



LEAM Drilling Systems, LLC. 2027A Airport Rd., Conroe, TX 77301

Survey Report

MINIMUM CURVATURE CALCULATION

Operator: EOG Resources
Well Name: Hearn's 27 State Com #703H
Location: Lea County, NM
Start Date: 3/29/2015
End Date: 4/19/2015
Direction: 181.83°

HOBBS OCD

AUG 19 2015

RECEIVED

Survey Number	MD ft	INC °	AZM °	TVD ft	N-S ft	E-W ft	SECT ft	DLS °/100'
TIE IN	0	0	0	0	0	0	0	0
1	164	0.70	175.30	164.00	-1.00	0.08	1.00	0.43
2	314	1.00	173.20	313.98	-3.21	0.31	3.20	0.20
3	495	1.30	174.60	494.94	-6.82	0.69	6.80	0.17
4	674	1.30	174.20	673.90	-10.87	1.09	10.83	0.01
5	857	1.40	172.30	856.85	-15.15	1.60	15.09	0.06
6	1036	0.40	232.80	1035.82	-17.69	1.39	17.64	0.70
7	1226	0.40	307.60	1225.82	-17.69	0.34	17.67	0.26
8	1423	0.40	246.80	1422.82	-17.54	-0.84	17.56	0.21
9	1613	1.80	320.30	1612.78	-15.50	-3.35	15.60	0.91
10	1803	2.10	331.20	1802.67	-10.16	-6.94	10.37	0.25
11	1993	2.10	330.00	1992.54	-4.09	-10.35	4.42	0.02
12	2184	2.60	346.00	2183.39	3.14	-13.15	-2.72	0.43
13	2373	2.50	351.40	2372.20	11.38	-14.81	-10.90	0.14
14	2563	2.60	313.30	2562.02	18.43	-18.56	-17.83	0.88
15	2751	3.10	338.90	2749.80	26.10	-23.50	-25.33	0.72
16	2941	2.90	336.10	2939.54	35.29	-27.29	-34.40	0.13
17	3130	1.90	35.70	3128.40	42.20	-27.40	-41.31	1.34
18	3319	2.20	14.10	3317.28	48.26	-24.69	-47.45	0.44
19	3509	3.30	333.00	3507.07	56.68	-26.28	-55.81	1.15
20	3699	1.80	219.40	3696.96	59.24	-30.66	-58.23	2.29
21	3890	1.40	221.50	3887.88	55.18	-34.11	-54.06	0.21
22	4080	1.00	220.30	4077.84	52.17	-36.72	-50.98	0.21
23	4270	0.80	275.10	4267.82	51.03	-39.12	-49.75	0.45
24	4460	0.50	238.20	4457.81	50.71	-41.14	-49.37	0.26
25	4650	1.00	251.20	4647.79	49.74	-43.42	-48.33	0.28
26	4839	3.30	152.30	4836.68	44.39	-42.45	-43.01	1.90
27	5029	1.30	163.50	5026.52	37.48	-39.29	-36.21	1.07
28	5219	2.60	277.90	5216.45	36.00	-42.95	-34.61	1.76
29	5409	2.60	274.10	5406.26	36.91	-51.52	-35.24	0.09
30	5598	2.70	284.10	5595.06	38.30	-60.11	-36.36	0.25

AUG 31 2015

31	5787	2.70	281.60	5783.85	40.28	-68.79	-38.06	0.06
32	5977	2.60	275.60	5973.65	41.60	-77.46	-39.10	0.16
33	6168	2.40	269.80	6164.46	42.00	-85.77	-39.24	0.17
34	6358	2.50	270.60	6354.29	42.03	-93.89	-39.01	0.06
35	6549	2.60	268.10	6545.10	41.93	-102.39	-38.64	0.08
36	6739	2.70	271.80	6734.90	41.93	-111.17	-38.36	0.10
37	6929	2.80	267.20	6924.68	41.85	-120.28	-37.98	0.13
38	7118	2.40	258.10	7113.49	40.80	-128.76	-36.67	0.30
39	7308	2.00	260.90	7303.34	39.46	-135.93	-35.10	0.22
40	7499	2.40	254.20	7494.20	37.84	-143.07	-33.26	0.25
41	7688	0.40	186.40	7683.14	36.11	-146.95	-31.40	1.21
42	7878	0.40	173.00	7873.14	34.79	-146.94	-30.08	0.05
43	8068	1.00	181.10	8063.12	32.48	-146.89	-27.77	0.32
44	8257	1.20	190.20	8252.09	28.88	-147.27	-24.16	0.14
45	8444	1.10	188.50	8439.05	25.18	-147.89	-20.44	0.06
46	8634	0.90	214.80	8629.02	22.15	-149.01	-17.38	0.26
47	8824	1.10	208.10	8818.99	19.31	-150.72	-14.49	0.12
48	9014	1.10	208.30	9008.96	16.10	-152.44	-11.22	0.00
49	9204	0.80	228.50	9198.93	13.62	-154.30	-8.68	0.23
50	9393	1.10	271.30	9387.91	12.78	-157.10	-7.76	0.40
51	9584	0.90	216.80	9578.88	11.62	-159.83	-6.51	0.49
52	9774	0.50	189.50	9768.87	9.61	-160.86	-4.47	0.27
53	9965	0.70	290.10	9959.86	9.19	-162.10	-4.01	0.49
54	10155	1.60	270.00	10149.82	9.59	-165.84	-4.29	0.51
55	10345	1.70	275.10	10339.75	9.84	-171.30	-4.36	0.09
56	10535	0.70	291.30	10529.70	10.51	-175.19	-4.91	0.55
57	10725	1.20	285.70	10719.68	11.47	-178.18	-5.77	0.27
58	10818	1.30	269.50	10812.65	11.73	-180.18	-5.97	0.39
59	10924	1.10	295.00	10918.63	12.14	-182.30	-6.32	0.53
60	11113	1.70	293.80	11107.57	14.04	-186.51	-8.08	0.32
61	11303	1.00	2.10	11297.53	16.84	-189.03	-10.79	0.85
62	11493	0.80	346.80	11487.51	19.79	-189.27	-13.73	0.16
63	11683	1.90	305.70	11677.45	22.91	-192.13	-16.77	0.74
64	11863	1.60	271.30	11857.38	24.71	-197.07	-18.41	0.60
65	11920	1.50	281.30	11914.35	24.88	-198.59	-18.52	0.51
66	11967	3.70	193.90	11961.32	23.53	-199.56	-17.14	8.36
67	12015	10.90	191.50	12008.90	17.57	-200.84	-11.14	15.01
68	12064	14.50	191.50	12056.69	7.01	-202.99	-0.53	7.35
69	12091	15.80	183.00	12082.75	0.03	-203.86	6.48	9.52
70	12158	16.10	177.70	12147.18	-18.36	-203.96	24.87	2.22
71	12185	13.80	174.40	12173.26	-25.31	-203.50	31.80	9.08
72	12233	17.60	172.50	12219.46	-38.21	-201.99	44.64	7.99
73	12280	25.50	175.10	12263.14	-55.36	-200.19	61.73	16.93
74	12329	35.30	177.60	12305.36	-80.08	-198.70	86.38	20.16
75	12376	42.70	178.40	12341.86	-109.62	-197.68	115.87	15.78
76	12423	52.10	177.60	12373.64	-144.15	-196.46	150.35	20.04
77	12470	57.50	178.40	12400.72	-182.52	-195.13	188.66	11.57
78	12517	58.90	179.10	12425.49	-222.45	-194.26	228.54	3.24
79	12565	64.20	180.90	12448.35	-264.64	-194.27	270.71	11.52

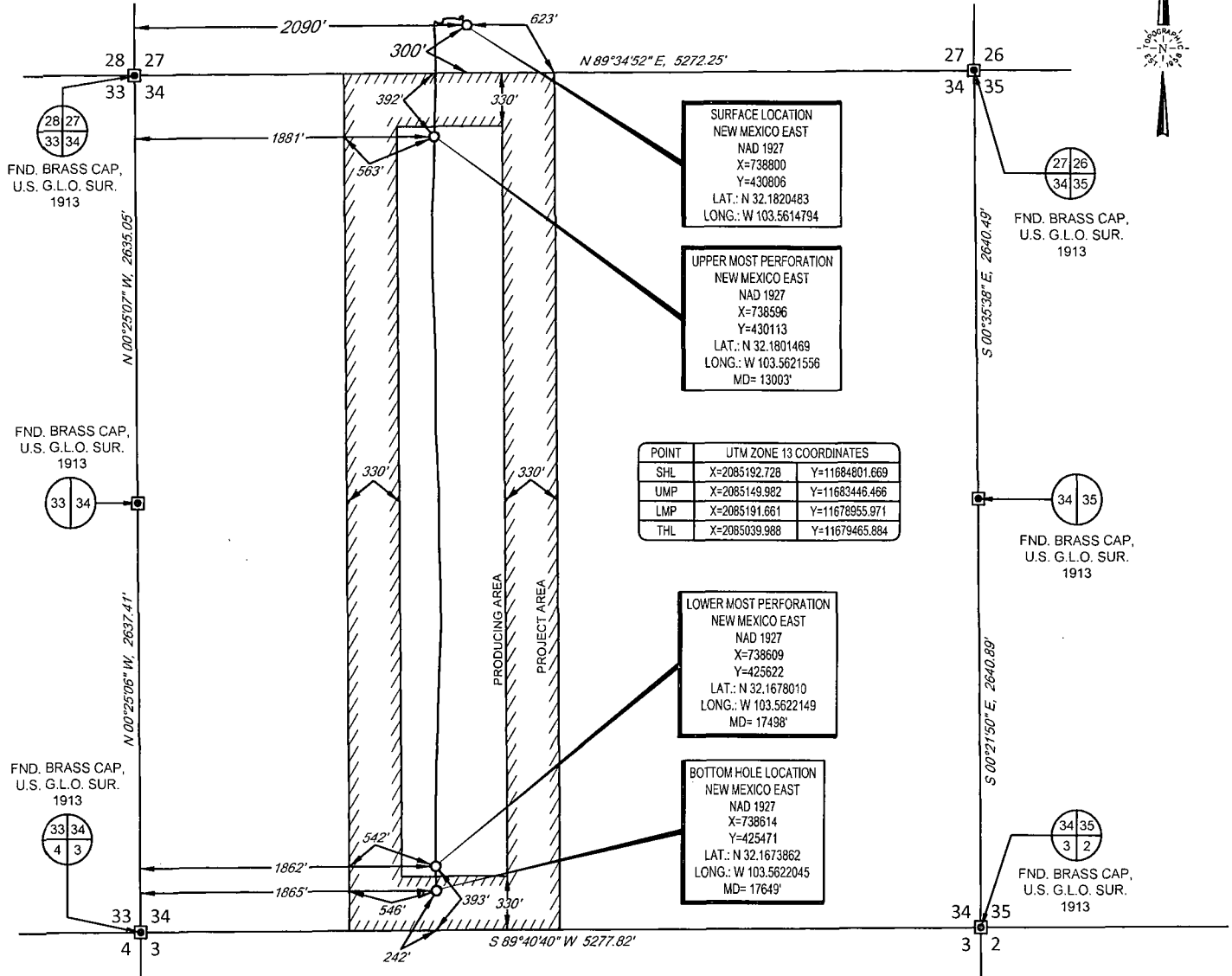
80	12612	69.20	181.40	12466.93	-307.78	-195.14	313.86	10.68
81	12661	73.20	180.90	12482.72	-354.15	-196.07	360.23	8.22
82	12708	76.20	181.10	12495.12	-399.47	-196.86	405.55	6.40
83	12756	79.20	181.80	12505.34	-446.35	-198.05	452.45	6.41
84	12791	82.30	182.80	12510.97	-480.86	-199.44	486.99	9.30
85	12850	90.00	180.20	12514.93	-539.66	-200.97	545.80	13.77
86	12882	89.90	181.80	12514.96	-571.65	-201.53	577.80	5.01
87	12976	88.80	181.40	12516.02	-665.61	-204.16	671.79	1.25
88	13071	88.00	179.00	12518.68	-760.56	-204.49	766.71	2.66
89	13166	87.70	179.50	12522.24	-855.49	-203.24	861.54	0.61
90	13261	91.40	183.20	12522.99	-950.43	-205.48	956.50	5.51
91	13356	91.30	182.70	12520.75	-1045.27	-210.37	1051.46	0.54
92	13452	90.70	181.30	12519.07	-1141.20	-213.72	1147.44	1.59
93	13546	89.50	180.70	12518.91	-1235.18	-215.36	1241.43	1.43
94	13641	88.10	179.70	12520.90	-1330.16	-215.69	1336.37	1.81
95	13736	89.60	179.80	12522.80	-1425.13	-215.28	1431.28	1.58
96	13831	90.50	179.10	12522.72	-1520.13	-214.37	1526.20	1.20
97	13926	87.90	176.90	12524.05	-1615.05	-211.05	1620.96	3.58
98	14020	87.70	176.30	12527.66	-1708.81	-205.48	1714.50	0.67
99	14115	87.70	177.40	12531.47	-1803.59	-200.27	1809.07	1.16
100	14211	89.00	178.40	12534.23	-1899.48	-196.75	1904.80	1.71
101	14306	87.80	179.70	12536.89	-1994.43	-195.17	1999.64	1.86
102	14401	87.60	179.30	12540.70	-2089.35	-194.35	2094.49	0.47
103	14496	90.10	181.30	12542.60	-2184.32	-194.84	2189.42	3.37
104	14591	89.70	179.50	12542.77	-2279.31	-195.51	2284.39	1.94
105	14686	90.00	179.50	12543.02	-2374.30	-194.68	2379.31	0.32
106	14781	90.00	178.10	12543.02	-2469.28	-192.69	2474.18	1.47
107	14876	88.40	175.50	12544.35	-2564.11	-187.39	2568.79	3.21
108	14971	88.20	177.20	12547.16	-2658.87	-181.34	2663.31	1.80
109	15066	87.10	178.40	12551.06	-2753.72	-177.70	2757.99	1.71
110	15162	90.00	179.80	12553.49	-2849.67	-176.19	2853.84	3.35
111	15257	88.20	178.30	12554.98	-2944.64	-174.62	2948.71	2.47
112	15352	90.20	180.60	12556.31	-3039.61	-173.71	3043.61	3.21
113	15447	91.50	179.80	12554.90	-3134.60	-174.04	3138.56	1.61
114	15542	88.80	176.70	12554.65	-3229.53	-171.14	3233.35	4.33
115	15636	87.10	177.00	12558.01	-3323.33	-165.98	3326.93	1.84
116	15732	93.30	179.30	12557.68	-3419.22	-162.88	3422.68	6.89
117	15826	92.40	179.10	12553.00	-3513.10	-161.57	3516.46	0.98
118	15921	91.10	179.50	12550.10	-3608.04	-160.41	3611.32	1.43
119	16016	86.80	180.60	12551.84	-3703.00	-160.49	3706.24	4.67
120	16111	88.50	182.80	12555.74	-3797.87	-163.31	3801.15	2.93
121	16206	89.10	182.30	12557.73	-3892.76	-167.53	3896.12	0.82
122	16301	87.50	181.60	12560.55	-3987.65	-170.76	3991.07	1.84
123	16396	88.30	181.10	12564.03	-4082.56	-173.00	4086.01	0.99
124	16491	89.30	181.40	12566.02	-4177.52	-175.07	4180.98	1.10
125	16586	86.50	180.20	12569.50	-4272.43	-176.40	4275.89	3.21
126	16681	89.30	182.70	12572.98	-4367.32	-178.80	4370.81	3.95
127	16776	93.90	184.10	12570.33	-4462.09	-184.43	4465.71	5.06
128	16871	91.30	180.70	12566.02	-4556.89	-188.40	4560.58	4.50

129	16966	89.00	180.90	12565.77	-4651.87	-189.73	4655.56	2.43
130	17062	86.70	180.40	12569.37	-4747.79	-190.82	4751.46	2.45
131	17156	90.70	181.10	12571.50	-4841.74	-192.05	4845.40	4.32
132	17251	92.00	180.40	12569.26	-4936.70	-193.29	4940.36	1.55
133	17347	90.90	178.10	12566.83	-5032.66	-192.03	5036.22	2.66
134	17442	93.90	180.60	12562.86	-5127.55	-190.95	5131.03	4.11
135	17537	89.90	178.30	12559.71	-5222.47	-190.04	5225.87	4.86
136	17591	90.40	177.90	12559.56	-5276.44	-188.25	5279.76	1.19
PTB	17650	90.40	177.90	12559.15	-5335.39	-186.09	5338.62	0.00

SCALE: 1" = 1000'

0' 500' 1000'

SECTION 27, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

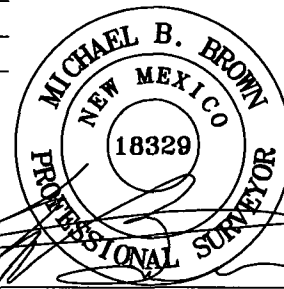


LEASE NAME & WELL NO.: HEARNS 27 STATE COM #703H
SECTION 27 TWP 24-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM ELEVATION 3488'
DESCRIPTION 300' FSL & 2090' FWL



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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Michael Blake Brown, P.S. No. 18329
JULY 17, 2015

HEARNS 27 STATE COM #703H AS-COMPLETED	REVISION:	
	INT	DATE
DATE: 07/17/15		
FILE: AD_HEARNS27STATECOM_703H		
DRAWN BY: S.V.		
SHEET: 1 OF 1		

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO STATE PLANE COORDINATE SYSTEM, EAST ZONE, U.S. SURVEY FEET, NORTH AMERICAN DATUM 1927.
3. CERTIFICATION IS MADE ONLY TO THE LOCATION OF THIS EASEMENT, IN RELATION TO THE EVIDENCE FOUND DURING A FIELD SURVEY. MADE ON THE GROUND, UNDER MY SUPERVISION, AND USING DOCUMENTATION PROVIDED BY EOG RESOURCES, INC. ONLY UTILITIES/EASEMENTS THAT WERE VISIBLE ON THE DATE OF THIS SURVEY, WITHIN/ADJOINING THIS EASEMENT, HAVE BEEN LOCATED AS SHOWN HEREON OF WHICH I HAVE KNOWLEDGE. THIS CERTIFICATION IS LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE, AND MADE FOR THIS TRANSACTION ONLY.