



Directional Survey

Well Name SALADO DRAW WE 14 FED P7 004H		Lease SD 14 FED P7		Field Name JENNINGS		Business Unit Mid-Continent	
Ground Elevation (ft) 3,165.00	Original RKB (ft) 3,197.60	Current RKB Elevation 3,197.60, 3/28/2016				Mud Line Elevation (ft)	Water Depth (ft)

Wellbore Name Original Hole		Parent Wellbore Original Hole		Min Kick Off Depth (ftKB) 8,567.0		Vertical Section Direction (*) 359.66	
Northing (Y) (ft)		Easting (X) (ft)		UTM Grid Zone			
Date 4/18/2016		Definitive? Y		Description MWD		Planned? 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)	Unuse d data
0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Magn MWD	Phoenix Directional	0.00	0.00	0.00	N
165	0.30	263.00	165.00	-0.05	-0.43	-0.05	0.18	Magn MWD	Phoenix Directional	0.18	0.43	159.39	N
255	0.10	28.00	255.00	-0.01	-0.63	-0.01	0.41	Magn MWD	Phoenix Directional	-0.22	0.63	261.11	N
343	0.50	243.00	343.00	-0.12	-0.93	-0.11	0.66	Magn MWD	Phoenix Directional	0.45	0.94	244.32	N
436	0.60	249.00	435.99	-0.48	-1.75	-0.47	0.12	Magn MWD	Phoenix Directional	0.11	1.81	6.45	N
532	1.00	223.00	531.98	-1.27	-2.79	-1.25	0.55	Magn MWD	Phoenix Directional	0.42	3.06	-27.08	N
625	1.40	239.00	624.96	-2.45	-4.32	-2.42	0.56	Magn MWD	Phoenix Directional	0.43	4.96	17.20	N
717	1.80	247.00	716.93	-3.59	-6.61	-3.55	0.50	Magn MWD	Phoenix Directional	0.43	7.52	8.70	N
815	1.80	260.00	814.88	-4.46	-9.54	-4.40	0.42	Magn MWD	Phoenix Directional	0.00	10.53	13.27	N
949	1.80	271.30	948.81	-4.78	-13.72	-4.70	0.26	Magn MWD	Phoenix Directional	0.00	14.53	8.43	N
1,126	1.60	175.40	1,125.76	-7.18	-16.30	-7.08	1.43	Magn MWD	Phoenix Directional	-0.11	17.81	-54.18	N
1,303	1.80	127.40	1,302.70	-11.33	-13.89	-11.25	0.79	Magn MWD	Phoenix Directional	0.11	17.93	-27.12	N
1,481	3.20	76.80	1,480.54	-11.89	-6.83	-11.85	1.40	Magn MWD	Phoenix Directional	0.79	13.72	-28.43	N
1,658	3.60	77.00	1,657.23	-9.52	3.39	-9.54	0.23	Magn MWD	Phoenix Directional	0.23	10.10	0.11	N
1,835	6.50	68.40	1,833.53	-4.58	18.12	-4.68	1.69	Magn MWD	Phoenix Directional	1.64	18.69	-4.86	N
2,014	6.30	78.20	2,011.41	1.16	37.16	0.94	0.62	Magn MWD	Phoenix Directional	-0.11	37.18	5.47	N
2,192	6.60	81.00	2,188.29	4.76	56.82	4.42	0.24	Magn MWD	Phoenix Directional	0.17	57.02	1.57	N
2,370	6.80	87.60	2,365.08	6.80	77.45	6.34	0.45	Magn MWD	Phoenix Directional	0.11	77.75	3.71	N
2,547	5.50	92.20	2,541.05	6.91	96.40	6.34	0.78	Magn MWD	Phoenix Directional	-0.73	96.65	2.60	N
2,724	5.40	93.30	2,717.25	6.11	113.19	5.44	0.08	Magn MWD	Phoenix Directional	-0.06	113.36	0.62	N
2,901	5.40	91.20	2,893.47	5.45	129.83	4.68	0.11	Magn MWD	Phoenix Directional	0.00	129.95	-1.19	N
3,079	5.50	91.00	3,070.66	5.13	146.74	4.26	0.06	Magn MWD	Phoenix Directional	0.06	146.82	-0.11	N
3,257	5.90	88.20	3,247.78	5.27	164.41	4.29	0.27	Magn MWD	Phoenix Directional	0.22	164.49	-1.57	N
3,434	6.60	87.10	3,423.73	6.07	183.66	4.98	0.40	Magn MWD	Phoenix Directional	0.40	183.76	-0.62	N
3,611	5.50	88.00	3,599.74	6.88	202.30	5.68	0.62	Magn MWD	Phoenix Directional	-0.62	202.41	0.51	N
3,790	5.40	89.50	3,777.93	7.25	219.29	5.95	0.10	Magn MWD	Phoenix Directional	-0.06	219.41	0.84	N
3,967	5.80	90.40	3,954.09	7.26	236.56	5.86	0.23	Magn MWD	Phoenix Directional	0.23	236.68	0.51	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
4,144	6.10	89.30	4,130.13	7.32	254.91	5.80	0.18	Magn MWD	Phoenix Directional	0.17	255.02	-0.62	N
4,322	6.80	95.70	4,307.01	6.38	274.85	4.75	0.56	Magn MWD	Phoenix Directional	0.39	274.93	3.60	N
4,499	6.90	95.40	4,482.75	4.34	295.87	2.59	0.06	Magn MWD	Phoenix Directional	0.06	295.90	-0.17	N
4,509	6.90	96.10	4,492.67	4.22	297.06	2.46	0.84	Magn MWD	Phoenix Directional	0.00	297.09	7.00	N
4,598	6.70	96.60	4,581.05	3.06	307.53	1.23	0.23	Magn MWD	Phoenix Directional	-0.22	307.55	0.56	N
4,776	4.20	100.10	4,758.23	0.72	324.27	-1.20	1.42	Magn MWD	Phoenix Directional	-1.40	324.27	1.97	N
4,953	1.20	100.50	4,935.01	-0.75	332.47	-2.73	1.69	Magn MWD	Phoenix Directional	-1.69	332.48	0.23	N
5,131	1.10	304.30	5,113.00	-0.13	332.90	-2.11	1.26	Magn MWD	Phoenix Directional	-0.06	332.90	114.49	N
5,308	1.20	284.20	5,289.96	1.28	329.70	-0.67	0.23	Magn MWD	Phoenix Directional	0.06	329.70	-11.36	N
5,485	1.50	284.30	5,466.91	2.31	325.65	0.38	0.17	Magn MWD	Phoenix Directional	0.17	325.66	0.06	N
5,662	1.60	282.00	5,643.85	3.39	320.99	1.49	0.07	Magn MWD	Phoenix Directional	0.06	321.01	-1.30	N
5,839	1.10	306.60	5,820.80	4.92	317.21	3.04	0.43	Magn MWD	Phoenix Directional	-0.28	317.25	13.90	N
6,016	0.90	291.00	5,997.77	6.43	314.55	4.57	0.19	Magn MWD	Phoenix Directional	-0.11	314.61	-8.81	N
6,194	0.90	308.80	6,175.75	7.81	312.15	5.96	0.16	Magn MWD	Phoenix Directional	0.00	312.25	10.00	N
6,371	0.90	310.40	6,352.73	9.58	310.01	7.74	0.01	Magn MWD	Phoenix Directional	0.00	310.16	0.90	N
6,549	1.00	285.40	6,530.71	10.90	307.45	9.08	0.24	Magn MWD	Phoenix Directional	0.06	307.64	-14.04	N
6,726	0.60	265.30	6,707.69	11.23	305.04	9.42	0.27	Magn MWD	Phoenix Directional	-0.23	305.24	-11.36	N
6,904	1.00	253.50	6,885.67	10.72	302.62	8.92	0.24	Magn MWD	Phoenix Directional	0.22	302.81	-6.63	N
7,082	1.00	243.90	7,063.65	9.59	299.74	7.81	0.09	Magn MWD	Phoenix Directional	0.00	299.89	-5.39	N
7,259	1.00	257.20	7,240.62	8.57	296.84	6.81	0.13	Magn MWD	Phoenix Directional	0.00	296.97	7.51	N
7,436	0.60	239.60	7,417.60	7.76	294.54	6.01	0.26	Magn MWD	Phoenix Directional	-0.23	294.64	-9.94	N
7,614	0.30	203.40	7,595.60	6.86	293.55	5.12	0.22	Magn MWD	Phoenix Directional	-0.17	293.63	-20.34	N
7,791	0.30	210.40	7,772.59	6.03	293.13	4.30	0.02	Magn MWD	Phoenix Directional	0.00	293.19	3.95	N
7,969	0.50	212.40	7,950.59	4.98	292.48	3.24	0.11	Magn MWD	Phoenix Directional	0.11	292.52	1.12	N
8,146	0.80	210.00	8,127.58	3.26	291.45	1.53	0.17	Magn MWD	Phoenix Directional	0.17	291.46	-1.36	N
8,323	1.20	211.50	8,304.55	0.60	289.86	-1.12	0.23	Magn MWD	Phoenix Directional	0.23	289.86	0.85	N
8,500	1.20	211.80	8,481.51	-2.55	287.91	-4.26	0.00	Magn MWD	Phoenix Directional	0.00	287.93	0.17	N
8,510	1.00	214.10	8,491.51	-2.71	287.81	-4.42	2.05	Magn MWD	Phoenix Directional	-2.00	287.82	23.00	N
8,560	1.02	211.55	8,541.50	-3.45	287.33	-5.16	0.10	Magn MWD	Phoenix Directional	0.04	287.35	-5.10	N
8,648	11.65	8.37	8,628.94	4.70	288.22	2.99	14.31	Magn MWD	Baker Hughes	12.08	288.26	- 230.89	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
8,737	24.67	4.86	8,713.33	32.22	291.11	30.49	14.67	Magn MWD	Baker Hughes	14.63	292.89	-3.94	N
8,826	35.19	357.20	8,790.38	76.48	291.44	74.75	12.55	Magn MWD	Baker Hughes	11.82	301.30	395.89	N
8,914	43.82	349.40	8,858.25	131.89	284.58	130.20	11.30	Magn MWD	Baker Hughes	9.81	313.65	-8.86	N
8,959	47.48	353.20	8,889.71	163.69	279.74	162.03	10.13	Magn MWD	Baker Hughes	8.13	324.12	8.44	N
9,004	47.06	359.40	8,920.26	196.64	277.61	194.99	10.16	Magn MWD	Baker Hughes	-0.93	340.20	13.78	N
9,048	45.60	2.43	8,950.65	228.46	278.10	226.80	5.98	Magn MWD	Baker Hughes	-3.32	359.91	-	N
9,093	47.70	0.84	8,981.54	261.16	279.03	259.50	5.33	Magn MWD	Baker Hughes	4.67	382.18	-3.53	N
9,137	55.41	359.46	9,008.87	295.60	279.10	293.94	17.69	Magn MWD	Baker Hughes	17.52	406.54	815.05	N
9,181	63.10	357.75	9,031.35	333.37	278.16	331.72	17.79	Magn MWD	Baker Hughes	17.48	434.17	-3.89	N
9,226	71.03	356.18	9,048.88	374.72	275.95	373.08	17.91	Magn MWD	Baker Hughes	17.62	465.36	-3.49	N
9,270	75.36	357.35	9,061.59	416.76	273.58	415.13	10.16	Magn MWD	Baker Hughes	9.84	498.53	2.66	N
9,314	79.63	358.28	9,071.12	459.68	271.94	458.06	9.92	Magn MWD	Baker Hughes	9.70	534.09	2.11	N
9,359	87.84	358.34	9,076.03	504.35	270.62	502.74	18.24	Magn MWD	Baker Hughes	18.24	572.37	0.13	N
9,403	89.35	359.76	9,077.10	548.33	269.89	546.72	4.71	Magn MWD	Baker Hughes	3.43	611.15	3.23	N
9,447	89.32	0.51	9,077.62	592.33	270.00	590.71	1.71	Magn MWD	Baker Hughes	-0.07	650.96	-	N
9,536	89.66	1.22	9,078.41	681.31	271.34	679.69	0.88	Magn MWD	Baker Hughes	0.38	733.36	0.80	N
9,625	90.15	4.03	9,078.56	770.21	275.42	768.56	3.20	Magn MWD	Baker Hughes	0.55	817.97	3.16	N
9,714	90.43	3.01	9,078.10	859.04	280.88	857.36	1.19	Magn MWD	Baker Hughes	0.31	903.79	-1.15	N
9,802	90.74	1.69	9,077.21	946.96	284.49	945.25	1.54	Magn MWD	Baker Hughes	0.35	988.77	-1.50	N
9,892	90.25	357.78	9,076.43	1,036.94	284.07	1,035.23	4.38	Magn MWD	Baker Hughes	-0.54	1,075.14	395.66	N
9,981	90.49	357.67	9,075.85	1,125.86	280.54	1,124.18	0.30	Magn MWD	Baker Hughes	0.27	1,160.29	-0.12	N
10,069	90.25	3.69	9,075.28	1,213.82	281.58	1,212.12	6.85	Magn MWD	Baker Hughes	-0.27	1,246.05	-	N
10,158	90.59	2.48	9,074.63	1,302.68	286.37	1,300.96	1.41	Magn MWD	Baker Hughes	0.38	1,333.79	-1.36	N
10,247	90.46	3.70	9,073.82	1,391.55	291.17	1,389.80	1.38	Magn MWD	Baker Hughes	-0.15	1,421.68	1.37	N
10,336	89.66	5.54	9,073.72	1,480.25	298.34	1,478.46	2.25	Magn MWD	Baker Hughes	-0.90	1,510.02	2.07	N
10,425	89.75	2.85	9,074.18	1,569.01	304.85	1,567.17	3.02	Magn MWD	Baker Hughes	0.10	1,598.35	-3.02	N
10,513	89.78	359.49	9,074.54	1,656.97	306.65	1,655.13	3.82	Magn MWD	Baker Hughes	0.03	1,685.11	405.27	N
10,602	89.88	359.49	9,074.81	1,745.97	305.85	1,744.13	0.11	Magn MWD	Baker Hughes	0.11	1,772.56	0.00	N
10,690	89.85	1.38	9,075.01	1,833.96	306.52	1,832.11	2.15	Magn MWD	Baker Hughes	-0.03	1,859.40	-	N
10,779	89.88	1.44	9,075.22	1,922.94	308.71	1,921.07	0.08	Magn MWD	Baker Hughes	0.03	1,947.56	0.07	N



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Survey Data

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10,868	89.60	359.21	9,075.63	2,011.93	309.22	2,010.06	2.53	Magn MWD	Baker Hughes	-0.31	2,035. 55	401.99	N
10,956	89.78	358.10	9,076.10	2,099.90	307.15	2,098.04	1.28	Magn MWD	Baker Hughes	0.20	2,122. 25	-1.26	N
11,044	90.09	358.40	9,076.20	2,187.86	304.46	2,186.02	0.49	Magn MWD	Baker Hughes	0.35	2,208. 94	0.34	N
11,133	90.12	358.64	9,076.04	2,276.83	302.16	2,275.00	0.27	Magn MWD	Baker Hughes	0.03	2,296. 79	0.27	N
11,222	90.28	359.26	9,075.73	2,365.81	300.53	2,363.99	0.72	Magn MWD	Baker Hughes	0.18	2,384. 83	0.70	N
11,310	90.18	2.35	9,075.38	2,453.79	301.77	2,451.96	3.51	Magn MWD	Baker Hughes	-0.11	2,472. 28	- 405.58	N
11,399	90.00	0.79	9,075.24	2,542.76	304.21	2,540.91	1.76	Magn MWD	Baker Hughes	-0.20	2,560. 89	-1.75	N
11,487	90.03	359.74	9,075.21	2,630.76	304.62	2,628.90	1.19	Magn MWD	Baker Hughes	0.03	2,648. 33	407.90	N
11,576	90.06	358.91	9,075.14	2,719.75	303.57	2,717.90	0.93	Magn MWD	Baker Hughes	0.03	2,736. 64	-0.93	N
11,665	90.09	358.53	9,075.03	2,808.73	301.58	2,806.89	0.43	Magn MWD	Baker Hughes	0.03	2,824. 87	-0.43	N
11,754	90.06	357.75	9,074.91	2,897.68	298.69	2,895.86	0.88	Magn MWD	Baker Hughes	-0.03	2,913. 03	-0.88	N
11,842	89.97	359.01	9,074.89	2,985.64	296.20	2,983.83	1.44	Magn MWD	Baker Hughes	-0.10	3,000. 30	1.43	N
11,931	90.00	0.40	9,074.91	3,074.64	295.74	3,072.83	1.56	Magn MWD	Baker Hughes	0.03	3,088. 83	- 402.93	N
12,020	89.94	0.24	9,074.96	3,163.64	296.24	3,161.82	0.19	Magn MWD	Baker Hughes	-0.07	3,177. 48	-0.18	N
12,109	89.88	0.86	9,075.10	3,252.63	297.10	3,250.81	0.70	Magn MWD	Baker Hughes	-0.07	3,266. 17	0.70	N
12,198	90.00	2.15	9,075.19	3,341.60	299.43	3,339.76	1.46	Magn MWD	Baker Hughes	0.13	3,354. 99	1.45	N
12,286	89.91	2.45	9,075.26	3,429.53	302.96	3,427.67	0.36	Magn MWD	Baker Hughes	-0.10	3,442. 89	0.34	N
12,375	89.97	4.04	9,075.35	3,518.38	308.00	3,516.49	1.79	Magn MWD	Baker Hughes	0.07	3,531. 84	1.79	N
12,464	89.94	2.13	9,075.42	3,607.25	312.79	3,605.33	2.15	Magn MWD	Baker Hughes	0.00	3,620. 79	0.00	N
12,464	89.94	2.13	9,075.42	3,607.25	312.79	3,605.33	2.15	Magn MWD	Baker Hughes	-0.03	3,620. 79	-2.15	N
12,553	89.97	358.44	9,075.49	3,696.23	313.23	3,694.31	4.15	Magn MWD	Baker Hughes	0.00	3,709. 48	0.00	N
12,553	89.97	358.44	9,075.49	3,696.23	313.23	3,694.31	4.15	Magn MWD	Baker Hughes	0.03	3,709. 48	400.35	N
12,641	90.00	356.80	9,075.52	3,784.15	309.58	3,782.25	1.86	Magn MWD	Baker Hughes	0.03	3,796. 80	-1.86	N
12,641	90.00	356.80	9,075.52	3,784.15	309.58	3,782.25	1.86	Magn MWD	Baker Hughes	0.00	3,796. 80	0.00	N
12,730	89.97	355.00	9,075.54	3,872.92	303.22	3,871.06	2.02	Magn MWD	Baker Hughes	-0.03	3,884. 78	-2.02	N
12,730	89.97	355.00	9,075.54	3,872.92	303.22	3,871.06	2.02	Magn MWD	Baker Hughes	0.00	3,884. 78	0.00	N
12,818	89.85	354.17	9,075.68	3,960.53	294.91	3,958.71	0.95	Magn MWD	Baker Hughes	0.00	3,971. 49	0.00	N
12,818	89.85	354.17	9,075.68	3,960.53	294.91	3,958.71	0.95	Magn MWD	Baker Hughes	-0.14	3,971. 49	-0.94	N
12,908	90.00	354.39	9,075.80	4,050.08	285.94	4,048.31	0.30	Magn MWD	Baker Hughes	0.00	4,060. 16	0.00	N
12,908	90.00	354.39	9,075.80	4,050.08	285.94	4,048.31	0.30	Magn MWD	Baker Hughes	0.17	4,060. 16	0.24	N



Directional Survey

Well Name SALADO DRAW WE 14 FED P7 004H		Lease SD 14 FED P7		Field Name JENNINGS		Business Unit Mid-Continent	
Ground Elevation (ft) 3,165.00	Original RKB (ft) 3,197.60	Current RKB Elevation 3,197.60, 3/28/2016				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
12,996	89.91	355.57	9,075.86	4,137.74	278.24	4,136.02	1.34	Magn MWD	Baker Hughes	-0.10	4,147. 09	1.34	N
12,996	89.91	355.57	9,075.86	4,137.74	278.24	4,136.02	1.34	Magn MWD	Baker Hughes	0.00	4,147. 09	0.00	N
13,085	90.15	357.09	9,075.82	4,226.56	272.55	4,224.87	1.73	Magn MWD	Baker Hughes	0.27	4,235. 34	1.71	N
13,085	90.15	357.09	9,075.82	4,226.56	272.55	4,224.87	1.73	Magn MWD	Baker Hughes	0.00	4,235. 34	0.00	N
13,174	90.22	358.04	9,075.53	4,315.48	268.76	4,313.80	1.07	Magn MWD	Baker Hughes	0.00	4,323. 84	0.00	N
13,174	90.22	358.04	9,075.53	4,315.48	268.76	4,313.80	1.07	Magn MWD	Baker Hughes	0.08	4,323. 84	1.07	N
13,262	90.40	0.59	9,075.05	4,403.46	267.71	4,401.79	2.90	Magn MWD	Baker Hughes	0.00	4,411. 59	0.00	N
13,262	90.40	0.59	9,075.05	4,403.46	267.71	4,401.79	2.90	Magn MWD	Baker Hughes	0.20	4,411. 59	- 406.19	N
13,351	90.22	1.42	9,074.57	4,492.44	269.27	4,490.77	0.95	Magn MWD	Baker Hughes	-0.20	4,500. 51	0.93	N
13,351	90.22	1.42	9,074.57	4,492.44	269.27	4,490.77	0.95	Magn MWD	Baker Hughes	0.00	4,500. 51	0.00	N
13,440	90.12	0.33	9,074.31	4,581.43	270.63	4,579.75	1.23	Magn MWD	Baker Hughes	-0.11	4,589. 42	-1.22	N
13,440	90.12	0.33	9,074.31	4,581.43	270.63	4,579.75	1.23	Magn MWD	Baker Hughes	0.00	4,589. 42	0.00	N
13,529	90.37	1.19	9,073.93	4,670.42	271.81	4,668.73	1.01	Magn MWD	Baker Hughes	0.00	4,678. 33	0.00	N
13,529	90.37	1.19	9,073.93	4,670.42	271.81	4,668.73	1.01	Magn MWD	Baker Hughes	0.28	4,678. 33	0.97	N
13,617	90.09	0.10	9,073.58	4,758.42	272.80	4,756.71	1.28	Magn MWD	Baker Hughes	-0.32	4,766. 23	-1.24	N
13,706	90.22	2.52	9,073.33	4,847.39	274.84	4,845.67	2.72	Magn MWD	Baker Hughes	0.15	4,855. 17	2.72	N
13,791	90.22	3.21	9,073.01	4,932.28	279.09	4,930.53	0.81	Magn MWD	Baker Hughes	0.00	4,940. 17	0.81	N
13,806	86.92	359.66	9,073.38	4,947.26	279.46	4,945.52	32.30	Magn MWD	Baker Hughes	-22.00	4,955. 15	2,376. 33	N
13,816	90.22	3.21	9,073.63	4,957.25	279.71	4,955.51	48.46	Extrap.	Baker Hughes	33.00	4,965. 14	- 3,564. 50	N