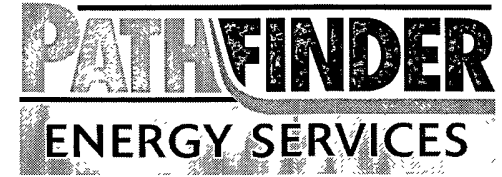




Azimuths to Grid North
 True North: -0.29°
 Magnetic North: 7.79°

Magnetic Field
 Strength: 49214.5snT
 Dip Angle: 60.68°
 Date: 4/23/2008
 Model: IGRF200510

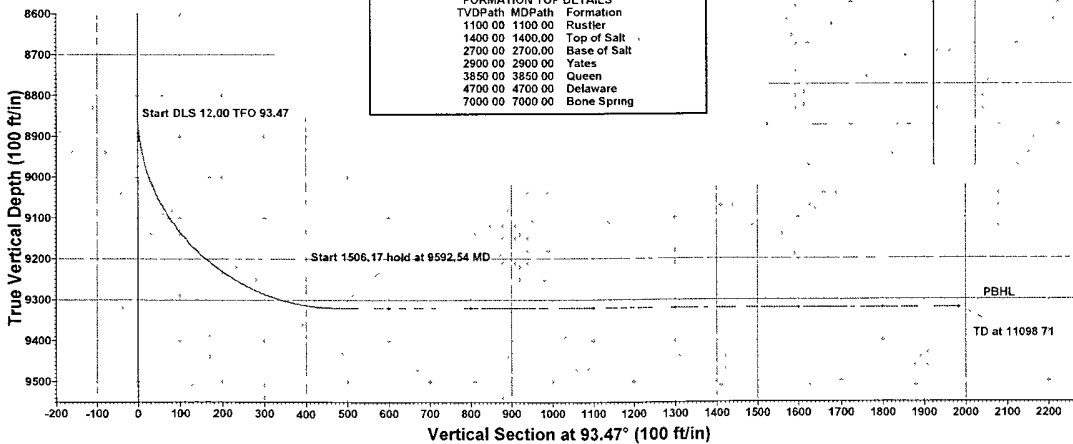
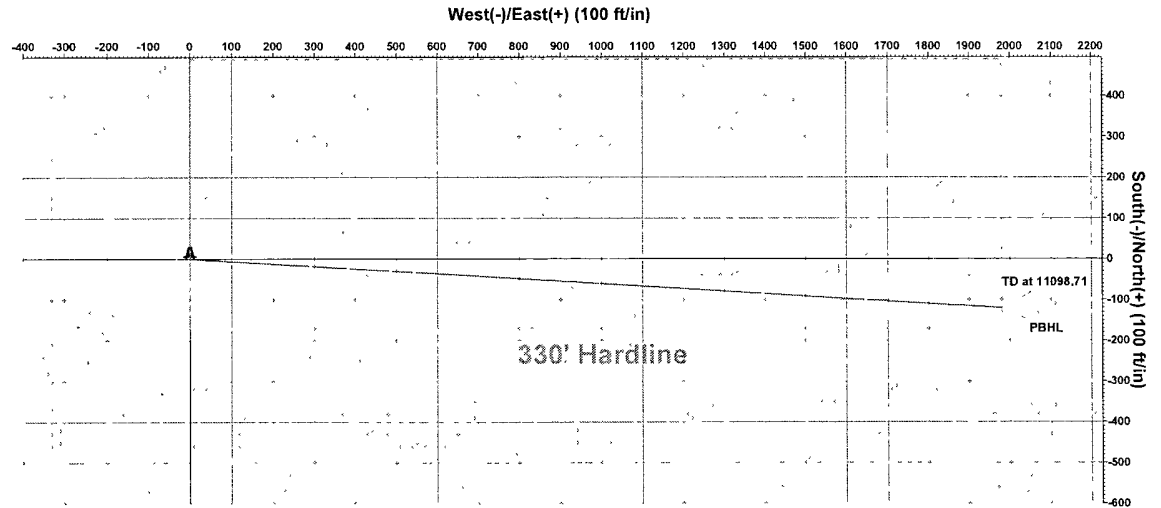
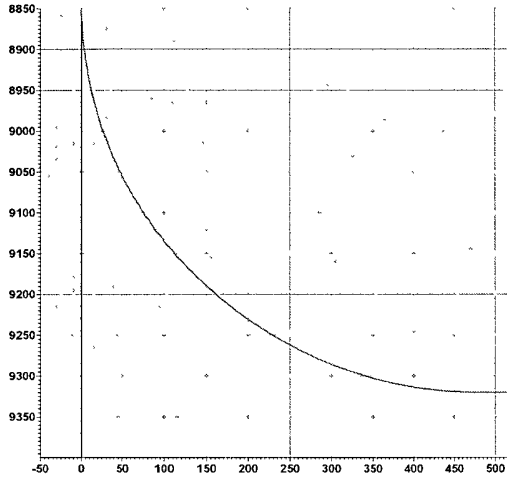


Project: Lear State #2
 Site: Lear State #2
 Well: Lear State #2
 Wellbore: Original hole
 Plan: Plan #1 (Lear State #2/Original hole)

WELL DETAILS Lear State #2									
Ground Elevation		3677.00							
RKB Elevation		EST RKB @ 3677.00ft							
Rig Name									
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot			
0.00	0.00	618078.300	666775.800	32° 41' 52.885 N	103° 47' 28.298 W				

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	8842.54	0.00	0.00	8842.54	0.00	0.00	0.00	0.00	0.00	
3	9592.54	90.00	93.47	9320.00	-28.88	476.59	12.00	93.47	477.47	
4	11098.71	90.00	93.47	9320.00	-120.00	1980.00	0.00	0.00	1983.63	PBHL

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	9320.00	-120.00	1980.00	617958.300	666755.800	Point



FORMATION TOP DETAILS		
TVDPath	MDPath	Formation
1100.00	1100.00	Rustler
1400.00	1400.00	Top of Salt
2700.00	2700.00	Base of Salt
2900.00	2900.00	Yates
3850.00	3850.00	Queen
4700.00	4700.00	Delaware
7000.00	7000.00	Bone Spring

PROJECT DETAILS: Lear State #2	
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

Plan #1 (Lear State #2/Original hole)	
Created By	Mark Freeman
Date	15 35, April 23 2008
Checked	_____
Date	_____

WHS

Pathfinder Survey Report

Company: Marbob	Local Co-ordinate Reference: Well Lear State #2
Project: Lear State #2	TVD Reference: EST RKB @ 3677 00ft
Site: Lear State #2	MD Reference: EST RKB @ 3677 00ft
Well: Lear State #2	North Reference: Grid
Wellbore: Original hole	Survey Calculation Method: Minimum Curvature
Design: Plan #1	Database: EDM 2003 16 Single User Db

Project: Lear State #2	
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: Lear State #2			
Site Position:	Northing: 618,078.300ft	Latitude: 32° 41' 52.885 N	
From: Map	Easting: 666,775.800ft	Longitude: 103° 47' 28.298 W	
Position Uncertainty: 0 00 ft	Slot Radius: "	Grid Convergence: 0.29 °	

Well: Lear State #2			
Well Position	+N/-S 0 00 ft	Northing: 618,078.300 ft	Latitude: 32° 41' 52.885 N
	+E/-W 0 00 ft	Easting: 666,775 800 ft	Longitude: 103° 47' 28 298 W
Position Uncertainty	0 00 ft	Wellhead Elevation: ft	Ground Level: 3,677.00 ft

Wellbore: Original hole					
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
	IGRF200510	4/23/2008	(°) 8 09	(°) 60 68	(nT) 49,215

Design: Plan #1					
Audit Notes:					
Version:	Phase: PLAN	Tie On Depth: 0.00			
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(ft) 0.00	(ft) 0.00	(ft) 0.00	(°) 93.47	

Survey Tool Program		Date: 4/23/2008
From	To	Survey (Wellbore)
(ft) 0 00	(ft) 11,098.71	Plan #1 (Original hole)
Tool Name		Description
MWD		MWD - Standard

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	Local Co-ordinate Reference: Well Lear State #2
Project: Lear State #2	TVD Reference: EST RKB @ 3677.00ft
Site: Lear State #2	MD Reference: EST RKB @ 3677.00ft
Well: Lear State #2	North Reference: Grid
Wellbore: Original hole	Survey Calculation Method: Minimum Curvature
Design: Plan #1	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: Lear State #2
Site: Lear State #2
Well: Lear State #2
Wellbore: Original hole
Design: Plan #1

Local Co-ordinate Reference: Well Lear State #2
TVD Reference: EST RKB @ 3677.00ft
MD Reference: EST RKB @ 3677.00ft
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
8,200.00	0 00	0 00	8,200.00	0 00	0 00	0 00	0 00
8,300.00	0 00	0 00	8,300.00	0 00	0 00	0 00	0 00
8,400.00	0 00	0 00	8,400.00	0 00	0 00	0 00	0 00
8,500.00	0 00	0 00	8,500.00	0 00	0 00	0 00	0 00
8,600.00	0 00	0 00	8,600.00	0 00	0 00	0 00	0 00
8,700.00	0 00	0 00	8,700.00	0 00	0 00	0 00	0 00
8,800.00	0 00	0 00	8,800.00	0 00	0 00	0 00	0 00
8,842.54	0 00	0 00	8,842.54	0 00	0 00	0 00	0 00
8,850.00	0 90	93.47	8,850.00	0 00	0 06	0 06	12 00
8,875.00	3 90	93.47	8,874.98	-0 07	1 10	1 10	12 00
8,900.00	6 90	93.47	8,899.86	-0 21	3 45	3 45	12 00
8,925.00	9 90	93.47	8,924.59	-0 43	7 09	7 10	12 00
8,950.00	12 90	93 47	8,949 10	-0 73	12 02	12 04	12 00
8,975.00	15 90	93 47	8,973.31	-1.10	18.22	18.26	12 00
9,000.00	18 90	93.47	8,997 16	-1 56	25.68	25 73	12 00
9,025.00	21 90	93 47	9,020 59	-2 08	34.38	34.44	12 00
9,050.00	24 90	93 47	9,043 53	-2 68	44 29	44 37	12 00
9,075.00	27 90	93.47	9,065.92	-3.36	55.38	55.48	12 00

WHS

Pathfinder Survey Report

Company: Marbob
Project: Lear State #2
Site: Lear State #2
Well: Lear State #2
Wellbore: Original hole
Design: Plan #1

Local Co-ordinate Reference: Well Lear State #2
TVD Reference: EST RKB @ 3677.00ft
MD Reference: EST RKB @ 3677.00ft
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)
9,100.00	30.90	93.47	9,087.70	-4.10	67.62	67.75	12.00
9,125.00	33.90	93.47	9,108.81	-4.91	80.99	81.14	12.00
9,150.00	36.90	93.47	9,129.19	-5.78	95.44	95.62	12.00
9,175.00	39.90	93.47	9,148.78	-6.72	110.94	111.14	12.00
9,200.00	42.90	93.47	9,167.53	-7.72	127.44	127.67	12.00
9,225.00	45.90	93.47	9,185.39	-8.78	144.90	145.16	12.00
9,250.00	48.90	93.47	9,202.31	-9.89	163.26	163.56	12.00
9,275.00	51.90	93.47	9,218.25	-11.06	182.49	182.82	12.00
9,300.00	54.90	93.47	9,233.15	-12.27	202.52	202.89	12.00
9,325.00	57.90	93.47	9,246.99	-13.53	223.30	223.71	12.00
9,350.00	60.90	93.47	9,259.72	-14.83	244.77	245.22	12.00
9,375.00	63.90	93.47	9,271.30	-16.17	266.88	267.37	12.00
9,400.00	66.90	93.47	9,281.71	-17.55	289.57	290.10	12.00
9,425.00	69.90	93.47	9,290.91	-18.96	312.77	313.34	12.00
9,450.00	72.90	93.47	9,298.89	-20.39	336.42	337.03	12.00
9,475.00	75.90	93.47	9,305.61	-21.85	360.45	361.11	12.00
9,500.00	78.90	93.47	9,311.07	-23.32	384.80	385.50	12.00
9,525.00	81.90	93.47	9,315.24	-24.81	409.40	410.15	12.00
9,550.00	84.90	93.47	9,318.11	-26.31	434.18	434.98	12.00
9,575.00	87.90	93.47	9,319.68	-27.82	459.09	459.93	12.00
9,592.54	90.00	93.47	9,320.00	-28.88	476.59	477.47	12.00
9,600.00	90.00	93.47	9,320.00	-29.34	484.04	484.92	0.00
9,700.00	90.00	93.47	9,320.00	-35.39	583.85	584.92	0.00
9,800.00	90.00	93.47	9,320.00	-41.43	683.67	684.92	0.00
9,900.00	90.00	93.47	9,320.00	-47.48	783.49	784.92	0.00
10,000.00	90.00	93.47	9,320.00	-53.53	883.30	884.92	0.00
10,100.00	90.00	93.47	9,320.00	-59.58	983.12	984.92	0.00
10,200.00	90.00	93.47	9,320.00	-65.63	1,082.94	1,084.92	0.00
10,300.00	90.00	93.47	9,320.00	-71.68	1,182.75	1,184.92	0.00
10,400.00	90.00	93.47	9,320.00	-77.73	1,282.57	1,284.92	0.00
10,500.00	90.00	93.47	9,320.00	-83.78	1,382.39	1,384.92	0.00
10,600.00	90.00	93.47	9,320.00	-89.83	1,482.21	1,484.92	0.00
10,700.00	90.00	93.47	9,320.00	-95.88	1,582.02	1,584.92	0.00
10,800.00	90.00	93.47	9,320.00	-101.93	1,681.84	1,684.92	0.00
10,900.00	90.00	93.47	9,320.00	-107.98	1,781.66	1,784.92	0.00
11,000.00	90.00	93.47	9,320.00	-114.03	1,881.47	1,884.92	0.00
11,098.71	90.00	93.47	9,320.00	-120.00	1,980.00	1,983.63	0.00

WHS

Pathfinder Survey Report

Company: Marbob
Project: Lear State #2
Site: Lear State #2
Well: Lear State #2
Wellbore: Original hole
Design: Plan #1

Local Co-ordinate Reference: Well Lear State #2
TVD Reference: EST RKB @ 3677.00ft
MD Reference: EST RKB @ 3677.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Single User Db

Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PBHL	0.00	0.00	9,320.00	-120.00	1,980.00	617,958.300	668,755.800	32° 41' 51.597 N	103° 47' 5.135 W
- plan hits target									
- Point									

Formations

Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction
(ft)	(ft)			(°)	(°)
4,700.00	4,700.00	Delaware		0.00	
2,700.00	2,700.00	Base of Salt		0.00	
1,400.00	1,400.00	Top of Salt		0.00	
7,000.00	7,000.00	Bone Spring		0.00	
1,100.00	1,100.00	Rustler		0.00	
3,850.00	3,850.00	Queen		0.00	
2,900.00	2,900.00	Yates		0.00	

Checked By: _____ Approved By: _____ Date: _____