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NM OIL CONSERVATION
ARTESIA DISTRICT

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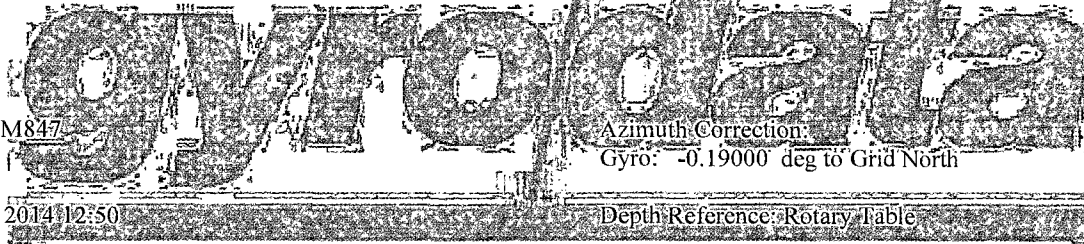
A Gyrodata Directional Survey

FINAL DEFINITIVE COPY

for

BOPCO, L.P

Lease: BIG EDDY UNIT DRILLING IISLAND 28 Well: 277H, 5" DRILLPIPE
Location: INDEPENDENCE DRILLING RIG 207, EDDY COUNTY, NEW MEXICO



Job Number: MD0814GDM847

Run Date: 28 Aug 2014

Report Generated: 02 Sep 2014 12:50

Azimuth Correction:

Gyro: -0.19000 deg to Grid North

Depth Reference: Rotary Table

Surveyor: Marlin Willeford

Air Gap (RKB to Ground / RKB to MSL): 26.00

Calculation Method: MINIMUM CURVATURE

Vertical Section Calculated from Well Head Location

Survey surface coordinates obtained from: Well Plan/Plot

Closure Calculated from Well Head Location

Survey Latitude: 32.484653 deg. N Longitude: 103.977353 deg. W

Horizontal Coordinates Calculated from Well Head Location

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MEASURED DEPTH feet	INCL deg.	AZIMUTH deg.	DOGLEG SEVERITY deg./ 100 ft.	VERTICAL DEPTH feet	CLOSURE DIST. feet	AZIMUTH deg.	HORIZONTAL COORDINATES feet
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0.00	0.00	0.00	0.00	0.00	0.0	0.0	0.00 N 0.00 E
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0 - 627.25 FT. RATE GYROSCOPIC MULTISHOT SURVEY RUN INSIDE 5" DRILLPIPE

ALL MEASURED DEPTHS AND COORDINATES REFERENCED TO INDEPENDENCE DRILLING RIG #207 R.K.B. HEIGHT OF 26 FT.

87.27	0.84	353.82	0.96	87.27	0.6	353.8	0.64 N 0.07 W
184.06	0.56	352.81	0.29	184.05	1.8	353.6	1.81 N 0.20 W
277.34	0.09	1.53	0.51	277.33	2.4	353.7	2.34 N 0.26 W
370.52	0.05	287.98	0.10	370.51	2.4	353.0	2.42 N 0.30 W
463.82	0.04	279.57	0.01	463.81	2.5	351.5	2.44 N 0.37 W
557.08	0.08	267.65	0.04	557.07	2.5	349.3	2.44 N 0.46 W
627.25	0.07	239.81	0.05	627.24	2.5	347.2	2.42 N 0.55 W

Final Station Closure: Distance: 2.48 ft Az: 347.21 deg.

