



United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Carlsbad Field Office
620 E. Greene St.
Carlsbad, NM 88220-6292



In reply refer to
3162 (522)
NMI18720

June 13, 2008

Your Reference:
NMNM 118720
B 52 Federal Com. # 5
2310 FSL & 660 FEL, Sec. 5, T19S, R32E
Lea County, NM

Marbob Energy Corp.
Attn: Nancy Agnew
P. O. Box 227
Artesia, NM 88211

CERTIFIED—RETURN RECEIPT REQUESTED
7006 0100 0003 0116 1792

Dear Ms. Agnew:

Recently, when preparing the above Application for Permit to Drill (APD) for approval, we inadvertently removed the Pathfinder Survey Report, Plan #2 from the drilling plan. That plan is enclosed in this letter. Please insert it into all copies of your approved APD for the B 52 # 5 Drilling Plan. Thank you for your cooperation.

Please accept our apology for this inconvenience.

If you have any questions, please contact Cheryle Ryan at (575) 234-5949.

Sincerely,

Cheryle Ryan

for
Don Peterson
Assistant Field Manager, Minerals

Cc:
I&E-HFO
OCD-Hobbs

RECEIVED

JUN 16 2008

HOBBS OCD

30-025- 38970

FOR RECORD ONLY

RECEIVED

JUN 16 2008

HOBBS OCD

Marbob

B-52 Federal #5

B-52 Federal #5

B-52 Federal #5

Original Hole

Plan: Plan #2

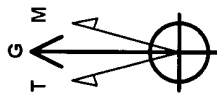
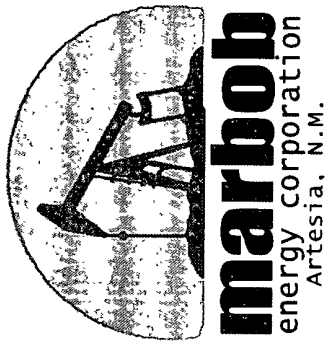
Pathfinder Survey Report

16 April, 2008

RECEIVED

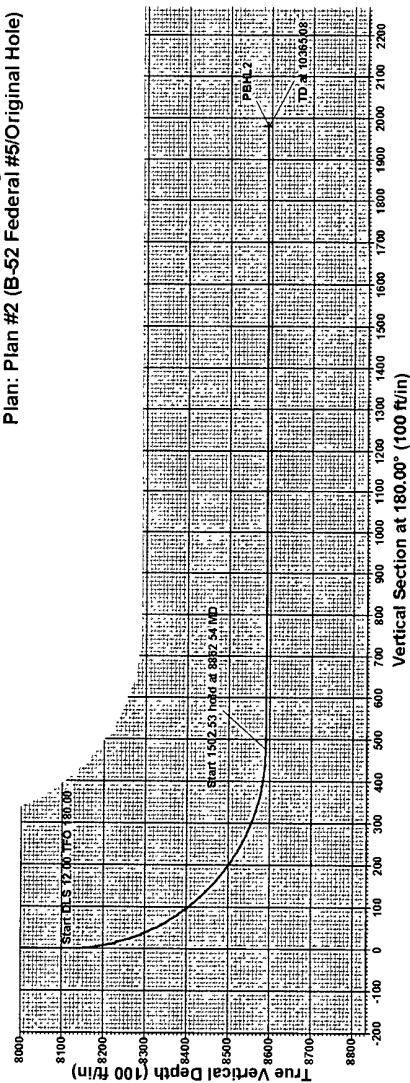
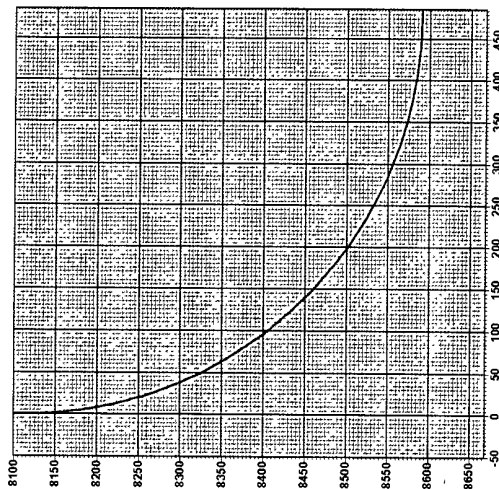
JUN 16 2008 PM 3:58

BUREAU OF INVESTIGATION
OFFICE OF THE ATTORNEY GENERAL



Azimuths to Grid North
 True North: -0.30°
 Magnetic North: 7.79°
 Magnetic Field
 Strength: 49211.8snT
 Dip Angle: 60.87°
 Date: 4/16/2008
 Model: IGRF200510

PATHFINDER
ENERGY SERVICES



WELL DETAILS B-52 Federal #5

Ground Elevation: -3659.00
 RKB Elevation: EST RKB @ 3659.00ft
 Rig Name:

	+EUM	North	East	Latitude	Longitude	Slot
	0.00	614607.000	666770.800	32° 41' 18.303" N	103° 45' 53.611" W	

SECTION DETAILS

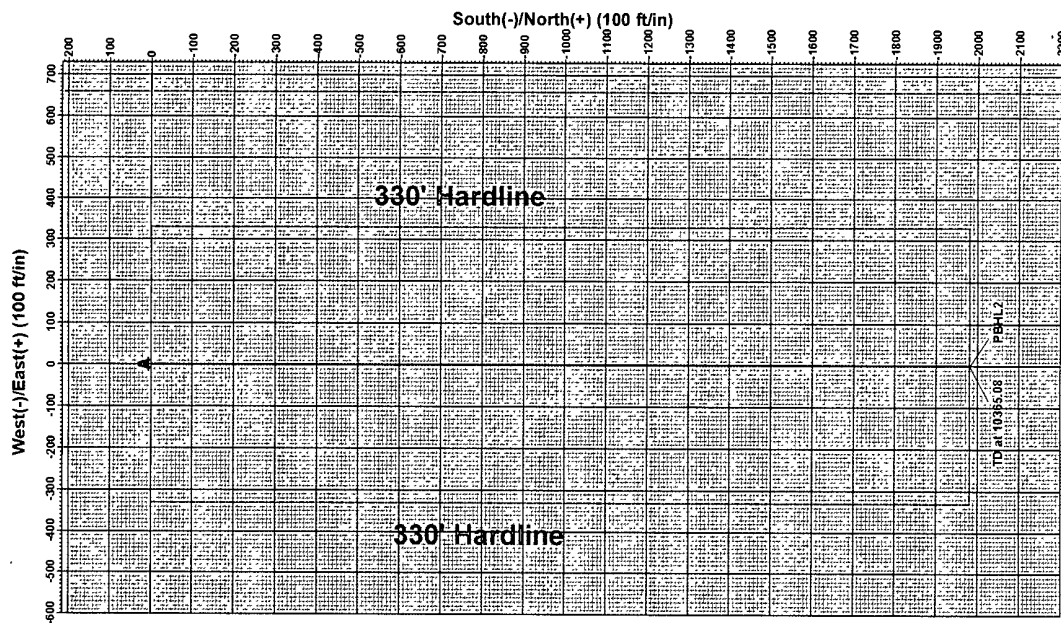
Sec	MD	Inc	Adj	TVD	+N/S	+E/W	DLeg	TFace	VSec	Target
2	8112.54	0.00	0.00	8112.54	0.00	0.00	0.00	0.00	0.00	0.00
3	8862.54	90.00	180.00	8500.00	-477.47	0.00	12.00	180.00	477.47	0.00
4	10365.08	90.00	180.00	8590.00	-1980.00	0.00	0.00	0.00	1980.00	PBHL2

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/S	+E/W	North	East	Shape
PBHL2	8590.00	-1980.00	0.00	612627.000	666770.800	Point

PROJECT DETAILS B-52 Federal #5
 Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001
 System Datum: Mean Sea Level
 Local North: Grid

Project: B-52 Federal #5
Site: B-52 Federal #5
Well: B-52 Federal #5
Wellbore: Original Hole
Plan: Plan #2 (B-52 Federal #5/Original Hole)



Plan: Plan #2 (B-52 Federal #5/Original Hole)
 Created By: Mark Freeman Date: 11/06/2008
 Checked: _____ Date: _____

WHS

Pathfinder Survey Report

Company: Marbob	Local Co-ordinate Reference: Well B-52 Federal #5
Project: B-52 Federal #5	TVD Reference: EST RKB @ 3659.00ft
Site: B-52 Federal #5	MD Reference: EST RKB @ 3659.00ft
Well: B-52 Federal #5	North Reference: Grd
Wellbore: Original Hole	Survey Calculation Method: Minimum Curvature
Design: Plan #2	Database: EDM 2003.16 Single User Db

Project	B-52 Federal #5		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	B-52 Federal #5		
Site Position:		Northing:	614,607.000 ft
From:	Map	Easting:	669,770.800 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 41' 18.383 N
		Longitude:	103° 46' 53.461 W
		Grid Convergence:	0.30 °

Well	B-52 Federal #5		
Well Position	+N/-S	0.00 ft	Northing: 614,607.000 ft
	+E/-W	0.00 ft	Easting: 669,770.800 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 41' 18.383 N
		Longitude:	103° 46' 53.461 W
		Ground Level:	3,659.00 ft

Wellbore	Original Hole		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	4/16/2008	(°) 8.09
			Dip Angle (°) 60.67
			Field Strength (nT) 49,212

Design	Plan #2		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction (°) 180.00

Survey Tool Program	Date 4/16/2008		
From	To	Survey (Wellbore)	Tool Name
(ft)	(ft)		
0.00	10,365.08	Plan #2 (Original Hole)	MWD
			Description
			MWD - Standard

Planned Survey							
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)
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
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00

WHS

Pathfinder Survey Report

Company: Marbob
Project: B-52 Federal #5
Site: B-52 Federal #5
Well: B-52 Federal #5
Wellbore: Original Hole
Design: Plan #2

Local Co-ordinate Reference: Well B-52 Federal #5
TVD Reference: EST RKB @ 3659 00ft
MD Reference: EST RKB @ 3659 00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00

WHS

Pathfinder Survey Report

Company: Marbob
Project: B-52 Federal #5
Site: B-52 Federal #5
Well: B-52 Federal #5
Wellbore: Original Hole
Design: Plan #2

Local Co-ordinate Reference: Well B-52 Federal #5
TVD Reference: EST RKB @ 3659.00ft
MD Reference: EST RKB @ 3659.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00
8,112.54	0.00	0.00	8,112.54	0.00	0.00	0.00	0.00
8,125.00	1.50	180.00	8,125.00	-0.16	0.00	0.16	12.00
8,150.00	4.50	180.00	8,149.96	-1.47	0.00	1.47	12.00
8,175.00	7.50	180.00	8,174.82	-4.08	0.00	4.08	12.00
8,200.00	10.50	180.00	8,199.51	-7.99	0.00	7.99	12.00
8,225.00	13.50	180.00	8,223.96	-13.18	0.00	13.18	12.00
8,250.00	16.50	180.00	8,248.11	-19.65	0.00	19.65	12.00
8,275.00	19.50	180.00	8,271.88	-27.37	0.00	27.37	12.00
8,300.00	22.50	180.00	8,295.22	-36.33	0.00	36.33	12.00
8,325.00	25.50	180.00	8,318.06	-46.49	0.00	46.49	12.00
8,350.00	28.50	180.00	8,340.33	-57.84	0.00	57.84	12.00
8,375.00	31.50	180.00	8,361.98	-70.34	0.00	70.34	12.00
8,400.00	34.50	180.00	8,382.95	-83.95	0.00	83.95	12.00
8,425.00	37.50	180.00	8,403.17	-98.64	0.00	98.64	12.00
8,450.00	40.50	180.00	8,422.60	-114.37	0.00	114.37	12.00
8,475.00	43.50	180.00	8,441.18	-131.10	0.00	131.10	12.00
8,500.00	46.50	180.00	8,458.85	-148.77	0.00	148.77	12.00
8,525.00	49.50	180.00	8,475.58	-167.35	0.00	167.35	12.00

WHS

Pathfinder Survey Report

Company: Marbob
Project: B-52 Federal #5
Site: B-52 Federal #5
Well: B-52 Federal #5
Wellbore: Original Hole
Design: Plan #2

Local Co-ordinate Reference: Well B-52 Federal #5
TVD Reference: EST RKB @ 3659 00ft
MD Reference: EST RKB @ 3659 00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003 16 Single User Db

Planned Survey

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)
8,550.00	52.50	180.00	8,491.31	-186.77	0.00	186.77	12.00
8,575.00	55.50	180.00	8,506.01	-206.99	0.00	206.99	12.00
8,600.00	58.50	180.00	8,519.62	-227.96	0.00	227.96	12.00
8,625.00	61.50	180.00	8,532.13	-249.60	0.00	249.60	12.00
8,650.00	64.50	180.00	8,543.48	-271.87	0.00	271.87	12.00
8,675.00	67.50	180.00	8,553.64	-294.71	0.00	294.71	12.00
8,700.00	70.50	180.00	8,562.60	-318.05	0.00	318.05	12.00
8,725.00	73.50	180.00	8,570.33	-341.82	0.00	341.82	12.00
8,750.00	76.50	180.00	8,576.80	-365.96	0.00	365.96	12.00
8,775.00	79.50	180.00	8,582.00	-390.41	0.00	390.41	12.00
8,800.00	82.50	180.00	8,585.91	-415.10	0.00	415.10	12.00
8,825.00	85.50	180.00	8,588.53	-439.96	0.00	439.96	12.00
8,850.00	88.50	180.00	8,589.84	-464.93	0.00	464.93	12.00
8,862.54	90.00	180.00	8,590.00	-477.47	0.00	477.47	12.00
8,900.00	90.00	180.00	8,590.00	-514.92	0.00	514.92	0.00
9,000.00	90.00	180.00	8,590.00	-614.92	0.00	614.92	0.00
9,100.00	90.00	180.00	8,590.00	-714.92	0.00	714.92	0.00
9,200.00	90.00	180.00	8,590.00	-814.92	0.00	814.92	0.00
9,300.00	90.00	180.00	8,590.00	-914.92	0.00	914.92	0.00
9,400.00	90.00	180.00	8,590.00	-1,014.92	0.00	1,014.92	0.00
9,500.00	90.00	180.00	8,590.00	-1,114.92	0.00	1,114.92	0.00
9,600.00	90.00	180.00	8,590.00	-1,214.92	0.00	1,214.92	0.00
9,700.00	90.00	180.00	8,590.00	-1,314.92	0.00	1,314.92	0.00
9,800.00	90.00	180.00	8,590.00	-1,414.92	0.00	1,414.92	0.00
9,900.00	90.00	180.00	8,590.00	-1,514.92	0.00	1,514.92	0.00
10,000.00	90.00	180.00	8,590.00	-1,614.92	0.00	1,614.92	0.00
10,100.00	90.00	180.00	8,590.00	-1,714.92	0.00	1,714.92	0.00
10,200.00	90.00	180.00	8,590.00	-1,814.92	0.00	1,814.92	0.00
10,300.00	90.00	180.00	8,590.00	-1,914.92	0.00	1,914.92	0.00
10,365.08	90.00	180.00	8,590.00	-1,980.00	0.00	1,980.00	0.00

Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- Shape									
PBHL2	0.00	0.00	8,590.00	-1,980.00	0.00	612,627.000	669,770.800	32° 40' 58.791 N	103° 46' 53.582 W
- plan hits target									
- Point									

Checked By: _____ Approved By: _____ Date: _____