Directional Survey

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,157.00	3,189.60	3,189.60, 6/3/2016		

Wellbore Name	Parent Wellbore	Min Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Original Hole		359.80

Northing (Y) (ft)	Easting (X) (ft)	UTM Grid Zone

Date	Definitive?	Description	Planned?
6/15/2016	Y	MWD	N

MD Tie In (ftKB)	TVDTie In (ftKB)	Inclination Tie In (°)	Azimuth Tie In (°)	NSTie In (ft)	EWTie 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)	Unused data
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Magn MWD		0.00	0.00	0.00	N
186	0.60	351.70	186.00	0.96	-0.14	0.96	0.32	Magn MWD		0.32	0.97	189.09	N
268	0.80	353.70	267.99	1.96	-0.27	1.96	0.25	Magn MWD		0.24	1.98	2.44	N
361	0.60	324.70	360.98	3.00	-0.62	3.00	0.43	Magn MWD		-0.22	3.06	-31.18	N
457	0.70	302.70	456.98	3.73	-1.40	3.73	0.28	Magn MWD		0.10	3.98	-22.92	N
548	0.60	342.70	547.97	4.48	-2.01	4.49	0.50	Magn MWD		-0.11	4.91	43.96	N
639	0.60	362.70	638.97	5.41	-2.13	5.42	0.23	Magn MWD		0.00	5.82	21.98	N
658	0.60	349.70	657.97	5.61	-2.14	5.62	0.71	Magn MWD		0.00	6.01	-68.42	N
856	0.70	339.80	855.95	7.77	-2.75	7.78	0.08	Magn MWD	Phoenix Directional	0.05	8.24	-5.00	N
1,034	0.80	311.50	1,033.94	9.61	-4.05	9.62	0.21	Magn MWD	Phoenix Directional	0.06	10.43	-15.90	N
1,211	1.00	70.10	1,210.93	10.95	-3.53	10.97	0.88	Magn MWD	Phoenix Directional	0.11	11.51	-136.38	N
1,389	3.80	97.80	1,388.76	10.68	3.78	10.67	1.66	Magn MWD	Phoenix Directional	1.57	11.33	15.56	N
1,567	7.70	80.90	1,565.84	11.77	21.41	11.69	2.37	Magn MWD	Phoenix Directional	2.19	24.43	-9.49	N
1,745	6.90	86.10	1,742.40	14.38	43.85	14.23	0.58	Magn MWD	Phoenix Directional	-0.45	46.15	2.92	N
1,923	6.60	83.00	1,919.16	16.36	64.67	16.13	0.27	Magn MWD	Phoenix Directional	-0.17	66.71	-1.74	N
2,100	6.70	81.60	2,094.97	19.10	84.98	18.81	0.11	Magn MWD	Phoenix Directional	0.06	87.10	-0.79	N
2,277	7.00	80.90	2,270.71	22.32	105.84	21.95	0.18	Magn MWD	Phoenix Directional	0.17	108.17	-0.40	N
2,454	7.30	81.20	2,446.33	25.74	127.61	25.30	0.17	Magn MWD	Phoenix Directional	0.17	130.18	0.17	N
2,632	7.40	80.20	2,622.87	29.42	150.08	28.90	0.09	Magn MWD	Phoenix Directional	0.06	152.94	-0.56	N
2,809	7.60	76.70	2,798.36	34.06	172.70	33.45	0.28	Magn MWD	Phoenix Directional	0.11	176.03	-1.98	N
2,986	7.60	76.40	2,973.80	39.50	195.47	38.82	0.02	Magn MWD	Phoenix Directional	0.00	199.42	-0.17	N
3,164	8.00	75.20	3,150.15	45.43	218.89	44.67	0.24	Magn MWD	Phoenix Directional	0.22	223.55	-0.67	N
3,342	7.80	80.90	3,326.47	50.51	242.79	49.66	0.45	Magn MWD	Phoenix Directional	-0.11	247.99	3.20	N
3,520	6.20	92.80	3,503.14	51.95	264.32	51.03	1.21	Magn MWD	Phoenix Directional	-0.90	269.37	6.69	N
3,698	6.30	90.70	3,680.09	51.36	283.68	50.37	0.14	Magn MWD	Phoenix Directional	0.06	288.30	-1.18	N
3,875	6.20	91.60	3,856.04	50.98	302.95	49.92	0.08	Magn MWD	Phoenix Directional	-0.06	307.21	0.51	N
4,053	4.00	98.50	4,033.32	49.79	318.70	48.68	1.28	Magn MWD	Phoenix Directional	-1.24	322.56	3.88	N

Report Printed: 10/5/2016

Directional Survey

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

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3,157.00	3,189.60	3,189.60, 6/3/2016		

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unused data
4,230	0.60	239.50	4,210.19	48.41	324.01	47.27	2.53	Magn MWD	Phoenix Directional	-1.92	327.60	79.66	N
4,408	0.70	256.10	4,388.18	47.67	322.15	46.55	0.12	Magn MWD	Phoenix Directional	0.06	325.66	9.33	N
4,482	0.80	248.60	4,462.17	47.37	321.23	46.25	0.19	Magn MWD	Phoenix Directional	0.14	324.71	-10.14	N
4,599	0.70	255.10	4,579.16	46.89	319.78	45.78	0.11	Magn MWD	Phoenix Directional	-0.09	323.20	5.56	N
4,777	1.00	255.10	4,757.14	46.21	317.23	45.11	0.17	Magn MWD	Phoenix Directional	0.17	320.58	0.00	N
4,954	0.70	246.40	4,934.12	45.38	314.74	44.28	0.18	Magn MWD	Phoenix Directional	-0.17	318.00	-4.92	N
5,131	1.00	224.00	5,111.10	43.84	312.68	42.75	0.25	Magn MWD	Phoenix Directional	0.17	315.74	-12.66	N
5,309	0.90	240.80	5,289.08	42.04	310.38	40.96	0.17	Magn MWD	Phoenix Directional	-0.06	313.22	9.44	N
5,486	0.40	317.30	5,466.07	41.82	308.75	40.74	0.51	Magn MWD	Phoenix Directional	-0.28	311.57	43.22	N
5,664	0.40	296.70	5,644.07	42.55	307.77	41.48	0.08	Magn MWD	Phoenix Directional	0.00	310.70	-11.57	N
5,841	0.70	299.00	5,821.06	43.35	306.27	42.28	0.17	Magn MWD	Phoenix Directional	0.17	309.33	1.30	N
6,019	1.00	55.50	5,999.05	44.76	306.60	43.69	0.82	Magn MWD	Phoenix Directional	0.17	309.85	-136.80	N
6,196	1.10	35.70	6,176.02	47.02	308.87	45.94	0.21	Magn MWD	Phoenix Directional	0.06	312.43	-11.19	N
6,373	1.00	48.00	6,352.99	49.43	311.01	48.34	0.14	Magn MWD	Phoenix Directional	-0.06	314.91	6.95	N
6,551	0.90	34.90	6,530.96	51.61	312.96	50.52	0.13	Magn MWD	Phoenix Directional	-0.06	317.19	-7.36	N
6,728	0.70	54.70	6,707.95	53.38	314.64	52.28	0.19	Magn MWD	Phoenix Directional	-0.11	319.14	11.19	N
6,905	0.20	78.10	6,884.94	54.07	315.82	52.97	0.30	Magn MWD	Phoenix Directional	-0.28	320.42	13.22	N
7,082	0.20	217.40	7,061.94	53.89	315.94	52.78	0.21	Magn MWD	Phoenix Directional	0.00	320.50	78.70	N
7,260	0.30	265.70	7,239.94	53.60	315.29	52.50	0.13	Magn MWD	Phoenix Directional	0.06	319.81	27.13	N
7,438	0.60	211.60	7,417.93	52.78	314.33	51.68	0.27	Magn MWD	Phoenix Directional	0.17	318.73	-30.39	N
7,615	0.60	210.20	7,594.93	51.19	313.38	50.09	0.01	Magn MWD	Phoenix Directional	0.00	317.53	-0.79	N
7,792	1.00	211.40	7,771.91	49.07	312.11	47.98	0.23	Magn MWD	Phoenix Directional	0.23	315.94	0.68	N
7,969	0.20	34.70	7,948.90	48.00	311.48	46.91	0.68	Magn MWD	Phoenix Directional	-0.45	315.16	-99.83	N
8,147	0.30	115.00	8,126.90	48.06	312.08	46.97	0.19	Magn MWD	Phoenix Directional	0.06	315.76	45.11	N
8,325	0.70	164.90	8,304.89	46.81	312.79	45.72	0.31	Magn MWD	Phoenix Directional	0.22	316.27	28.03	N
8,474	0.70	195.20	8,453.88	45.06	312.78	43.96	0.25	Magn MWD	Phoenix Directional	0.00	316.01	20.34	N
8,580	6.99	3.59	8,559.64	50.88	313.02	49.78	7.24	Magn MWD	Baker Hughes	5.93	317.13	-180.76	N
8,629	13.53	0.67	8,607.83	59.59	313.27	58.50	13.38	Magn MWD	Baker Hughes	13.35	318.89	-5.96	N
8,718	26.61	354.11	8,691.26	89.97	311.34	88.88	14.89	Magn MWD	Baker Hughes	14.70	324.08	397.12	N
8,807	36.38	355.73	8,767.05	136.23	307.32	135.15	11.02	Magn MWD	Baker Hughes	10.98	336.16	1.82	N

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Directional Survey

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3,157.00	3,189.60	3,189.60, 6/3/2016		

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unused data
8,895	42.84	2.88	8,834.85	192.22	306.88	191.15	8.97	Magn MWD	Baker Hughes	7.34	362.11	-400.97	N
8,984	49.47	355.97	8,896.51	256.29	306.02	255.22	9.31	Magn MWD	Baker Hughes	7.45	399.17	396.73	N
9,072	59.27	358.02	8,947.71	327.63	302.35	326.57	11.30	Magn MWD	Baker Hughes	11.14	445.83	2.33	N
9,161	69.96	2.59	8,985.83	407.89	302.92	406.83	12.87	Magn MWD	Baker Hughes	12.01	508.07	-399.36	N
9,249	81.51	2.25	9,007.47	492.96	306.51	491.88	13.13	Magn MWD	Baker Hughes	13.13	580.48	-0.39	N
9,338	88.61	359.00	9,015.13	581.55	307.47	580.48	8.77	Magn MWD	Baker Hughes	7.98	657.83	400.84	N
9,426	88.31	0.48	9,017.50	669.52	307.07	668.44	1.72	Magn MWD	Baker Hughes	-0.34	736.58	-407.41	N
9,515	88.34	1.27	9,020.10	758.47	308.42	757.39	0.89	Magn MWD	Baker Hughes	0.03	818.78	0.89	N
9,603	88.86	2.18	9,022.25	846.40	311.07	845.31	1.19	Magn MWD	Baker Hughes	0.59	901.75	1.03	N
9,692	88.64	2.80	9,024.19	935.30	314.94	934.19	0.74	Magn MWD	Baker Hughes	-0.25	986.90	0.70	N
9,781	88.95	0.44	9,026.06	1,024.23	317.45	1,023.12	2.67	Magn MWD	Baker Hughes	0.35	1,072.30	-2.65	N
9,870	88.95	358.05	9,027.70	1,113.21	316.28	1,112.09	2.68	Magn MWD	Baker Hughes	0.00	1,157.26	401.81	N
9,958	89.94	358.33	9,028.55	1,201.16	313.50	1,200.05	1.17	Magn MWD	Baker Hughes	1.12	1,241.39	0.32	N
10,047	89.54	359.12	9,028.95	1,290.13	311.52	1,289.04	0.99	Magn MWD	Baker Hughes	-0.45	1,327.21	0.89	N
10,136	90.00	356.89	9,029.31	1,379.07	308.42	1,377.99	2.56	Magn MWD	Baker Hughes	0.52	1,413.14	-2.51	N
10,225	90.03	355.17	9,029.29	1,467.85	302.26	1,466.79	1.93	Magn MWD	Baker Hughes	0.03	1,498.65	-1.93	N
10,313	90.06	357.38	9,029.22	1,555.66	296.55	1,554.62	2.51	Magn MWD	Baker Hughes	0.03	1,583.68	2.51	N
10,401	90.52	359.17	9,028.77	1,643.62	293.90	1,642.58	2.10	Magn MWD	Baker Hughes	0.52	1,669.69	2.03	N
10,489	90.03	359.77	9,028.35	1,731.61	293.08	1,730.58	0.88	Magn MWD	Baker Hughes	-0.56	1,756.24	0.68	N
10,578	90.09	359.81	9,028.26	1,820.61	292.76	1,819.58	0.08	Magn MWD	Baker Hughes	0.07	1,844.00	0.04	N
10,666	90.00	359.01	9,028.19	1,908.61	291.85	1,907.58	0.91	Magn MWD	Baker Hughes	-0.10	1,930.79	-0.91	N
10,755	90.06	358.85	9,028.14	1,997.59	290.19	1,996.57	0.19	Magn MWD	Baker Hughes	0.07	2,018.56	-0.18	N
10,844	89.88	0.74	9,028.19	2,086.59	289.87	2,085.56	2.13	Magn MWD	Baker Hughes	-0.20	2,106.62	-402.37	N
10,932	89.88	1.86	9,028.37	2,174.56	291.87	2,173.53	1.27	Magn MWD	Baker Hughes	0.00	2,194.06	1.27	N
11,021	90.20	2.70	9,028.31	2,263.49	295.41	2,262.45	1.01	Magn MWD	Baker Hughes	0.36	2,282.69	0.94	N
11,109	90.30	4.70	9,027.92	2,351.30	301.09	2,350.24	2.28	Magn MWD	Baker Hughes	0.11	2,370.50	2.27	N
11,198	90.40	3.00	9,027.38	2,440.10	307.06	2,439.01	1.91	Magn MWD	Baker Hughes	0.11	2,459.34	-1.91	N
11,286	90.00	0.90	9,027.07	2,528.04	310.05	2,526.94	2.43	Magn MWD	Baker Hughes	-0.45	2,546.98	-2.39	N
11,375	90.00	357.60	9,027.07	2,617.02	308.81	2,615.92	3.82	Magn MWD	Baker Hughes	0.00	2,635.18	400.67	N
11,464	90.50	357.20	9,026.69	2,705.92	304.70	2,704.84	0.66	Magn MWD	Baker Hughes	0.56	2,723.02	-0.34	N

Directional Survey

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3,157.00	3,189.60	3,189.60, 6/3/2016		

Survey Data

MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	NS (ft)	EW (ft)	VS (ft)	DLS (°/100ft)	Method	Survey Company	Build (°/100ft)	Depart (ft)	Turn (°/100ft)	Unused data
11,552	88.60	357.80	9,027.38	2,793.83	300.86	2,792.76	2.26	Magn MWD	Baker Hughes	-2.16	2,809.98	0.68	N
11,640	88.58	358.55	9,029.54	2,881.76	298.06	2,880.70	0.85	Magn MWD	Baker Hughes	-0.02	2,897.13	0.85	N
11,729	88.46	358.50	9,031.84	2,970.70	295.77	2,969.65	0.15	Magn MWD	Baker Hughes	-0.13	2,985.39	-0.06	N
11,818	88.52	358.39	9,034.19	3,059.64	293.35	3,058.59	0.14	Magn MWD	Baker Hughes	0.07	3,073.67	-0.12	N
11,906	89.85	0.20	9,035.44	3,147.61	292.27	3,146.58	2.55	Magn MWD	Baker Hughes	1.51	3,161.16	-407.03	N
11,995	90.52	359.36	9,035.15	3,236.61	291.93	3,235.57	1.21	Magn MWD	Baker Hughes	0.75	3,249.75	403.55	N
12,084	90.77	358.32	9,034.15	3,325.59	290.13	3,324.55	1.20	Magn MWD	Baker Hughes	0.28	3,338.22	-1.17	N
12,173	90.59	2.42	9,033.09	3,414.56	290.70	3,413.52	4.61	Magn MWD	Baker Hughes	-0.20	3,426.91	-399.89	N
12,261	90.99	1.88	9,031.88	3,502.49	294.00	3,501.44	0.76	Magn MWD	Baker Hughes	0.45	3,514.81	-0.61	N
12,350	91.05	1.61	9,030.29	3,591.43	296.71	3,590.38	0.31	Magn MWD	Baker Hughes	0.07	3,603.67	-0.30	N
12,439	90.99	359.42	9,028.71	3,680.41	297.51	3,679.35	2.46	Magn MWD	Baker Hughes	-0.07	3,692.42	402.03	N
12,527	91.23	0.52	9,027.01	3,768.39	297.47	3,767.33	1.28	Magn MWD	Baker Hughes	0.27	3,780.12	-407.84	N
12,616	91.26	359.10	9,025.07	3,857.37	297.17	3,856.31	1.60	Magn MWD	Baker Hughes	0.03	3,868.80	402.90	N
12,705	91.80	357.40	9,022.69	3,946.29	294.45	3,945.24	2.00	Magn MWD	Baker Hughes	0.61	3,957.26	-1.91	N
12,794	91.80	359.70	9,019.90	4,035.21	292.20	4,034.17	2.58	Magn MWD	Baker Hughes	0.00	4,045.78	2.58	N
12,882	91.69	1.96	9,017.22	4,123.16	293.48	4,122.11	2.57	Magn MWD	Baker Hughes	-0.12	4,133.59	-406.52	N
12,971	91.91	1.22	9,014.42	4,212.08	295.95	4,211.02	0.87	Magn MWD	Baker Hughes	0.25	4,222.46	-0.83	N
13,060	90.90	358.80	9,012.24	4,301.04	295.96	4,299.99	2.95	Magn MWD	Baker Hughes	-1.13	4,311.22	401.78	N
13,149	91.10	359.90	9,010.69	4,390.02	294.95	4,388.97	1.26	Magn MWD	Baker Hughes	0.22	4,399.92	1.24	N
13,237	91.00	0.90	9,009.07	4,478.01	295.57	4,476.95	1.14	Magn MWD	Baker Hughes	-0.11	4,487.75	-407.95	N
13,326	91.10	0.90	9,007.44	4,566.98	296.96	4,565.92	0.11	Magn MWD	Baker Hughes	0.11	4,576.62	0.00	N
13,414	91.00	359.10	9,005.83	4,654.96	296.96	4,653.90	2.05	Magn MWD	Baker Hughes	-0.11	4,664.42	407.05	N
13,508	90.80	359.40	9,004.35	4,748.94	295.73	4,747.88	0.38	Magn MWD	Baker Hughes	-0.21	4,758.14	0.32	N
13,591	90.80	359.90	9,003.20	4,831.93	295.23	4,830.87	0.60	Magn MWD	Baker Hughes	0.00	4,840.94	0.60	N
13,680	90.70	1.20	9,002.03	4,920.92	296.08	4,919.85	1.46	Magn MWD	Baker Hughes	-0.11	4,929.82	-403.03	N
13,769	90.70	0.80	9,000.94	5,009.90	297.63	5,008.83	0.45	Magn MWD	Baker Hughes	0.00	5,018.73	-0.45	N
13,858	90.80	1.80	8,999.78	5,098.87	299.65	5,097.79	1.13	Magn MWD	Baker Hughes	0.11	5,107.66	1.12	N
13,892	90.70	0.40	8,999.33	5,132.86	300.31	5,131.78	4.13	Magn MWD	Baker Hughes	-0.29	5,141.63	-4.12	N
13,917	90.70	0.40	8,999.03	5,157.85	300.48	5,156.77	0.00	Extrap.	Baker Hughes	0.00	5,166.60	0.00	N

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Casing Summary

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3,157.00	3,189.60	3,189.60, 6/3/2016		

Surface, Planned?-N, 662ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
662		13 3/8	12.469	8	

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	12.615	54.50	J-55	ST&C	33	36	2.85	2,730.0	1,130.0
1	Pup Joint	13 3/8	12.615	54.50	J-55	ST&C	36	40	4.25	2,730.0	1,130.0
14	Casing Joint	13 3/8	12.615	54.50	J-55	ST&C	40	621	580.79	2,730.0	1,130.0
1	Float Collar	13 3/8	12.615	54.50	J-55	ST&C	621	622	1.33	2,730.0	1,130.0
1	Casing Joint	13 3/8	12.615	54.50	J-55	ST&C	622	660	38.10	2,730.0	1,130.0
1	Float Shoe	13 3/8	12.615	54.50	J-55	ST&C	660	662	1.78	2,730.0	1,130.0

Intermediate Casing 1, Planned?-N, 4,530ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
4,530		9 5/8	8.688	32	

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	Casing Hanger	9 5/8	8.835	40.00	HCK-55		36	37	0.98	3,950.0	4,230.0
1	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55		37	41	4.17	3,950.0	4,230.0
108	Casing Joint	9 5/8	8.835	40.00	HCK-55		41	4,444	4,403.18	3,950.0	4,230.0
1	Float Collar	9 5/8	8.835	40.00	HCK-55		4,444	4,446	1.48	3,950.0	4,230.0
2	Casing Joint	9 5/8	8.835	40.00	HCK-55		4,446	4,528	82.82	3,950.0	4,230.0
1	Float Shoe	9 5/8	8.835	40.00	HCK-55		4,528	4,530	1.63	3,950.0	4,230.0

Production Casing, Planned?-N, 13,908ftKB

Set Depth (MD) (ftKB)	Set Tension (kips)	String Nominal OD (in)	String Min Drift (in)	Centralizers	Scratchers
13,908		5 1/2		102	

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	36	36	0.00		
1	Hanger	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	36	38	2.05		
1	Hanger Pup	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	38	42	3.90		
205	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	42	8,507	8,465.00		
1	Pup Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	8,507	8,512	5.15		
125	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	8,512	13,741	5,229.04		
1	RSI Pup	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,741	13,750	9.02		
1	RSI	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,750	13,757	6.70		
1	RSI Pup	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,757	13,766	9.54		
1	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,766	13,809	42.67		
1	LC Pup	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,809	13,819	9.91		
1	Landing Collar	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,819	13,820	1.50		
1	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,820	13,863	43.24		
1	Float Collar	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,863	13,866	2.44		
1	Casing Joint	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,866	13,906	40.63		
1	Float Shoe	5 1/2	4.781	20.00	HCP-110	TXP-BTC-S	13,906	13,908	1.57		

Report Printed: 10/5/2016

Cement Summary

Surface Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,157.00	3,189.60	3,189.60, 6/3/2016		

Original Hole

Wellbore Name	Directional Type	Min Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal		359.80

Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)
17 1/2	32.6	673.0
12 1/4	673.0	4,540.0
8 3/4	4,540.0	13,917.0

Multi-bowl, FMC on 6/15/2016 16:00

Sub-Type	Install Date
Multi-bowl	6/15/2016

Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 662ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Surface	Original Hole	6/15/2016	662	-32.9	

Centralizers	Scratchers
8	

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	12.615	54.50	J-55		ST&C	2.85	33	36
1	Pup Joint	13 3/8	12.615	54.50	J-55		ST&C	4.25	36	40
14	Casing Joint	13 3/8	12.615	54.50	J-55		ST&C	580.79	40	621
1	Float Collar	13 3/8	12.615	54.50	J-55		ST&C	1.33	621	622
1	Casing Joint	13 3/8	12.615	54.50	J-55		ST&C	38.10	622	660
1	Float Shoe	13 3/8	12.615	54.50	J-55		ST&C	1.78	660	662

Intermediate Casing 1, Planned?-N, 4,530ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Intermediate Casing 1	Original Hole	7/3/2016	4,530	-35.7	

Centralizers	Scratchers
32	

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	Casing Hanger	9 5/8	8.835	40.00	HCK-55			0.98	36	37
1	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55			4.17	37	41
108	Casing Joint	9 5/8	8.835	40.00	HCK-55			4,403.18	41	4,444
1	Float Collar	9 5/8	8.835	40.00	HCK-55			1.48	4,444	4,446
2	Casing Joint	9 5/8	8.835	40.00	HCK-55			82.82	4,446	4,528
1	Float Shoe	9 5/8	8.835	40.00	HCK-55			1.63	4,528	4,530

Production Casing, Planned?-N, 13,908ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Production Casing	Original Hole	7/16/2016	13,908	-35.6	

Centralizers	Scratchers
102	

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	0.00	36	36
1	Hanger	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.05	36	38
1	Hanger Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	3.90	38	42
205	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	8,465.00	42	8,507
1	Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5.15	8,507	8,512
125	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5,229.04	8,512	13,741
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.02	13,741	13,750
1	RSI	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.70	13,750	13,757
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.54	13,757	13,766
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.67	13,766	13,809

Report Printed: 10/5/2016

Cement Summary

Surface Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,157.00	3,189.60	3,189.60, 6/3/2016		

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	LC Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.91	13,809	13,819
1	Landing Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.50	13,819	13,820
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	43.24	13,820	13,863
1	Float Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.44	13,863	13,866
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	40.63	13,866	13,906
1	Float Shoe	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.57	13,906	13,908

Surface Casing Cement, Casing, 6/15/2016 20:00

Cementing Start Date	Cementing End Date	Wellbore
6/15/2016	6/15/2016	Original Hole

Evaluation Method	Cement Evaluation Results
Returns to Surface	110 bbls cmt to surface

Comment

1, 32.6-673.0ftKB

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
32.6	673.0	Y	110.0	Y	N

Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	Plug Bump Pressure (psi)
5.2	2.5	5.5	300.0	828.0

Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)
N			N	

Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date

Spacer

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Spacer	FW w/ Dye			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)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	8.33			

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Tail		845	C	197.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
32.6	680.0	125.0	1.33	6.37

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	14.80			

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Displacement	Water Base Mud			94.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	8.60			

Cement Fluid Additives

Add	Type	Conc

Report Printed: 10/5/2016

Cement Summary

Intermediate Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,157.00	3,189.60	3,189.60, 6/3/2016		

Original Hole

Wellbore Name	Directional Type	Min Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal		359.80

Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)
17 1/2	32.6	673.0
12 1/4	673.0	4,540.0
8 3/4	4,540.0	13,917.0

Multi-bowl, FMC on 6/15/2016 16:00

Sub-Type	Install Date
Multi-bowl	6/15/2016

Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 662ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Surface	Original Hole	6/15/2016	662	-32.9	

Centralizers	Scratchers
8	

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	12.615	54.50	J-55		ST&C	2.85	33	36
1	Pup Joint	13 3/8	12.615	54.50	J-55		ST&C	4.25	36	40
14	Casing Joint	13 3/8	12.615	54.50	J-55		ST&C	580.79	40	621
1	Float Collar	13 3/8	12.615	54.50	J-55		ST&C	1.33	621	622
1	Casing Joint	13 3/8	12.615	54.50	J-55		ST&C	38.10	622	660
1	Float Shoe	13 3/8	12.615	54.50	J-55		ST&C	1.78	660	662

Intermediate Casing 1, Planned?-N, 4,530ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Intermediate Casing 1	Original Hole	7/3/2016	4,530	-35.7	

Centralizers	Scratchers
32	

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	Casing Hanger	9 5/8	8.835	40.00	HCK-55			0.98	36	37
1	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55			4.17	37	41
108	Casing Joint	9 5/8	8.835	40.00	HCK-55			4,403.18	41	4,444
1	Float Collar	9 5/8	8.835	40.00	HCK-55			1.48	4,444	4,446
2	Casing Joint	9 5/8	8.835	40.00	HCK-55			82.82	4,446	4,528
1	Float Shoe	9 5/8	8.835	40.00	HCK-55			1.63	4,528	4,530

Production Casing, Planned?-N, 13,908ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Production Casing	Original Hole	7/16/2016	13,908	-35.6	

Centralizers	Scratchers
102	

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	0.00	36	36
1	Hanger	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.05	36	38
1	Hanger Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	3.90	38	42
205	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	8,466.00	42	8,507
1	Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5.15	8,507	8,512
125	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5,229.04	8,512	13,741
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.02	13,741	13,750
1	RSI	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.70	13,750	13,757
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.54	13,757	13,766
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.67	13,766	13,809

Report Printed: 10/5/2016

Cement Summary

Intermediate Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,157.00	3,189.60	3,189.60, 6/3/2016		

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	LC Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.91	13,809	13,819
1	Landing Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.50	13,819	13,820
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	43.24	13,820	13,863
1	Float Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.44	13,863	13,866
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	40.63	13,866	13,906
1	Float Shoe	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.57	13,906	13,908

Intermediate Casing Cement, Casing, 7/3/2016 19:00

Cementing Start Date	Cementing End Date	Wellbore
7/3/2016	7/3/2016	Original Hole

Evaluation Method	Cement Evaluation Results
Returns to Surface	150 bbls of cement to surface.

Comment

1, 34.5-4,530.0ftKB

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
34.5	4,530.0	N	150.0	Y	N

Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	Plug Bump Pressure (psi)
5.4	2.3	6.8	1,039.0	1,039.0

Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)
N			N	

Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date

Spacer

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Spacer				35.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	8.40			

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Lead		1,034	C	443.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
34.5	3,530.0	150.0	2.41	13.86

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
0.00	11.90			50.0

Cement Fluid Additives

Add	Type	Conc

Tail

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Tail		463	C	109.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
3,530.0	4,530.0	85.0	1.33	6.35

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
0.00	14.80			50.0

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Displacement				

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)

Cement Summary

Intermediate Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,157.00	3,189.60	3,189.60, 6/3/2016		

Cement Fluid Additives

Add	Type	Conc

Report Printed: 10/5/2016

Cement Summary

Production Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,157.00	3,189.60	3,189.60, 6/3/2016		

Original Hole

Wellbore Name	Directional Type	Min Kick Off Depth (ftKB)	Vertical Section Direction (°)
Original Hole	Horizontal		359.80

Hole Size (in)	Act Top (ftKB)	Act Btm (ftKB)
17 1/2	32.6	673.0
12 1/4	673.0	4,540.0
8 3/4	4,540.0	13,917.0

Multi-bowl, FMC on 6/15/2016 16:00

Sub-Type	Install Date
Multi-bowl	6/15/2016

Des	Make	Model	WP (psi)	Service	SN

Surface, Planned?-N, 662ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Surface	Original Hole	6/15/2016	662	-32.9	

Centralizers	Scratchers
8	

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	12.615	54.50	J-55		ST&C	2.85	33	36
1	Pup Joint	13 3/8	12.615	54.50	J-55		ST&C	4.25	36	40
14	Casing Joint	13 3/8	12.615	54.50	J-55		ST&C	580.79	40	621
1	Float Collar	13 3/8	12.615	54.50	J-55		ST&C	1.33	621	622
1	Casing Joint	13 3/8	12.615	54.50	J-55		ST&C	38.10	622	660
1	Float Shoe	13 3/8	12.615	54.50	J-55		ST&C	1.78	660	662

Intermediate Casing 1, Planned?-N, 4,530ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Intermediate Casing 1	Original Hole	7/3/2016	4,530	-35.7	

Centralizers	Scratchers
32	

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	Casing Hanger	9 5/8	8.835	40.00	HCK-55			0.98	36	37
1	Casing Pup Joint	9 5/8	8.835	40.00	HCK-55			4.17	37	41
108	Casing Joint	9 5/8	8.835	40.00	HCK-55			4,403.18	41	4,444
1	Float Collar	9 5/8	8.835	40.00	HCK-55			1.48	4,444	4,446
2	Casing Joint	9 5/8	8.835	40.00	HCK-55			82.82	4,446	4,528
1	Float Shoe	9 5/8	8.835	40.00	HCK-55			1.63	4,528	4,530

Production Casing, Planned?-N, 13,908ftKB

Casing Description	Wellbore	Run Date	Set Depth (MD) (ftKB)	Stick Up (ftKB)	Set Tension (kips)
Production Casing	Original Hole	7/16/2016	13,908	-35.6	

Centralizers	Scratchers
102	

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	0.00	36	36
1	Hanger	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.05	36	38
1	Hanger Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	3.90	38	42
205	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	8,465.00	42	8,507
1	Pup Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5.15	8,507	8,512
125	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	5,229.04	8,512	13,741
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.02	13,741	13,750
1	RSI	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	6.70	13,750	13,757
1	RSI Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.54	13,757	13,766
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	42.67	13,766	13,809

Report Printed: 10/5/2016

Cement Summary

Production Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,157.00	3,189.60	3,189.60, 6/3/2016		

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	LC Pup	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	9.91	13,809	13,819
1	Landing Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.50	13,819	13,820
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	43.24	13,820	13,863
1	Float Collar	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	2.44	13,863	13,866
1	Casing Joint	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	40.63	13,866	13,906
1	Float Shoe	5 1/2	4.781	20.00	HCP-110		TXP-BTC-S	1.57	13,906	13,908

Production Casing Cement, Casing, 7/17/2016 00:30

Cementing Start Date	Cementing End Date	Wellbore
7/17/2016	7/17/2016	Original Hole

Evaluation Method	Cement Evaluation Results
Lift Pressure	FCP of 1,545 psi. Expected lift pressure of 1,551 psi.

Comment

1, 3,550.0-13,908.0ftKB

Top Depth (ftKB)	Bottom Depth (ftKB)	Full Return?	Vol Cement Ret (bbl)	Top Plug?	Bottom Plug?
3,550.0	13,908.0	Y	0.0	Y	Y

Initial Pump Rate (bbl/min)	Final Pump Rate (bbl/min)	Avg Pump Rate (bbl/min)	Final Pump Pressure (psi)	Plug Bump Pressure (psi)
6.2	4.2	6.2	1,545.0	2,187.0

Pipe Reciprocated?	Reciprocation Stroke Length (ft)	Reciprocation Rate (spm)	Pipe Rotated?	Pipe RPM (rpm)
N			N	

Depth Tagged (MD) (ftKB)	Tag Method	Depth Plug Drilled Out To (ftKB)	Drill Out Diameter (in)	Drill Out Date

Spacer

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Spacer	30 bbls MPE @ 10.0 ppg			30.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
2,603.0	3,680.0	0.0		

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	10.00			

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Lead	626 sks / 2.72 / cu ft. 1703 / 303 bbls @ 11.5 ppg / CemNet / D-177	626	H	303.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
3,680.0	8,561.0	50.0	2.72	15.89

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
0.00	11.50			50.0

Cement Fluid Additives

Add	Type	Conc

Lead

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Lead	962 sks / 1.60 / cu ft. 1539 / 274 bbls @ 12.5 ppg	962	H	274.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
8,561.0	12,937.0	35.0	1.60	8.63

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
0.00	12.50			50.0

Cement Fluid Additives

Add	Type	Conc

Report Printed: 10/5/2016

Cement Summary

Production Casing Cement

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,157.00	3,189.60	3,189.60, 6/3/2016		

Tail

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Tail	120 sks / 2.18 / cu ft. 262 / 46 bbls @ 15.0 ppg / D-177 .01% spike	120	H	46.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
12,937.0	13,937.0	0.0	2.18	

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
0.00	15.00			50.0

Cement Fluid Additives

Add	Type	Conc

Displacement

Fluid Type	Fluid Description	Quantity (sacks)	Class	Volume Pumped (bbl)
Displacement	FW			306.0

Estimated Top (ftKB)	Estimated Bottom Depth (ftKB)	Percent Excess Pumped (%)	Yield (ft³/sack)	Fluid Mix Ratio (gal/sack)
		0.0		

Free Water (%)	Density (lb/gal)	Zero Gel Time (min)	Thickening Time (hr)	1st Compressive Strength (psi)
	8.30			

Cement Fluid Additives

Add	Type	Conc

Report Printed: 10/5/2016

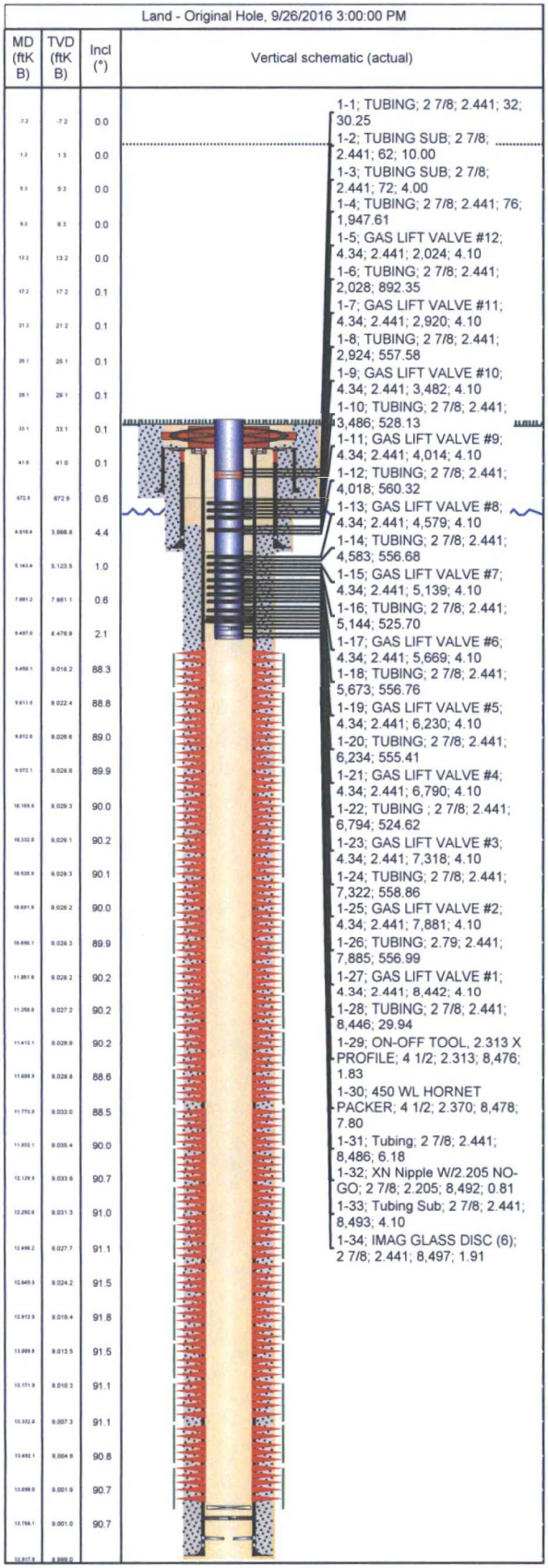
Tubing Summary

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB Elevation (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,157.00	3,189.60	3,189.60, 6/3/2016		

Current KB to Ground (ft)	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)
32.60			

Land - Original Hole, 9/26/2016 3:00:00 PM



Tubing Strings

Tubing Description	Planned Run?	Set Depth (MD) (ftKB)	Set Depth (TVD) (ftKB)
TUBING	N	8,499.0	8,478.9

Run Date	Run Job	Pull Date	Pull Job
9/26/2016	Complete, 8/19/2016 07:00		

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	30.25	32.0	62.3
1	TUBING SUB	2 7/8	2.441	6.50	L-80	8RD	10.00	62.3	72.3
1	TUBING SUB	2 7/8	2.441	6.50	L-80	8RD	4.00	72.3	76.3
63	TUBING	2 7/8	2.441	6.50	L-80	8RD	1,947.61	76.3	2,023.9
1	GAS LIFT VALVE #12	4.335	2.441			8RD	4.10	2,023.9	2,028.0
29	TUBING	2 7/8	2.441	6.50	L-80	8RD	892.35	2,028.0	2,920.3
1	GAS LIFT VALVE #11	4.335	2.441			8RD	4.10	2,920.3	2,924.4
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	557.58	2,924.4	3,482.0
1	GAS LIFT VALVE #10	4.335	2.441			8RD	4.10	3,482.0	3,486.1
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	528.13	3,486.1	4,014.2
1	GAS LIFT VALVE #9	4.335	2.441			8RD	4.10	4,014.2	4,018.3
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	560.32	4,018.3	4,578.6
1	GAS LIFT VALVE #8	4.335	2.441			8RD	4.10	4,578.6	4,582.7
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	556.68	4,582.7	5,139.4
1	GAS LIFT VALVE #7	4.335	2.441			8RD	4.10	5,139.4	5,143.5
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	525.70	5,143.5	5,669.2
1	GAS LIFT VALVE #6	4.335	2.441			8RD	4.10	5,669.2	5,673.3
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	556.76	5,673.3	6,230.1
1	GAS LIFT VALVE #5	4.335	2.441			8RD	4.10	6,230.1	6,234.2
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	555.41	6,234.2	6,789.6
1	GAS LIFT VALVE #4	4.335	2.441			8RD	4.10	6,789.6	6,793.7
17	TUBING	2 7/8	2.441	6.50	L-80	8RD	524.62	6,793.7	7,318.3
1	GAS LIFT VALVE #3	4.335	2.441			8RD	4.10	7,318.3	7,322.4
18	TUBING	2 7/8	2.441	6.50	L-80	8RD	558.86	7,322.4	7,881.3
1	GAS LIFT VALVE #2	4.335	2.441			8TRD	4.10	7,881.3	7,885.4
18	TUBING	2.785	2.441	6.50	L-80	8RD	556.99	7,885.4	8,442.4
1	GAS LIFT VALVE #1	4.335	2.441			8RD	4.10	8,442.4	8,446.5
1	TUBING	2 7/8	2.441	6.50	L-80	8RD	29.94	8,446.5	8,476.4
1	ON-OFF TOOL, 2.313 X PROFILE	4 1/2	2.313			8RD	1.83	8,476.4	8,478.2
1	450 WL HORNET PACKER	4 1/2	2.370			8RD	7.80	8,478.2	8,486.0
1	Tubing	2 7/8	2.441	6.50	L-80	8RD	6.18	8,486.0	8,492.2
1	XN Nipple W/2.205 NO-GO	2 7/8	2.205			8RD	0.81	8,492.2	8,493.0
1	Tubing Sub	2 7/8	2.441	6.50	L-80	8RD	4.10	8,493.0	8,497.1

Report Printed: 10/5/2016

Tubing Summary

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Ground Elevation (ft)	Original RKB Elevation (ft)	Current RKB Elevation	Mud Line Elevation (ft)	Water Depth (ft)
3,157.00	3,189.60	3,189.60, 6/3/2016		

Current KB to Ground (ft)	Current KB to Mud Line (ft)	Current KB to Csg Flange (ft)	Current KB to Tubing Head (ft)
32.60			

Land - Original Hole, 9/26/2016 3:00:00 PM

MD (ftKB)	TVD (ftKB)	Incl (°)	Vertical schematic (actual)
-7.2	-7.2	0.0	1-1; TUBING; 2 7/8; 2.441; 32; 30.25
1.3	1.3	0.0	1-2; TUBING SUB; 2 7/8; 2.441; 62; 10.00
5.3	5.3	0.0	1-3; TUBING SUB; 2 7/8; 2.441; 72; 4.00
9.3	9.3	0.0	1-4; TUBING; 2 7/8; 2.441; 76; 1,947.61
13.2	13.2	0.0	1-5; GAS LIFT VALVE #12; 4.34; 2.441; 2,024; 4.10
17.2	17.2	0.1	1-6; TUBING; 2 7/8; 2.441; 2,028; 892.35
21.2	21.2	0.1	1-7; GAS LIFT VALVE #11; 4.34; 2.441; 2,920; 4.10
25.1	25.1	0.1	1-8; TUBING; 2 7/8; 2.441; 2,924; 557.58
29.1	29.1	0.1	1-9; GAS LIFT VALVE #10; 4.34; 2.441; 3,482; 4.10
33.1	33.1	0.1	1-10; TUBING; 2 7/8; 2.441; 3,486; 528.13
41.0	41.0	0.1	1-11; GAS LIFT VALVE #9; 4.34; 2.441; 4,014; 4.10
672.9	672.9	0.6	1-12; TUBING; 2 7/8; 2.441; 4,018; 560.32
4,019.4	3,998.8	4.4	1-13; GAS LIFT VALVE #8; 4.34; 2.441; 4,579; 4.10
5,143.4	5,123.5	1.0	1-14; TUBING; 2 7/8; 2.441; 4,583; 556.68
7,891.2	7,861.1	0.6	1-15; GAS LIFT VALVE #7; 4.34; 2.441; 5,139; 4.10
8,497.8	8,478.9	2.1	1-16; TUBING; 2 7/8; 2.441; 5,144; 525.70
8,499.1	8,018.2	88.3	1-17; GAS LIFT VALVE #6; 4.34; 2.441; 5,669; 4.10
8,511.9	8,022.4	88.8	1-18; TUBING; 2 7/8; 2.441; 5,673; 556.76
8,812.6	8,026.6	89.0	1-19; GAS LIFT VALVE #5; 4.34; 2.441; 6,230; 4.10
8,972.1	8,026.6	89.9	1-20; TUBING; 2 7/8; 2.441; 6,234; 555.41
9,169.8	8,029.3	90.0	1-21; GAS LIFT VALVE #4; 4.34; 2.441; 6,790; 4.10
9,332.6	8,029.1	90.2	1-22; TUBING ; 2 7/8; 2.441; 6,794; 524.62
9,529.9	8,028.3	90.1	1-23; GAS LIFT VALVE #3; 4.34; 2.441; 7,318; 4.10
9,691.9	8,028.2	90.0	1-24; TUBING; 2 7/8; 2.441; 7,322; 558.86
9,889.1	8,028.3	89.9	1-25; GAS LIFT VALVE #2; 4.34; 2.441; 7,881; 4.10
10,051.8	8,028.2	90.2	1-26; TUBING; 2.79; 2.441; 7,885; 556.99
10,250.8	8,027.2	90.2	1-27; GAS LIFT VALVE #1; 4.34; 2.441; 8,442; 4.10
10,412.1	8,026.9	90.2	1-28; TUBING; 2 7/8; 2.441; 8,446; 29.94
10,609.8	8,028.8	88.6	1-29; ON-OFF TOOL, 2.313 X PROFILE; 4 1/2; 2.313; 8,476; 1.83
10,773.8	8,033.0	88.5	1-30; 450 WL HORNET PACKER; 4 1/2; 2.370; 8,478; 7.80
10,932.1	8,035.4	90.0	1-31; Tubing; 2 7/8; 2.441; 8,486; 6.18
11,129.9	8,033.6	90.7	1-32; XN Nipple W/2.205 NO-GO; 2 7/8; 2.205; 8,492; 0.81
11,292.8	8,031.3	91.0	1-33; Tubing Sub; 2 7/8; 2.441; 8,493; 4.10
11,490.2	8,027.7	91.1	1-34; IMAG GLASS DISC (6); 2 7/8; 2.441; 8,497; 1.91
11,649.8	8,024.2	91.5	
11,812.8	8,019.4	91.8	
12,009.8	8,013.5	91.5	
12,171.9	8,010.3	91.1	
12,332.8	8,007.3	91.1	
12,492.1	8,004.6	90.8	
12,690.8	8,001.9	90.7	
12,766.1	8,001.0	90.7	
12,917.8	8,000.2		

Jts	Item Des	OD (in)	ID (in)	Wt (lb/ft)	Grade	Top Thread	Len (ft)	Top (ftKB)	Btm (ftKB)
1	IMAG GLASS DISC (6)	2 7/8	2.441			8RD	1.91	8,497.1	8,499.0

Rod Strings

Rod Description	Planned Run?	Set Depth (ftKB)	Set Depth (TVD) (ftKB)

Run Date	Run Job	Pull Date	Pull Job

Rod Components

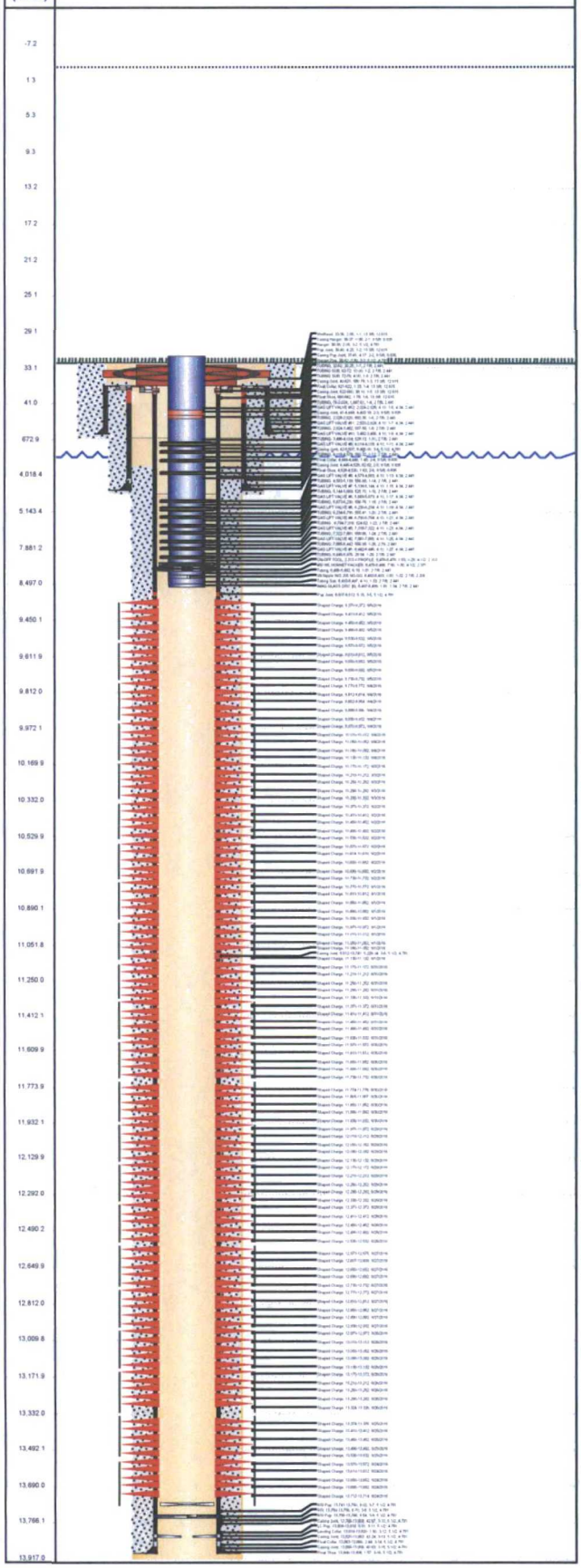
Jts	Item Des	OD (in)	Grade	Model	Len (ft)	Top (ftKB)	Btm (ftKB)

Report Printed: 10/5/2016

Wellbore Schematic

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Land - Original Hole, 10/5/2016 9:55:50 AM



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	9/23/2016	9/27/2016

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	662
Intermediate Casing 1	9 5/8	40.00	HCK-55		4,530
Production Casing	5 1/2	20.00	HCP-110	TXP-BTC-S	13,908

Tubing Strings

TUBING set at 8,499.0ftKB on 9/26/2016 15:00

Tubing Description	Run Date	String Length (ft)	Set Depth (MD) (ftKB)
TUBING	9/26/2016	8,467.03	8,499.0

Item Des	Jts	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Btm (ftKB)
TUBING	1	2 7/8	6.50	L-80	30.25	62.3
TUBING SUB	1	2 7/8	6.50	L-80	10.00	72.3
TUBING SUB	1	2 7/8	6.50	L-80	4.00	76.3
TUBING	63	2 7/8	6.50	L-80	1,947.61	2,023.9
GAS LIFT VALVE #12	1	4.335			4.10	2,028.0
TUBING	29	2 7/8	6.50	L-80	892.35	2,920.3
GAS LIFT VALVE #11	1	4.335			4.10	2,924.4
TUBING	18	2 7/8	6.50	L-80	557.58	3,482.0
GAS LIFT VALVE #10	1	4.335			4.10	3,486.1
TUBING	17	2 7/8	6.50	L-80	528.13	4,014.2
GAS LIFT VALVE #9	1	4.335			4.10	4,018.3
TUBING	18	2 7/8	6.50	L-80	560.32	4,578.6
GAS LIFT VALVE #8	1	4.335			4.10	4,582.7
TUBING	18	2 7/8	6.50	L-80	556.68	5,139.4
GAS LIFT VALVE #7	1	4.335			4.10	5,143.5
TUBING	17	2 7/8	6.50	L-80	525.70	5,669.2
GAS LIFT VALVE #6	1	4.335			4.10	5,673.3
TUBING	18	2 7/8	6.50	L-80	556.76	6,230.1
GAS LIFT VALVE #5	1	4.335			4.10	6,234.2
TUBING	18	2 7/8	6.50	L-80	555.41	6,789.6
GAS LIFT VALVE #4	1	4.335			4.10	6,793.7
TUBING	17	2 7/8	6.50	L-80	524.62	7,318.3
GAS LIFT VALVE #3	1	4.335			4.10	7,322.4
TUBING	18	2 7/8	6.50	L-80	558.86	7,881.3
GAS LIFT VALVE #2	1	4.335			4.10	7,885.4
TUBING	18	2.785	6.50	L-80	556.99	8,442.4
GAS LIFT VALVE #1	1	4.335			4.10	8,446.5
TUBING	1	2 7/8	6.50	L-80	29.94	8,476.4
ON-OFF TOOL, 2.313 X PROFILE	1	4 1/2			1.83	8,478.2
450 WL HORNET PACKER	1	4 1/2			7.80	8,486.0
Tubing	1	2 7/8	6.50	L-80	6.18	8,492.2
XN Nipple W/2.205 NO-GO	1	2 7/8			0.81	8,493.0
Tubing Sub	1	2 7/8	6.50	L-80	4.10	8,497.1
IMAG GLASS DISC (6)	1	2 7/8			1.91	8,499.0

Perforations

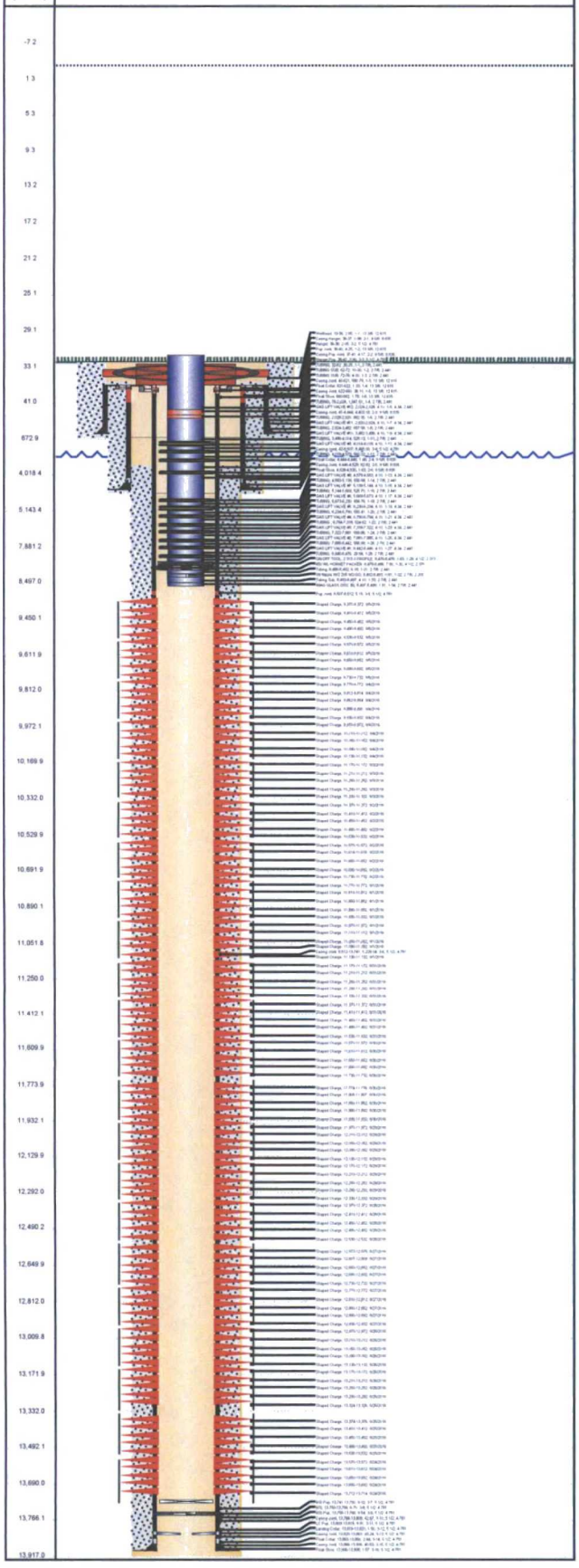
Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone
9/5/2016	9,370.0	9,372.0	6.0	12	Avalon, Original Hole
9/5/2016	9,410.0	9,412.0	6.0	12	Avalon, Original Hole
9/5/2016	9,450.0	9,452.0	6.0	12	Avalon, Original Hole
9/5/2016	9,490.0	9,492.0	6.0	12	Avalon, Original Hole
9/5/2016	9,530.0	9,532.0	6.0	12	Avalon, Original Hole
9/5/2016	9,570.0	9,572.0	6.0	12	Avalon, Original Hole
9/5/2016	9,610.0	9,612.0	6.0	12	Avalon, Original Hole

Report Printed: 10/5/2016

Wellbore Schematic

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Land - Original Hole, 10/5/2016 9:55:51 AM



Perforations

Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone
9/5/2016	9,650.0	9,652.0	6.0	12	Avalon, Original Hole
9/5/2016	9,690.0	9,692.0	6.0	12	Avalon, Original Hole
9/5/2016	9,730.0	9,732.0	6.0	12	Avalon, Original Hole
9/4/2016	9,770.0	9,772.0	6.0	12	Avalon, Original Hole
9/4/2016	9,812.0	9,814.0	6.0	12	Avalon, Original Hole
9/4/2016	9,852.0	9,854.0	6.0	12	Avalon, Original Hole
9/4/2016	9,888.0	9,890.0	6.0	12	Avalon, Original Hole
9/4/2016	9,930.0	9,932.0	6.0	12	Avalon, Original Hole
9/4/2016	9,970.0	9,972.0	6.0	12	Avalon, Original Hole
9/4/2016	10,010.0	10,012.0	6.0	12	Avalon, Original Hole
9/4/2016	10,050.0	10,052.0	6.0	12	Avalon, Original Hole
9/4/2016	10,090.0	10,092.0	6.0	12	Avalon, Original Hole
9/4/2016	10,130.0	10,132.0	6.0	12	Avalon, Original Hole
9/3/2016	10,170.0	10,172.0	6.0	12	Avalon, Original Hole
9/3/2016	10,210.0	10,212.0	6.0	12	Avalon, Original Hole
9/3/2016	10,250.0	10,252.0	6.0	12	Avalon, Original Hole
9/3/2016	10,290.0	10,292.0	6.0	12	Avalon, Original Hole
9/3/2016	10,330.0	10,332.0	6.0	12	Avalon, Original Hole
9/2/2016	10,370.0	10,372.0	6.0	12	Avalon, Original Hole
9/2/2016	10,410.0	10,412.0	6.0	12	Avalon, Original Hole
9/2/2016	10,450.0	10,452.0	6.0	12	Avalon, Original Hole
9/2/2016	10,490.0	10,492.0	6.0	12	Avalon, Original Hole
9/2/2016	10,530.0	10,532.0	6.0	12	Avalon, Original Hole
9/2/2016	10,570.0	10,572.0	6.0	12	Avalon, Original Hole
9/2/2016	10,614.0	10,616.0	6.0	12	Avalon, Original Hole
9/2/2016	10,650.0	10,652.0	6.0	12	Avalon, Original Hole
9/2/2016	10,690.0	10,692.0	6.0	12	Avalon, Original Hole
9/2/2016	10,730.0	10,732.0	6.0	12	Avalon, Original Hole
9/1/2016	10,770.0	10,772.0	6.0	12	Avalon, Original Hole
9/1/2016	10,810.0	10,812.0	6.0	12	Avalon, Original Hole
9/1/2016	10,850.0	10,852.0	6.0	12	Avalon, Original Hole
9/1/2016	10,890.0	10,892.0	6.0	12	Avalon, Original Hole
9/1/2016	10,930.0	10,932.0	6.0	12	Avalon, Original Hole
9/1/2016	10,970.0	10,972.0	6.0	12	Avalon, Original Hole
9/1/2016	11,010.0	11,012.0	6.0	12	Avalon, Original Hole
9/1/2016	11,050.0	11,052.0	6.0	12	Avalon, Original Hole
9/1/2016	11,090.0	11,092.0	6.0	12	Avalon, Original Hole
9/1/2016	11,130.0	11,132.0	6.0	12	Avalon, Original Hole
8/31/2016	11,170.0	11,172.0	6.0	12	Avalon, Original Hole
8/31/2016	11,210.0	11,212.0	6.0	12	Avalon, Original Hole
8/31/2016	11,250.0	11,252.0	6.0	12	Avalon, Original Hole
8/31/2016	11,290.0	11,292.0	6.0	12	Avalon, Original Hole
8/31/2016	11,330.0	11,332.0	6.0	12	Avalon, Original Hole
8/31/2016	11,370.0	11,372.0	6.0	12	Avalon, Original Hole
8/31/2016	11,410.0	11,412.0	6.0	12	Avalon, Original Hole
8/31/2016	11,450.0	11,452.0	6.0	12	Avalon, Original Hole
8/31/2016	11,490.0	11,492.0	6.0	12	Avalon, Original Hole
8/31/2016	11,530.0	11,532.0	6.0	12	Avalon, Original Hole
8/30/2016	11,570.0	11,572.0	6.0	12	Avalon, Original Hole
8/30/2016	11,610.0	11,612.0	6.0	12	Avalon, Original Hole
8/30/2016	11,650.0	11,652.0	6.0	12	Avalon, Original Hole
8/30/2016	11,690.0	11,692.0	6.0	12	Avalon, Original Hole
8/30/2016	11,730.0	11,732.0	6.0	12	Avalon, Original Hole
8/30/2016	11,774.0	11,776.0	6.0	12	Avalon, Original Hole
8/30/2016	11,805.0	11,807.0	6.0	12	Avalon, Original Hole
8/30/2016	11,850.0	11,852.0	6.0	12	Avalon, Original Hole
8/30/2016	11,890.0	11,892.0	6.0	12	Avalon, Original Hole
8/30/2016	11,930.0	11,932.0	6.0	12	Avalon, Original Hole

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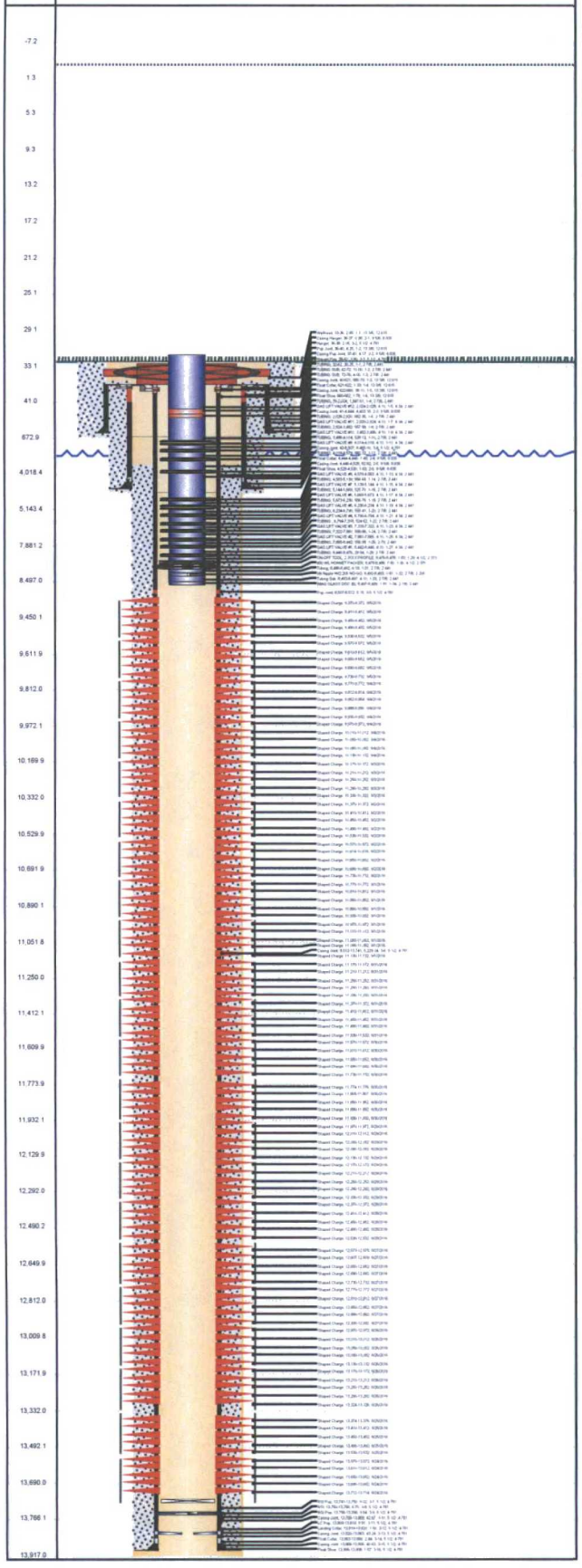
Wellbore Schematic

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Land - Original Hole, 10/5/2016 9:55:51 AM



Perforations

Date	Top (ftKB)	Btm (ftKB)	Shot Dens (shots/ft)	Entered Shot Total	Linked Zone
8/29/2016	11,970.0	11,972.0	6.0	12	Avalon, Original Hole
8/29/2016	12,010.0	12,012.0	6.0	12	Avalon, Original Hole
8/29/2016	12,050.0	12,052.0	6.0	12	Avalon, Original Hole
8/29/2016	12,090.0	12,092.0	6.0	12	Avalon, Original Hole
8/29/2016	12,130.0	12,132.0	6.0	12	Avalon, Original Hole
8/29/2016	12,170.0	12,172.0	6.0	12	Avalon, Original Hole
8/29/2016	12,210.0	12,212.0	6.0	12	Avalon, Original Hole
8/29/2016	12,250.0	12,252.0	6.0	12	Avalon, Original Hole
8/29/2016	12,290.0	12,292.0	6.0	12	Avalon, Original Hole
8/29/2016	12,330.0	12,332.0	6.0	12	Avalon, Original Hole
8/28/2016	12,370.0	12,372.0	6.0	12	Avalon, Original Hole
8/28/2016	12,410.0	12,412.0	6.0	12	Avalon, Original Hole
8/28/2016	12,450.0	12,452.0	6.0	12	Avalon, Original Hole
8/28/2016	12,490.0	12,492.0	6.0	12	Avalon, Original Hole
8/28/2016	12,530.0	12,532.0	6.0	12	Avalon, Original Hole
8/27/2016	12,573.0	12,575.0	6.0	12	Avalon, Original Hole
8/27/2016	12,607.0	12,609.0	6.0	12	Avalon, Original Hole
8/27/2016	12,650.0	12,652.0	6.0	12	Avalon, Original Hole
8/27/2016	12,690.0	12,692.0	6.0	12	Avalon, Original Hole
8/27/2016	12,730.0	12,732.0	6.0	12	Avalon, Original Hole
8/27/2016	12,770.0	12,772.0	6.0	12	Avalon, Original Hole
8/27/2016	12,810.0	12,812.0	6.0	12	Avalon, Original Hole
8/27/2016	12,850.0	12,852.0	6.0	12	Avalon, Original Hole
8/27/2016	12,890.0	12,892.0	6.0	12	Avalon, Original Hole
8/27/2016	12,930.0	12,932.0	6.0	12	Avalon, Original Hole
8/26/2016	12,970.0	12,972.0	6.0		Avalon, Original Hole
8/26/2016	13,010.0	13,012.0	6.0		Avalon, Original Hole
8/26/2016	13,050.0	13,052.0	6.0		Avalon, Original Hole
8/26/2016	13,090.0	13,092.0	6.0		Avalon, Original Hole
8/26/2016	13,130.0	13,132.0	6.0		Avalon, Original Hole
8/26/2016	13,170.0	13,172.0	6.0		Avalon, Original Hole
8/26/2016	13,210.0	13,212.0	6.0		Avalon, Original Hole
8/26/2016	13,250.0	13,252.0	6.0		Avalon, Original Hole
8/26/2016	13,290.0	13,292.0	6.0		Avalon, Original Hole
8/26/2016	13,324.0	13,326.0	6.0		Avalon, Original Hole
8/25/2016	13,374.0	13,376.0	6.0		Avalon, Original Hole
8/25/2016	13,410.0	13,412.0	6.0		Avalon, Original Hole
8/25/2016	13,450.0	13,452.0	6.0		Avalon, Original Hole
8/25/2016	13,490.0	13,492.0	6.0		Avalon, Original Hole
8/25/2016	13,530.0	13,532.0	6.0		Avalon, Original Hole
8/24/2016	13,570.0	13,572.0	6.0	12	Avalon, Original Hole
8/24/2016	13,610.0	13,612.0	6.0	12	Avalon, Original Hole
8/24/2016	13,650.0	13,652.0	6.0	12	Avalon, Original Hole
8/24/2016	13,690.0	13,692.0	6.0	12	Avalon, Original Hole
8/24/2016	13,712.0	13,714.0	6.0	12	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
Composite Frac Plug (drop ball)	9,550.0	9,552.0	9/5/2016	9/10/2016	Stage 22
Composite Frac Plug (drop ball)	9,750.0	9,752.0	9/5/2016	9/10/2016	Stage 21
Composite Frac Plug (drop ball)	9,950.0	9,952.0	9/4/2016	9/10/2016	Stage 20
Composite Frac Plug (drop ball)	10,150.0	10,152.0	9/4/2016	9/10/2016	Stage 19

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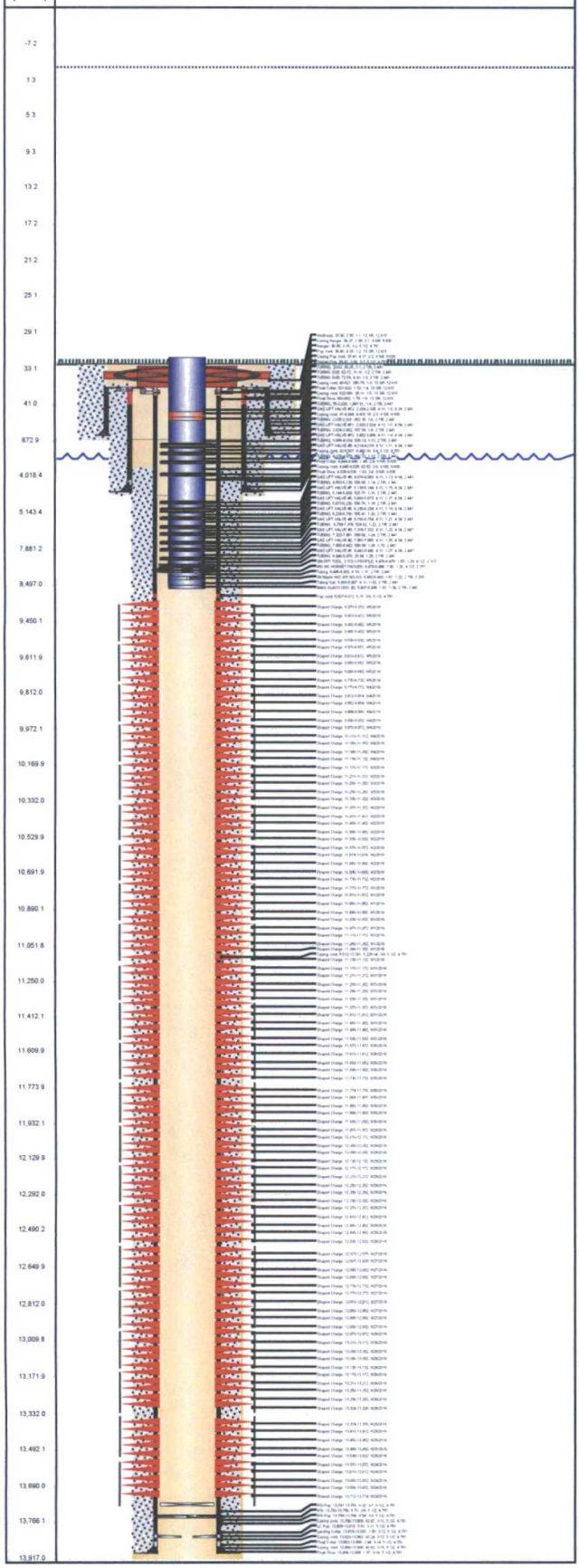
Wellbore Schematic

Well Name	Lease	Field Name	Business Unit
SALADO DRAW WE 14 FED P5 002H		JENNINGS	Mid-Continent

Land - Original Hole, 10/5/2016 9:55:52 AM



Other In Hole

Des	Top (ftKB)	Btm (ftKB)	Run Date	Pull Date	Com
Composite Frac Plug (drop ball)	10,350.0	10,352.0	9/3/2016	9/10/2016	Stage 18
Composite Frac Plug (drop ball)	10,550.0	10,552.0	9/2/2016	9/10/2016	Stage 17
Composite Frac Plug (drop ball)	10,750.0	10,752.0	9/2/2016	9/10/2016	Stage 16
Composite Frac Plug (drop ball)	10,952.0	10,954.0	9/1/2016	9/10/2016	Stage 15
Composite Frac Plug (drop ball)	11,145.0	11,147.0	9/1/2016	9/10/2016	Stage 14
Composite Frac Plug (drop ball)	11,348.0	11,350.0	8/31/2016	9/10/2016	Stage 13
Composite Frac Plug (drop ball)	11,550.0	11,552.0	8/31/2016	9/10/2016	Stage 12
Composite Frac Plug (drop ball)	11,750.0	11,752.0	8/30/2016	9/10/2016	Stage 11
Composite Frac Plug (drop ball)	11,950.0	11,952.0	8/30/2016	9/10/2016	Stage 10
Composite Frac Plug (drop ball)	12,155.0	12,157.0	8/29/2016	9/10/2016	Stage 9
Composite Frac Plug (drop ball)	12,350.0	12,352.0	8/29/2016	9/10/2016	Stage 8
Composite Frac Plug (drop ball)	12,550.0	12,552.0	8/28/2016	9/10/2016	Stage 7
Composite Frac Plug (drop ball)	12,750.0	12,752.0	8/27/2016	9/10/2016	Stage 6
Composite Frac Plug (drop ball)	12,950.0	12,952.0	8/27/2016	9/10/2016	Stage 5
Composite Frac Plug (drop ball)	13,150.0	13,152.0	8/26/2016	9/9/2016	Stage 4
Composite Frac Plug (drop ball)	13,350.0	13,352.0	8/26/2016	9/9/2016	Stage 3
Composite Frac Plug (drop ball)	13,550.0	13,552.0	8/25/2016	9/9/2016	Stage 2
Cast Iron Bridge Plug	13,730.0	13,732.0	8/24/2016		Stage 1

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