OPERATOR CIMAREX ENERGY CO. 075-0059
WELL/LEASE LITTLE BEAR 7 FEE 2
COUNTY LEA

STATE OF NEW MEXICO
DEVIATION REPORT

266	0.75
526	0.75
1,078	1.50
1,586	0.50
2,090	2.00
2,602	1.00
3,073	2.00
3,552	1.75
4,066	0.75
4,464	1.00
5,074	1.00
5,520	1.00
6,017	1.00
6,556	1.50
7,066	1.25
7,423	1.25
7,999	1.25
8,603	1.50
9,109	1.75
9,620	1.25
9,761	1.25
9,842	1.25

SUR: N-7-15s-38e, 430/S & 1750/W
BHL: K-7-15s-38e, 2277/S & 1723/W
API # 30-025-38588

BY: _____

STATE OF TEXAS

COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on January 8, 2008, by Steve Moore on behalf of Patterson-UTI Drilling Company LLC.

Joni D. Hodges
Notary Public for Midland County, Texas
My Commission Expires: 4/11/11

JONI D. HODGES
Notary Public
STATE OF TEXAS
My Commission
Expires 04/11/2011

SUR: N-7-15s-38e, 430/S & 1750/W
BHL: K-7-15s-38e, 2277/S & 1723/W
API # 30-025-38588

Cimarex Energy Company

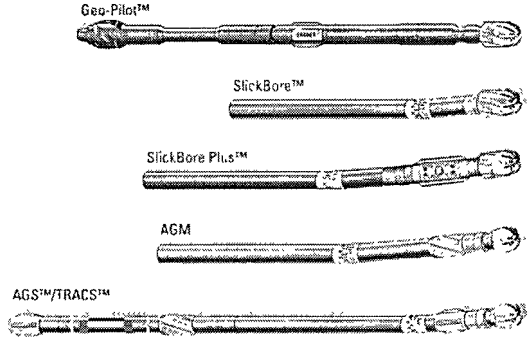
Little Bear "7" Fee No. 2H

Lea County, New Mexico

Sperry Drilling Services

End of Well Report

Prepared For: Cimarex Energy Company



January 15,2008

Submitted by:
Marcus B. Stack - Well Planner
Phillip D. Smith - Directional Drilling Coordinator
Eric Singleton - Sperry Account Rep.
1-800-332-3992
Houston, TX 77032

HALLIBURTON

Cimarex Energy Co.

Little Bear "7" Fee No. 2H
Lea County, NM

End of Well Report

Table of Contents

HALLIBURTON

Sperry Drilling Services

Final Surveys and Plot

Cimarex Energy Company

Lea County, NM
Little Bear "7" Fee
2H

ST01

Design: ST01

Sperry Drilling Services

Combo Report

15 January, 2008

Well Coordinates. 738,981 40 N, 907,299 90 E (33° 01' 32.68" N, 103° 08' 21.54" W)
Ground Level 3,772.00 ft

Local Coordinate Origin	Centered on Well 2H
Viewing Datum	3,772' GL+ 23'KB @ 3795 00ft (T&B)
TVDs to System	N
North Reference	Grid
Unit System	API - U.S. Survey Feet

Version. 2003 16 Build 42B

HALLIBURTON

HALLIBURTON

Design Report for 2H - ST01

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)
0 00	0.00	0 00	-3,795 00	0 00	0 00 N	0 00 E	738,981 40	907,299 90	0 00	0.00
100 00	0 35	155.99	-3,695 00	100.00	0 28 S	0 12 E	738,981 12	907,300 02	0 35	-0.28
200 00	0 46	136.85	-3,595 00	200.00	0 85 S	0 52 E	738,980.55	907,300 42	0 17	-0.86
300 00	0 50	121 06	-3,495 01	299 99	1.37 S	1 17 E	738,980 03	907,301 07	0.14	-1 38
400.00	0 51	116.62	-3,395 01	399.99	1 79 S	1.94 E	738,979 61	907,301 84	0 04	-1 82
500 00	0.54	91.35	-3,295 01	499 99	2.00 S	2 81 E	738,979 40	907,302 71	0 23	-2.04
600.00	0.70	93 54	-3,195 02	599.98	2 05 S	3 89 E	738,979 35	907,303 79	0.16	-2 10
700.00	0.78	95 82	-3,095.03	699.97	2 16 S	5.18 E	738,979 24	907,305 08	0 09	-2 22
800 00	0 96	113 57	-2,995 04	799 96	2.56 S	6 62 E	738,978 84	907,306 52	0 32	-2 64
900 00	0 83	119 45	-2,895 05	899.95	3.25 S	8 02 E	738,978 15	907,307.92	0 16	-3.35
1,000.00	0.89	123.39	-2,795 06	999 94	4 04 S	9 30 E	738,977 36	907,309 20	0 08	-4.15
1,100 00	0 91	128.72	-2,695.08	1,099 92	4.96 S	10 57 E	738,976 44	907,310.47	0 09	-5 09
1,200 00	0 84	125 29	-2,595.09	1,199 91	5.88 S	11 79 E	738,975.52	907,311 69	0 09	-6.03
1,300 00	0 88	132 33	-2,495 10	1,299.90	6.82 S	12.95 E	738,974 58	907,312 85	0 11	-6.98
1,400 00	1.00	139.23	-2,395 11	1,399 89	8 00 S	14.09 E	738,973 40	907,313 99	0 16	-8.17
1,500 00	0 92	133 43	-2,295.13	1,499 87	9.21 S	15 24 E	738,972.19	907,315 14	0 13	-9.40
1,600 00	1.02	135.79	-2,195 14	1,599.86	10 40 S	16.45 E	738,971 00	907,316.35	0 11	-10 60
1,700 00	1.10	146.00	-2,095 16	1,699 84	11.84 S	17 61 E	738,969 56	907,317 51	0 20	-12 05
1,800 00	1 02	155 60	-1,995 17	1,799.83	13 44 S	18 51 E	738,967 96	907,318 41	0.19	-13 67
1,900.00	0.98	158 17	-1,895 19	1,899 81	15 05 S	19.20 E	738,966 35	907,319.10	0.06	-15 28
2,000 00	1 07	157 30	-1,795 21	1,999.79	16 70 S	19 87 E	738,964.70	907,319 77	0.09	-16.95
2,100 00	1 14	158.55	-1,695.22	2,099 78	18 49 S	20.60 E	738,962 91	907,320.50	0 07	-18 74
2,200 00	1.48	164 37	-1,595.25	2,199 75	20 66 S	21.31 E	738,960 74	907,321 21	0.36	-20 92
2,300 00	1.77	173 57	-1,495 29	2,299 71	23 44 S	21 83 E	738,957.96	907,321 73	0 39	-23 70
2,400 00	1 66	175 67	-1,395 34	2,399 66	26 42 S	22 11 E	738,954.98	907,322 01	0 13	-26.69
2,500 00	1 88	175 72	-1,295 38	2,499.62	29 50 S	22 34 E	738,951 90	907,322 24	0 22	-29.77
2,600 00	1 83	168 19	-1,195.44	2,599 56	32.70 S	22 79 E	738,948 70	907,322 69	0 25	-32.97
2,700 00	2 15	175 06	-1,095 50	2,699 50	36.13 S	23.28 E	738,945 27	907,323.18	0.40	-36 41
2,800.00	1.97	175.32	-995 56	2,799 44	39.71 S	23 58 E	738,941 69	907,323 48	0 18	-40 00
2,900 00	2.25	174 44	-895.63	2,899 37	43 38 S	23 91 E	738,938 02	907,323 81	0 28	-43 67
3,000 00	2.27	173.77	-795.71	2,999.29	47.30 S	24.32 E	738,934 10	907,324 22	0 03	-47.59
3,100 00	2 61	175 10	-695 80	3,099 20	51 54 S	24 73 E	738,929.86	907,324 63	0 34	-51.84
3,200 00	2 76	176 19	-595 91	3,199.09	56 21 S	25 08 E	738,925 19	907,324.98	0 16	-56 51
3,300 00	2 73	176 47	-496 02	3,298 98	60 99 S	25 39 E	738,920 41	907,325 29	0 03	-61.29
3,400.00	2 29	179 16	-396 12	3,398 88	65.36 S	25 57 E	738,916.04	907,325 47	0 46	-65 67
3,500 00	2 04	179.20	-296.19	3,498 81	69 14 S	25 62 E	738,912 26	907,325.52	0.25	-69.45
3,600 00	1.51	178.98	-196 24	3,598 76	72 24 S	25 67 E	738,909 16	907,325 57	0 53	-72.55
3,700 00	1 20	178 41	-96.27	3,698 73	74 60 S	25 72 E	738,906 80	907,325 62	0 31	-74.91
3,800 00	1.11	182 02	3 71	3,798 71	76.61 S	25.72 E	738,904.79	907,325 62	0 12	-76.92
3,900.00	0 73	186.66	103.70	3,898 70	78 22 S	25 61 E	738,903.18	907,325 51	0 39	-78.52
4,000 00	0.64	185.43	203 69	3,998.69	79.40 S	25 48 E	738,902 00	907,325 38	0 09	-79 71
4,100 00	0.42	212 68	303.69	4,098.69	80 27 S	25 23 E	738,901 13	907,325 13	0 33	-80 57
4,200 00	0 26	243.56	403 69	4,198 69	80 68 S	24 83 E	738,900 72	907,324.73	0 24	-80.98
4,300.00	0 19	283.15	503.69	4,298 69	80 74 S	24 46 E	738.900 66	907,324 36	0 17	-81 04
4,400 00	0.38	315 39	603 69	4,398.69	80 47 S	24 07 E	738,900 93	907,323 97	0 24	-80 76

Design Report for 2H - ST01

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)
4,500 00	0 37	337 48	703.68	4,498 68	79.93 S	23 71 E	738,901.47	907,323 61	0 14	-80 22
4,600 00	0.60	338 99	803.68	4,598 68	79 15 S	23 40 E	738,902.25	907,323 30	0 23	-79 43
4,700 00	0.77	352 27	903 67	4,698 67	77.99 S	23 12 E	738,903 41	907,323 02	0.23	-78.27
4,800 00	1.04	342.47	1,003 66	4,798.66	76 46 S	22 76 E	738,904 94	907,322 66	0.31	-76.73
4,900 00	1.10	343.68	1,103.64	4,898.64	74 67 S	22 22 E	738,906 73	907,322 12	0 06	-74.94
5,000.00	1 27	344 93	1,203 62	4,998 62	72 68 S	21.66 E	738,908.72	907,321 56	0 17	-72 94
5,100 00	1 49	341 23	1,303.59	5,098 59	70 38 S	20 95 E	738,911.02	907,320.85	0.24	-70.63
5,200 00	1 58	338.64	1,403 56	5,198 56	67 87 S	20.03 E	738,913 53	907,319.93	0.11	-68 11
5,300.00	1 54	342 67	1,503 52	5,298 52	65 30 S	19.13 E	738,916 10	907,319 03	0 12	-65 53
5,400 00	1 53	342.09	1,603 48	5,398 48	62.75 S	18 32 E	738,918.65	907,318 22	0.02	-62 97
5,500 00	1.52	340.82	1,703 45	5,498.45	60 22 S	17.47 E	738,921 18	907,317 37	0 04	-60.43
5,600 00	1 53	340.56	1,803.41	5,598 41	57 71 S	16.59 E	738,923 69	907,316.49	0.01	-57 91
5,700 00	1 45	339 45	1,903 38	5,698 38	55.27 S	15 70 E	738,926.13	907,315.60	0 09	-55.46
5,800.00	1 21	335 83	2,003 35	5,798 35	53.12 S	14 83 E	738,928 28	907,314 73	0.25	-53.30
5,900 00	1 48	328 33	2,103.32	5,898.32	51 06 S	13 72 E	738,930 34	907,313 62	0.32	-51 22
6,000.00	1.32	332.80	2,203 29	5,998 29	48 93 S	12 51 E	738,932 47	907,312 41	0.19	-49 08
6,100 00	1 83	343.63	2,303 26	6,098.26	46 38 S	11.54 E	738,935.02	907,311 44	0 59	-46.52
6,200.00	1 76	353 28	2,403.21	6,198.21	43 32 S	10 91 E	738,938.08	907,310 81	0.31	-43 45
6,300.00	1 49	4 21	2,503 17	6,298.17	40 50 S	10.82 E	738,940.90	907,310 72	0 41	-40.63
6,400 00	1 41	5 52	2,603.14	6,398 14	37 98 S	11.04 E	738,943 42	907,310.94	0.09	-38 11
6,500.00	1.20	7.73	2,703 11	6,498.11	35.72 S	11.30 E	738,945 68	907,311.20	0 22	-35 85
6,600 00	0 98	356 52	2,803.09	6,598.09	33 82 S	11 38 E	738,947.58	907,311 28	0 31	-33.96
6,700.00	1.11	9 25	2,903 08	6,698.08	32 01 S	11 49 E	738,949 39	907,311 39	0.27	-32 15
6,800 00	1 05	5.23	3,003 06	6,798 06	30.15 S	11.73 E	738,951 25	907,311 63	0.10	-30 29
6,900.00	0.96	3.71	3,103 04	6,898 04	28.40 S	11 87 E	738,953.00	907,311 77	0 09	-28.54
7,000 00	0 98	359 02	3,203 03	6,998 03	26 71 S	11 91 E	738,954.69	907,311 81	0 08	-26.85
7,100 00	0 93	2 25	3,303.01	7,098 01	25 04 S	11 92 E	738,956 36	907,311.82	0 07	-25.19
7,200.00	0.97	353.45	3,403.00	7,198.00	23.39 S	11.86 E	738,958 01	907,311.76	0.15	-23 53
7,300.00	0 88	353 97	3,502 99	7,297 99	21 78 S	11 68 E	738,959.62	907,311 58	0 09	-21.93
7,400 00	0.93	355 35	3,602.97	7,397 97	20 21 S	11.53 E	738,961 19	907,311 43	0 05	-20.35
7,500.00	0.94	3 86	3,702.96	7,497 96	18 58 S	11 52 E	738,962 82	907,311.42	0.14	-18.73
7,600 00	0.96	354 99	3,802.95	7,597.95	16.93 S	11 51 E	738,964.47	907,311 41	0 15	-17 07
7,700 00	0 97	358 95	3,902 93	7,697 93	15 25 S	11 42 E	738,966 15	907,311 32	0.07	-15.39
7,800 00	0 91	352 76	4,002.92	7,797 92	13 62 S	11 30 E	738,967 78	907,311.20	0.12	-13 75
7,900 00	0 91	350 58	4,102 91	7,897.91	12 05 S	11 07 E	738,969.35	907,310 97	0 03	-12 18
8,000 00	1 02	353.26	4,202.89	7,997 89	10 38 S	10 84 E	738,971.02	907,310.74	0.12	-10 51
8,100 00	1 13	354 91	4,302 88	8,097.88	8 51 S	10 64 E	738,972 89	907,310 54	0.11	-8.64
8,200 00	1 15	353.75	4,402.86	8,197.86	6 53 S	10 45 E	738,974 87	907,310.35	0 03	-6.66
8,300.00	1 27	352 48	4,502.83	8,297 83	4.44 S	10.19 E	738,976.96	907,310.09	0.12	-4.56
8,400 00	1.52	353 01	4,602 80	8,397 80	2 02 S	9 89 E	738,979 38	907,309 79	0 25	-2 14
8,500 00	1 62	351 16	4,702 77	8,497 77	0.69 N	9.51 E	738,982.09	907,309 41	0 11	0.57
8,600.00	1 67	350 48	4,802.73	8,597.73	3 53 N	9 05 E	738,984 93	907,308 95	0 05	3 41
8,700.00	1.62	350.80	4,902 68	8,697.68	6.36 N	8.58 E	738.987.76	907,308 48	0 05	6 25
8,800 00	1 35	354 25	5,002 65	8,797 65	8 93 N	8.24 E	738,990.33	907,308.14	0 28	8.82
8,900 00	1 25	350 36	5,102 62	8,897.62	11 17 N	7 94 E	738,992 57	907,307 84	0.13	11.07

HALLIBURTON

Design Report for 2H - ST01

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)
9,000 00	1.29	350 81	5,202.60	8,997 60	13 36 N	7 58 E	738,994 76	907,307.48	0 04	13 27
9,100 00	1 44	339.10	5,302.57	9,097 57	15.64 N	6 95 E	738,997 04	907,306.85	0 32	15 56
Tie On at 9,100' MD										
9,164 00	1 44	356 00	5,366 55	9,161.55	17.20 N	6.61 E	738,998 60	907,306 51	0.66	17 12
9,190.00	6 62	10.68	5,392 48	9,187.48	19.00 N	6 86 E	739,000.40	907,306 76	20.15	18 91
9,205 00	9.48	14.59	5,407.33	9,202 33	21 04 N	7 33 E	739,002 44	907,307 23	19 40	20.95
9,221 00	12.35	15.84	5,423.04	9,218 04	23.97 N	8.13 E	739,005 37	907,308 03	18 00	23.86
9,236.00	15 78	14 67	5,437.59	9,232 59	27.48 N	9 09 E	739,008 88	907,308 99	22.94	27.37
9,252 00	19.54	11.41	5,452 83	9,247.83	32 21 N	10 17 E	739,013.61	907,310 07	24 29	32 08
9,267 00	22 98	10 21	5,466 81	9,261 81	37.55 N	11 18 E	739,018 95	907,311 08	23 11	37.41
9,283 00	26 96	9 18	5,481 31	9,276.31	44.21 N	12.31 E	739,025 61	907,312 21	25.02	44 06
9,299 00	30 96	7.70	5,495 31	9,290 31	51 87 N	13 45 E	739,033 27	907,313.35	25.40	51 70
9,315 00	34.59	6 53	5,508.76	9,303 76	60 47 N	14.51 E	739,041 87	907,314.41	23.03	60.28
9,329 00	38 31	5 09	5,520.02	9,315.02	68.74 N	15.35 E	739,050.14	907,315 25	27.26	68 55
9,345 00	43 07	2.34	5,532.15	9,327 15	79.15 N	16 01 E	739,060 55	907,315 91	31 78	78.94
9,360 00	47.98	1.52	5,542 65	9,337.65	89 84 N	16.37 E	739,071.24	907,316.27	32.96	89.63
9,376 00	52 97	359.91	5,552.83	9,347 83	102.18 N	16 52 E	739,083 58	907,316.42	32 14	101 96
9,391 00	58.06	359 97	5,561 32	9,356 32	114.54 N	16 51 E	739,095 94	907,316 41	33 93	114.32
9,407 00	63.07	359 87	5,569 18	9,364 18	128.47 N	16 49 E	739,109.87	907,316.39	31.32	128.25
9,423 00	67.82	359.14	5,575 83	9,370.83	143.01 N	16 36 E	739,124.41	907,316 26	29.98	142.80
9,439 00	72 71	357.96	5,581.23	9,376 23	158 06 N	15 98 E	739,139 46	907,315 88	31 34	157.86
9,455 00	77 34	357 22	5,585 36	9,380 36	173 50 N	15.33 E	739,154.90	907,315.23	29.28	173 30
9,471 00	81 65	356 41	5,588 28	9,383 28	189.21 N	14.45 E	739,170.61	907,314 35	27.39	189.01
9,486.00	83 21	356 40	5,590.26	9,385.26	204 05 N	13 52 E	739,185 45	907,313 42	10 40	203.86
9,502 00	85.00	356.46	5,591.90	9,386 90	219.93 N	12 53 E	739,201 33	907,312.43	11.19	219.76
9,518 00	86.82	356 37	5,593.04	9,388 04	235 86 N	11.53 E	739,217.26	907,311 43	11.39	235 70
9,550 00	90 03	356 20	5,593 92	9,388 92	267.77 N	9.46 E	739,249.17	907,309 36	10.05	267 64
9,581.00	90.12	356 23	5,593.88	9,388 88	298 71 N	7.41 E	739,280 11	907,307.31	0.31	298 59
9,612 00	91.02	356.01	5,593 57	9,388.57	329 63 N	5.31 E	739,311.03	907,305 21	2 99	329 54
9,643.00	91 60	356.39	5,592.86	9,387 86	360 56 N	3.26 E	739,341 96	907,303 16	2 24	360.49
9,674 00	90.49	356.22	5,592 30	9,387 30	391.49 N	1.26 E	739,372 89	907,301 16	3.62	391 44
9,706.00	89 66	356.93	5,592.26	9,387.26	423 43 N	0 65 W	739,404.83	907,299 25	3 41	423.40
9,737 00	88 00	358.13	5,592.89	9,387.89	454 39 N	1 99 W	739,435 79	907,297.91	6 61	454 38
9,769 00	87 13	358 64	5,594 25	9,389 25	486 35 N	2 89 W	739,467 75	907,297.01	3.15	486 35
9,801.00	87.54	358.67	5,595.74	9,390 74	518 31 N	3 64 W	739,499 71	907,296.26	1.28	518.31
9,832.00	87 47	358.42	5,597 08	9,392 08	549 27 N	4.42 W	739,530 67	907,295 48	0 84	549 28
9,864 00	87 04	359.53	5,598 62	9,393 62	581.22 N	5 00 W	739,562.62	907,294.90	3.72	581 24
9,895.00	87.25	358.44	5,600.16	9,395 16	612.18 N	5.54 W	739,593.58	907,294 36	3 58	612 20
9,926 00	87 66	358 49	5,601.54	9,396 54	643 14 N	6.37 W	739,624.54	907,293 53	1 33	643.17
9,958.00	87.63	359.07	5,602.85	9,397.85	675 10 N	7.05 W	739,656 50	907,292.85	1.81	675 14
9,989.00	87.78	358 75	5,604 09	9,399 09	706.07 N	7 64 W	739,687 47	907,292.26	1.14	706.11
10,020 00	87 35	359 13	5,605 41	9,400.41	737.04 N	8 22 W	739,718.44	907,291 68	1 85	737 09
10,051 00	88 37	359 24	5,606.57	9,401.57	768 02 N	8.66 W	739,749.42	907,291.24	3.31	768 06
10,083.00	88.27	359.91	5,607.51	9,402.51	800 00 N	8.89 W	739,781 40	907,291.01	2.12	800 05
10,114.00	88.61	359.46	5,608.35	9,403.35	830.99 N	9.06 W	739,812 39	907,290 84	1 82	831 04
10,146.00	88.00	0.41	5,609.30	9,404.30	862 97 N	9 10 W	739,844 37	907,290 80	3 53	863 02

Design Report for 2H - ST01

Measured Depth (ft)	Inclination (°)	Azimuth (°)	TVD below System (ft)	Vertical Depth (ft)	Local Coordinates Northing (ft)	Local Coordinates Easting (ft)	Map Coordinates Northing (ft)	Map Coordinates Easting (ft)	Dogleg Rate (°/100ft)	Vertical Section (ft)
10,178 00	87.44	0 78	5,610 57	9,405 57	894 95 N	8 77 W	739,876.35	907,291.13	2.10	894 99
10,209.00	88.31	0 56	5,611 72	9,406 72	925.92 N	8 41 W	739,907.32	907,291 49	2 89	925 96
10,241 00	88 77	0 25	5,612 54	9,407.54	957.91 N	8.18 W	739,939.31	907,291 72	1 73	957.94
10,273 00	88 70	0.40	5,613 24	9,408.24	989.90 N	8 00 W	739,971.30	907,291 90	0 52	989 93
10,304.00	89 20	0.15	5,613.81	9,408 81	1,020.90 N	7 85 W	740,002 30	907,292.05	1 80	1,020.92
10,336.00	89.81	0.34	5,614.09	9,409.09	1,052.90 N	7.71 W	740,034 30	907,292 19	2 00	1,052 91
10,368.00	89.88	359.53	5,614.17	9,409 17	1,084 90 N	7.75 W	740,066 30	907,292 15	2 54	1,084 91
10,399 00	89 94	359.68	5,614.22	9,409 22	1,115 89 N	7.96 W	740,097 29	907,291 94	0 52	1,115.91
10,431 00	89 72	359.75	5,614 32	9,409 32	1,147.89 N	8.12 W	740,129 29	907,291 78	0.72	1,147 91
10,462 00	90.28	0.38	5,614 32	9,409 32	1,178 89 N	8.09 W	740,160 29	907,291 81	2 72	1,178 90
10,494 00	91 11	359 71	5,613.93	9,408 93	1,210.89 N	8 06 W	740,192 29	907,291.84	3.33	1,210 90
10,526 00	91 91	359 59	5,613 09	9,408 09	1,242.88 N	8 26 W	740,224.28	907,291.64	2 53	1,242 89
10,557.00	92 56	359.33	5,611 88	9,406.88	1,273 85 N	8.55 W	740,255.25	907,291 35	2.26	1,273 86
10,589 00	93 05	359 21	5,610 31	9,405.31	1,305.81 N	8.96 W	740,287 21	907,290.94	1.58	1,305 82
10,620.00	93 05	359.37	5,608.66	9,403.66	1,336 77 N	9 34 W	740,318 17	907,290 56	0.52	1,336 78
10,652 00	92 81	358 50	5,607 03	9,402 03	1,368 72 N	9 93 W	740,350 12	907,289 97	2.82	1,368 74
10,683 00	93 21	358 62	5,605 40	9,400.40	1,399 67 N	10.71 W	740,381.07	907,289 19	1.35	1,399 69
10,715.00	92.47	357.94	5,603.81	9,398.81	1,431 61 N	11 67 W	740,413.01	907,288 23	3 14	1,431.65
10,746 00	92.57	357.68	5,602 45	9,397.45	1,462.56 N	12.86 W	740,443 96	907,287.04	0.90	1,462 61
10,778 00	93 42	357 91	5,600 78	9,395.78	1,494 49 N	14 08 W	740,475.89	907,285 82	2 75	1,494.55
10,809.00	94.14	357 86	5,598.73	9,393 73	1,525.40 N	15.23 W	740,506.80	907,284 67	2 33	1,525.48
10,841 00	94 56	357.64	5,596.31	9,391 31	1,557.29 N	16 48 W	740,538 69	907,283.42	1.48	1,557 37
10,872.00	93.97	358 40	5,594 00	9,389.00	1,588 18 N	17 55 W	740,569.58	907,282 35	3 10	1,588 28
10,904.00	92.56	357.98	5,592.18	9,387 18	1,620.11 N	18 56 W	740,601 51	907,281 34	4.60	1,620 22
10,936 00	92 25	357.90	5,590.84	9,385.84	1,652.06 N	19.71 W	740,633 46	907,280 19	1 00	1,652 18
10,968 00	92.93	358 20	5,589.39	9,384 39	1,684 01 N	20 79 W	740,665.41	907,279 11	2 32	1,684 14
10,999.00	90 90	358 16	5,588 35	9,383.35	1,714 98 N	21.78 W	740,696 38	907,278.12	6 55	1,715.12
11,031 00	89.48	358.12	5,588 25	9,383.25	1,746.96 N	22 82 W	740,728.36	907,277 08	4 44	1,747 11
11,063.00	90.19	358.06	5,588.34	9,383 34	1,778 94 N	23 88 W	740,760 34	907,276.02	2.23	1,779 10
11,095 00	88.92	357 06	5,588.59	9,383 59	1,810 91 N	25.24 W	740,792.31	907,274 66	5 05	1,811 08
Last MWD at 11,095' MD										
11,131 00	88 92	357.06	5,589.27	9,384.27	1,846 86 N	27 09 W	740,828.26	907,272.81	0.00	1,847.05
Projection to TD at 11,131' MD										

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
9,100 00	9,097 57	15 64	6 95	Tie On at 9,100' MD
11,095 00	9,383 59	1,810 91	-25 24	Last MWD at 11,095' MD
11,131 00	9,384.27	1,846.86	-27 09	Projection to TD at 11,131' MD

Design Report for 2H - ST01

Vertical Section Information

Angle Type	Target	Azimuth (°)	Origin Type	Origin +N/_S (ft)	Origin +E/-W (ft)	Start TVD (ft)
Target	L B. 7 PBHL(P2)	359.30	Slot	0 00	0.00	0.00

Survey tool program

From (ft)	To (ft)	Survey/Plan	Survey Tool
100 00	9,100 00	Gyro Survey	CB-GYRO-MS
9,164 00	11,131.00	Sperry MWD Survey	MWD

Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
L.B 7 PBHL(P2)	0.00	0 00	9,387 00	1,846.26	-22 69	740,827 66	907.277 21	33° 1' 50.946 N	103° 8' 21 555 W
- actual wellpath misses by 5 16ft at 11130 23ft MD (9384 25 TVD, 1846.09 N, -27 05 E)									
- Point									
L B.7 PBHL (P1)	0 00	0 00	9,325.00	1,880 14	-21 67	740,861.54	907,278 23	33° 1' 51 282 N	103° 8' 21 539 W
- actual wellpath misses by 68.19ft at 11131 00ft MD (9384 27 TVD, 1846 86 N, -27 09 E)									
- Point									

North Reference Sheet for Little Bear "7" Fee - 2H - ST01

All data is in US Feet unless otherwise stated Directions and Coordinates are relative to Grid North Reference
Vertical Depths are relative to 3,772' GL+ 23'KB @ 3795 00ft (T&B) Northing and Easting are relative to 2H
Coordinate System is US State Plane 1983, New Mexico Eastern Zone using datum North American Datum 1983, ellipsoid GRS 1980
Projection method is Transverse Mercator (Gauss-Kruger)
Central Meridian is 104° 20' 0 000 W°, Longitude Origin.0° 0' 0 000 E°, Latitude Origin.0° 0' 0 000 N°

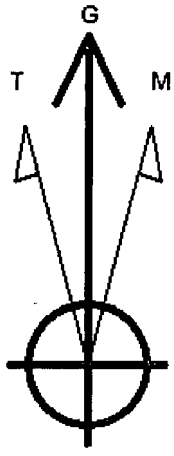
False Easting 541,337 50ft, False Northing 0.00ft, Scale Reduction: 1.00006244

Grid Coordinates of Well: 738,981.40 ft N, 907,299.90 ft E

Geographical Coordinates of Well: 33° 01' 32 68" N, 103° 08' 21 54" W
Grid Convergence at Surface is: 0 65°

Based upon Minimum Curvature type calculations, at a Measured Depth of 11,131 00ft
the Bottom Hole Displacement is 1,847 06ft in the Direction of 359 16° (Grid)

Magnetic Convergence at surface is: -7.24° (31 December 2007, , BGGM2007)



Magnetic Model	BGGM 2007
Date	31-Dec-07
Declination	7 89°
Inclination/Dip	61 11°
Field Strength.	49529

Grid North is 0 65° East of True North (Grid Convergence)
agnetic North is 7.89° East of True North (Magnetic Declination)
gnetic North is 7 24° East of Grid North (Magnetic Convergence)

To convert a True Direction to a Grid Direction, Subtract 0 65°
convert a Magnetic Direction to a True Direction, Add 7 89° East
To convert a Magnetic Direction to a Grid Direction, Add 7 24°