



TEXAS BRINE COMPANY, LLC

VERTICAL SURVEY OF WELLS, MONUMENTS, LADOT NAILS, GEOPROBE WELLS AND INSAR REFLECTORS

February - July of 2013

FENSTERMAKER, LLC

JOB NO. 2139115.00C

Feature	Survey February 2013				Survey May 2013				Survey July 2013				Comparison	
	Elevation	Separation	Adjusted Elev.	Date	Elevation	Separation	Adjusted Elev.	Date	Elevation	Separation	Adjusted Elev.	Date	July 2013 to May 2013	July 2013 to Feb. 2013
OXY MON. #3	2.579			2/22/2013	2.410			5/24/2013	2.497				0.087	-0.082
OXY MON. #5	2.372			2/21/2012	2.340			5/23/2013	2.336			7/25/2013	-0.004	-0.036
OXY MON. #4	2.194			2/21/2012	2.158			5/23/2013	2.152			7/25/2013	-0.006	-0.042
OXY GEISMAR NO. 1 (HOOKER WELL #6)	10.229	0.523	9.706	2/21/2012	10.181	0.521	9.660	5/23/2013	10.198	0.531	9.667	7/26/2013	0.007	-0.039
OXY GEISMAR NO. 2 (HOOKER WELL #7)	10.307	0.758	9.549	2/21/2012	10.237	0.758	9.479	5/24/2013	10.220	0.764	9.456	7/26/2013	-0.023	-0.093
OXY GEISMAR NO. 3 (HOOKER WELL #8)	5.259	Punch Mark on Casing		2/21/2012	5.169			5/24/2013	5.134			7/26/2013	-0.035	-0.125
OXY WELL #9	7.741	0.835	6.906	2/22/2013	7.690	0.832	6.858	5/24/2013	7.675	0.834	6.841	7/26/2013	-0.017	-0.065
OXY WELL #10	10.027	0.871	9.156	2/22/2013	9.981	0.869	9.112	5/24/2013	9.972	0.871	9.101	7/26/2013	-0.011	-0.055

Elevations on wells are measured to the top flange. The Separation between valves is then measured down to top of Bradenhead valve. The Separation is subtracted from the Elevation to provide the Adjusted Elevation.



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Louisiana Department of Transportation Nails														
LADOT 500	7.051			2/20/2018	7.009			5/22/2013	7.010			07/24/2013	0.001	-0.041
LADOT 501	6.805			2/20/2017	6.757			5/22/2013	6.756			07/24/2013	-0.001	-0.049
LADOT 502	6.780			2/20/2016	6.736			5/22/2013	6.731			07/24/2013	-0.005	-0.049
LADOT 503	6.866			2/20/2015	6.833			5/22/2013	6.831			07/24/2013	-0.002	-0.035
LADOT 504	6.824			2/20/2014	6.799			5/22/2013	6.785			07/24/2013	-0.014	-0.039
LADOT 505	6.426			2/20/2013	6.373			5/22/2013	6.368			07/24/2013	-0.005	-0.058
LADOT 506	6.679			2/20/2012	6.642			5/21/2013	6.638			07/24/2013	-0.004	-0.041
LADOT 507	6.482			2/19/2013	6.446			5/21/2013	6.439			07/23/2013	-0.007	-0.043
LADOT 511 (Add. Nail Found)	6.544			2/20/2012	6.508			5/22/2013	6.504			07/24/2013	-0.004	-0.040
LADOT 513	6.149			2/19/2013	6.112			5/21/2013	6.111			07/23/2013	-0.001	-0.038
LADOT 514	6.526			2/19/2013	6.505			5/21/2013	6.498			07/23/2013	-0.007	-0.028
LADOT 515	5.833			2/19/2013	5.804			5/21/2013	5.804			07/23/2013	0.000	-0.029
LADOT 516	6.049			2/19/2013	6.02			5/21/2013	6.012			07/23/2013	-0.008	-0.037
LADOT 517	7.464			2/19/2013	7.443			5/21/2013	7.418			07/23/2013	-0.025	-0.046
LADOT 518 (Add. Nail Found)	8.082			2/19/2013	8.054			5/21/2013	8.054			07/23/2013	0.000	-0.028
LADOT 519	7.655			2/19/2013	7.626			5/21/2013	7.628			07/23/2013	0.002	-0.027
LADOT 520	6.502			2/19/2013	6.470			5/21/2013	6.475			07/23/2013	0.005	-0.027
LADOT 521	7.279			2/20/2012	7.238			5/22/2013	7.247			07/24/2013	0.009	-0.032
LADOT 522	7.278			2/21/2012	7.244			5/22/2013	7.255			07/24/2013	0.011	-0.023
LADOT 523	9.546			2/21/2012	9.513			5/23/2013	9.524			07/25/2014	0.011	-0.022
LADOT 524	7.668			2/21/2012	7.635			5/23/2013	7.650			07/25/2015	0.015	-0.018
LADOT 525 (Add. Nail Found)	7.618			2/21/2012	7.581			5/23/2013	7.596			07/25/2016	0.015	-0.022
LADOT 526	8.707			2/21/2012	8.672			5/23/2013	8.682			07/25/2017	0.010	-0.025



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RESPEC Geoprobe Wells														
GP-1	3.737	0.358	3.379	2/25/2012	3.706	0.350	3.356	5/23/2013	3.710	0.360	3.350	07/26/2017	-0.006	-0.029
GP-2	4.499	0.418	4.081	2/25/2012	4.465	0.392	4.073	5/23/2013	4.488	0.400	4.088	07/26/2017	0.015	0.007
GP-3	5.032	0.390	4.642	2/26/2013	4.988	0.425	4.563	5/24/2013	4.991	0.406	4.585	07/26/2017	0.022	-0.057
GP-4	4.500	0.372	4.128	2/25/2012	4.468	0.365	4.103	5/24/2013	4.479	0.385	4.094	07/26/2017	-0.009	-0.034
GP-5	4.949	0.391	4.558	2/22/2013	4.918	0.378	4.540	5/24/2013	4.922	0.375	4.547	07/29/2018	0.007	-0.011
GP-6	5.622	0.351	5.271	2/22/2013	5.586	0.380	5.206	5/23/2013	5.604	0.382	5.222	7/25/2013	0.016	-0.049
BM-5 (Monument)	4.979		4.979	2/27/2013	5.024	0.065	4.959	5/24/2013	4.960	0.065	4.895	07/29/2018	-0.064	-0.084
Shaw Group Geoprobe Wells														
NSDMW001	4.022	0.351	3.671	2/22/2013	4.106	0.470	3.636	5/28/2013	4.108	0.470	3.638	7/25/2013	0.002	-0.033
NSDMW002	4.666	0.382	4.284	2/22/2013	4.805	0.550	4.255	5/28/2013	4.800	0.540	4.260	7/25/2013	0.005	-0.024
NSDMW003	4.367	0.348	4.019	2/21/2013	4.606	0.610	3.996	5/28/2013	4.617	0.612	4.005	7/25/2013	0.009	-0.014
NSDMW004	3.328	0.382	2.946	2/22/2013	3.406	0.485	2.921	5/23/2013	3.418	0.480	2.938	7/25/2013	0.017	-0.008
NSDMW005	2.914	0.428	2.486	2/21/2013	3.090	0.620	2.470	5/28/2013	3.098	0.612	2.486	7/25/2013	0.016	0.000
NSDMW006	3.185	0.432	2.753	2/22/2013	3.326	0.550	2.776	5/28/2013	3.326	0.548	2.778	7/25/2013	0.002	0.025
NSDMW007	4.012	0.572	3.440	2/26/2012	3.957	0.580	3.377	5/28/2013	3.961	0.569	3.392	7/29/2013	0.015	-0.048
NSDMW008	3.857	0.620	3.237	2/26/2012	3.807	0.620	3.187	5/28/2013	3.809	0.618	3.191	7/29/2013	0.004	-0.046
NSDMW009	4.462	0.456	4.006	2/26/2012	4.434	0.490	3.944	5/28/2013	4.440	0.480	3.96	7/29/2013	0.016	-0.046
NSDMW010	4.185	0.662	3.523	2/26/2012	4.153	0.660	3.493	5/28/2013	4.154	0.675	3.479	7/29/2013	-0.014	-0.044
NSDMW011	2.563	0.661	1.902	2/27/2012	2.529	0.620	1.909	5/29/2013	2.543	0.630	1.913	7/24/2013	0.004	0.011
NSDMW012	2.769	0.681	2.088	2/27/2012	2.734	0.610	2.124	5/29/2013	2.749	0.540	2.209	7/24/2013	0.085	0.121
NSDMW013	4.130	0.618	3.512	2/26/2012	4.107	0.610	3.497	5/29/2013	4.099	0.535	3.564	7/24/2013	0.067	0.052
NSDMW014	3.708	0.579	3.129	2/26/2012	3.679	0.570	3.109	5/29/2013	3.679	0.510	3.169	7/24/2013	0.060	0.040
NSDMW015	4.291	0.432	3.859	2/25/2012	4.465	0.605	3.860	5/24/2013	4.470	0.530	3.94	7/29/2013	0.080	0.081
NSDMW016	5.246	0.448	4.798	2/25/2012	5.287	0.500	4.787	5/24/2013	5.291	0.502	4.789	7/29/2013	0.002	-0.009
NSDMW017	4.329	0.700	3.629	2/26/2012	4.295	0.680	3.615	5/24/2013	4.297	0.690	3.607	07/26/2017	-0.008	-0.022

Elevations on Geoprobe wells are to the top of the valve or bull plug. Separations is measured from the valve or bull plug to the top of the PVC Casing. The Separation is subtracted from the Elevation to provide an Adjusted Elevation.



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Additional Relief Wells														
ORW 12	8.058			2/25/2013	Behind Barricades			5/23/2013	Plugged & Abandon				X	X
NSDORW001	7.794			2/26/2013	7.766			5/28/2013	7.760			7/29/2013	-0.006	-0.034
NSDORW002	8.320			2/26/2013	8.279			5/28/2013	8.283			7/29/2013	0.004	-0.037
NSDORW003	7.329			2/21/2013	7.298			5/28/2013	6.726			7/25/2013	-0.572	-0.603
NSDORW015	7.318			2/26/2013	7.28			5/28/2013	7.282			7/29/2013	0.002	-0.036
NSDORW022	Wells were not drilled or Functioning				8.687	0.167	8.52	5/24/2013	8.706	0.168	8.538	7/29/2013	0.018	X
NSDORW023					8.281	0.173	8.108	5/24/2013	8.312	0.173	8.139	7/29/2013	0.031	X
NSDORW024					9.064	0.172	8.892	5/24/2013	9.084	0.173	8.911	7/29/2013	0.019	X
TBC No. 2 Relief Well					6.225			2/25/2013	Behind Barricades			5/23/2013	Well is being worked over	
Miller and Associates Points														
TBM 30 (Rebar)	3.832			2/21/2013	Destroyed			5/23/2013	Destroyed				X	X
BASE POINT A (Rebar)	6.629			2/22/2013	6.579			5/24/2013	6.571			7/26/2013	-0.008	-0.058
REFERENCE POINT A (Iron Pipe)	5.801			2/22/2013	5.752			5/24/2013	5.744			7/26/2013	-0.008	-0.057
Transducer Elevations (Top of PVC)														
Transducer Pad 3 Dome Elevation	5.208			2/21/2013	5.063			5/23/2013	4.999			7/26/2013	-0.064	-0.209
Transducer Pad 3 NAVD 88 Geoid 12	4.177			2/25/2013	X									
InSAR Reflectors Land Based														
AR-1	6.056	7.940	13.996	2/27/2013	6.021	7.940	13.961	5/23/2013	Destroyed				X	X
AR-6	4.786	6.605	11.391	2/21/2013	4.724	6.561	11.285	5/23/2013	4.709	6.555	11.264	7/26/2013	-0.021	-0.127
AR-7	4.924	6.520	11.444	2/21/2013	4.863	6.520	11.383	5/23/2013	4.848	6.538	11.386	7/26/2013	0.003	-0.058
AR-8	5.319	7.170	12.489	2/21/2013	5.264	7.187	12.451	5/23/2013	5.250	7.185	12.435	7/26/2013	-0.016	-0.054
AR-10					5.843	9.920	15.763	5/29/2013	5.800	9.955	15.755	7/26/2013	-0.008	X
AR-13	5.980	9.945	15.925	2/21/2013	5.82	9.920	15.74	5/29/2013					X	X
AR-17	4.841	5.422	10.263	2/22/2013	4.793	5.430	10.223	5/24/2013	4.783	5.428	10.211	7/26/2013	-0.012	-0.052
AR-19	3.560	6.443	10.003	2/22/2013	3.514	6.444	9.958	5/24/2013	3.508	6.450	9.958	7/26/2013	0.000	-0.045
AR-20	5.789	10.290	16.079	2/21/2013	5.538	10.325	15.863	5/23/2013	5.411	10.325	15.736	7/26/2013	-0.127	-0.343

Elevations are to a rod placed at the base of the reflectors. The Separation is then measured up to the top base of the reflector. The Separation is then added to the Elevation to determine Adjusted Elevation.