

A Gyrodata Directional Survey

Field Copy Only, not definitive

for

AMERADA HESS

Lease: LAUGHLIN Well: # 6, 4-1/2" DRILLPIPE
Location: PATTERSON-UTI # 707, LEA COUNTY, NEW MEXICO

Job Number: MD0605GW173

Run Date: 6/17/2005 1:34:36 AM

Surveyor: JAMES KING

Calculation Method: MINIMUM CURVATURE

Survey Latitude: 32.592500 deg. N Longitude: 103.261111 deg. W

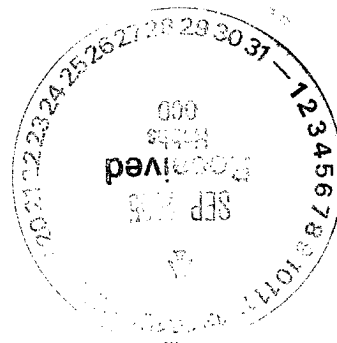
Azimuth Correction:

Gyro: -0.58000 deg West to Grid North

Vertical Section Calculated from Well Head Location

Closure Calculated from Well Head Location

Horizontal Coordinates Calculated from Well Head Location



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STAT NO.	MEASURED DEPTH feet	I N C L deg.	AZIMUTH deg.	HIGH SIDE TOOLFACE deg.	GYRO TOOL FACE deg.
TAKE SEATS					
14	3140.00	0.43	137.45	46.94L	90.51
15	3140.00	0.43	137.67	46.72L	90.95
16	3140.00	0.42	110.49	150.93R	261.42
17	3140.00	0.44	138.18	47.64L	90.54
18	3140.00	0.45	137.75	47.59L	90.15
FINAL SHOTS/ DIR. SET					
19	3140.00	0.55	117.42	63.00L	54.42
20	3140.00	0.55	117.79	63.12L	54.67