

## Blowout Preventer Equipment (BOPE)

ABHP = 3000 PSI; TVD = 7,741 Feet; Mud Weight = NA\*

\* Air drilled hole for production casing.

Operator's Gradient (ABHP / TVD) = 0.388 PSI/Ft is / is not appropriate and

does / does not coincide with the Anticipated Mud Weight for each drilled interval.

The most credible ABHP is 0.388 PSI/Ft.

Mud Weight x 0.05195 = Gradient

NA\* X 0.05195 = #VALUE!

ABHP - (0.22 x TVD) = ASP

3000 - ( 0.22 X 7741 ) 1297 psi

Operator's proposed BOPE of 3 M exceeds / does not exceed the ASP and is therefore adequate / not adequate.

Note ASP - Anticipated Surface Pressure

ABHP - Anticipated Bottom Hole Pressure



**Key Energy Services, Inc.**

Four Corners Division  
5651 US Highway 64  
P.O. Box 900  
Farmington, NM 87499

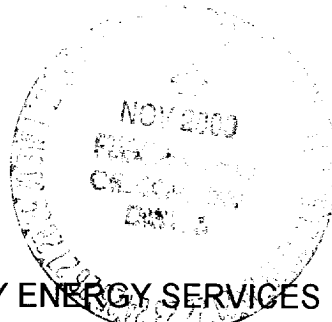
Phone: 505-327-4935  
Fax: 505-327-4962

DATE: 9/5/00

RIG #47

PHILLIPS PETROLEUM COMPANY  
5525 HWY 64 NBU 3004  
FARMINGTON, N.M. 87401

ATTN: PATSY CLUGSTON



THIS LETTER IS TO CERTIFY THAT KEY ENERGY SERVICES DID RUN DEVIATION SURVEYS AT THE LISTED DEPTH ON YOUR SAN JUAN 29-6 UNIT #91M WELL, IN SECTION 21, T-29-N, R-06-W, IN RIO ARriba COUNTY, NEW MEXICO.

DEPTH	DEGREE DEVIATION	DEPTH	DEGREE DEVIATION
156	1	4468	1
310	3/4	4965	1/2
622	1	5463	1
1147	1	5959	3/4
2211	1-1/4	6456	3/4
2708	1-1/4	6861	3/4
3331	1-1/4	7352	1/2
3614	1-1/4	7540	1/2
3940	3/4		

TO THE BEST OF MY KNOWLEDGE, I SWEAR THIS INFORMATION TO BE TRUE.

SINCERELY,

JOHN K. RICHARDSON  
DRILLING CONTRACT MANAGER

  
Notary Public

My commission expires:

6/26/02

DATA,PHILSURV