WELL NAME AND N	MBER Big Red Federal Com #1	
LOCATION	Section 30, T-18-S, R-31-E, Eddy County, New Mexico	
OPERATOR	Chi Energy Inc., 212 N. Main, Suite 200, Midland, Texas 79701	
DRILLING CONTRAC	OR TMBR/Sharp Drilling, Inc., P. O. Drawer 10970, Midland, TX 79702	

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The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

.50 @ $134'$ $1.00 @$ $3,187'$ $1.00 @$ $6,090'$ $.75 @$ $9,192'$ $.25 @$ $289'$ $.50 @$ $3,454'$ $.75 @$ $6,341'$ $1.00 @$ $9,215'$ $1.25 @$ $485'$ $.50 @$ $3,737'$ $.75 @$ $6,592'$ $1.50 @$ $9,412'$ $1.25 @$ $604'$ $1.00 @$ $3,987'$ $.75 @$ $6,642'$ $1.00 @$ $9,568'$ $1.00 @$ $726'$ $.75 @$ $4,237'$ $2.50 @$ $7,092'$ $.75 @$ $9,755'$ $.75 @$ $815'$ $.75 @$ $4,237'$ $2.50 @$ $7,092'$ $.75 @$ $9,942'$ $1.00 @$ $1,000'$ $1.00 @$ $4,743'$ $.75 @$ $7,438'$ $1.50 @$ $10,130'$ $.75 @$ $1,189'$ $1.75 @$ $4,931'$ $.75 @$ $7,561'$ $2.00 @$ $10,317'$ $1.50 @$ $1,937'$ $2.00 @$ $5,025'$ $.75 @$ $7,939'$ $1.50 @$ $10,400'$ $.75 @$ $2,249'$ $1.75 @$ $5,120'$ $.75 @$ $7,939'$ $1.50 @$ $10,525'$ $.25 @$ $2,249'$ $1.75 @$ $5,276'$ $1.00 @$ $8,219'$ $1.25 @$ $10,745'$ $1.00 @$ $2,624'$ $1.25 @$ $5,589'$ $1.25 @$ $8,720'$ $1.25 @$ $11,403'$ $.50 @$ $2,812'$ $1.25 @$ $5,934'$ $1.00 @$ $8,972'$ $.75 @$ $11,403'$ $.50 @$ $3,000'$ $1.25 @$ $5,934'$ $1.00 @$ $8,972'$ $.75 @$ $11,654'$	Degrees @ Depth	Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
1.25 @ 485'.50 @ 3,737'.75 @ 6,592' $1.60 @ 9,412'$ $1.25 @ 604'$ $1.00 @ 3,987'$ .75 @ 6,842' $1.00 @ 9,568'$ $1.00 @ 726'$ .75 @ 4,237' $2.50 @ 7,092'$ .75 @ 9,755'.75 @ 815'.75 @ 4,523'.75 @ 7,341' $1.25 @ 9,942'$ $1.00 @ 1,000'$ $1.00 @ 4,743'$ .75 @ 7,438' $1.50 @ 10,130'$ .75 @ 1,189' $1.75 @ 4,931'$ .75 @ 7,561' $2.00 @ 10,317'$ $1.50 @ 1,937'$ $2.00 @ 5,025'$ .75 @ 7,813' $1.50 @ 10,400'$ .75 @ 2,062' $1.75 @ 5,120'$ .75 @ 7,939' $1.50 @ 10,525'$ .25 @ 2,249' $1.75 @ 5,276'$ $1.00 @ 8,219'$ $1.25 @ 10,745'$ $1.00 @ 2,437'$ $1.25 @ 5,589'$ $1.25 @ 8,720'$ $1.25 @ 11,298'$ .50 @ 2,624' $1.25 @ 5,745'$ $1.00 @ 8,846'$ .75 @ 11,403'	.50 @ 134'	1.00 @ 3,187'	1.00 @ 6,090'	.75 @ 9,192'
1.25 @ 604' $1.00 @ 3,987'$ $.75 @ 6,842'$ $1.00 @ 9,568'$ $1.00 @ 726'$ $.75 @ 4,237'$ $2.50 @ 7,092'$ $.75 @ 9,755'$ $.75 @ 815'$ $.75 @ 4,237'$ $2.50 @ 7,092'$ $.75 @ 9,755'$ $.75 @ 815'$ $.75 @ 4,523'$ $.75 @ 7,341'$ $1.25 @ 9,942'$ $1.00 @ 1,000'$ $1.00 @ 4,743'$ $.75 @ 7,438'$ $1.50 @ 10,130'$ $.75 @ 1,189'$ $1.75 @ 4,931'$ $.75 @ 7,561'$ $2.00 @ 10,317'$ $1.50 @ 1,937'$ $2.00 @ 5,025'$ $.75 @ 7,813'$ $1.50 @ 10,400'$ $.75 @ 2,062'$ $1.75 @ 5,120'$ $.75 @ 7,939'$ $1.50 @ 10,525'$ $.25 @ 2,249'$ $1.75 @ 5,276'$ $1.00 @ 8,219'$ $1.25 @ 10,745'$ $1.00 @ 2,437'$ $1.75 @ 5,589'$ $1.25 @ 8,469'$ $.75 @ 11,963'$ $.50 @ 2,624'$ $1.25 @ 5,589'$ $1.25 @ 8,720'$ $1.25 @ 11,298'$ $.50 @ 2,812'$ $1.25 @ 5,745'$ $1.00 @ 8,846'$ $.75 @ 11,403'$	.25 @ 289'	.50 @ 3,454'	.75 @ 6,341'	1.00 @ 9,215'
1.00 @ 726' $.75 @ 4,237'$ $2.50 @ 7,092'$ $.75 @ 9,755'$ $.75 @ 815'$ $.75 @ 4,523'$ $.75 @ 7,341'$ $1.25 @ 9,942'$ $1.00 @ 1,000'$ $1.00 @ 4,743'$ $.75 @ 7,438'$ $1.50 @ 10,130'$ $.75 @ 1,189'$ $1.75 @ 4,931'$ $.75 @ 7,561'$ $2.00 @ 10,317'$ $1.50 @ 1,000'$ $1.00 @ 5,025'$ $.75 @ 7,813'$ $1.50 @ 10,400'$ $.75 @ 2,062'$ $1.75 @ 5,120'$ $.75 @ 7,939'$ $1.50 @ 10,525'$ $.25 @ 2,249'$ $1.75 @ 5,276'$ $1.00 @ 8,219'$ $1.25 @ 10,745'$ $1.00 @ 2,437'$ $1.75 @ 5,432'$ $.75 @ 8,469'$ $.75 @ 10,963'$ $.50 @ 2,624'$ $1.25 @ 5,589'$ $1.25 @ 8,720'$ $1.25 @ 11,298'$ $.50 @ 2,812'$ $1.25 @ 5,745'$ $1.00 @ 8,846'$ $.75 @ 11,403'$	1.25 @ 485'	.50 @ 3,737'	.75 @ 6,592'	1.50 @ 9,412'
.75 @815'.75 @4,523'.75 @7,341'1.25 @9,942'1.00 @1,000'1.00 @4,743'.75 @7,438'1.50 @10,130'.75 @1,189'1.75 @4,931'.75 @7,561'2.00 @10,317'1.50 @1,937'2.00 @5,025'.75 @7,813'1.50 @10,400'.75 @2,062'1.75 @5,120'.75 @7,939'1.50 @10,525'.25 @2,249'1.75 @5,276'1.00 @8,219'1.25 @10,745'1.00 @2,437'1.75 @5,432'.75 @8,469'.75 @10,963'.50 @2,624'1.25 @5,589'1.25 @8,720'1.25 @11,298'.50 @2,812'1.25 @5,745'1.00 @8,846'.75 @11,403'	1.25 @ 604'	1.00 @ 3,987'	.75 @ 6,842'	1.00 @ 9,568'
1.00 @ 1,000' $1.00 @ 4,743'$ $.75 @ 7,438'$ $1.20 @ 10,130'$ $.75 @ 1,189'$ $1.75 @ 4,931'$ $.75 @ 7,561'$ $2.00 @ 10,317'$ $1.50 @ 1,937'$ $2.00 @ 5,025'$ $.75 @ 7,813'$ $1.50 @ 10,400'$ $.75 @ 2,062'$ $1.75 @ 5,120'$ $.75 @ 7,939'$ $1.50 @ 10,525'$ $.25 @ 2,249'$ $1.75 @ 5,276'$ $1.00 @ 8,219'$ $1.25 @ 10,745'$ $1.00 @ 2,437'$ $1.75 @ 5,432'$ $.75 @ 8,469'$ $.75 @ 10,963'$ $.50 @ 2,624'$ $1.25 @ 5,589'$ $1.25 @ 8,720'$ $1.25 @ 11,298'$ $.50 @ 2,812'$ $1.25 @ 5,745'$ $1.00 @ 8,846'$ $.75 @ 11,403'$	1.00 @ 726'	.75 @ 4,237'	2.50 @ 7,092'	.75 @ 9,755'
.75 @1,189'1.75 @4,931'.75 @7,561'2.00 @10,317'1.50 @1,937'2.00 @5,025'.75 @7,813'1.50 @10,400'.75 @2,062'1.75 @5,120'.75 @7,939'1.50 @10,525'.25 @2,249'1.75 @5,276'1.00 @8,219'1.25 @10,745'1.00 @2,437'1.75 @5,432'.75 @8,469'.75 @10,963'.50 @2,624'1.25 @5,589'1.25 @8,720'1.25 @11,298'.50 @2,812'1.25 @5,745'1.00 @8,846'.75 @11,403'	.75 @ 815'	.75 @ 4,523'	.75 @ 7,341'	1.25 @ 9,942'
1.50 @ 1,937' $2.00 @ 5,025'$ $.75 @ 7,813'$ $1.50 @ 10,400'$ $.75 @ 2,062'$ $1.75 @ 5,120'$ $.75 @ 7,939'$ $1.50 @ 10,525'$ $.25 @ 2,249'$ $1.75 @ 5,276'$ $1.00 @ 8,219'$ $1.25 @ 10,745'$ $1.00 @ 2,437'$ $1.75 @ 5,432'$ $.75 @ 8,469'$ $.75 @ 10,963'$ $.50 @ 2,624'$ $1.25 @ 5,589'$ $1.25 @ 8,720'$ $1.25 @ 11,298'$ $.50 @ 2,812'$ $1.25 @ 5,745'$ $1.00 @ 8,846'$ $.75 @ 11,403'$	1.00 @ 1,000'	1.00 @ 4,743'	.75 @ 7,438'	1.50 @ 10,130'
.75 @ 2,062' 1.75 @ 5,120' .75 @ 7,939' 1.60 @ 10,525'   .25 @ 2,249' 1.75 @ 5,276' 1.00 @ 8,219' 1.25 @ 10,745'   1.00 @ 2,437' 1.75 @ 5,432' .75 @ 8,469' .75 @ 10,963'   .50 @ 2,624' 1.25 @ 5,589' 1.25 @ 8,720' 1.25 @ 11,298'   .50 @ 2,812' 1.25 @ 5,745' 1.00 @ 8,846' .75 @ 11,403'	.75 @ 1,189'	1.75 @ 4,931'	.75 @ 7,561'	2.00 @ 10,317'
.25 @ 2,249' 1.75 @ 5,276' 1.00 @ 8,219' 1.25 @ 10,745'   1.00 @ 2,437' 1.75 @ 5,432' .75 @ 8,469' .75 @ 10,963'   .50 @ 2,624' 1.25 @ 5,589' 1.25 @ 8,720' 1.25 @ 11,298'   .50 @ 2,812' 1.25 @ 5,745' 1.00 @ 8,846' .75 @ 11,403'	1.50 @ 1,937'	2.00 @ 5,025'	.75 @ 7,813'	1.50 @ 10,400'
1.00 @ 2,437' 1.75 @ 5,432' .75 @ 8,469' .75 @ 10,963'   .50 @ 2,624' 1.25 @ 5,589' 1.25 @ 8,720' 1.25 @ 11,298'   .50 @ 2,812' 1.25 @ 5,745' 1.00 @ 8,846' .75 @ 11,403'	.75 @ 2,062'	1.75 @ 5,120'	.75 @ 7,939'	1.50 @ 10,525'
.50 @ 2,624' 1.25 @ 5,589' 1.25 @ 8,720' 1.25 @ 11,298'   .50 @ 2,812' 1.25 @ 5,745' 1.00 @ 8,846' .75 @ 11,403'	.25 @ 2,249'	1.75 @ 5,276'	1.00 @ 8,219'	1.25 @ 10,745'
.50 @ 2,812' <u>1.25 @ 5,745'</u> <u>1.00 @ 8,846'</u> <u>.75 @ 11,403'</u>	1.00 @ 2,437'	<u> </u>	.75 @ 8,469'	.75 @ 10,963'
	.50 @ 2,624'	1.25 @ 5,589'	1.25 @ 8,720'	1.25 @ 11,298'
	.50 @ 2,812'	1.25 @ 5,745'	1.00 @ 8,846'	· · · · · · · · · · · · · · · · · · ·
	.50 @ 3,000'	1.25 @ 5,934'	1.00 @ 8,972'	.75 @ 11,654'

Drilling Contractor TMBR/Sharp Drilling, Inc.

		By	May	O. Prec	y ja
			Jeffréy D Phillip	s, President	·
Subscribed and sworn to before me this	19th	dayof	A	oril	2002
KATULEEN ROPER NOTARY PUBLIC State of Texas	4.17	-	Katt M	Kathleen Roper	
Comm. Exp. 09-25-2003	189101112	- 13 14 15 Je			~
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WELL NAME AND NUMBER	Big Red Federal Com #1	- C	
LOCATION Section	30, T-18-S, R-31-E, Eddy County	, New Mexico	· · · · · · · · · · · · · · · · · · ·
	gy Inc., 212 N. Main, Suite 200,		/9701
	MBR/Sharp Drilling, Inc., P. O. Dr		

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Commision expires:

~ 9/25/03~

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The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

Degrees @ Depth	Degrees @ Depth	Degrees @ Depth	Degrees @ Depth
1.00 @ 11,904'		·	
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	Drilling Contract	tor TMBR/Sharp Drilling, In	c
	E	Jeffrey Ø. Phillips, Pres	dent dent
Subscribed and sworn to be	fore me this <u>19th</u> day	of April	2002
	LEEN ROPER TARY PUBLIC ate of Texas Exp. C9-25-2003	Notary Public Kath	leen Roper
C			

> Midland County, Texas