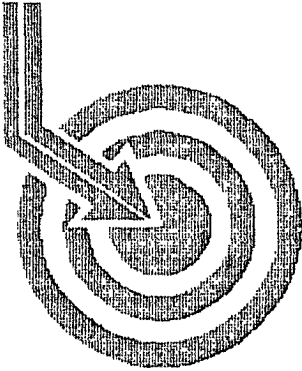


30.015.36414



Scientific Drilling

MARBOB ENERGY

Field: Loco Hills
Site: Eddy County, NM
Well: Birdie Federal #8
Wellpath: VH - Job #32K12081016
Survey: 12/21/08

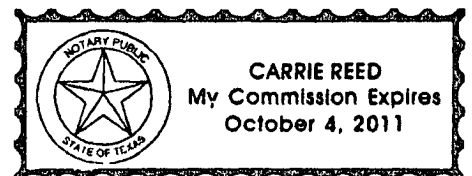
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*[Signature]*..... Company Representative

Notorized this date 16th of January, 2009.

[Signature]

Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: MARBOB ENERGY
Field: Loco Hills
Site: Eddy County, NM
Well: Birdie Federal #8
Wellpath: VH - Job #32K12081016

Date: 01/15/2009 Time: 17:03:02 Page: 1
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,137.62Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 12/21/08 Start Date: 12/21/2008
Company: Scientific Drilling Internatio Engineer: Melendez w/GeoGyro
Tool: Keeper, Keeper Gyro Tied-to: From Surface

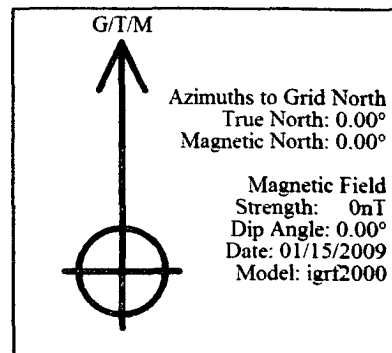
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.17	243.17	100.00	-0.04	-0.07	-0.13	0.17	0.15	243.17
200.00	0.86	145.32	200.00	0.66	-0.75	0.16	0.90	0.77	167.81
300.00	1.57	145.37	299.97	2.77	-2.50	1.37	0.71	2.85	151.27
400.00	1.46	151.03	399.94	5.36	-4.74	2.76	0.19	5.48	149.74
500.00	1.27	152.49	499.91	7.67	-6.83	3.89	0.19	7.87	150.34
600.00	1.46	133.12	599.88	10.01	-8.69	5.33	0.50	10.20	148.45
700.00	1.55	128.22	699.85	12.82	-10.40	7.33	0.16	12.72	144.83
800.00	1.36	87.39	799.82	14.71	-11.18	9.57	1.03	14.72	139.42
900.00	1.96	75.37	899.78	16.27	-10.69	12.41	0.69	16.38	130.74
1000.00	2.07	77.22	999.71	17.95	-9.86	15.83	0.13	18.65	121.92
1100.00	1.75	80.40	1099.66	19.67	-9.21	19.10	0.34	21.20	115.74
1200.00	1.22	84.75	1199.62	21.14	-8.85	21.66	0.54	23.40	112.23
1300.00	1.24	98.93	1299.60	22.63	-8.93	23.79	0.30	25.41	110.56
1400.00	1.07	104.90	1399.58	24.26	-9.33	25.76	0.21	27.40	109.91
1500.00	1.02	108.23	1499.56	25.82	-9.85	27.51	0.08	29.22	109.70
1600.00	0.92	108.73	1599.55	27.30	-10.39	29.12	0.10	30.91	109.64
1700.00	0.85	138.17	1699.54	28.74	-11.20	30.37	0.45	32.37	110.24
1800.00	0.27	221.64	1799.53	29.51	-11.93	30.71	0.86	32.94	111.23
1900.00	0.78	169.98	1899.53	30.11	-12.77	30.67	0.65	33.23	112.61
2000.00	0.53	219.52	1999.52	30.75	-13.80	30.50	0.59	33.47	114.35
2100.00	0.90	190.60	2099.52	31.29	-14.93	30.06	0.51	33.56	116.41
2200.00	0.96	199.92	2199.50	32.15	-16.49	29.63	0.16	33.91	119.10
2300.00	0.84	183.09	2299.49	33.05	-18.01	29.30	0.29	34.39	121.57
2400.00	1.00	174.75	2399.48	34.26	-19.61	29.34	0.21	35.29	123.76
2500.00	1.49	177.16	2499.45	35.96	-21.78	29.49	0.49	36.66	126.45
2600.00	1.15	203.35	2599.43	37.38	-24.00	29.15	0.68	37.76	129.46
2700.00	0.73	186.22	2699.42	38.21	-25.55	28.69	0.50	38.42	131.69
2800.00	1.07	207.04	2799.40	38.96	-27.02	28.19	0.47	39.05	133.78
2900.00	1.07	205.00	2899.39	39.65	-28.69	27.37	0.04	39.66	136.35
2950.00	1.29	191.08	2949.38	40.16	-29.67	27.07	0.72	40.16	137.62



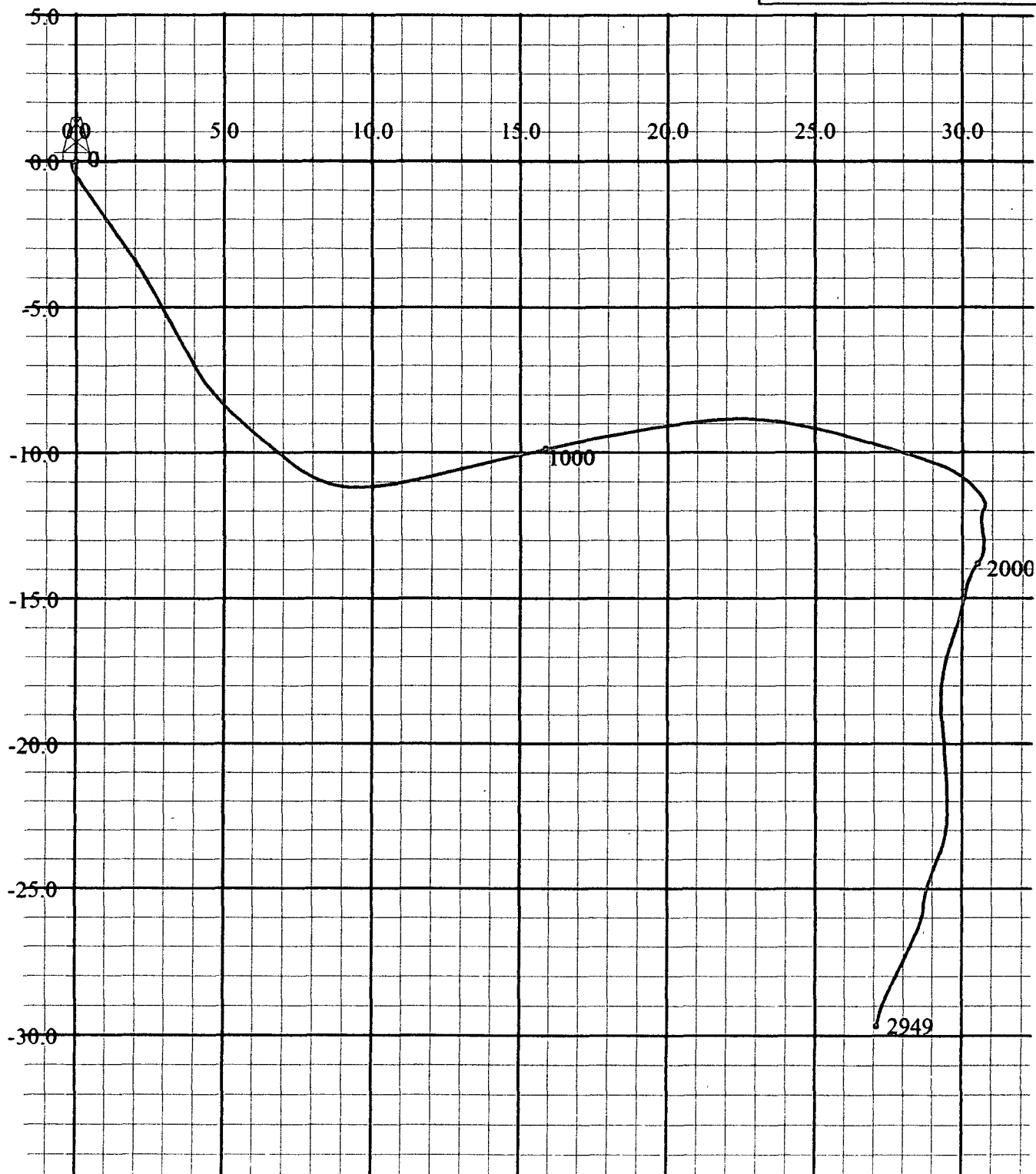
**Scientific
Drilling**

Field: Loco Hills
Site: Eddy County, NM
Well: Birdie Federal #8
Wellpath: VH - Job #32K12081016
Survey: 12/21/08



West(-)/East(+) [5ft/in]

South(-)/North(+) [5ft/in]



January 7, 2009

MARBOB ENERGY
P.O. Box 227
Artesia, NM 88211-0227

RE: MARBOB ENERGY
BIRDIE FEDERAL #8
EDDY COUNTY, NM
RIG: PERMIAN #4
FIELD: LOCO HILLS; GLORIETA-YESO
PES FILE NO.: 101008145 WT-WT

To whom it may concern:

We hereby certify that the enclosed Original Field Survey Data contained in this report represents to the best of our knowledge, a true and accurate survey of the well at the time the survey was run.

DIRECTIONAL SURVEY DATA
1 – Original survey report
2 – Survey report copies

We appreciate the opportunity to work with you and we look forward to your business support. If you have any questions, I can be reached at (432) 687-1647

Sincerely,



MIKE EVANS
MWD Engineer
PathFinder Energy Services

ML:sh