

Today's Date: 06/11/96

PERC DIRECTIONAL REPORT

WELLNAME: DOW "B" 28 FEDERAL #1
 FIELD: CEDAR LAKE EAST
 AFE NO.: 956013

WELL ID NO.: 956013
 API NO.: 30 015 28876

SURVEY TYPE: ISS MD: ANGLE: AZIMUTH: TVD:
 N/S: EW: VB: TARGET:

MEASURED DEPTH	INCLINATION ANGLE	AZIMUTH ANGLE	TVD	+NORTH -SOUTH	+EAST -WEST	VERTICAL SECTION	DOGLEG SEVERITY
0	0.00	0.00	0	0.00	0.00	0.00	0.00
228	1.00		0	0.00	0.00	0.00	0.00
814	0.50		228	1.99	0.00	1.99	0.44
1,092	0.50		814	7.04	0.00	7.04	0.13
1,504	1.25		1,092	11.21	0.00	11.21	0.00
1,993	0.75		1,504	17.51	0.00	17.51	0.18
2,490	0.75		1,993	26.04	0.00	26.04	0.10
2,982	1.50		2,490	32.54	0.00	32.54	0.00
3,236	1.50		2,982	42.20	0.00	42.20	0.15
3,487	1.25		3,236	48.85	0.00	48.85	0.00
3,987	1.00		3,487	54.88	0.00	54.88	0.10
4,486	0.75		3,987	64.69	0.00	64.69	0.05
4,839	1.00		4,486	72.31	0.00	72.31	0.05
5,045	1.50		4,839	77.70	0.00	77.70	0.07
5,541	2.50		5,045	82.20	0.00	82.20	0.24
5,760	2.50		5,541	89.51	0.00	89.51	0.20
5,917	1.75		5,760	109.06	0.00	109.06	0.00
6,332	0.75		5,917	114.88	0.00	114.88	0.48
6,936	2.00		6,332	123.94	0.00	123.94	0.24
7,084	2.75		6,936	138.43	0.00	138.43	0.21
7,157	2.75		7,084	143.73	0.00	143.73	0.59
7,289	3.25		7,157	148.19	0.00	148.19	0.00
7,410	2.75		7,289	155.10	0.00	155.10	0.38
7,513	3.00		7,410	161.44	0.00	161.44	0.41
7,642	4.00		7,513	168.80	0.00	168.80	0.24
7,736	4.25		7,642	174.48	0.00	174.48	0.78
			7,736	181.24	0.00	181.24	0.27

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JUN 13 1996