



**REPORT
of
SUB-SURFACE
DIRECTIONAL
SURVEY**

CONOCO INC.
COMPANY

MCA UNIT NO. 226 *D 34-17-32*
WELL NAME

EDDY COUNTY, NEW MEXICO
LOCATION

JOB NUMBER

430-0741

TYPE OF SURVEY

magnetic multi shot survey

DATE

1-5-88

SURVEY BY
GARY DESPAIN

OFFICE
WEST TEXAS BASE

EASTMAN CHRISTENSEN

RECORD OF SURVEY

FOR

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** ** ** ** **
** OPERATOR : CONOCO INC.
**
** WELL NAME : MCA UNIT NO. 226
**
** LOCATION : EDDY COUNTY, NEW MEXICO
**
** JOB NUMBER :
**
** RIG :
**
** DECLINATION : 10.00 E
**
** ** ** ** **

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EC DISTRICT : WEST TEXAS BASE



CONOCO INC.
MCA UNIT NO. 226
EDDY COUNTY, NEW MEXICO

DECLINATION : 10.00 JOB NUMBER :
DATE PRINTED : 16-JAN-88
OUR REF. NO. : S01254.400

PAGE NO. 2

MEASURED DEPTH	DRIFT ANGLE D M	DRIFT DIRECTION D M	COURSE LENGTH	TRUE VERTICAL DEPTH	R E C T A N G U L A R C O O R D I N A T E S	C L O S U R E DISTANCE	DIRECTION D M	DOGLEG SEVERITY
3906.00	0 0	N 0	0.00	3906.00	0.00 E	0.00	S 90 0 E	0.00
3925.00	2 0	S 33	19.00	3925.00	0.18 W	0.33	S 33 0 W	10.53
3950.00	1 15	S 2	25.00	3949.99	0.39 W	1.02	S 22 28 W	4.52
3975.00	2 15	S 20	25.00	3974.97	0.54 W	1.78	S 17 35 W	4.52
4000.00	3 0	S 7	25.00	3999.95	0.80 W	2.92	S 15 59 W	3.81
4025.00	1 30	S 29	25.00	4024.93	3.73 S	3.89	S 16 29 W	6.82
4050.00	3 0	S 24	25.00	4049.91	4.61 S	4.86	S 18 30 W	6.05
4075.00	2 45	S 14	25.00	4074.88	5.79 S	6.11	S 18 36 W	2.24
4100.00	2 15	S 19	25.00	4099.85	6.84 S	7.20	S 18 17 W	2.18
4125.00	2 0	S 23	25.00	4124.83	7.70 S	8.13	S 18 36 W	1.16
4150.00	2 0	S 27	25.00	4149.82	8.49 S	9.00	S 19 13 W	0.56
4175.00	1 45	S 32	25.00	4174.81	9.21 S	9.80	S 20 4 W	1.19
4200.00	1 45	S 34	25.00	4199.79	9.85 S	10.55	S 21 0 W	0.24
4225.00	1 30	S 32	25.00	4224.78	10.44 S	11.24	S 21 45 W	1.03
4250.00	1 15	S 42	25.00	4249.78	10.92 S	11.82	S 22 31 W	1.38
4275.00	1 30	S 45	25.00	4274.77	11.35 S	12.38	S 23 30 W	1.04
4285.00	1 15	S 35	10.00	4284.77	11.54 S	12.61	S 23 49 W	3.46

CLOSURE - DISTANCE : 12.61
DIRECTION : S 23 49 W

REPORT UNITS : Feet

SURVEY CALCULATION METHOD : Radius of curvature

SURVEY RUN INFORMATION

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MAGNETIC MULTI SHOT SURVEY	430-741
SURVEYOR: GARY DESPAIN	(3906'-4285')



2103 Market, Midland, Texas 79703, Phone: (915) 694-9517, (915) 563-0511

SURVEY CERTIFICATION SHEET

STATE OF TEXAS
COUNTY OF MIDLAND

I, Gary DeSpain, in the employ of Eastman Christensen, Inc. did on the days of Jan. 5, 1988 thru Jan. 5, 1988 conduct or supervise the taking of a Magnetic Multi Shot survey by the method of magnetic orientation from a depth of 3906 feet to 4285 feet, with recordings of inclination and direction being obtained at approximate intervals of 25 feet.

This survey was conducted at the request of CONOCO INC. for their MCA UNIT NO. 226, EDDY County, State of NEW MEXICO, in the _____ field.

This data for this survey and the calculation were obtained and performed by me according to standards and procedures as set forth by Eastman Christensen, Inc. and is true and correct to the best of my knowledge.

Gary DeSpain
Directional Supervisor/Surveyor

The data for this survey has been examined by me and conforms to principles and procedures set forth by Eastman Christensen, Inc.

Barry H. Byatt

Before me, the undersigned authority, on this day personally appeared GARY DESPAIN, known to me to be the person whose name is subscribed to this instrument, who after being by me duly sworn on oath, states that he has knowledge of all the facts stated above and that this instrument is a true statement of facts therein recited.

Subscribed and sworn to before me on this _____ day of _____, 19____

Notary Public in and for the
County of Midland, Texas
My commission expires _____

SCALE 1"=100 FT.

SURVEY: 801234.400

A. SECTION PLANE.

NO. 001 E

CONOCO INC.
MCA UNIT NO. 226
WELL: MCA NO. 226
SLOT: 1

4285

4125

3825

SCALE 1"=100 FT.
NOTE: COORDINATES RELATIVE
TO SLOT

