

EASTMAN CHRISTENSEN COMPANY

LATERAL DRILLING

WELL DEFLECTION SURVEY

for

ELF AQUITAINE

CHACO JICARILLO APACHE

Slot : <001>

Well :

Survey Reference : S00023.2EA

ELF AQUITAINE
CHACO JICARILLO APACHE
CUBA, NEW MEXICO

Slot : <001>
Well :
PBHL : 175.00

Date Printed : 20-SEP-88
Our Ref : S00023.2EA

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Measured Depth	Drift Angle	Drift Direction	Course Length	Vertical Depth	Vertical Section	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Severity
7135.00	38.25	195.00	0.00	7068.90	375.60	378.90 S	21.30 W	0.00
7138.00	39.10	195.00	3.00	7071.24	377.36	380.71 S	21.79 W	28.33
7170.00	41.40	194.00	32.00	7095.66	396.85	400.73 S	26.96 W	7.47
7185.00	42.80	192.00	15.00	7106.79	406.42	410.52 S	29.22 W	12.92
7201.00	44.30	190.70	16.00	7118.39	416.99	421.33 S	31.39 W	10.92
7216.00	45.50	189.30	15.00	7129.01	427.22	431.76 S	33.23 W	10.36
7233.00	47.30	188.60	17.00	7140.74	439.17	443.92 S	35.15 W	11.00
7264.00	49.60	182.80	31.00	7161.30	461.95	466.99 S	37.45 W	15.84
7283.00	51.00	179.00	19.00	7173.43	476.49	481.61 S	37.68 W	17.06
7295.00	51.90	178.50	12.00	7180.91	485.85	490.99 S	37.47 W	8.18
7324.00	53.00	177.50	29.00	7198.59	508.81	513.97 S	36.67 W	4.68
7339.00	56.90	175.10	15.00	7207.20	521.09	526.22 S	35.88 W	29.11
7355.00	58.50	172.20	16.00	7215.75	534.61	539.66 S	34.38 W	18.29
7369.00	60.40	174.60	14.00	7222.86	546.66	551.63 S	33.00 W	20.05
7403.00	64.60	177.40	34.00	7238.56	576.80	581.71 S	30.90 W	14.35
7413.00	65.30	177.50	10.00	7242.79	585.85	590.76 S	30.49 W	7.06
7426.00	65.90	177.70	13.00	7248.16	597.68	602.59 S	30.00 W	4.82
7440.00	66.30	178.20	14.00	7253.84	610.46	615.38 S	29.54 W	4.34
7471.00	67.50	178.10	31.00	7266.00	638.93	643.88 S	28.62 W	3.88
7486.00	68.90	177.60	15.00	7271.57	652.84	657.79 S	28.09 W	9.83
7504.00	70.30	177.40	18.00	7277.84	669.70	674.65 S	27.36 W	7.85
7532.00	74.30	177.10	28.00	7286.35	696.35	701.29 S	26.08 W	14.32
7543.00	75.90	176.60	11.00	7289.18	706.97	711.90 S	25.49 W	15.19
7564.00	78.50	178.70	21.00	7293.83	727.42	732.36 S	24.66 W	15.76
7594.00	82.80	177.10	30.00	7298.71	756.98	761.93 S	23.57 W	15.27
7615.00	83.70	176.90	21.00	7301.18	777.82	782.76 S	22.48 W	4.39
7625.00	84.00	177.40	10.00	7302.25	787.76	792.69 S	21.99 W	5.81
7658.00	84.60	176.80	33.00	7305.52	820.57	825.48 S	20.32 W	2.56
7688.00	86.10	176.90	30.00	7307.96	850.46	855.34 S	18.68 W	5.01
7704.00	86.70	176.00	16.00	7308.96	866.42	871.28 S	17.69 W	6.75

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7732.00	88.50	176.60	28.00	7310.13	894.39	899.19 S 15.89 W	6.78
7761.00	89.10	177.00	29.00	7310.74	923.36	928.14 S 14.27 W	2.49
7858.00	90.60	177.20	97.00	7310.99	1020.30	1025.01 S 9.36 W	1.56

CALCULATION METHOD : Radius of curvature
SLOT COORDINATES : 0.00 N 0.00 E
BOTTOM HOLE LOCATION : Referenced to SLOT
DISTANCE : 2798.84
DIRECTION : 179.40

Report Units : Feet

SURVEY RUN INFORMATION

FINAL SURVEY BASED ON MWD DATA.
FINAL SURVEY TIED ON TO SCHLUMBERGER AT 7135 FEET.
SURVEY STATION AT TO OF 9633 IS A PROJECTION.