

Results of Directional Survey

API number:	30-025-40419		
OGRID:		Operator:	EOG RESOURCES INC
		Property:	PITCHBLEND 29 FEDERAL COM # 1H

surface	ULSTR:	P	29	T	25S	R	34E
				330	FSL	430	FEL

BH Loc	ULSTR:	A	20	T	25S	R	34E
19230	MD	9501.9	TVD	388	FNL	528	FEL
				10172	FSL		

Top Perf/OH	ULSTR:	P	29	T	25S	R	34E
10000	MD	9605.7	TVD	952	FSL	422	FEL

Bot Perf/OH	ULSTR:	A	20	T	25S	R	34E
19180	MD	9504.3	TVD	438	FNL	527	FEL
				10122	FSL		

	MD	N/S	E/W	VD
	9980	602.25	8.45	9604.59
TOP PERFS/OH	10000	622.22	8.20	9605.70
	10011	633.20	8.06	9606.31
	19156	9768.50	-96.27	9505.48
BOT PERFS/OH	19180	9792.46	-96.95	9504.32
	19230	9842.38	-98.36	9501.91

NEXT TO LAST	19156	9768.50	-96.27	9505.48
LAST READING	19230	9842.38	-98.36	9501.91
TD	19230	9842.38	-98.36	9501.91

Surface Location	330	FS	430	FE
Projected BHL	10172	FS	528	FE
Location of				
Top Perfs/OH	952	FS	422	FE
Bottom Perfs/OH	10122	FS	527	FE

SUMMARY of Subsurface Locations

Surface Location	P-29-25S-34E	330	FS	430	FE	Vert. Depth
Top Perfs/OH	P-29-25S-34E	952	FS	422	FE	9605.70
Bottom Perfs/OH	A-20-25S-34E	10122	FS	527	FE	9504.32
Projected TD	A-20-25S-34E	10172	FS	528	FE	9501.91

JUL 18 2012



SUR: P-29-25s-34e, 330/S & 430/E
 BHL: A-20-25s-34e, 10172/S & 528/E
 API # 30-025-40419



EOG Pitchblende 29 Fed. Com. 1H ST01 MWD 0ft to 19230ft MD

(Def Survey)

Report Date:	May 08, 2012 - 09 19 AM	Survey / DLS Computation:	Minimum Curvature / Lubinski
Client:	Eog Resources	Vertical Section Azimuth:	359 490 ° (Grnd North)
Field:	NM Lea County (NAD 27)	Vertical Section Origin	0 000 ft, 0 000 ft
Structure / Slot:	Cactus 123 / EOG Pitchblende 29 Fed Com 1H	TVD Reference Datum:	RKB
Well:	EOG Pitchblende 29 Fed Com 1H	TVD Reference Elevation:	3351 200 ft above
Borehole:	ST01	Seabed / Ground Elevation:	3321 200 ft above
UWI / API#:	Unknown / Unknown	Magnetic Declination:	7 509 °
Survey Name:	EOG Pitchblende 29 Fed Com 1H ST01 MWD 0ft to 19230ft MD	Total Field Strength:	48468 822 nT
Survey Date:	April 18, 2012	Magnetic Dip Angle:	60 023 °
Tort / AHD / DDI / ERD Ratio:	211 124 ° / 10027 312 ft / 6 627 / 1 044	Declination Date:	April 18, 2012
Coordinate Reference System:	NAD27 New Mexico State Plane, Eastern Zone, US Feet	Magnetic Declination Model:	BGGM 2011
Location Lat / Long:	N 32° 5' 42.06799", W 103° 29' 3.57372"	North Reference:	Grnd North
Location Grid N/E Y/X:	N 399326 400 ftUS, E 762920 200 ftUS	Grid Convergence Used:	0 451 °
CRS Grid Convergence Angle:	0 45112279 °	Total Corr Mag North->Grnd North:	7 058 °
Grid Scale Factor:	0 99998827	Local Coord Referenced To:	Structure Reference Point

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
SHL Pitchblende 29 Fed Com #1H	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	N/A	216 05M
	100 00	0 25	216 05	100 00	-0 18	-0 18	-0 13	0 22	216 05	0 25	101 4M
	200 00	0 75	101 40	200 00	-0 49	-0 48	0 38	0 62	141 41	0 88	103 75M
	300 00	1 00	103 75	299 99	-0 84	-0 82	1 87	2 05	113 60	0 25	109 09M
	400 00	0 75	109 09	399 97	-1 27	-1 24	3 34	3 56	110 37	0 26	73 39M
	500 00	1 00	73 39	499 96	-1 25	-1 20	4 79	4 94	104 11	0 59	60 85M
	600 00	0 75	60 85	599 95	-0 69	-0 64	6 20	6 24	95 86	0 31	87 15M
	700 00	0 75	87 15	699 94	-0 35	-0 29	7 43	7 43	92 20	0 34	116 5M
	800 00	0 75	116 50	799 93	-0 62	-0 54	8 67	8 68	93 60	0 38	168 89M
Last Gyro Survey	840 00	0 75	168 89	839 93	-1 00	-0 92	8 95	9 00	95 86	1 66	110 6M
	918 00	0 30	110 60	917 93	-1 57	-1 49	9 24	9 36	99 17	0 83	98 6M
	1102 00	0 40	98 60	1101 92	-1 85	-1 76	10 33	10 48	99 65	0 07	89 3M
	1287 00	0 80	89 30	1286 91	-1 95	-1 84	12 26	12 39	98 53	0 22	99 4M
	1471 00	0 70	99 40	1470 90	-2 14	-2 01	14 65	14 79	97 79	0 09	165 5M
	1659 00	0 90	165 50	1658 88	-3 77	-3 62	16 15	16 55	102 64	0 47	166 4M
	1849 00	1 60	166 40	1848 84	-7 80	-7 65	17 15	18 78	114 03	0 37	137 2M
	2039 00	0 60	137 20	2038 80	-11 12	-10 95	18 45	21 46	120 70	0 59	110 6M
	2229 00	0 90	110 60	2228 79	-12 39	-12 21	20 52	23 88	120 75	0 24	120 5M
	2419 00	0 80	120 50	2418 76	-13 61	-13 41	23 06	26 68	120 17	0 09	106 2M
	2610 00	1 20	106 20	2609 74	-14 87	-14 64	26 13	29 95	119 26	0 25	54 1M
	2799 00	1 50	54 10	2798 69	-14 01	-13 74	30 04	33 03	114 59	0 64	58 6M
	2990 00	0 90	58 60	2989 65	-11 79	-11 50	33 34	35 27	109 02	0 32	39 4M
	3180 00	1 50	39 40	3179 60	-9 12	-8 80	36 19	37 25	103 66	0 38	19 7M
	3370 00	1 30	19 70	3369 55	-5 19	-4 85	38 50	38 80	97 17	0 27	16M
	3560 00	1 10	16 00	3559 51	-1 42	-1 06	39 73	39 74	91 53	0 11	1 5M
	3749 00	0 70	1 50	3748 48	1 48	1 83	40 26	40 30	87 39	0 24	350 4M
	3939 00	1 60	350 40	3938 44	5 26	5 61	39 85	40 24	81 99	0 49	56 6M
	4128 00	0 70	56 60	4127 41	8 49	8 85	40 37	41 33	77 64	0 78	321 1M
	4319 00	0 70	321 10	4318 40	10 04	10 40	40 61	41 92	75 64	0 54	306 9M
	4509 00	1 50	306 90	4508 36	12 46	12 79	37 89	40 00	71 34	0 44	88 7M
	4698 00	1 60	88 70	4697 34	14 00	14 34	38 55	41 13	69 60	1 55	113 7M
	4887 00	1 80	113 70	4886 26	12 82	13 21	43 91	45 85	73 26	0 40	117 9M
	5077 00	1 00	117 90	5076 20	10 80	11 23	48 11	49 40	76 86	0 42	132 5M
	5115 00	0 70	132 50	5114 19	10 49	10 92	48 57	49 78	77 33	0 97	125 4M
	5265 00	0 50	125 40	5264 19	9 48	9 92	49 78	50 76	78 73	0 14	246 5M
	5455 00	1 00	246 50	5454 18	8 34	8 78	48 94	49 72	79 83	0 70	238 3M
	5645 00	1 00	238 30	5644 15	6 84	7 25	46 01	46 57	81 05	0 08	210 5M
	5836 00	1 10	210 50	5835 12	4 40	4 79	43 66	43 92	83 74	0 27	234 7M
	6026 00	0 90	234 70	6025 09	1 99	2 36	41 51	41 58	86 75	0 24	215 8M
	6213 00	1 30	215 80	6212 05	-0 56	-0 21	39 07	39 07	90 31	0 29	213 2M
	6403 00	1 30	213 20	6402 00	-4 09	-3 76	36 63	36 83	95 86	0 03	207 2M
	6594 00	1 50	207 20	6592 95	-8 10	-7 80	34 30	35 18	102 81	0 13	232 6M
	6784 00	1 10	232 60	6782 90	-11 40	-11 12	31 72	33 61	109 32	0 36	250 1M
	6975 00	0 80	250 10	6973 87	-12 94	-12 69	29 01	31 66	113 62	0 22	246 8M
	7165 00	0 70	246 80	7163 86	-13 83	-13 59	26 69	29 96	116 99	0 06	225 5M
	7355 00	1 10	225 50	7353 83	-15 55	-15 33	24 33	28 75	122 22	0 27	208 2M
	7545 00	1 40	208 20	7543 79	-18 85	-18 65	21 93	28 79	130 39	0 25	277 7M
	7735 00	1 30	277 70	7733 75	-20 58	-20 41	18 70	27 68	137 51	0 81	274 3M
	7924 00	1 10	274 30	7922 71	-20 12	-19 99	14 76	24 85	143 55	0 11	238M
	8113 00	0 60	238 00	8111 69	-20 48	-20 38	12 11	23 71	149 27	0 38	168 6M
	8303 00	0 60	168 60	8301 68	-21 98	-21 88	11 47	24 70	152 34	0 36	132 6M
	8491 00	0 50	132 60	8489 67	-23 51	-23 40	12 27	26 42	152 34	0 19	164 3M

Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
Tie-In ST01	8682 00	0 40	164 30	8680 66	-24 72	-24 60	13 06	27 86	152 04	0 14	159 1M
	8873 00	0 90	159 10	8871 65	-26 77	-26 65	13 77	30 00	152 66	0 26	149 49M
	8939 00	0 97	149 49	8937 64	-27 74	-27 61	14 24	31 07	152 71	0 26	164 53M
	9004 00	0 90	164 53	9002 63	-28 71	-28 58	14 66	32 12	152 85	0 39	164 89M
	9034 00	0 74	164 89	9032 63	-29 12	-28 99	14 77	32 54	153 00	0 53	225 64M
	9066 00	0 15	225 64	9064 63	-29 35	-29 22	14 80	32 75	153 15	2 12	346 21M
	9097 00	1 40	346 21	9095 63	-29 01	-28 88	14 68	32 40	153 06	4 78	349 74M
	9114 00	2 95	349 74	9112 61	-28 38	-28 25	14 55	31 78	152 75	9 15	350 7M
	9128 00	4 58	350 70	9126 58	-27 47	-27 34	14 39	30 90	152 24	11 65	354 26M
	9160 00	10 18	354 26	9158 31	-23 39	-23 27	13 91	27 11	149 14	17 55	11 68R
	9192 00	16 66	358 89	9189 42	-15 98	-15 86	13 53	20 85	139 52	20 51	7 66R
	9224 00	22 48	0 93	9219 56	-5 27	-5 15	13 54	14 49	110 81	18 31	2 11R
	9255 00	26 62	1 27	9247 75	7 61	7 73	13 79	15 81	60 74	13 36	1 43R
	9287 00	30 27	1 45	9275 88	22 84	22 96	14 16	26 98	31 65	11 41	11 93L
	9318 00	33 49	0 22	9302 20	39 20	39 33	14 39	41 88	20 09	10 60	8 9L
	9350 00	36 66	359 39	9328 39	57 59	57 72	14 32	59 47	13 93	10 02	1 04L
	9381 00	40 22	359 29	9352 66	76 86	76 99	14 10	78 27	10 38	11 49	1 32R
	9413 00	43 19	359 39	9376 55	98 14	98 27	13 85	99 24	8 02	9 28	3 6L
	9444 00	45 81	359 16	9398 66	119 87	120 00	13 58	120 76	6 46	8 47	4 54R
	9476 00	48 75	359 47	9420 37	143 38	143 50	13 30	144 12	5 29	9 22	1 03L
	9508 00	51 37	359 41	9440 91	167 91	168 03	13 06	168 54	4 44	8 19	14 99L
	9539 00	53 35	358 75	9459 84	192 46	192 58	12 66	192 99	3 76	6 61	10 93L
	9570 00	55 75	358 19	9477 82	217 70	217 82	11 98	218 15	3 15	7 88	9 8R
	9602 00	58 06	358 66	9495 29	244 50	244 61	11 25	244 87	2 63	7 32	4 55R
	9633 00	60 58	358 89	9511 11	271 16	271 27	10 68	271 48	2 25	8 15	4 11L
	9665 00	63 19	358 68	9526 18	299 38	299 48	10 08	299 65	1 93	8 18	4 14L
	9696 00	65 58	358 49	9539 58	327 33	327 43	9 39	327 56	1 64	7 73	12 47R
	9728 00	68 27	359 13	9552 13	356 76	356 86	8 78	356 96	1 41	8 61	5 73R
	9759 00	70 91	359 41	9562 94	385 81	385 90	8 41	386 00	1 25	8 56	9 02R
	9790 00	73 02	359 76	9572 53	415 29	415 38	8 20	415 46	1 13	6 89	9 47R
	9822 00	75 93	0 26	9581 10	446 12	446 21	8 20	446 28	1 05	9 22	6 54R
	9853 00	79 10	0 63	9587 80	476 38	476 47	8 44	476 55	1 01	10 29	4 03L
	9885 00	80 22	0 55	9593 54	507 85	507 95	8 76	508 02	0 99	3 51	20 39L
	9917 00	82 14	359 83	9598 45	539 47	539 57	8 87	539 64	0 94	6 40	4L
	9948 00	84 56	359 66	9602 04	570 26	570 36	8 73	570 42	0 88	7 83	10 52L
	9980 00	86 28	359 34	9604 59	602 15	602 25	8 45	602 31	0 80	5 47	7 76L
	10011 00	87 38	359 19	9606 31	633 11	633 20	8 06	633 25	0 73	3 58	29 02L
	10043 00	88 66	358 48	9607 41	665 08	665 18	7 41	665 22	0 64	4 57	66 45L
	10069 00	89 00	357 70	9607 94	691 07	691 16	6 54	691 19	0 54	3 27	36 57L
	10092 00	89 62	357 24	9608 22	714 05	714 13	5 52	714 15	0 44	3 36	7 93L
Survey 30-Apr-12	10155 00	91 27	357 01	9607 73	777 00	777 05	2 36	777 05	0 17	2 64	48 8R
	10187 00	91 41	357 17	9606 98	808 96	809 00	0 74	809 00	0 05	0 66	56 5R
	10218 00	91 82	357 79	9606 11	839 93	839 96	-0 62	839 96	359 96	2 40	43 94R
	10250 00	92 10	358 06	9605 01	871 90	871 92	-1 78	871 92	359 88	1 22	90R
	10281 00	92 10	358 25	9603 88	902 87	902 88	-2 78	902 88	359 82	0 61	154 27R
	10344 00	91 27	358 65	9602 03	965 83	965 83	-4 48	965 84	359 73	1 46	68 42R
	10376 00	91 44	359 08	9601 27	997 82	997 81	-5 11	997 83	359 71	1 44	179 3R
	10439 00	90 62	359 09	9600 14	1060 81	1060 79	-6 12	1060 81	359 67	1 30	176 31L
	10470 00	90 00	359 05	9599 97	1091 80	1091 79	-6 62	1091 81	359 65	2 00	27 9L
	10565 00	90 34	358 87	9599 69	1186 80	1186 77	-8 35	1186 80	359 60	0 40	22 62R
	10661 00	90 82	359 07	9598 72	1282 79	1282 75	-10 07	1282 79	359 55	0 54	159 23R
	10755 00	90 24	359 29	9597 85	1376 78	1376 74	-11 42	1376 78	359 52	0 66	21 94R
	10850 00	90 96	359 58	9596 85	1471 78	1471 73	-12 36	1471 78	359 52	0 82	139 03R
	10944 00	90 58	359 91	9595 59	1565 77	1565 72	-12 77	1565 77	359 53	0 54	122 3R
	11134 00	90 03	0 78	9594 58	1755 74	1755 71	-11 63	1755 75	359 62	0 54	8 53R
	11324 00	90 83	0 90	9593 15	1945 68	1945 68	-8 84	1945 70	359 74	0 43	137 9L
	11513 00	89 17	359 40	9593 15	2134 66	2134 67	-8 35	2134 68	359 78	1 18	6 75R
	11703 00	90 10	359 51	9594 36	2324 65	2324 65	-10 16	2324 68	359 75	0 49	1 85L
	11893 00	91 03	359 48	9592 49	2514 64	2514 64	-11 83	2514 66	359 73	0 49	147 13L
	12086 00	89 90	358 75	9590 92	2707 63	2707 60	-14 81	2707 64	359 69	0 70	117 72L
Survey 2-May-12	12274 00	89 59	358 16	9591 76	2895 59	2895 53	-19 88	2895 60	359 61	0 35	13 94R
	12462 00	90 96	358 50	9590 86	3083 55	3083 44	-25 36	3083 55	359 53	0 75	51 5R
	12650 00	91 58	359 28	9586 69	3271 49	3271 36	-29 00	3271 49	359 49	0 53	146 98R
	12838 00	91 38	359 41	9581 83	3459 42	3459 28	-31 15	3459 42	359 48	0 13	75 37R
	13026 00	91 75	0 83	9576 70	3647 34	3647 21	-30 76	3647 34	359 52	0 78	103 07R
	13215 00	91 62	1 39	9571 14	3836 18	3836 09	-27 10	3836 19	359 60	0 30	140 09L
	13404 00	91 07	0 93	9566 70	4025 05	4025 00	-23 27	4025 07	359 67	0 38	0 48R
	13593 00	92 27	0 94	9561 20	4213 90	4213 89	-20 19	4213 94	359 73	0 63	155 87L
	13781 00	91 31	0 51	9555 32	4401 76	4401 78	-17 81	4401 82	359 77	0 56	73 46R
	13970 00	91 82	2 23	9550 16	4590 58	4590 65	-13 29	4590 67	359 83	0 95	88 28R
Survey 3-May-12	14158 00	91 89	4 62	9544 08	4778 03	4778 20	-2 07	4778 20	359 98	1 27	80 31L
	14347 00	92 48	1 14	9536 87	4966 53	4966 79	7 42	4966 80	0 09	1 87	106 07L
	14536 00	91 34	357 20	9530 57	5155 38	5155 63	4 68	5155 63	0 05	2 17	116 26L
	14725 00	89 76	354 00	9528 75	5343 91	5344 03	-9 82	5344 04	359 89	1 89	15 31R
	14913 00	91 55	354 49	9526 60	5531 10	5531 07	-28 67	5531 14	359 70	0 99	144 67R
	15100 00	90 76	355 05	9522 83	5717 43	5717 25	-45 71	5717 43	359 54	0 52	47 7R

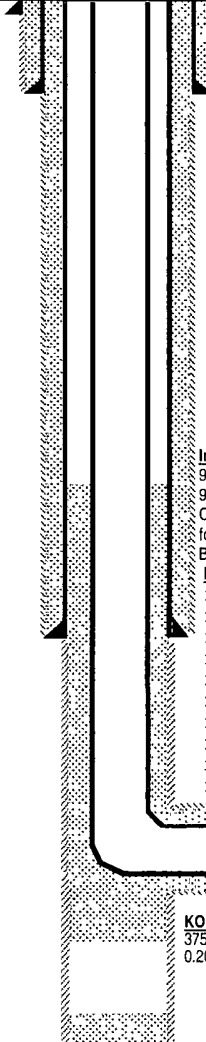
Comments	MD (ft)	Incl (°)	Azim Grid (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (°)	DLS (°/100ft)	TF (°)
	15289 00	92 06	356 48	9518 18	5905 96	5905 66	-59 66	5905 97	359 42	1 02	170 15R
	15477 00	90 62	356 73	9513 79	6093 67	6093 28	-70 79	6093 69	359 33	0 78	159 92L
	15666 00	88 76	356 05	9514 81	6282 38	6281 89	-82 69	6282 44	359 25	1 05	51 55R
	15855 00	91 27	359 21	9514 76	6471 24	6470 69	-90 50	6471 32	359 20	2 14	27 59R
	16044 00	93 41	0 33	9507 04	6660 07	6659 52	-91 26	6660 14	359 21	1 28	171 45L
	16231 00	92 48	0 19	9497 43	6846 80	6846 27	-90 42	6846 86	359 24	0 50	178L
	16420 00	90 76	0 13	9492 09	7035 70	7035 18	-89 89	7035 76	359 27	0 91	98L
	16607 00	90 58	358 85	9489 91	7222 69	7222 16	-91 55	7222 74	359 27	0 69	130 84L
	16796 00	90 07	358 26	9488 83	7411 66	7411 09	-96 32	7411 72	359 26	0 41	90L
	16984 00	90 07	356 70	9488 60	7599 54	7598 91	-104 58	7599 63	359 21	0 83	43 7L
	17172 00	90 52	356 27	9487 64	7787 27	7786 55	-116 11	7787 41	359 15	0 33	145 05R
	17361 00	89 69	356 85	9487 29	7976 02	7975 21	-127 45	7976 22	359 08	0 54	76 33R
	17550 00	90 58	0 51	9486 84	8164 97	8164 12	-131 80	8165 19	359 08	1 99	100 33R
	17724 00	90 31	1 99	9485 49	8338 88	8338 07	-128 01	8339 05	359 12	0 86	149 68R
	17913 00	89 78	2 30	9485 34	8527 67	8526 94	-120 93	8527 79	359 19	0 32	78 52L
	18101 00	90 04	1 02	9485 64	8715 54	8714 85	-115 49	8715 62	359 24	0 69	90R
	18289 00	90 04	1 46	9485 51	8903 45	8902 81	-111 42	8903 51	359 28	0 23	78 63R
	18478 00	90 48	3 69	9484 65	9092 16	9091 60	-102 93	9092 19	359 35	1 20	160 67L
	18667 00	88 20	2 89	9486 83	9280 72	9280 27	-92 08	9280 72	359 43	1 28	125 64L
	18856 00	85 56	359 19	9497 12	9469 32	9468 90	-88 65	9469 32	359 46	2 40	18 33L
	19044 00	88 55	358 20	9506 77	9657 03	9656 58	-92 93	9657 03	359 45	1 68	2 44R
Final Survey	19156 00	92 77	358 38	9505 48	9768 97	9768 50	-96 27	9768 98	359 44	3 77	HS
Proj to TD	19230 00	92 77	358 38	9501 91	9842 87	9842 38	-98 36	9842 88	359 43	0 00	

Survey Type: Def Survey

Survey Error Model. ISCWSA Rev 0 *** 3-D 95 000% Confidence 2 7955 sigma
Survey Program.

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Survey Tool Type	Borehole / Survey
	0 000	30 000	Act Sins	SLB_PHOTO-MMS-Depth Only	Pilot Hole / EOG Pitchblende 29 Fed Com 1H Pilot Gyro+MWD Off to 10577ft
	30 000	30 000	Act Sins	SLB_PHOTO-MMS-Depth Only	Pilot Hole / EOG Pitchblende 29 Fed Com 1H Pilot Gyro+MWD Off to 10577ft
	30 000	840 000	Act Sins	SLB_PHOTO-MMS	Pilot Hole / EOG Pitchblende 29 Fed Com 1H Pilot Gyro+MWD Off to 10577ft
	840 000	8873 000	Act Sins	SLB_MWD-STD	Pilot Hole / EOG Pitchblende 29 Fed Com 1H Pilot Gyro+MWD Off to 10577ft
	8873 000	19156 000	Act Sins	SLB_MWD-STD	ST01 / EOG Pitchblende 29 Fed Com 1H ST01 MWD Off to 19230ft MD
	19156 000	19230 000	Act Sins	SLB_BLIND+TREND	ST01 / EOG Pitchblende 29 Fed Com 1H ST01 MWD Off to 19230ft MD

COMPLETED WELL SKETCH

DEPTH (ft)	MARKERS (KB)	LITHOLOGY	OGRID: API: 30-025-40419 AFE: 104874 SPUD: 4/5/12 @ 05 00 hrs FRR: 5/12/12 @ 10:00 hrs RIG: Cactus #123	Pitchblende 29 Fed Com #1H RedHills (Delaware) Field Lea County, New Mexico	SURF: 330' FSL & 430' FEL LOC: Sec. 29 SURVEY: T-25-S, R-34-E GL: 3321.2' KB: 3351.2' ZERO: 30.0' AGL	HOLE SIZE	MW (ppg)	MUD	BHST (°F)	LOT (ppg)	EVALUATION	
1,000'	Rustler - 880'			20" Conductor @ 110'		17-1/2"	8.6	FW		N/A		
2,000'	T / Salt - 1300'			Surface Casing @ 904' 13-3/8" 54 5# J-55 STC Cement w/ 400 sx Class C + 4.0% Bentonite + 1.0% CaCl2 + 0.25 pps Celloflake (13.5 ppg, 1.734 yld), followed by 300 sx Class C + 1.0% CaCl2 (14.8 ppg, 1.335 yld) Bump plug w/ 1050 psi and circ 107 sx to surface		12-1/4"	10.0	Brine				
5,000'	B / Salt - 4993'			TOC @ 4,800' est.								
6,000'	Bell Canyon - 5300'			Intermediate Casing @ 5,176' 9-5/8", 40#, J-55, LT&C (0' - 3,951') 9-5/8", 40#, HCK-55, LT&C (3,951' - 5,176') Cement w/ 1150 sx Class C + 2.0% SMS + 10.0% Salt + 1.05% R-3 + 0.25 pps Celloflake (12.7 ppg, 2.218 yld), followed by 200 sx Class C + 0.60% FL-62 + 0.25% CD-32 + 0.15% SMS + 0.40% R-3 (14.8 ppg, 1.334 yld). Bump plug w/ 2160 psi and circ 13 sx to surface		10 2				NA		
7,000'	Cherry Canyon - 6310'			Perforations by MD: 10000 10060 10120 10180 10240 10300 10360 10420 10480 10540 10600 10660 10720 10780 10840 10960 11016 11020 11080 11140 11205 11260 11325 11380 11442 11500 11560 11620 11680 11740 11800 11860 11920 11980 12040 12100 12160 12220 12280 12340 12400 12460 12520 12580 12640 12700 12760 12820 12880 12940 13000 13060 13120 13180 13240 13306 13360 13418 13480 13542 13600 13660 13720 13780 13840 13900 13960 14020 14080 14140 14200 14260 14320 14380 14440 14500 14560 14620 14680 14740 14800 14860 14920 14980 15040 15100 15160 15220 15280 15340 15400 15460 15520 15580 15640 15700 15760 15820 15880 15940 16000 16060 16120 16180 16240 16300 16360 16420 16480 16540 16600 16660 16720 16785 16835 16900 16960 17020 17080 17140 17200 17260 17320 17378 17440 17498 17560 17625 17680 17738 17800 17856 17922 17984 18040 18104 18160 18223 18280 18340 18400 18462 18520 18578 18640 18700 18760 18820 18880 18940 19000 19060		8 4				N/A		
9,000'	Base Brushy Canyon - 9165'											
10,000'	Bone Spring Lime - 9320'											
	1st Bone Spring Sand - 10375' PTD - ~10,600' 2nd Bone Spring Lime - 10627 2nd Bone Spring Sand - 10975			KO Plug 9296' - 8621' 375 sx Class H + 1.5% CD-32 + 0.20% R-3 (18.0 ppg, 0.8911 yld)	Production Casing @ 19,212' MD, 9,502' TVD 5-1/2" 20# HCP-110 NSCC Cement w/ 350 sx 60 40 0 Class C + 15.0 pps BA-90 + 4.0% MPA-5 + 3.0% SMS + 5.0% A-10 + 1.0% BA-10A + 0.8% ASA-301 + 3.0% R-21 + 8.0 pps LCM-1 (10.8 ppg, 3.678 yld), followed by 350 sx 50.50.10 Class H + 0.8% FL-52A + 0.6% ASA-301 + 0.5% SMS + 2.0% Salt + 0.4% R-21 + 3.0 pps LCM-1 + 0.25 pps Celloflake (11.8 ppg, 2.386 yld), followed by 2500 sx 50-50-2 Class H + 0.65% FL-52 + 0.60% CD-32 + 0.15% SMS + 2.0% Salt + 0.30% R-3 (14.2 ppg, 1.279 yld) Bump plug w/ 2740 psi Rupture wet shoe disk and overdisplace w/ 3 bbls		9 3	WBM		146		
11,000'				Pilot Hole TD @ 10,577' Bottom Hole Plug (Tag @ 10,156') 200 sx Class H + 1.5% CD-32 + 0.20% R-3 (18.0 ppg, 0.8911 yld)								

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