.00	Magn MWD	Baker Hughes	0.00	3,037. 83	0.00	N
11,832.6	90.63	359.84	8,997.35	3,122.87	-301.34	3,123.69	0.00	Magn MWD	Baker Hughes	0.00	3,137. 37	0.00	N
11,932.6	90.63	359.84	8,996.25	3,222.86	-301.62	3,223.69	0.00	Magn MWD	Baker Hughes	0.00	3,236. 94	0.00	N
12,032.6	90.63	359.84	8,995.15	3,322.85	-301.90	3,323.68	0.00	Magn MWD	Baker Hughes	0.00	3,336. 54	0.00	N
12,132.6	90.63	359.84	8,994.05	3,422.85	-302.18	3,423.68	0.00	Magn MWD	Baker Hughes	0.00	3,436. 16	0.00	N
12,232.6	90.63	359.84	8,992.95	3,522.84	-302.46	3,523.67	0.00	Magn MWD	Baker Hughes	0.00	3,535. 80	0.00	N
12,332.6	90.63	359.84	8,991.85	3,622.83	-302.74	3,623.66	0.00	Magn MWD	Baker Hughes	0.00	3,635. 46	0.00	N
12,432.6	90.63	359.84	8,990.75	3,722.83	-303.02	3,723.66	0.00	Magn MWD	Baker Hughes	0.00	3,735. 14	0.00	N
12,532.6	90.63	359.84	8,989.65	3,822.82	-303.30	3,823.65	0.00	Magn MWD	Baker Hughes	0.00	3,834. 83	0.00	N
12,632.6	90.63	359.84	8,988.55	3,922.81	-303.58	3,923.65	0.00	Magn MWD	Baker Hughes	0.00	3,934. 54	0.00	N
12,732.6	90.63	359.84	8,987.45	4,022.81	-303.85	4,023.64	0.00	Magn MWD	Baker Hughes	0.00	4,034. 27	0.00	N
12,832.6	90.63	359.84	8,986.35	4,122.80	-304.13	4,123.63	0.00	Magn MWD	Baker Hughes	0.00	4,134. 00	0.00	N
12,932.6	90.63	359.84	8,985.25	4,222.79	-304.41	4,223.63	0.00	Magn MWD	Baker Hughes	0.00	4,233. 75	0.00	N
13,032.6	90.63	359.84	8,984.15	4,322.79	-304.69	4,323.62	0.00	Magn MWD	Baker Hughes	0.00	4,333. 51	0.00	N
13,132.6	90.63	359.84	8,983.05	4,422.78	-304.97	4,423.62	0.00	Magn MWD	Baker Hughes	0.00	4,433. 28	0.00	N
13,232.6	90.63	359.84	8,981.95	4,522.78	-305.25	4,523.61	0.00	Magn MWD	Baker Hughes	0.00	4,533. 06	0.00	N
13,332.6	90.63	359.84	8,980.85	4,622.77	-305.53	4,623.60	0.00	Magn MWD	Baker Hughes	0.00	4,632. 85	0.00	N
13,432.6	90.63	359.84	8,979.75	4,722.76	-305.81	4,723.60	0.00	Magn MWD	Baker Hughes	0.00	4,732. 65	0.00	N
13,532.6	90.63	359.84	8,978.65	4,822.76	-306.09	4,823.59	0.00	Magn MWD	Baker Hughes	0.00	4,832. 46	0.00	N
13,632.6	90.63	359.84	8,977.55	4,922.75	-306.37	4,923.59	0.00	Magn MWD	Baker Hughes	0.00	4,932. 27	0.00	N
13,732.6	90.63	359.84	8,976.46	5,022.74	-306.65	5,023.58	0.00	Magn MWD	Baker Hughes	0.00	5,032. 10	0.00	N



Directional Survey

Well Name SALADO DRAW WE 14 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016		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
13,832.6	90.63	359.84	8,975.36	5,122.74	-306.93	5,123.57	0.00	Magn MWD	Baker Hughes	0.00	5,131. 92	0.00	N
13,865.08	90.63	359.84	8,975.00	5,155.21	-307.02	5,156.05	0.00	Magn MWD	Baker Hughes	0.00	5,164. 35	0.00	N



Casing Summary

Well Name SALADO DRAW WE 14 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016		Mud Line Elevation (ft)	Water Depth (ft)

Surface, Planned?-N, 681ftKB

Set Depth (MD) (ftKB) 681		Set Tension (kips)		String Nominal OD (in) 13 3/8		String Min Drift (in) 12.469		Centralizers 8		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Wellhead	13 3/8	12.625	54.50	J-55	ST&C	33	36	2.85	2,730.0	1,130.0
1	Pup Joint	13 3/8	12.625	54.50	J-55	ST&C	36	41	4.54	2,730.0	1,130.0
14	Casing Joint	13 3/8	12.625	54.50	J-55	ST&C	41	635	594.65	2,730.0	1,130.0
1	Float Collar	13 3/8	12.625	54.50	J-55	ST&C	635	637	1.35	2,730.0	1,130.0
1	Casing Joint	13 3/8	12.625	54.50	J-55	ST&C	637	679	42.52	2,730.0	1,130.0
1	Float Shoe	13 3/8	12.625	54.50	J-55	ST&C	679	681	1.76	2,730.0	1,130.0

Intermediate Casing 1, Planned?-N, 4,524ftKB

Set Depth (MD) (ftKB) 4,524		Set Tension (kips)		String Nominal OD (in) 9 5/8		String Min Drift (in) 8.688		Centralizers 30		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Setting Tool	9 5/8	8.844	40.00	HCK-55	LT&C	34	36	1.60	3,950.0	4,230.0
1	Pup Joint & HGR	9 5/8	8.844	40.00	HCK-55	LT&C	36	40	3.83	3,950.0	4,230.0
10	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	40	4,435	4,395.48	3,950.0	4,230.0
7											
1	Float Collar	9 5/8	8.844	40.00	HCK-55	LT&C	4,435	4,437	1.50	3,950.0	4,230.0
2	Casing Joint	9 5/8	8.844	40.00	HCK-55	LT&C	4,437	4,522	85.49	3,950.0	4,230.0
1	Float Shoe	9 5/8	8.844	40.00	HCK-55	LT&C	4,522	4,524	1.63	3,950.0	4,230.0

Production Casing, Planned?-N, 13,878ftKB

Set Depth (MD) (ftKB) 13,878		Set Tension (kips)		String Nominal OD (in) 5 1/2		String Min Drift (in)		Centralizers 107		Scratchers	
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)	Len (ft)	P Burst (psi)	P Collapse (psi)
1	Landing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	-4	34	38.23		
1	Hanger	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	34	34	0.27		
1	Hanger PUP	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	34	38	4.03		
53	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	38	2,133	2,094.96		
1	Pup Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	2,133	2,138	5.18		
16	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	2,138	8,422	6,283.64		
0											
1	Marker Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	8,422	8,431	9.18		
13	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	8,431	13,711	5,279.58		
4											
1	RSI Pup	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,711	13,721	9.84		
1	RSI	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,721	13,727	6.67		
1	RSI Pup	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,727	13,737	9.86		
1	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,737	13,777	40.15		
1	LC Pup	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,777	13,787	9.90		
1	Landing Collar	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,787	13,789	1.41		
1	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,789	13,830	41.60		
1	Float Collar	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,830	13,833	2.51		
1	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,833	13,875	42.54		
1	Float Shoe	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,875	13,878	2.70		



Cement Summary

Surface Casing Cement

Well Name SALADO DRAW WE 14 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 8/2/2016		Mud Line Elevation (ft)	Water Depth (ft)

Original Hole			
Wellbore Name Original Hole	Directional Type Horizontal	Min Kick Off Depth (ftKB) 8,480.0	Vertical Section Direction (°) 359.84
Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)	
17 1/2	32.6	690.0	
12 1/4	690.0	4,534.0	
8 3/4	4,534.0	13,887.0	

Multi-bowl, FMC on 6/13/2016 19:00

Sub-Type Multi-bowl		Install Date 6/13/2016			
Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 681ftKB

Casing Description Surface	Wellbore Original Hole	Run Date 6/13/2016	Set Depth (MD) (ftKB) 681	Stick Up (ftKB) -33.3	Set Tension (kips)
Centralizers 8			Scratchers		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Wellhead	13 3/8	12.625	54.50	J-55		ST&C	2.85	33	36
1	Pup Joint	13 3/8	12.625	54.50	J-55		ST&C	4.54	36	41
14	Casing Joint	13 3/8	12.625	54.50	J-55		ST&C	594.65	41	635
1	Float Collar	13 3/8	12.625	54.50	J-55		ST&C	1.35	635	637
1	Casing Joint	13 3/8	12.625	54.50	J-55		ST&C	42.52	637	679
1	Float Shoe	13 3/8	12.625	54.50	J-55		ST&C	1.76	679	681

Intermediate Casing 1, Planned?-N, 4,524ftKB

Casing Description Intermediate Casing 1	Wellbore Original Hole	Run Date 8/3/2016	Set Depth (MD) (ftKB) 4,524	Stick Up (ftKB) -34.5	Set Tension (kips)
Centralizers 30			Scratchers		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Setting Tool	9 5/8	8.844	40.00	HCK-55		LT&C	1.60	34	36
1	Pup Joint & HGR	9 5/8	8.844	40.00	HCK-55		LT&C	3.83	36	40
107	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	4,395.48	40	4,435
1	Float Collar	9 5/8	8.844	40.00	HCK-55		LT&C	1.50	4,435	4,437
2	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	85.49	4,437	4,522
1	Float Shoe	9 5/8	8.844	40.00	HCK-55		LT&C	1.63	4,522	4,524

Production Casing, Planned?-N, 13,878ftKB

Casing Description Production Casing	Wellbore Original Hole	Run Date 8/13/2016	Set Depth (MD) (ftKB) 13,878	Stick Up (ftKB) 4.3	Set Tension (kips)
Centralizers 107			Scratchers		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Landing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	38.23	-4	34
1	Hanger	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	0.27	34	34
1	Hanger PUP	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	4.03	34	38
53	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2,094.96	38	2,133
1	Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5.18	2,133	2,138
160	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6,283.64	2,138	8,422
1	Marker Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.18	8,422	8,431
134	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5,279.58	8,431	13,711
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.84	13,711	13,721
1	RSI	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.67	13,721	13,727



Cement Summary

Surface Casing Cement

Well Name SALADO DRAW WE 14 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016		Mud Line Elevation (ft)	Water Depth (ft)

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.86	13,727	13,737
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	40.15	13,737	13,777
1	LC Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.90	13,777	13,787
1	Landing Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.41	13,787	13,789
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	41.60	13,789	13,830
1	Float Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.51	13,830	13,833
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.54	13,833	13,875
1	Float Shoe	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.70	13,875	13,878

Surface Casing Cement, Casing, 6/13/2016 21:00

Cementing Start Date 6/13/2016		Cementing End Date 6/13/2016		Wellbore Original Hole	
Evaluation Method Returns to Surface		Cement Evaluation Results 118 bbls cmt to surface			
Comment					

1, 32.6-690.0ftKB

Top Depth (ftKB) 32.6	Bottom Depth (ftKB) 690.0	Full Return? Y	Vol Cement Ret (bbl) 118.0	Top Plug? Y	Bottom Plug? N
Initial Pump Rate (bbl/min) 3.4	Final Pump Rate (bbl/min) 2.2	Avg Pump Rate (bbl/min) 5.1		Final Pump Pressure (psi) 280.0	Plug Bump Pressure (psi) 854.0
Pipe Reciprocated? N	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)		Pipe Rotated? N	Pipe RPM (rpm)
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)		Drill Out Diameter (in)	Drill Out Date

Spacer

Fluid Type Spacer	Fluid Description FW w/ Dye	Quantity (sacks)	Class	Volume Pumped (bbl) 40.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.33	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type Tail	Fluid Description	Quantity (sacks) 845	Class C	Volume Pumped (bbl) 199.0
Estimated Top (ftKB) 32.6	Estimated Bottom Depth (ftKB) 680.0	Percent Excess Pumped (%) 125.0	Yield (ft³/sack) 1.33	Fluid Mix Ratio (gal/sack) 6.37
Free Water (%)	Density (lb/gal) 14.80	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type Displacement	Fluid Description Water Base Mud	Quantity (sacks)	Class	Volume Pumped (bbl) 99.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.60	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc



Cement Summary

Intermediate Casing Cement

Well Name SALADO DRAW WE 14 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016		Mud Line Elevation (ft)	Water Depth (ft)

Original Hole				
Wellbore Name Original Hole		Directional Type Horizontal	Min Kick Off Depth (ftKB) 8,480.0	Vertical Section Direction (°) 359.84
Hole Size (in)		Act Top (ftKB)		Act Btm (ftKB)
17 1/2		32.6		690.0
12 1/4		690.0		4,534.0
8 3/4		4,534.0		13,887.0

Multi-bowl, FMC on 6/13/2016 19:00					
Sub-Type Multi-bowl			Install Date 6/13/2016		
Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 681ftKB					
Casing Description Surface	Wellbore Original Hole	Run Date 6/13/2016	Set Depth (MD) (ftKB) 681	Stick Up (ftKB) -33.3	Set Tension (kips)
Centralizers 8			Scratchers		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Wellhead	13 3/8	12.625	54.50	J-55		ST&C	2.85	33	36
1	Pup Joint	13 3/8	12.625	54.50	J-55		ST&C	4.54	36	41
14	Casing Joint	13 3/8	12.625	54.50	J-55		ST&C	594.66	41	635
1	Float Collar	13 3/8	12.625	54.50	J-55		ST&C	1.35	635	637
1	Casing Joint	13 3/8	12.625	54.50	J-55		ST&C	42.52	637	679
1	Float Shoe	13 3/8	12.625	54.50	J-55		ST&C	1.76	679	681

Intermediate Casing 1, Planned?-N, 4,524ftKB					
Casing Description Intermediate Casing 1	Wellbore Original Hole	Run Date 8/3/2016	Set Depth (MD) (ftKB) 4,524	Stick Up (ftKB) -34.5	Set Tension (kips)
Centralizers 30			Scratchers		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Setting Tool	9 5/8	8.844	40.00	HCK-55		LT&C	1.60	34	36
1	Pup Joint & HGR	9 5/8	8.844	40.00	HCK-55		LT&C	3.83	36	40
107	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	4,395.48	40	4,435
1	Float Collar	9 5/8	8.844	40.00	HCK-55		LT&C	1.50	4,435	4,437
2	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	85.49	4,437	4,522
1	Float Shoe	9 5/8	8.844	40.00	HCK-55		LT&C	1.63	4,522	4,524

Production Casing, Planned?-N, 13,878ftKB					
Casing Description Production Casing	Wellbore Original Hole	Run Date 8/13/2016	Set Depth (MD) (ftKB) 13,878	Stick Up (ftKB) 4.3	Set Tension (kips)
Centralizers 107			Scratchers		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Landing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	38.23	-4	34
1	Hanger	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	0.27	34	34
1	Hanger PUP	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	4.03	34	38
53	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2,094.96	38	2,133
1	Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5.18	2,133	2,138
160	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6,283.64	2,138	8,422
1	Marker Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.18	8,422	8,431
134	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5,279.58	8,431	13,711
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.84	13,711	13,721
1	RSI	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.67	13,721	13,727



Cement Summary

Intermediate Casing Cement

Well Name SALADO DRAW WE 14 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016		Mud Line Elevation (ft)	Water Depth (ft)

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.86	13,727	13,737
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	40.15	13,737	13,777
1	LC Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.90	13,777	13,787
1	Landing Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.41	13,787	13,789
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	41.60	13,789	13,830
1	Float Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.51	13,830	13,833
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.54	13,833	13,875
1	Float Shoe	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.70	13,875	13,878

Intermediate Casing Cement, Casing, 8/3/2016 08:30

Cementing Start Date 8/3/2016		Cementing End Date 8/3/2016		Wellbore Original Hole	
Evaluation Method Returns to Surface		Cement Evaluation Results 167 BBL returned to surface.			
Comment					

1, 32.6-4,534.0ftKB

Top Depth (ftKB) 32.6	Bottom Depth (ftKB) 4,534.0	Full Return? Y	Vol Cement Ret (bbl) 167.0	Top Plug? Y	Bottom Plug? N
Initial Pump Rate (bbl/min) 4.8	Final Pump Rate (bbl/min) 3.1	Avg Pump Rate (bbl/min) 6.5		Final Pump Pressure (psi) 1,250.0	
Pipe Reciprocated? N	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)		Pipe Rotated? N	
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)		Drill Out Diameter (in)	
				Drill Out Date	

Spacer

Fluid Type Spacer	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl) 40.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.40	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type Lead	Fluid Description 50/50 D035 "C" 84 + 3% D020 + 5% D044 + .2% D046 + 10% D154	Quantity (sacks) 1,030	Class C	Volume Pumped (bbl) 442.0
Estimated Top (ftKB) 34.5	Estimated Bottom Depth (ftKB) 3,536.0	Percent Excess Pumped (%) 150.0	Yield (ft ³ /sack) 2.41	Fluid Mix Ratio (gal/sack) 13.86
Free Water (%) 0.00	Density (lb/gal) 11.90	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi) 50.0

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type Tail	Fluid Description Class C + 0.25% D800 + .010 gal/sk D177 spike	Quantity (sacks) 460	Class C	Volume Pumped (bbl) 110.0
Estimated Top (ftKB) 3,536.0	Estimated Bottom Depth (ftKB) 4,536.0	Percent Excess Pumped (%) 85.0	Yield (ft ³ /sack) 1.33	Fluid Mix Ratio (gal/sack) 6.35
Free Water (%) 0.00	Density (lb/gal) 14.80	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi) 50.0

Cement Fluid Additives

Add	Type	Conc



Cement Summary

Intermediate Casing Cement

Well Name SALADO DRAW WE 14 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016		Mud Line Elevation (ft)	Water Depth (ft)

Displacement

Fluid Type Displacement	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl) 336.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 8.40	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc



Cement Summary

Production Casing Cement

Well Name SALADO DRAW WE 14 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016		Mud Line Elevation (ft)	Water Depth (ft)

Original Hole			
Wellbore Name	Directional Type	Min Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal	8,480.0	359.84
Hole Size (in)	Act Top (ftKB)		Act Btm (ftKB)
17 1/2	32.6		690.0
12 1/4	690.0		4,534.0
8 3/4	4,534.0		13,867.0

Multi-bowl, FMC on 6/13/2016 19:00					
Sub-Type Multi-bowl			Install Date 6/13/2016		
Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 681ftKB					
Casing Description Surface	Wellbore Original Hole	Run Date 6/13/2016	Set Depth (MD) (ftKB) 681	Stick Up (ftKB) -33.3	Set Tension (kips)
Centralizers 8			Scratchers		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Wellhead	13 3/8	12.625	54.50	J-55		ST&C	2.85	33	36
1	Pup Joint	13 3/8	12.625	54.50	J-55		ST&C	4.54	36	41
14	Casing Joint	13 3/8	12.625	54.50	J-55		ST&C	594.65	41	635
1	Float Collar	13 3/8	12.625	54.50	J-55		ST&C	1.35	635	637
1	Casing Joint	13 3/8	12.625	54.50	J-55		ST&C	42.52	637	679
1	Float Shoe	13 3/8	12.625	54.50	J-55		ST&C	1.76	679	681

Intermediate Casing 1, Planned?-N, 4,524ftKB					
Casing Description Intermediate Casing 1	Wellbore Original Hole	Run Date 8/3/2016	Set Depth (MD) (ftKB) 4,524	Stick Up (ftKB) -34.5	Set Tension (kips)
Centralizers 30			Scratchers		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Setting Tool	9 5/8	8.844	40.00	HCK-55		LT&C	1.60	34	36
1	Pup Joint & HGR	9 5/8	8.844	40.00	HCK-55		LT&C	3.83	36	40
107	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	4,395.48	40	4,435
1	Float Collar	9 5/8	8.844	40.00	HCK-55		LT&C	1.50	4,435	4,437
2	Casing Joint	9 5/8	8.844	40.00	HCK-55		LT&C	85.49	4,437	4,522
1	Float Shoe	9 5/8	8.844	40.00	HCK-55		LT&C	1.63	4,522	4,524

Production Casing, Planned?-N, 13,878ftKB					
Casing Description Production Casing	Wellbore Original Hole	Run Date 8/13/2016	Set Depth (MD) (ftKB) 13,878	Stick Up (ftKB) 4.3	Set Tension (kips)
Centralizers 107			Scratchers		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	Landing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	38.23	-4	34
1	Hanger	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	0.27	34	34
1	Hanger PUP	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	4.03	34	38
53	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2,094.96	38	2,133
1	Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.18	2,133	2,138
160	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6,283.64	2,138	8,422
1	Marker Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.18	8,422	8,431
134	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5,279.58	8,431	13,711
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.84	13,711	13,721
1	RSI	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.67	13,721	13,727



Cement Summary

Production Casing Cement

Well Name SALADO DRAW WE 14 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016		Mud Line Elevation (ft)	Water Depth (ft)

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Conn Sz (in)	Top Thread	Len (ft)	Top Depth (MD) (ftKB)	Btm Depth (MD) (ftKB)
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.86	13,727	13,737
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	40.15	13,737	13,777
1	LC Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.90	13,777	13,787
1	Landing Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.41	13,787	13,789
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	41.60	13,789	13,830
1	Float Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.51	13,830	13,833
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.54	13,833	13,875
1	Float Shoe	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.70	13,875	13,878

Production Casing Cement, Casing, 8/13/2016 11:00

Cementing Start Date 8/13/2016		Cementing End Date 8/13/2016		Wellbore Original Hole	
Evaluation Method Lift Pressure		Cement Evaluation Results FCP of 1,350 psi. Expected lift pressure of 1,098 psi.			
Comment					

1, 3,680.0-13,887.0ftKB

Top Depth (ftKB) 3,680.0	Bottom Depth (ftKB) 13,887.0	Full Return? N	Vol Cement Ret (bbl) 0.0	Top Plug? Y	Bottom Plug? Y
Initial Pump Rate (bbl/min) 5.4	Final Pump Rate (bbl/min) 2	Avg Pump Rate (bbl/min) 5.5	Final Pump Pressure (psi) 1,350.0	Plug Bump Pressure (psi) 1,900.0	
Pipe Reciprocated? N	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated? N	Pipe RPM (rpm)	
Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date	

Spacer

Fluid Type Spacer	Fluid Description 30 bbls MPE @ 10.0 ppg	Quantity (sacks)	Class	Volume Pumped (bbl) 30.0
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%) 0.0	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
Free Water (%)	Density (lb/gal) 10.00	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type Lead	Fluid Description 625 sks / 2.72 / cu ft. 1700 / 302 bbls @ 11.5 ppg / CemNet / D-177	Quantity (sacks) 625	Class H	Volume Pumped (bbl) 302.0
Estimated Top (ftKB) 3,680.0	Estimated Bottom Depth (ftKB) 8,516.0	Percent Excess Pumped (%) 50.0	Yield (ft³/sack) 2.72	Fluid Mix Ratio (gal/sack) 15.89
Free Water (%)	Density (lb/gal) 11.50	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type Lead	Fluid Description 833 sks / 1.60 / cu ft. 1333 / 234 bbls @ 12.5 ppg	Quantity (sacks) 833	Class H	Volume Pumped (bbl) 237.0
Estimated Top (ftKB) 8,516.0	Estimated Bottom Depth (ftKB) 12,887.0	Percent Excess Pumped (%) 35.0	Yield (ft³/sack) 1.60	Fluid Mix Ratio (gal/sack) 8.62
Free Water (%)	Density (lb/gal) 12.50	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Fluid Additives

Add	Type	Conc



Cement Summary

Production Casing Cement

Well Name SALADO DRAW WE 14 FED P5 001H		Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016		Mud Line Elevation (ft)	Water Depth (ft)

Tail					
Fluid Type Tail	Fluid Description 120 sks / 2.18 / cu ft. 262 / 46 bbbls @ 15.0 ppg / D-177 .01% spike	Quantity (sacks) 120	Class H	Volume Pumped (bbl) 46.0	
Estimated Top (ftKB) 12,887.0	Estimated Bottom Depth (ftKB) 13,887.0	Percent Excess Pumped (%) 0.0	Yield (ft ³ /sack) 2.18	Fluid Mix Ratio (gal/sack) 9.56	
Free Water (%)	Density (lb/gal) 15.00	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)	

Cement Fluid Additives		
Add	Type	Conc

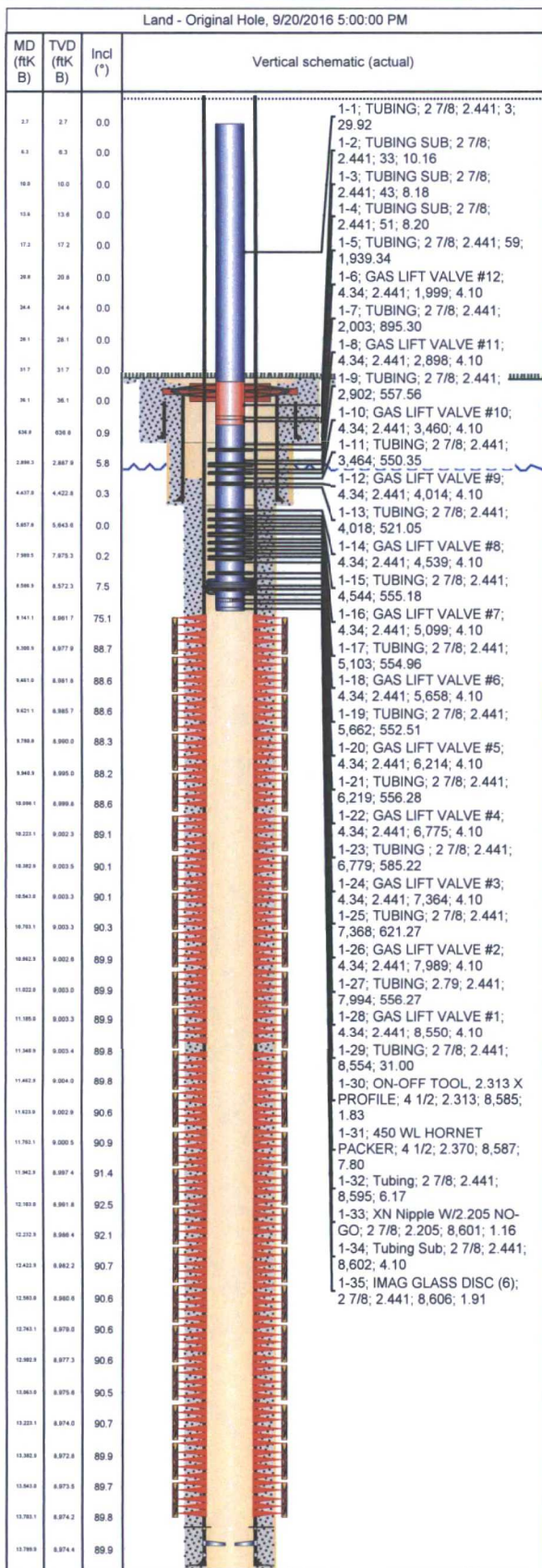
Displacement					
Fluid Type Displacement	Fluid Description FW	Quantity (sacks)	Class	Volume Pumped (bbl) 306.0	
Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%) 0.0	Yield (ft ³ /sack)	Fluid Mix Ratio (gal/sack)	
Free Water (%)	Density (lb/gal) 8.30	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)	

Cement Fluid Additives		
Add	Type	Conc



Tubing Summary

Well Name SALADO DRAW WE 14 FED P5 001H	Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB Elevation (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016	Mud Line Elevation (ft)	Water Depth (ft)
Current KB to Ground (ft) 32.60	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)	

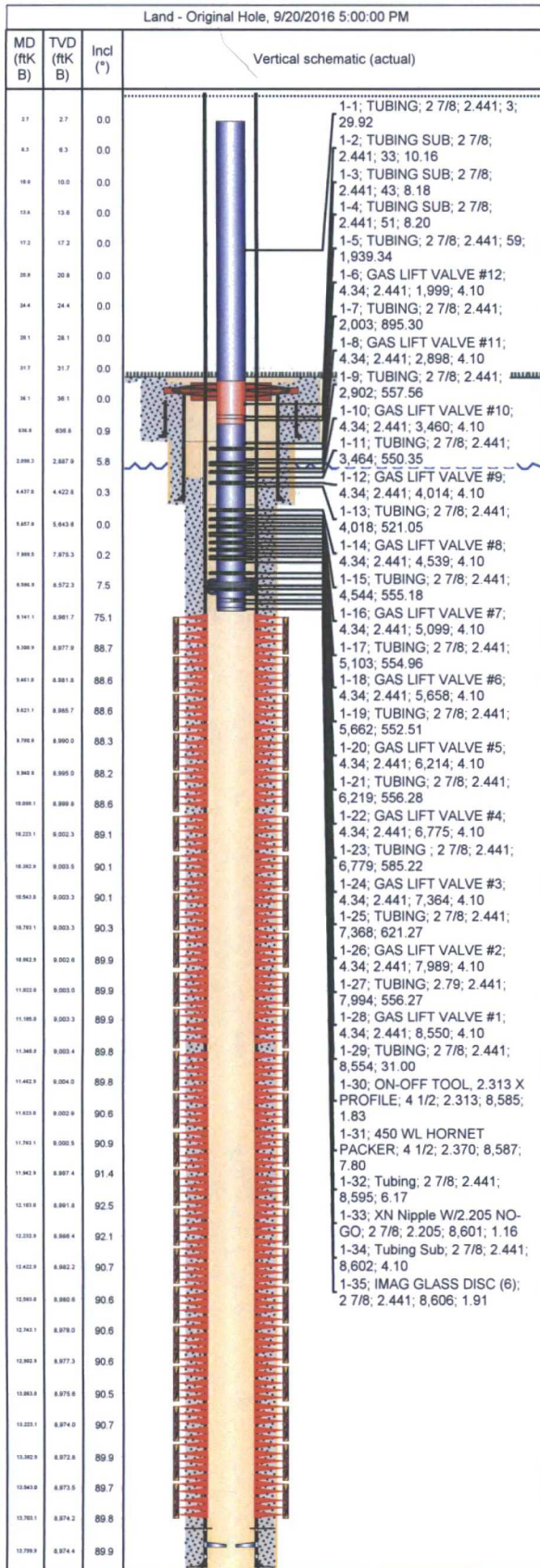


Tubing Strings									
Tubing Description Tubing		Planned Run? N		Set Depth (MD) (ftKB) 8,607.9		Set Depth (TVD) (ftKB) 8,593.2			
Run Date 9/20/2016		Run Job Complete, 8/19/2016 07:00		Pull Date		Pull Job			
Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
1	TUBING	2 7/8	2.441	6.50	L-80	8RD	29.92	3.0	32.9
1	TUBING SUB	2 7/8	2.441	6.50	L-80	8RD	10.16	32.9	43.1
1	TUBING SUB	2 7/8	2.441	6.50	L-80	8RD	8.18	43.1	51.3
1	TUBING SUB	2 7/8	2.441	6.50	L-80	8RD	8.20	51.3	59.5
63	TUBING	2 7/8	2.441	6.50	L-80	8RD	1,939.34	59.5	1,998.8
1	GAS LIFT VALVE #12	4.335	2.441			8RD	4.10	1,998.8	2,002.9
29	TUBING	2 7/8	2.441	6.50	L-80	8RD	895.30	2,002.9	2,898.2
1	GAS LIFT VALVE #11	4.335	2.441			8RD	4.10	2,898.2	2,902.3
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	557.56	2,902.3	3,459.9
1	GAS LIFT VALVE #10	4.335	2.441			8RD	4.10	3,459.9	3,464.0
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	550.35	3,464.0	4,014.3
1	GAS LIFT VALVE #9	4.335	2.441			8RD	4.10	4,014.3	4,018.4
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	521.05	4,018.4	4,539.5
1	GAS LIFT VALVE #8	4.335	2.441			8RD	4.10	4,539.5	4,543.6
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	555.18	4,543.6	5,098.7
1	GAS LIFT VALVE #7	4.335	2.441			8RD	4.10	5,098.7	5,102.8
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	554.96	5,102.8	5,657.8
1	GAS LIFT VALVE #6	4.335	2.441			8RD	4.10	5,657.8	5,661.9
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	552.51	5,661.9	6,214.4
1	GAS LIFT VALVE #5	4.335	2.441			8RD	4.10	6,214.4	6,218.5
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	556.28	6,218.5	6,774.8
1	GAS LIFT VALVE #4	4.335	2.441			8RD	4.10	6,774.8	6,778.9
19	TUBING	2 7/8	2.441	6.50	L-80	8RD	585.22	6,778.9	7,364.1
1	GAS LIFT VALVE #3	4.335	2.441			8RD	4.10	7,364.1	7,368.2
20	TUBING	2 7/8	2.441	6.50	L-80	8RD	621.27	7,368.2	7,989.5
1	GAS LIFT VALVE #2	4.335	2.441			8TRD	4.10	7,989.5	7,993.6
18	TUBING	2.785	2.441	6.50	L-80	8RD	556.27	7,993.6	8,549.9
1	GAS LIFT VALVE #1	4.335	2.441			8RD	4.10	8,549.9	8,554.0
1	TUBING	2 7/8	2.441	6.50	L-80	8RD	31.00	8,554.0	8,585.0
1	ON-OFF TOOL, 2.313 X PROFILE	4 1/2	2.313			8RD	1.83	8,585.0	8,586.8
1	450 WL HORNET PACKER	4 1/2	2.370			8RD	7.80	8,586.8	8,594.6
1	Tubing	2 7/8	2.441	6.50	L-80	8RD	6.17	8,594.6	8,600.8



Tubing Summary

Well Name SALADO DRAW WE 14 FED P5 001H	Lease	Field Name JENNINGS	Business Unit Mid-Continent	
Ground Elevation (ft) 3,157.00	Original RKB Elevation (ft) 3,189.60	Current RKB Elevation 3,189.60, 6/2/2016	Mud Line Elevation (ft)	Water Depth (ft)
Current KB to Ground (ft) 32.60	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)	



Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
1	XN Nipple W/2.205 NO-GO	2 7/8	2.205			8RD	1.16	8,600.8	8,601.9
1	Tubing Sub	2 7/8	2.441	6.50	L-80	8RD	4.10	8,601.9	8,606.0
1	IMAG GLASS DISC (6)	2 7/8	2.441			8RD	1.91	8,606.0	8,607.9

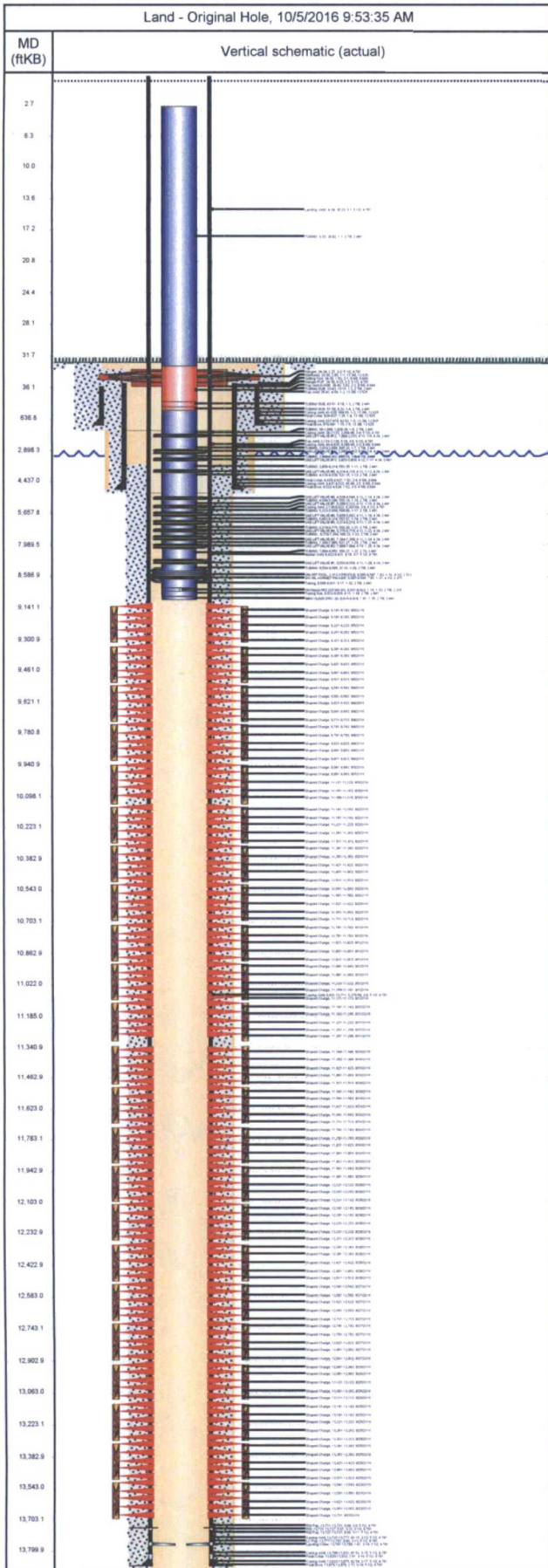
Rod Strings			
Rod Description	Planned Run?	Set Depth (ftKB)	Set Depth (TVD) (ftKB)
Run Date	Run Job	Pull Date	Pull Job

Rod Components							
Jts	Item Des	OD (in)	Grade	Model	Len (ft)	Top (ftKB)	Btm (ftKB)



Wellbore Schematic

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Job Details		
Job Category	Start Date	Rig/Unit End Date
Completion	8/19/2016	8/24/2016
Completion	8/24/2016	9/8/2016
Completion	9/8/2016	9/17/2016
Completion	9/8/2016	9/12/2016
Completion	9/19/2016	9/21/2016

Casing Strings					
Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (MD) (ftKB)
Surface	13 3/8	54.50	J-55	ST&C	681
Intermediate Casing 1	9 5/8	40.00	HCK-55	LT&C	4,524
Production Casing	5 1/2	20.00	HCP-110	TXP-BTC-S	13,878

Tubing Strings			
Tubing set at 8,607.9ftKB on 9/20/2016 17:00			
Tubing Description	Run Date	String Length (ft)	Set Depth (MD) (ftKB)
Tubing	9/20/2016	8,604.92	8,607.9

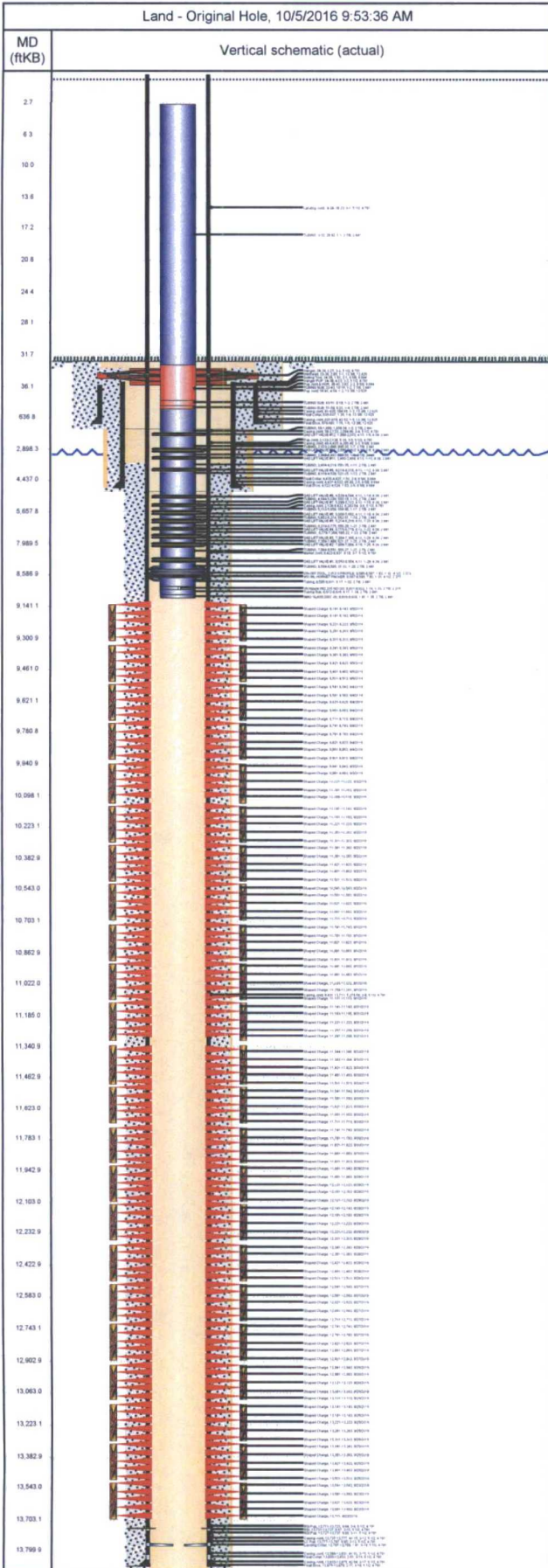
Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftKB)
TUBING	1	2 7/8	6.50	L-80	29.92	32.9
TUBING SUB	1	2 7/8	6.50	L-80	10.16	43.1
TUBING SUB	1	2 7/8	6.50	L-80	8.18	51.3
TUBING SUB	1	2 7/8	6.50	L-80	8.20	59.5
TUBING	63	2 7/8	6.50	L-80	1,939.34	1,998.8
GAS LIFT VALVE #12	1	4.335			4.10	2,002.9
TUBING	29	2 7/8	6.50	L-80	895.30	2,898.2
GAS LIFT VALVE #11	1	4.335			4.10	2,902.3
TUBING	18	2 7/8	6.50	L-80	557.56	3,459.9
GAS LIFT VALVE #10	1	4.335			4.10	3,464.0
TUBING	18	2 7/8	6.50	L-80	550.35	4,014.3
GAS LIFT VALVE #9	1	4.335			4.10	4,018.4
TUBING	17	2 7/8	6.50	L-80	521.05	4,539.5
GAS LIFT VALVE #8	1	4.335			4.10	4,543.6
TUBING	18	2 7/8	6.50	L-80	555.18	5,098.7
GAS LIFT VALVE #7	1	4.335			4.10	5,102.8
TUBING	18	2 7/8	6.50	L-80	554.96	5,657.8
GAS LIFT VALVE #6	1	4.335			4.10	5,661.9
TUBING	17	2 7/8	6.50	L-80	552.51	6,214.4
GAS LIFT VALVE #5	1	4.335			4.10	6,218.5
TUBING	18	2 7/8	6.50	L-80	556.28	6,774.8
GAS LIFT VALVE #4	1	4.335			4.10	6,778.9
TUBING	19	2 7/8	6.50	L-80	585.22	7,364.1
GAS LIFT VALVE #3	1	4.335			4.10	7,368.2
TUBING	20	2 7/8	6.50	L-80	621.27	7,989.5
GAS LIFT VALVE #2	1	4.335			4.10	7,993.6
TUBING	18	2.785	6.50	L-80	556.27	8,549.9
GAS LIFT VALVE #1	1	4.335			4.10	8,554.0
TUBING	1	2 7/8	6.50	L-80	31.00	8,585.0
ON-OFF TOOL, 2.313 X PROFILE	1	4 1/2			1.83	8,586.8
450 WL HORNET PACKER	1	4 1/2			7.80	8,594.6
Tubing	1	2 7/8	6.50	L-80	6.17	8,600.8
XN Nipple W/2.205 NO-GO	1	2 7/8			1.16	8,601.9
Tubing Sub	1	2 7/8	6.50	L-80	4.10	8,606.0
IMAG GLASS DISC (6)	1	2 7/8			1.91	8,607.9

Perforations					
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone
9/5/2016	9,141.0	9,143.0	6.0	12	Avalon, Original Hole
9/5/2016	9,181.0	9,183.0	6.0	12	Avalon, Original Hole
9/5/2016	9,221.0	9,223.0	6.0	12	Avalon, Original Hole
9/5/2016	9,261.0	9,263.0	6.0	12	Avalon, Original Hole
9/5/2016	9,301.0	9,303.0	6.0	12	Avalon, Original Hole



Wellbore Schematic

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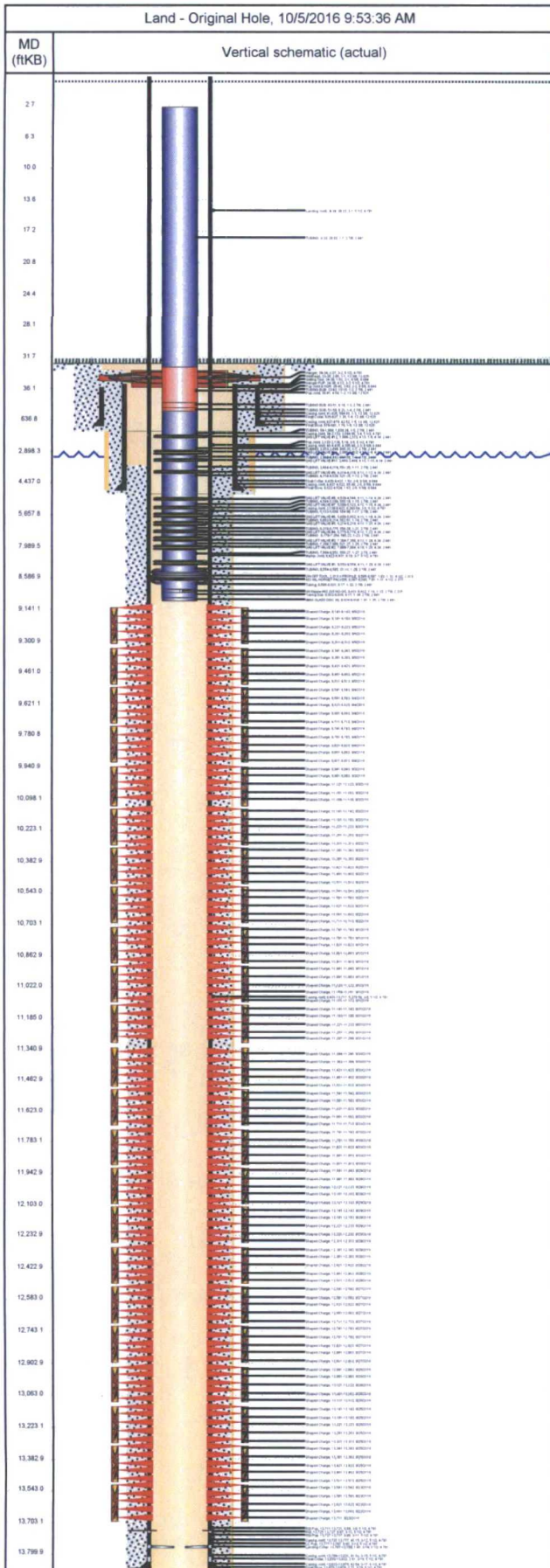


Perforations					
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone
9/5/2016	9,341.0	9,343.0	6.0	12	Avalon, Original Hole
9/5/2016	9,381.0	9,383.0	6.0	12	Avalon, Original Hole
9/5/2016	9,421.0	9,423.0	6.0	12	Avalon, Original Hole
9/5/2016	9,461.0	9,463.0	6.0	12	Avalon, Original Hole
9/5/2016	9,501.0	9,503.0	6.0	12	Avalon, Original Hole
9/4/2016	9,541.0	9,543.0	6.0	12	Avalon, Original Hole
9/4/2016	9,581.0	9,583.0	6.0	12	Avalon, Original Hole
9/4/2016	9,621.0	9,623.0	6.0	12	Avalon, Original Hole
9/4/2016	9,661.0	9,663.0	6.0	12	Avalon, Original Hole
9/4/2016	9,701.0	9,703.0	6.0	12	Avalon, Original Hole
9/4/2016	9,741.0	9,743.0	6.0	12	Avalon, Original Hole
9/4/2016	9,781.0	9,783.0	6.0	12	Avalon, Original Hole
9/4/2016	9,821.0	9,823.0	6.0	12	Avalon, Original Hole
9/4/2016	9,861.0	9,863.0	6.0	12	Avalon, Original Hole
9/4/2016	9,901.0	9,903.0	6.0	12	Avalon, Original Hole
9/3/2016	9,941.0	9,943.0	6.0	12	Avalon, Original Hole
9/3/2016	9,981.0	9,983.0	6.0	12	Avalon, Original Hole
9/3/2016	10,021.0	10,023.0	6.0	12	Avalon, Original Hole
9/3/2016	10,061.0	10,063.0	6.0	12	Avalon, Original Hole
9/3/2016	10,098.0	10,100.0	6.0	12	Avalon, Original Hole
9/2/2016	10,141.0	10,143.0	6.0	12	Avalon, Original Hole
9/2/2016	10,181.0	10,183.0	6.0	12	Avalon, Original Hole
9/2/2016	10,221.0	10,223.0	6.0	12	Avalon, Original Hole
9/2/2016	10,261.0	10,263.0	6.0	12	Avalon, Original Hole
9/2/2016	10,301.0	10,303.0	6.0	12	Avalon, Original Hole
9/2/2016	10,341.0	10,343.0	6.0	12	Avalon, Original Hole
9/2/2016	10,381.0	10,383.0	6.0	12	Avalon, Original Hole
9/2/2016	10,421.0	10,423.0	6.0	12	Avalon, Original Hole
9/2/2016	10,461.0	10,463.0	6.0	12	Avalon, Original Hole
9/2/2016	10,501.0	10,503.0	6.0	12	Avalon, Original Hole
9/2/2016	10,541.0	10,543.0	6.0	12	Avalon, Original Hole
9/2/2016	10,581.0	10,583.0	6.0	12	Avalon, Original Hole
9/2/2016	10,621.0	10,623.0	6.0	12	Avalon, Original Hole
9/2/2016	10,661.0	10,663.0	6.0	12	Avalon, Original Hole
9/2/2016	10,701.0	10,703.0	6.0	12	Avalon, Original Hole
9/1/2016	10,741.0	10,743.0	6.0	12	Avalon, Original Hole
9/1/2016	10,781.0	10,783.0	6.0	12	Avalon, Original Hole
9/1/2016	10,821.0	10,823.0	6.0	12	Avalon, Original Hole
9/1/2016	10,861.0	10,863.0	6.0	12	Avalon, Original Hole
9/1/2016	10,901.0	10,903.0	6.0	12	Avalon, Original Hole
9/1/2016	10,941.0	10,943.0	6.0	12	Avalon, Original Hole
9/1/2016	10,981.0	10,983.0	6.0	12	Avalon, Original Hole
9/1/2016	11,020.0	11,022.0	6.0	12	Avalon, Original Hole
9/1/2016	11,059.0	11,061.0	6.0	12	Avalon, Original Hole
9/1/2016	11,101.0	11,103.0	6.0	12	Avalon, Original Hole
8/31/2016	11,141.0	11,143.0	6.0	12	Avalon, Original Hole
8/31/2016	11,183.0	11,185.0	6.0	12	Avalon, Original Hole
8/31/2016	11,221.0	11,223.0	6.0	12	Avalon, Original Hole
8/31/2016	11,257.0	11,259.0	6.0	12	Avalon, Original Hole
8/31/2016	11,297.0	11,299.0	6.0	12	Avalon, Original Hole
8/30/2016	11,344.0	11,346.0	6.0	12	Avalon, Original Hole
8/30/2016	11,382.0	11,384.0	6.0	12	Avalon, Original Hole
8/30/2016	11,421.0	11,423.0	6.0	12	Avalon, Original Hole
8/30/2016	11,461.0	11,463.0	6.0	12	Avalon, Original Hole
8/30/2016	11,501.0	11,503.0	6.0	12	Avalon, Original Hole
8/30/2016	11,541.0	11,543.0	6.0	12	Avalon, Original Hole
8/30/2016	11,581.0	11,583.0	6.0	12	Avalon, Original Hole
8/30/2016	11,621.0	11,623.0	6.0	12	Avalon, Original Hole



Wellbore Schematic

Well Name SALADO DRAW WE 14 FED P5 001H	Lease	Field Name JENNINGS	Business Unit Mid-Continent
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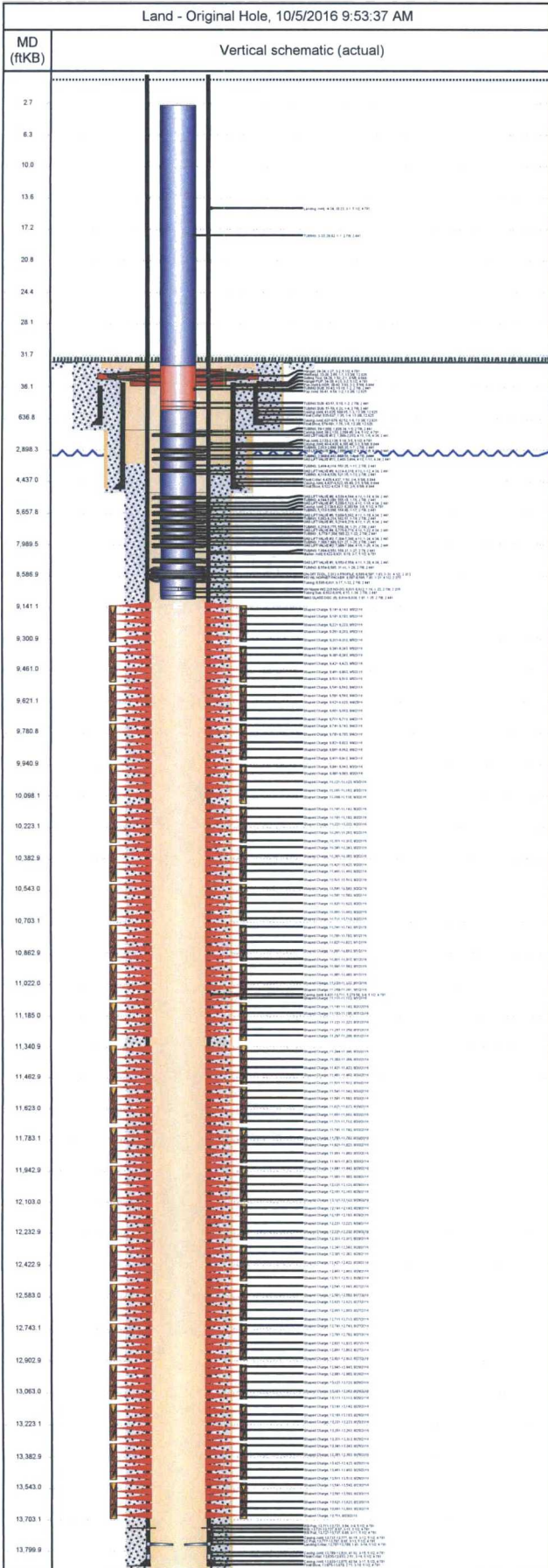
Perforations					
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone
8/30/2016	11,661.0	11,663.0	6.0	12	Avalon, Original Hole
8/30/2016	11,701.0	11,703.0	6.0	12	Avalon, Original Hole
8/30/2016	11,741.0	11,743.0	6.0	12	Avalon, Original Hole
8/30/2016	11,781.0	11,783.0	6.0	12	Avalon, Original Hole
8/30/2016	11,821.0	11,823.0	6.0	12	Avalon, Original Hole
8/30/2016	11,861.0	11,863.0	6.0	12	Avalon, Original Hole
8/30/2016	11,901.0	11,903.0	6.0	12	Avalon, Original Hole
8/29/2016	11,941.0	11,943.0	6.0	12	Avalon, Original Hole
8/29/2016	11,981.0	11,983.0	6.0	12	Avalon, Original Hole
8/29/2016	12,021.0	12,023.0	6.0	12	Avalon, Original Hole
8/29/2016	12,061.0	12,063.0	6.0	12	Avalon, Original Hole
8/29/2016	12,101.0	12,103.0	6.0	12	Avalon, Original Hole
8/29/2016	12,141.0	12,143.0	6.0	12	Avalon, Original Hole
8/29/2016	12,181.0	12,183.0	6.0	12	Avalon, Original Hole
8/29/2016	12,221.0	12,223.0	6.0	12	Avalon, Original Hole
8/29/2016	12,231.0	12,233.0	6.0	12	Avalon, Original Hole
8/29/2016	12,301.0	12,303.0	6.0	12	Avalon, Original Hole
8/28/2016	12,341.0	12,343.0	6.0		Avalon, Original Hole
8/28/2016	12,381.0	12,383.0	6.0		Avalon, Original Hole
8/28/2016	12,421.0	12,423.0	6.0		Avalon, Original Hole
8/28/2016	12,461.0	12,463.0	6.0		Avalon, Original Hole
8/28/2016	12,501.0	12,503.0	6.0		Avalon, Original Hole
8/27/2016	12,541.0	12,543.0	6.0	12	Avalon, Original Hole
8/27/2016	12,581.0	12,583.0	6.0	12	Avalon, Original Hole
8/27/2016	12,621.0	12,623.0	6.0	12	Avalon, Original Hole
8/27/2016	12,661.0	12,663.0	6.0	12	Avalon, Original Hole
8/27/2016	12,701.0	12,703.0	6.0	12	Avalon, Original Hole
8/27/2016	12,741.0	12,743.0	6.0	12	Avalon, Original Hole
8/27/2016	12,781.0	12,783.0	6.0	12	Avalon, Original Hole
8/27/2016	12,821.0	12,823.0	6.0	12	Avalon, Original Hole
8/27/2016	12,861.0	12,863.0	6.0	12	Avalon, Original Hole
8/27/2016	12,901.0	12,903.0	6.0	12	Avalon, Original Hole
8/26/2016	12,941.0	12,943.0	6.0	12	Avalon, Original Hole
8/26/2016	12,981.0	12,983.0	6.0	12	Avalon, Original Hole
8/26/2016	13,021.0	13,023.0	6.0	12	Avalon, Original Hole
8/26/2016	13,061.0	13,063.0	6.0	12	Avalon, Original Hole
8/26/2016	13,101.0	13,103.0	6.0	12	Avalon, Original Hole
8/25/2016	13,141.0	13,143.0	6.0	12	Avalon, Original Hole
8/25/2016	13,181.0	13,183.0	6.0	12	Avalon, Original Hole
8/25/2016	13,221.0	13,223.0	6.0	12	Avalon, Original Hole
8/25/2016	13,261.0	13,263.0	6.0	12	Avalon, Original Hole
8/25/2016	13,301.0	13,303.0	6.0	12	Avalon, Original Hole
8/25/2016	13,341.0	13,343.0	6.0	12	Avalon, Original Hole
8/25/2016	13,381.0	13,383.0	6.0	12	Avalon, Original Hole
8/25/2016	13,421.0	13,423.0	6.0	12	Avalon, Original Hole
8/25/2016	13,461.0	13,463.0	6.0	12	Avalon, Original Hole
8/25/2016	13,501.0	13,503.0	6.0	12	Avalon, Original Hole
8/23/2016	13,541.0	13,543.0	6.0	12	Avalon, Original Hole
8/23/2016	13,581.0	13,583.0	6.0	12	Avalon, Original Hole
8/23/2016	13,621.0	13,623.0	6.0	12	Avalon, Original Hole
8/23/2016	13,661.0	13,663.0	6.0	12	Avalon, Original Hole
8/23/2016	13,701.0	13,701.0	6.0		Avalon, Original Hole

Other Strings					
Run Date	Pull Date	Set Depth (ftKB)	Com		
Other In Hole					
Des	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date	Com
Packer (retrievable)	8,576.0	8,599.0	9/17/2016		



Wellbore Schematic

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Other In Hole					
Des	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date	Com
Composite Frac Plug (drop ball)	9,321.0	9,323.0	9/5/2016	9/11/2016	Stage 23
Composite Frac Plug (drop ball)	9,521.0	9,523.0	9/5/2016	9/11/2016	Stage 22
Composite Frac Plug (drop ball)	9,721.0	9,723.0	9/4/2016	9/11/2016	Stage 21
Composite Frac Plug (drop ball)	9,921.0	9,923.0	9/4/2016	9/11/2016	Stage 20
Composite Frac Plug (drop ball)	10,116.0	10,118.0	9/3/2016	9/11/2016	Stage 19
Composite Frac Plug (drop ball)	10,321.0	10,323.0	9/2/2016	9/11/2016	Stage 18
Composite Frac Plug (drop ball)	10,521.0	10,523.0	9/2/2016	9/11/2016	Stage 17
Composite Frac Plug (drop ball)	10,721.0	10,723.0	9/2/2016	9/11/2016	Stage 16
Composite Frac Plug (drop ball)	10,921.0	10,923.0	9/1/2016	9/11/2016	Stage 15
Composite Frac Plug (drop ball)	11,121.0	11,123.0	9/1/2016	9/11/2016	Stage 14
Composite Frac Plug (drop ball)	11,321.0	11,323.0	8/31/2016	9/10/2016	Stage 13
Composite Frac Plug (drop ball)	11,521.0	11,523.0	8/30/2016	9/10/2016	Stage 12
Composite Frac Plug (drop ball)	11,721.0	11,723.0	8/30/2016	9/10/2016	Stage 11
Composite Frac Plug (drop ball)	11,921.0	11,923.0	8/30/2016	9/10/2016	Stage 10
Composite Frac Plug (drop ball)	12,120.0	12,122.0	8/29/2016	9/10/2016	Stage 9
Composite Frac Plug (drop ball)	12,324.0	12,326.0	8/29/2016	9/10/2016	Stage 8
Composite Frac Plug (drop ball)	12,521.0	12,523.0	8/28/2016	9/10/2016	Stage 7
Composite Frac Plug (drop ball)	12,724.0	12,726.0	8/27/2016	9/10/2016	Stage 6
Composite Frac Plug (drop ball)	12,923.0	12,925.0	8/27/2016	9/10/2016	Stage 5
Composite Frac Plug (drop ball)	13,121.0	13,123.0	8/26/2016	9/10/2016	Stage 4
Composite Frac Plug (drop ball)	13,321.0	13,323.0	8/25/2016	9/10/2016	Stage 3
Composite Frac Plug (drop ball)	13,521.0	13,523.0	8/25/2016	9/10/2016	Stage 2