

4/8/77

ALF/SOL
MCLEND, TEXAS

SYNOPTIC DIRECTIONAL SURVEY
FOR

* ARCO OIL AND GAS *

JOB NUMBER: 132-45R3-34

WELL NAME: EMPIRE A30 UNIT "G" NO. 312

LAND: BOY COUNTY, 434 AEXICD

SURVEY DATE: FEBRUARY 29, 1984

SURVEY SYSTEM: PRODUCTION

WELL REFERENCE BEARING: 321-003

METHOD OF CALCULATION: MINIMUM CURVATURE

WELL DEPTH 4345 FEET

WELL NUMBER:

RECEIVED BY
APR 12 1984
O. C. D.
ARTESIA, OFFICE

THIS SURVEY IS CORRECT TO THE
BEST OF MY KNOWLEDGE AND IS
SUPPORTED BY ACTUAL FIELD DATA.

OIL COMPANY REPRESENTATIVE

ALC/301
MIDLAND, TEXAS

JOB 114333: 132-45R3-34

DATE: FEBRUARY 29, 1934

TRIP SURVEY

37

THE ALIQUA CURVATURE

HEAS. DEPT1	VERT. DEPT1	VERT. SECT.	COURSE DEG.	INC D	BEARING D	COORDINATES LATITUDE	DEPARTURE	D-LESS CUR 100
500.0	500.00	0.92	1.33	00-10	N 73-02 W	0.29 N	1.35 W	0.05
1000.0	000.97	6.04	5.50	00-53	N 23-43 W	4.43 N	1.11 W	0.15
1500.0	1499.35	16.64	10.83	01-31	N 15-31 W	14.67 N	7.83 W	0.12
2000.0	1999.51	31.75	15.41	02-01	N 21-07 W	29.25 N	12.32 W	0.11
2500.0	2499.40	45.74	14.32	01-15	N 13-21 W	42.83 N	17.25 W	0.16
3500.0	3499.25	52.57	17.31	00-13	N 25-25 W	50.24 N	22.50 W	0.05
4000.0	3999.24	55.32	3.03	00-11	S 32-37 W	51.39 N	24.27 W	0.17
4500.0	4499.21	59.02	4.37	00-56	N 31-17 W	64.10 N	25.32 W	0.21
5000.0	4999.03	82.32	13.31	02-07	N 27-32 W	75.80 N	33.20 W	0.24
5500.0	5499.46	106.00	23.70	03-13	N 23-22 W	96.56 N	44.56 W	0.24
6000.0	5997.43	136.57	31.54	03-55	N 49-25 N	120.37 N	64.53 W	0.23
6235.0	6232.02	150.63	14.55	03-11	N 41-16 N	130.58 N	75.09 W	0.36

THE HORIZONTAL DISPLACEMENT AT THE DEPTH OF

6235.0 FEET EQUALS 150.53 FEET AT A 29-54 N
