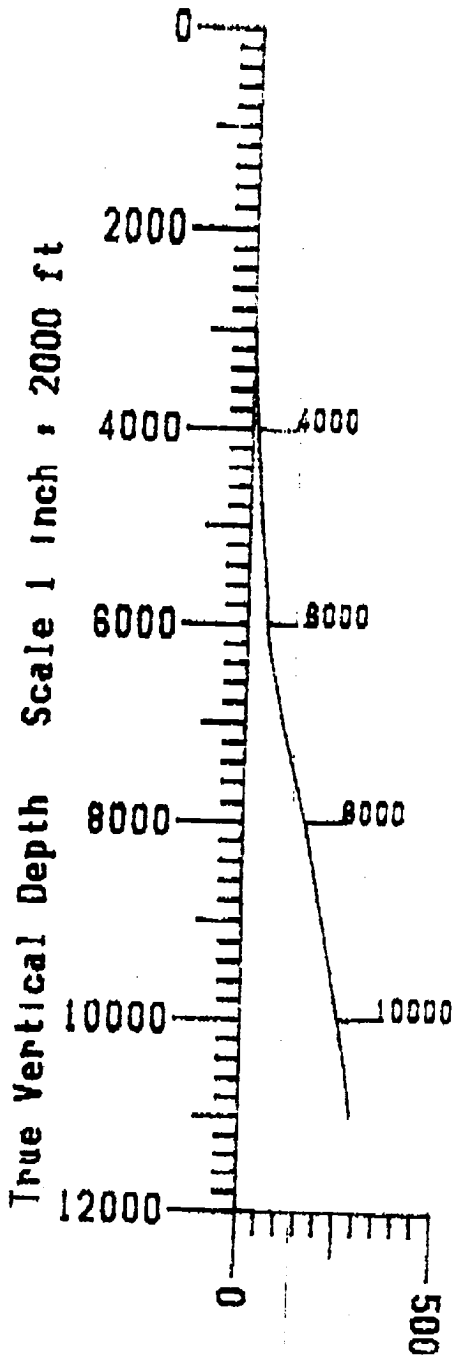
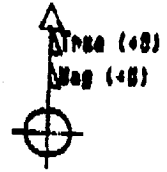


file



SCIENTIFIC DRILLING INTERNATIONAL
FOR
MARKET E. TAYLOR CO.
YOUNG DRILL UNIT 021
IN
LEA COUNTY, NEW MEXICO



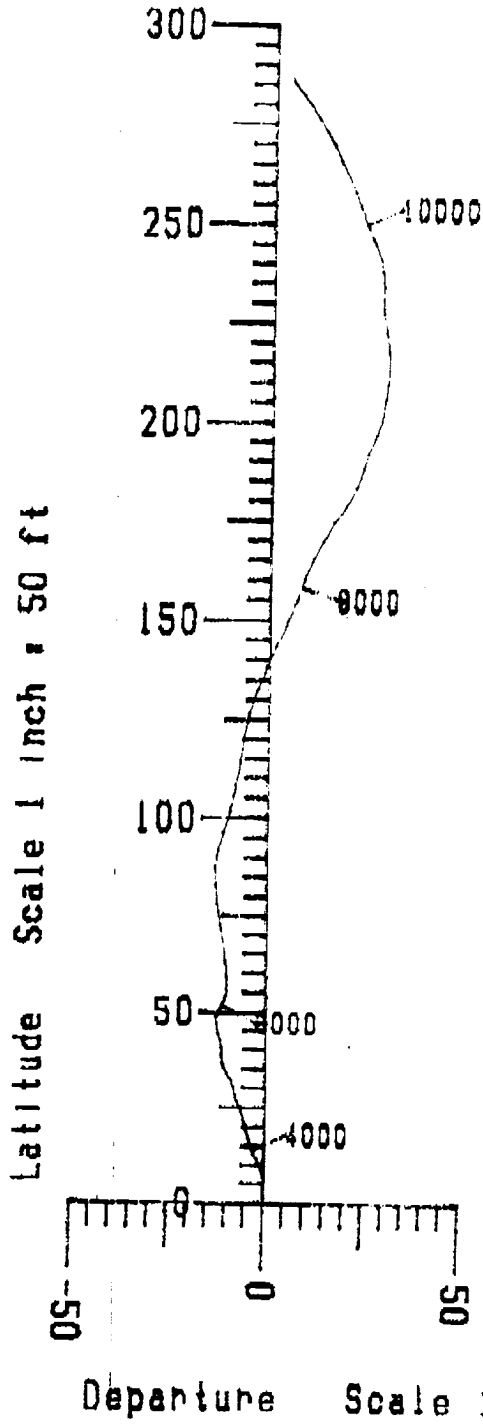
VDU#21 w/ Dig Reports

Vertical Section Scale 1 inch = 500 ft

PLANE OF VERT SECTn NOO.86E



SCIENTIFIC DRILLING INTERNATIONAL
FOR
BARRY E. YATES CO.
TONGUE DEEP UNIT #21
IN
LEA COUNTY, NEW MEXICO



PLANE OF VERT SECT'n NOO.86E

SCIENTIFIC DRILLING INTERNATIONAL

Client : HARVEY E. YATES COMPANY
Well Name : YOUNG DEEP UNIT #21
Location : LEA COUNTY, NEW MEXICO

Page 1 of 3
Date 12-12-93
Filename : YOUNGD21

BHL :
BHL :
ACTUAL BHL :

No Interpolation

Height Of WELLSITE Datum Above Field Datum 0.00 ft

MD ft	INC deg	DIR deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	D'LEG °/100
3000.0	0.00	N 0.00°E	3000.00	0.00	0.00	0.00	0.0
3111.0	0.81	N12.88°W	3111.00	0.77	-0.17	0.76	0.7
3204.0	0.85	N21.64°E	3203.99	2.08	-0.07	2.08	0.5
3297.0	0.49	N15.35°W	3296.98	3.15	-0.02	3.15	0.6
3390.0	1.01	N21.52°E	3389.97	4.34	0.05	4.34	0.7
3483.0	0.79	N40.13°W	3482.96	5.72	-0.18	5.71	1.0
3576.0	0.65	N10.19°W	3575.95	6.76	-0.67	6.75	0.4
3669.0	1.28	N16.96°W	3668.94	8.28	-1.03	8.27	0.7
3762.0	0.87	N18.14°W	3761.92	9.95	-1.56	9.92	0.4
3855.0	1.12	N37.50°W	3854.91	11.37	-2.31	11.33	0.4
3948.0	1.36	N21.91°W	3947.89	13.11	-3.30	13.06	0.4
4041.0	0.85	N26.90°W	4040.87	14.74	-4.05	14.68	0.6
4134.0	1.29	N 3.15°W	4133.85	16.41	-4.49	16.34	0.7
4227.0	1.27	N29.48°W	4226.83	18.39	-5.07	18.31	0.6
4320.0	1.26	N13.13°W	4319.81	20.28	-5.81	20.19	0.4
4413.0	1.21	N11.06°W	4412.79	22.24	-6.23	22.14	0.1
4506.0	0.95	N19.22°W	4505.77	23.93	-6.69	23.83	0.3
4599.0	0.99	N22.66°W	4598.76	25.40	-7.25	25.28	0.1
4692.0	1.05	N26.35°W	4691.74	26.90	-7.93	26.78	0.1
4785.0	0.96	N15.95°W	4784.73	28.42	-8.52	28.29	0.2
4878.0	1.40	N 6.38°W	4877.71	30.30	-8.89	30.16	0.5
4971.0	1.14	N32.89°W	4970.68	32.22	-9.58	32.07	0.7
5064.0	1.42	N30.15°W	5063.66	33.99	-10.66	33.83	0.3
5157.0	1.58	N22.33°W	5156.63	36.18	-11.74	35.99	0.3
5250.0	1.51	N 0.71°W	5249.60	38.62	-12.24	38.43	0.6
5343.0	1.04	N10.93°E	5342.57	40.68	-12.05	40.49	0.6
5436.0	1.16	N25.13°W	5435.56	42.42	-12.27	42.23	0.7
5529.0	1.33	N11.45°W	5528.53	44.33	-12.90	44.13	0.4
5715.0	0.80	N11.85°W	5714.50	47.72	-13.60	47.51	0.3
5808.0	1.05	N29.44°E	5807.49	49.17	-13.38	48.96	0.7
5901.0	0.73	N28.46°E	5900.48	50.44	-12.68	50.24	0.3
5994.0	1.29	N28.39°E	5993.46	51.88	-11.90	51.69	0.6
6087.0	1.42	N18.17°E	6086.44	53.89	-11.03	53.72	0.3
6180.0	1.35	N 6.56°E	6179.41	56.08	-10.55	55.92	0.3
6273.0	2.34	N12.48°W	6272.36	59.06	-10.70	58.89	1.2
6366.0	2.93	N 1.64°W	6365.26	63.30	-11.23	63.12	0.8
6552.0	3.25	N14.49°W	6550.99	73.20	-12.63	73.00	0.4
6645.0	3.38	N 2.15°W	6643.83	78.51	-13.41	78.30	0.8
6738.0	2.73	N 8.70°W	6736.70	83.45	-13.88	83.23	0.8
6831.0	2.61	N 6.00°E	6829.60	87.39	-13.88	87.16	0.8

SCIENTIFIC DRILLING INTERNATIONAL

Client : HARVEY E. YATES COMPANY
Well Name : YOUNG DEEP UNIT #21
Location : LEA COUNTY, NEW MEXICO
SHL :
BHL :

Page 2 of 3
Date 12-12-93
Filename : YOUNGD21

ACTUAL BHL :
Height Of WELLSITE Datum Above Field Datum 0.00 ft No Interpolation

MD ft	INC deg	DIR deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	D'LEG °/100
6924.0	3.00	N15.43°E	6922.48	92.33	-13.13	92.12	0.6
7017.0	3.06	N17.94°E	7015.35	97.04	-11.72	96.85	0.2
7110.0	3.73	N17.11°E	7108.19	102.29	-10.06	102.12	0.7
7203.0	3.92	N 9.15°E	7200.98	108.32	-8.65	108.18	0.6
7296.0	3.73	N 9.36°E	7293.78	114.45	-7.65	114.32	0.2
7389.0	3.77	N 6.43°E	7386.58	120.47	-6.82	120.36	0.2
7482.0	4.12	N16.86°E	7479.36	126.73	-5.53	126.63	0.9
7575.0	3.62	N20.32°E	7572.15	132.68	-3.53	132.61	0.6
7668.0	4.25	N23.34°E	7664.93	138.60	-1.15	138.57	0.7
7761.0	3.52	N24.69°E	7757.71	144.36	1.41	144.36	0.8
7854.0	3.93	N27.73°E	7850.52	149.78	4.08	149.82	0.5
7947.0	3.61	N18.41°E	7943.31	155.40	6.47	155.48	0.7
8040.0	3.37	N17.98°E	8036.14	160.78	8.24	160.88	0.3
8133.0	3.24	N28.28°E	8128.99	165.70	10.34	165.84	0.7
8226.0	3.20	N26.83°E	8221.84	170.33	12.76	170.50	0.1
8319.0	3.51	N34.74°E	8314.68	175.00	15.54	175.22	0.6
8412.0	3.21	N34.31°E	8407.52	179.49	18.63	179.76	0.3
8505.0	3.00	N25.51°E	8500.38	183.85	21.14	184.15	0.6
8598.0	2.98	N14.55°E	8593.26	188.41	22.80	188.74	0.6
8691.0	2.63	N18.14°E	8686.15	192.78	24.08	193.12	0.4
8784.0	2.77	N27.40°E	8779.04	196.81	25.78	197.18	0.5
8877.0	2.93	N14.41°E	8871.93	201.12	27.42	201.52	0.7
8970.0	2.90	N 6.71°E	8964.81	205.76	28.29	206.17	0.4
9063.0	2.78	N10.24°E	9057.69	210.32	28.97	210.73	0.2
9156.0	2.63	N 1.74°W	9150.59	214.69	29.29	215.11	0.6
9249.0	2.55	N 6.40°W	9243.50	218.88	28.99	219.29	0.2
9342.0	2.49	N13.02°W	9336.41	222.91	28.31	223.31	0.3
9435.0	2.74	N 7.88°W	9429.31	227.08	27.54	227.47	0.4
9528.0	2.32	N 3.44°E	9522.22	231.17	27.38	231.56	0.7
9621.0	2.16	N 0.33°W	9615.15	234.81	27.48	235.20	0.2
9714.0	2.16	N 6.06°W	9708.08	238.30	27.28	238.69	0.2
9807.0	2.46	N15.18°W	9801.00	241.98	26.59	242.36	0.5
9900.0	2.72	N24.28°W	9893.91	245.94	25.17	246.29	0.5
9993.0	3.07	N24.22°W	9986.79	250.22	23.24	250.54	0.4
10086.0	2.95	N15.97°W	10079.66	254.80	21.57	255.10	0.5
10179.0	2.59	N29.51°W	10172.55	258.94	19.83	259.21	0.8
10272.0	2.35	N17.72°W	10265.47	262.60	18.23	262.85	0.6
10365.0	3.20	N31.18°W	10358.36	266.69	16.37	266.91	1.1
10458.0	2.19	N22.32°W	10451.25	270.59	14.41	270.78	1.1
10551.0	2.14	N34.01°W	10444.14	274.52	12.55	274.71	1.1

SCIENTIFIC DRILLING INTERNATIONAL

Client : HARVEY E. YATES COMPANY
Well Name : YOUNG DEEP UNIT #21
Location : LEA COUNTY, NEW MEXICO
SHL :
BHL :
ACTUAL BHL :

Page 3 of 3
Date 12-12-93
Filename : YOUNGD21

Height Of WELLSITE Datum Above Field Datum 0.00 ft

No Interpolation

MD ft	INC deg	DIR deg	TVD ft	+N/-S ft	+E/-W ft	VS ft	D'LEG °/100
10644.0	2.75	N32.74°W	10637.09	277.26	10.39	277.39	0.4
10737.0	2.16	N29.98°W	10730.00	280.67	8.31	280.76	0.6
10830.0	1.66	N42.70°W	10822.95	283.16	6.48	283.22	0.7
10923.0	2.05	N36.24°W	10915.90	285.48	4.57	285.52	0.5
10975.0	2.05	N36.24°W	10967.87	286.98	3.47	287.00	0.0

Origin of Bottom Hole Closure WELLSITE CENTRE
Bottom Hole Closure 287 ft 0.7°