

SPERRY-SUN WELL SURVEYING COMPANY

FOR

HUMBLE OIL & REFINING COMPANY

BO #4

0 - 935 @ $\frac{1}{4}^\circ$

$$935' \sin \frac{1}{4}^\circ = 935' \times 0.00436 = 4.08$$

935 - 1775 = 840

 $\frac{1}{4}^\circ - \frac{1}{2}^\circ \quad \bar{Z} = \frac{3}{8}^\circ = 22.5'$

$$840 \times 0.00655 = 5.50$$

1775 - 2060 = 285

 $\frac{1}{2}^\circ - \frac{1}{2}^\circ \quad \bar{Z} = \frac{1}{2}^\circ = 30'$

$$285 \times 0.00873 = 2.49$$

2060 - 2360 = 300

 $\frac{1}{2}^\circ - \frac{3}{4}^\circ \quad \bar{Z} = \frac{5}{8}^\circ = 37.5'$

$$300 \times 0.01091 = 3.27$$

2360 - 2490 = 130

 $\frac{3}{4}^\circ - \frac{1}{2}^\circ \quad \bar{Z} = \frac{5}{8}^\circ \quad 130 \times 0.01091 = 1.42$

2490 - 2580 = 90

 $\frac{1}{2}^\circ - \frac{3}{4}^\circ \quad \bar{Z} = \frac{5}{8}^\circ \quad 90 \times 0.01091 = 0.98$

2580 - 2775 = 195

 $\frac{3}{4}^\circ - 1^\circ \quad \bar{Z} = \frac{7}{8}^\circ = 52.5'$

$$195 \times 0.01528 = 2.98$$

2775 - 2865 = 90

 $1^\circ - 1\frac{1}{4}^\circ \quad \bar{Z} = 1\frac{1}{8}^\circ = 1^\circ 7.5'$

$$90' \times 0.01964 = 1.77$$

2865 - 2990 = 125

 $1\frac{1}{4}^\circ - 2^\circ \quad \bar{Z} = 1.625^\circ = 1^\circ 37.5'$

$$125 \times 0.02836 = 3.55$$

2990 - 3050 = 60

 $2^\circ - 2^\circ \quad 60' \times 0.03490 = 2.09$

$$3050 - 3110 = 60'$$

$$2^\circ \quad 1\frac{3}{4}$$

$$\bar{L} = 1\frac{7}{8} \quad 187.5' \quad 1^\circ 52.5'$$

$$60' \times 0.03272 = 1.96$$

$$3110 - 3210 = 100'$$

$$1\frac{3}{4} - 2$$

$$100 \times 0.03272 = 3.27$$

$$3210 - 3330 = 120'$$

$$2^\circ - 2\frac{3}{4}$$

$$\bar{L} = 2.375^\circ = 2^\circ 22.5'$$

$$120' \times 0.04144 = 4.97$$

38.33

293

332

IF SURFACE TO 3330

WENT STRAIGHT NORTH

293.38

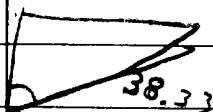
38.33

331.71'

NORTH

N 45° 62' EAST

45° 37.2'



$$\cos 45^\circ 37' = 0.69946$$

$$0.69946 \times 38.33 = 26.81$$

IF SURFACE TO 3330

293.38

26.81

WENT ALONG TRENCH

320.19'

(10)

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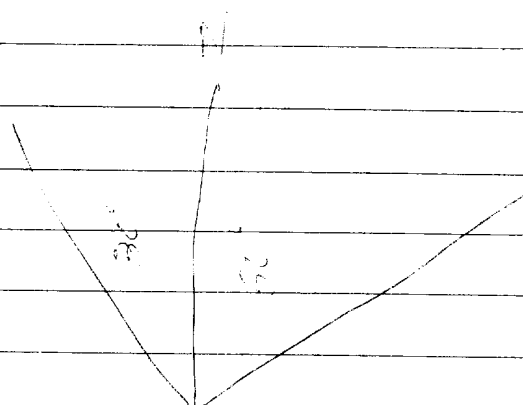
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COMPANY HUMELE OIL & KEENING CO

SPERRY-SUN

SHEET NO. 1 CF 1

FIELD YACOUN ABO

SURVEY TABULATION SHEET

JOB NO. SUR-3462

WELL STATE BO Well N^o 4

IN RUN

DATE 11-2-62

COUNTY OR PARISH LEA, N.M.

CORRECTED TIME	MEASURED DEPTH		VERTICAL DEPTH		DIRECTION OF INCLINATION			ANGLE OF INCLINATION	100' COURSE DISPLACEMENT				MEASURED COURSE DISPLACEMENT				TOTAL DISPLACEMENT			
	COURSE	TOTAL	COURSE	TOTAL	OBSERVED	CORR	CORRECTED		NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST	NORTH	SOUTH	EAST	WEST
12-17-40	100	100	100.00		---															
14-00		100			---															
20-20		300			---															
21-40		400			---															
23-20		500			---															
24-20		600			---															
25-20		700			---															
26-40		800			---															
27-40		900			---															
28-00		1000			---															
28-40		1100			---															
29-20		1200			---															
30-20		1300			---															
31-40		1400			---															
32-40		1500			---															
33-40		1600			---															
34-40		1700			---															
35-40		1800			---															
36-40		1900			---															
37-40		2000			---															
38-40		2100			---															
39-40		2200			---															
40-00		2300			---															
41-00		2400			---															
42-20		2500			---															
43-40		2600			---															
44-40		2700			---															
45-00		2800			---															
46-00		2900			---															
47-00		3000			---															
48-00		3100			---															
49-00		3200			---															
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54-00		3700			---															
55-20		3800			---															
56-40		3900			---															
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58-40		4100			---															
59-40		4200			---															
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64-00		4700			---															
65-00		4800			---															
66-00		4900			---															
67-00		5000			---															
68-00		5100			---															
69-00		5200			---															
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71-00		5400			---															
72-00		5500			---															
73-00		5600			---															
74-00		5700			---															
75-00		5800			---															
76-00		5900			---															
77-00		6000			---															
78-00		6100			---															
79-00		6200			---															
80-00		6300			---															
81-00		6400			---															
82-00		6500			---															
83-00		6600			---															
84-00		6700			---															
85-00		6800			---															
86-00		6900			---															
87-00		7000			---															
88-00		7100			---															
89-00		7200			---															
90-00		7300			---															
91-00		7400			---															
92-00		7500			---															
93-00		7600			---															
94-00		7700			---															
95-00		7800			---															
96-00		7900			---															
97-00		8000			---															
98-00		8100			---															
99-00		8200			---															
100-00		8300			---															