

30-005-28021

Company: Marbob Energy

Field: Hihosilver State Com #1H

Site: Hihosilver State Com #1H

Well: Hihosilver State Com #1H

Wellpath: Original Hole

Date: 01/14/2008

Co-ordinate(NE) Reference: Hihosilver State Com #1H

Vertical (TVD) Reference: SITE 0.0

Section (VS) Reference: Well (0.00N,0.00E,89.50Azi)

Plan: Plan #1 1-14-08

Field: Hihosilver State Com #1H

Chaves County, NM

Map System: US State Plane Coordinate System 1927

Geo Datum: NAD27 (Clarke 1866)

Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone

Coordinate System: Site Centre

Geomagnetic Model: igrf2005

Site: Hihosilver State Com #1H

Chaves County, NM

Section 26, T-15S, R-31E

Site Position:

From: Map

Position Uncertainty: 0.00 ft

Ground Level: 4381.00 ft

Northing: 723782.10 ft

Easting: 663727.80 ft

Latitude: 32 59 18.974 N

Longitude: 103 47 57.714 W

North Reference: Grid

Grid Convergence: 0.29 deg

Well: Hihosilver State Com #1H

Slot Name:

Well Position: +N/-S 0.00 ft

+E/-W 0.00 ft

Position Uncertainty: 0.00 ft

Northing: 723782.10 ft

Easting: 663727.80 ft

Latitude: 32 59 18.974 N

Longitude: 103 47 57.714 W

Wellpath: Original Hole

Current Datum: SITE

Magnetic Data: 01/14/2008

Field Strength: 49444 nT

Vertical Section: Depth From (TVD)

Height 0.00 ft

+N/-S ft

Drilled From: Surface

Tie-on Depth: 0.00 ft

Above System Datum: Mean Sea Level

Declination: 8 15 deg

Mag Dip Angle: 60 95 deg

+E/-W Direction

ft

deg

9000.00

0.00

0.00

89.50

Plan: Plan #1 1-14-08

Principal: No

Date Composed: 01/14/2008

Version: 1

Tied-to: From Surface

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8522.50	0.00	0.00	8522.50	0.00	0.00	0.00	0.00	0.00	0.00	
9272.56	90.00	89.50	9000.00	4.17	477.48	12.00	12.00	0.00	89.50	
13422.43	90.00	89.50	9000.00	40.50	4627.20	0.00	0.00	0.00	-89.97	Hihosilver St Com #1H PBH

Survey

MD ft.	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	
1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1100.00	0.00	0.00	1100.00	0.00	0.00	0.00	0.00	0.00	0.00	
1200.00	0.00	0.00	1200.00	0.00	0.00	0.00	0.00	0.00	0.00	
1300.00	0.00	0.00	1300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1400.00	0.00	0.00	1400.00	0.00	0.00	0.00	0.00	0.00	0.00	
1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1600.00	0.00	0.00	1600.00	0.00	0.00	0.00	0.00	0.00	0.00	

Pathfinder Energy Planning Report

Company: Marbob Energy
Field: Hihosilver State Com #1H
Site: Hihosilver State Com #1H
Well: Hihosilver State Com #1H
Wellpath: Original Hole

Date: 01/14/2008 Time: 16:15:42
Co-ordinate(NE) Reference Site: Hihosilver State Com #1H
Vertical (TVD) Reference SITE 0.0
Section (YS) Reference: Well (0.00N,0.00E,89.50Azi)
Plan: Plan #1.14-08

Page:

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1800.00	0.00	0.00	1800.00	0.00	0.00	0.00	0.00	0.00	0.00	
1900.00	0.00	0.00	1900.00	0.00	0.00	0.00	0.00	0.00	0.00	
2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2100.00	0.00	0.00	2100.00	0.00	0.00	0.00	0.00	0.00	0.00	
2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2300.00	0.00	0.00	2300.00	0.00	0.00	0.00	0.00	0.00	0.00	
2400.00	0.00	0.00	2400.00	0.00	0.00	0.00	0.00	0.00	0.00	
2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	0.00	0.00	
2600.00	0.00	0.00	2600.00	0.00	0.00	0.00	0.00	0.00	0.00	
2700.00	0.00	0.00	2700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2800.00	0.00	0.00	2800.00	0.00	0.00	0.00	0.00	0.00	0.00	
2900.00	0.00	0.00	2900.00	0.00	0.00	0.00	0.00	0.00	0.00	
3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	0.00	0.00	
3100.00	0.00	0.00	3100.00	0.00	0.00	0.00	0.00	0.00	0.00	
3200.00	0.00	0.00	3200.00	0.00	0.00	0.00	0.00	0.00	0.00	
3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3400.00	0.00	0.00	3400.00	0.00	0.00	0.00	0.00	0.00	0.00	
3500.00	0.00	0.00	3500.00	0.00	0.00	0.00	0.00	0.00	0.00	
3600.00	0.00	0.00	3600.00	0.00	0.00	0.00	0.00	0.00	0.00	
3700.00	0.00	0.00	3700.00	0.00	0.00	0.00	0.00	0.00	0.00	
3800.00	0.00	0.00	3800.00	0.00	0.00	0.00	0.00	0.00	0.00	
3900.00	0.00	0.00	3900.00	0.00	0.00	0.00	0.00	0.00	0.00	
4000.00	0.00	0.00	4000.00	0.00	0.00	0.00	0.00	0.00	0.00	
4100.00	0.00	0.00	4100.00	0.00	0.00	0.00	0.00	0.00	0.00	
4200.00	0.00	0.00	4200.00	0.00	0.00	0.00	0.00	0.00	0.00	
4300.00	0.00	0.00	4300.00	0.00	0.00	0.00	0.00	0.00	0.00	
4400.00	0.00	0.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4500.00	0.00	0.00	4500.00	0.00	0.00	0.00	0.00	0.00	0.00	
4600.00	0.00	0.00	4600.00	0.00	0.00	0.00	0.00	0.00	0.00	
4700.00	0.00	0.00	4700.00	0.00	0.00	0.00	0.00	0.00	0.00	
4800.00	0.00	0.00	4800.00	0.00	0.00	0.00	0.00	0.00	0.00	
4900.00	0.00	0.00	4900.00	0.00	0.00	0.00	0.00	0.00	0.00	
5000.00	0.00	0.00	5000.00	0.00	0.00	0.00	0.00	0.00	0.00	
5100.00	0.00	0.00	5100.00	0.00	0.00	0.00	0.00	0.00	0.00	
5200.00	0.00	0.00	5200.00	0.00	0.00	0.00	0.00	0.00	0.00	
5300.00	0.00	0.00	5300.00	0.00	0.00	0.00	0.00	0.00	0.00	
5400.00	0.00	0.00	5400.00	0.00	0.00	0.00	0.00	0.00	0.00	
5500.00	0.00	0.00	5500.00	0.00	0.00	0.00	0.00	0.00	0.00	
5600.00	0.00	0.00	5600.00	0.00	0.00	0.00	0.00	0.00	0.00	
5700.00	0.00	0.00	5700.00	0.00	0.00	0.00	0.00	0.00	0.00	
5800.00	0.00	0.00	5800.00	0.00	0.00	0.00	0.00	0.00	0.00	
5900.00	0.00	0.00	5900.00	0.00	0.00	0.00	0.00	0.00	0.00	
6000.00	0.00	0.00	6000.00	0.00	0.00	0.00	0.00	0.00	0.00	
6100.00	0.00	0.00	6100.00	0.00	0.00	0.00	0.00	0.00	0.00	
6200.00	0.00	0.00	6200.00	0.00	0.00	0.00	0.00	0.00	0.00	
6300.00	0.00	0.00	6300.00	0.00	0.00	0.00	0.00	0.00	0.00	
6400.00	0.00	0.00	6400.00	0.00	0.00	0.00	0.00	0.00	0.00	
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	0.00	0.00	
6600.00	0.00	0.00	6600.00	0.00	0.00	0.00	0.00	0.00	0.00	
6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	0.00	0.00	
6800.00	0.00	0.00	6800.00	0.00	0.00	0.00	0.00	0.00	0.00	
6900.00	0.00	0.00	6900.00	0.00	0.00	0.00	0.00	0.00	0.00	

Pathfinder Energy

Planning Report

Company: Marbob Energy
Field: Hihosilver State Com #1H
Site: Hihosilver State Com #1H
Well: Hihosilver State Com #1H
Wellpath: Original Hole

Date: 01/14/2008 **Time:** 16:15:42 **Page:** 3
Co-ordinate(NE) Reference: Hihosilver State Com #1H
Vertical (TVD) Reference: SITE 00
Section (VS) Reference: Well (0.00N,0.00E,89.50Azi)
Plan: Plan #1 1-14-08

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
7000.00	0.00	0.00	7000.00	0.00	0.00	0.00	0.00	0.00	0.00	
7100.00	0.00	0.00	7100.00	0.00	0.00	0.00	0.00	0.00	0.00	
7200.00	0.00	0.00	7200.00	0.00	0.00	0.00	0.00	0.00	0.00	
7300.00	0.00	0.00	7300.00	0.00	0.00	0.00	0.00	0.00	0.00	
7400.00	0.00	0.00	7400.00	0.00	0.00	0.00	0.00	0.00	0.00	
7500.00	0.00	0.00	7500.00	0.00	0.00	0.00	0.00	0.00	0.00	
7600.00	0.00	0.00	7600.00	0.00	0.00	0.00	0.00	0.00	0.00	
7700.00	0.00	0.00	7700.00	0.00	0.00	0.00	0.00	0.00	0.00	
7800.00	0.00	0.00	7800.00	0.00	0.00	0.00	0.00	0.00	0.00	
7900.00	0.00	0.00	7900.00	0.00	0.00	0.00	0.00	0.00	0.00	
8000.00	0.00	0.00	8000.00	0.00	0.00	0.00	0.00	0.00	0.00	
8100.00	0.00	0.00	8100.00	0.00	0.00	0.00	0.00	0.00	0.00	
8200.00	0.00	0.00	8200.00	0.00	0.00	0.00	0.00	0.00	0.00	
8300.00	0.00	0.00	8300.00	0.00	0.00	0.00	0.00	0.00	0.00	
8400.00	0.00	0.00	8400.00	0.00	0.00	0.00	0.00	0.00	0.00	
8500.00	0.00	0.00	8500.00	0.00	0.00	0.00	0.00	0.00	0.00	
8522.50	0.00	0.00	8522.50	0.00	0.00	0.00	0.00	0.00	0.00	KOP @ 8522' MD/TVD w/12"
8600.00	9.30	89.50	8599.66	0.05	6.28	6.28	12.00	12.00	0.00	
8700.00	21.30	89.50	8695.94	0.28	32.61	32.61	12.00	12.00	0.00	
8800.00	33.30	89.50	8784.64	0.68	78.39	78.39	12.00	12.00	0.00	
8900.00	45.30	89.50	8861.89	1.24	141.60	141.61	12.00	12.00	0.00	
9000.00	57.30	89.50	8924.30	1.92	219.50	219.51	12.00	12.00	0.00	
9100.00	69.29	89.50	8969.16	2.69	308.66	308.68	12.00	12.00	0.00	
9200.00	81.29	89.50	8994.50	3.54	405.21	405.22	12.00	12.00	0.00	
9272.56	90.00	89.50	9000.00	4.17	477.48	477.50	12.00	12.00	0.00	EOC @ 9273' MD / 9000' TV
9300.00	90.00	89.50	9000.00	4.41	504.93	504.94	0.00	0.00	0.00	
9400.00	90.00	89.50	9000.00	5.28	604.92	604.94	0.00	0.00	0.00	
9500.00	90.00	89.50	9000.00	6.15	704.92	704.94	0.00	0.00	0.00	
9600.00	90.00	89.50	9000.00	7.03	804.91	804.94	0.00	0.00	0.00	
9700.00	90.00	89.50	9000.00	7.90	904.91	904.94	0.00	0.00	0.00	
9800.00	90.00	89.50	9000.00	8.77	1004.91	1004.94	0.00	0.00	0.00	
9900.00	90.00	89.50	9000.00	9.65	1104.90	1104.94	0.00	0.00	0.00	
10000.00	90.00	89.50	9000.00	10.52	1204.90	1204.94	0.00	0.00	0.00	
10100.00	90.00	89.50	9000.00	11.39	1304.90	1304.94	0.00	0.00	0.00	
10200.00	90.00	89.50	9000.00	12.27	1404.89	1404.94	0.00	0.00	0.00	
10300.00	90.00	89.50	9000.00	13.14	1504.89	1504.94	0.00	0.00	0.00	
10400.00	90.00	89.50	9000.00	14.01	1604.88	1604.94	0.00	0.00	0.00	
10500.00	90.00	89.50	9000.00	14.89	1704.88	1704.94	0.00	0.00	0.00	
10600.00	90.00	89.50	9000.00	15.76	1804.88	1804.94	0.00	0.00	0.00	
10700.00	90.00	89.50	9000.00	16.64	1904.87	1904.94	0.00	0.00	0.00	
10800.00	90.00	89.50	9000.00	17.51	2004.87	2004.94	0.00	0.00	0.00	
10900.00	90.00	89.50	9000.00	18.39	2104.86	2104.94	0.00	0.00	0.00	
11000.00	90.00	89.50	9000.00	19.26	2204.86	2204.94	0.00	0.00	0.00	
11100.00	90.00	89.50	9000.00	20.14	2304.86	2304.94	0.00	0.00	0.00	
11200.00	90.00	89.50	9000.00	21.01	2404.85	2404.94	0.00	0.00	0.00	
11300.00	90.00	89.50	9000.00	21.89	2504.85	2504.94	0.00	0.00	0.00	
11400.00	90.00	89.50	9000.00	22.76	2604.85	2604.94	0.00	0.00	0.00	
11500.00	90.00	89.50	9000.00	23.64	2704.84	2704.94	0.00	0.00	0.00	
11600.00	90.00	89.50	9000.00	24.51	2804.84	2804.94	0.00	0.00	0.00	
11700.00	90.00	89.50	9000.00	25.39	2904.83	2904.94	0.00	0.00	0.00	
11800.00	90.00	89.50	9000.00	26.27	3004.83	3004.94	0.00	0.00	0.00	
11900.00	90.00	89.50	9000.00	27.14	3104.83	3104.94	0.00	0.00	0.00	
12000.00	90.00	89.50	9000.00	28.02	3204.82	3204.94	0.00	0.00	0.00	
12100.00	90.00	89.50	9000.00	28.90	3304.82	3304.94	0.00	0.00	0.00	

Pathfinder Energy

Planning Report

Company: Marbob Energy	Date: 01/14/2008	Time: 16:15.42	Page: 4
Field: Hihosilver State Com #1H	Co-ordinate(NE): Reference: Hihosilver State Com #1H		
Site: Hihosilver State Com #1H	Vertical (TVD) Reference: SITE 0.0		
Well: Hihosilver State Com #1H	Section (VS) Reference: Well (0 00N:0.00E,89.50Azi)		
Wellpath: Original Hole	Plan: Plan #1 1-14-08		

Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	Tool/Comment
12200.00	90.00	89.50	9000.00	29.77	3404.81	3404.94	0.00	0.00	0.00	
12300.00	90.00	89.50	9000.00	30.65	3504.81	3504.94	0.00	0.00	0.00	
12400.00	90.00	89.50	9000.00	31.53	3604.81	3604.94	0.00	0.00	0.00	
12500.00	90.00	89.50	9000.00	32.40	3704.80	3704.94	0.00	0.00	0.00	
12600.00	90.00	89.50	9000.00	33.28	3804.80	3804.94	0.00	0.00	0.00	
12700.00	90.00	89.50	9000.00	34.16	3904.80	3904.94	0.00	0.00	0.00	
12800.00	90.00	89.50	9000.00	35.04	4004.79	4004.94	0.00	0.00	0.00	
12900.00	90.00	89.50	9000.00	35.91	4104.79	4104.94	0.00	0.00	0.00	
13000.00	90.00	89.50	9000.00	36.79	4204.78	4204.94	0.00	0.00	0.00	
13100.00	90.00	89.50	9000.00	37.67	4304.78	4304.94	0.00	0.00	0.00	
13200.00	90.00	89.50	9000.00	38.55	4404.78	4404.94	0.00	0.00	0.00	
13300.00	90.00	89.50	9000.00	39.42	4504.77	4504.94	0.00	0.00	0.00	
13400.00	90.00	89.50	9000.00	40.30	4604.77	4604.94	0.00	0.00	0.00	
13422.43	90.00	89.50	9000.00	40.50	4627.20	4627.38	0.00	0.00	0.00	Hihosilver St Com #1H PBH

Targets

Name	Description Dip Dir	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
Hihosilver St Com #1H PBHL		9000.00	40.50	4627.20	723822.60	668355.00	32 59 19.139 N	103 47 3.387 W

Annotation

MD ft	TVD ft	
8522.50	8522.50	KOP @ 8522' MD/TVD w/12° DLS
9272.56	9000.00	EOC @ 9273' MD / 9000' TVD

Marbob Energy

COMPANY DETAILS

Marbob Energy
2208 W Main St
Artesia New Mexico

Calculation Method Minimum Curvature
Error System Systematic Ellipse
Scan Method Closest Approach 3D
Error Surface Elliptical Conic
Warning Method Error Ratio

PATHFINDER

Field: Hihosilver State Com #1H
Site: Hihosilver State Com #1H
Well: Hihosilver State Com #1H
Wellpath: Original Hole
Plan: Plan #1 1-14-08

TARGET DETAILS

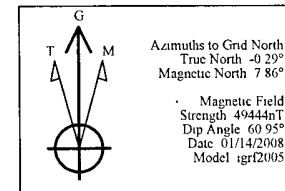
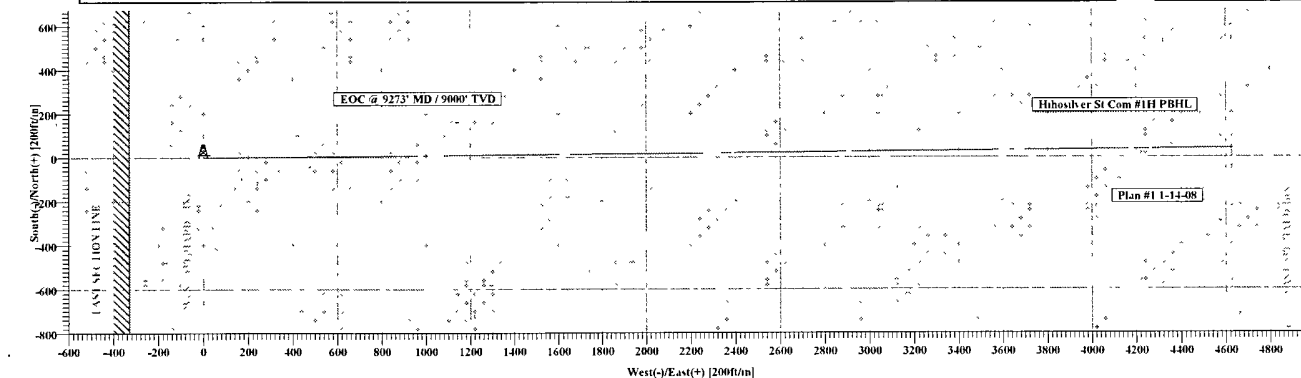
Name	TVD	+N/-S	+E/-W	Shape
Hihosilver St Com #1H PBHL	9000.00	40.50	4627.20	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLog	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	8522.50	0.00	0.00	8522.50	0.00	0.00	0.00	0.00	0.00	
3	9272.56	90.00	89.50	9000.00	4.17	477.48	12.00	89.50	477.50	
4	13422.43	90.00	89.50	9000.00	40.50	4627.20	0.00	-89.97	4627.38	Hihosilver St Com #1H PBHL

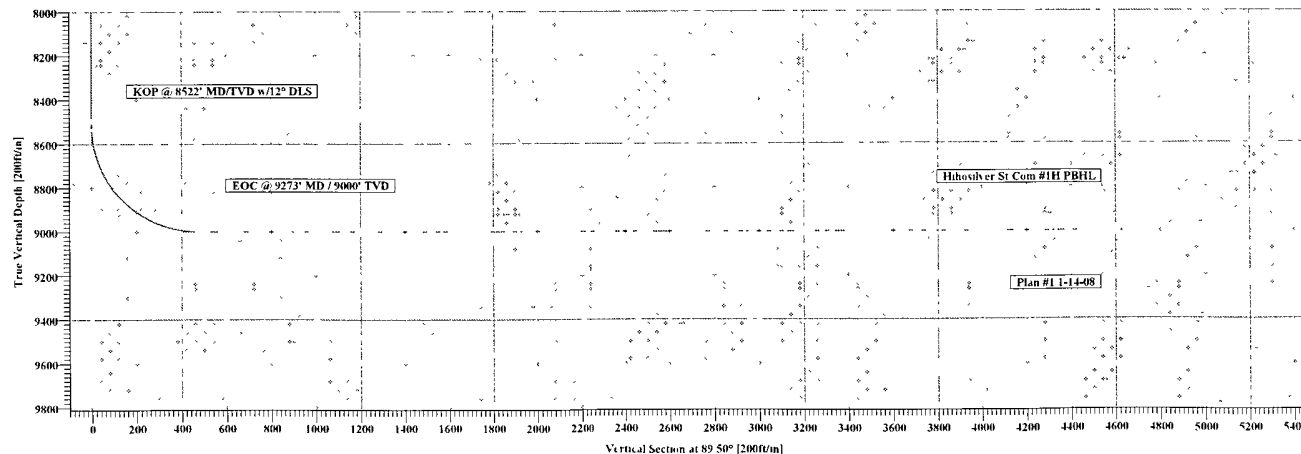
ANNOTATIONS

No	TVD	MD	Annotation
1	8522.50	8522.50	KOP @ 8522' MD/TVD w/12° DLS
2	9000.00	9272.56	EOC @ 9273' MD / 9000' TVD



SITE DETAILS

Hihosilver State Com #1H
Chaves County, NM
Section 26, T-15S, R-31E
Site Centre Northing 723782.10
Easting 663727.80
Ground Level 4381.00
Positional Uncertainty 0.00
Convergence 0.29



WELLPATH DETAILS

Original Hole

Rig Ref	Datum	SITE	0.00ft
V Section Angle	Origin +N/-S	Origin +E/-W	Starting From TVD
89.50°	0.00	0.00	9000.00