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HOBBSOCD

PathFinder Energy Services, Inc.
BHL Report

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Tie-in Date: 06/27/2009

Date Completed: 07/06/2009

MARBOB ENERGY
S L DEEP FEDERAL #3
LEA COUNTY, NM
Rig: PATRIOT #2
PathFinder Office Supervisor: FRANCISCO SINISTERRA
PathFinder Field Engineers: MIKE EVANS
MATT SHIPP

Survey Horiz. Reference: WELLHEAD
Ref Coordinates: LAT: 32.38.9.2461 N LON: 103.48.29.9859 W
GRID Reference: NAD27 new mexico east Transverse Mercator
Ref GRID Coord: X: 661616.1788 Y: 595451.6809
North Aligned To: GRID NORTH
Total Magnetic Correction: 7.67° EAST TO GRID
Vertical Section Plane: 0.00
Survey Vert. Reference: 18.00' Kelly Bushing To Ground
Altitude: 3537.00' Ground To MSL

SUR: C-30-19s-32e, 990/N & 1650/W
BHL: C-30-19s-32e, 999/N & 1726/W
API # 30-025-39441

Measured Depth	9580.00	(feet)
Inclination	2.46	(deg)
Azimuth	96.31	(deg)
True Vertical Depth	9578.62	(feet)
Vertical Section	-9.08	(feet)
Survey X cord	661691.89	(feet)
Survey Y cord	595442.60	(feet)
Survey Lat	32.63587571 N	(deg)
Survey Lon	103.80808365 W	(deg)
Rectangular Corr. N/S	9.08 S	(feet)
Rectangular Corr. E/W	75.71 E	(feet)
Closure Distance	76.25	(feet)
Direction of Closure	96.84	(deg)
Dogleg Severity	0.00	(deg/100ft)