



DIRECTIONAL
INVESTMENT
GUIDANCE, INC.

P.O. BOX 7238

MIDLAND, TEXAS 79708

915/697-1490

January 12, 1992

YATES PETROLEUM

BONNEVILLE AKK FED # 3

AL SPRINGER

EDDY COUNTY, N. M.

DIRECTIONAL RECOMMENDED PROCEDURE

- 1- MOVE IN AND RIG UP ROTARY.
- 2- GO IN HOLE WITH 12 1/2" BIT, SHOCK SUB, 8" NON MAGNETIC DRILL COLLAR, ONE 8" DRILL COLLAR, 12 1/4" STRING REAMER, ONE DRILL COLLAR, 12 1/4" I.B. STABILIZER, DRILL COLLARS AND DRILL PIPE. DRILL TO 2800' KICK OFF POINT AND TRIP OUT OF HOLE FOR KICK OFF ASSEMBLY.
- 3- GO IN HOLE WITH 12 1/2" BIT, 7 3/4" D500 DYNA DRILL, 1 1/2° BENT SUB, 8" NON MAGNETIC DRILL COLLAR, DRILL COLLARS AND DRILL PIPE. ORIENT THIS ASSEMBLY TO DESIRED DIRECTION WITH SINGLE SHOT AND DRILL UNTIL 3 1/2° TO 4 1/2° IS OBTAINED IN DESIRED DIRECTION AND TRIP OUT OF HOLE.
- 4- GO IN HOLE WITH 12 1/2" BIT, 12 1/4" I.B. STABILIZER, SHOCK SUB, 8" NON MAGNETIC DRILL COLLAR, ONE 8" DRILL COLLAR, 12 1/4" STRING REAMER, ONE DRILL COLLAR, 12 1/4" STRING REAMER, DRILL COLLARS AND DRILL PIPE. DRILL WITH THIS ASSEMBLY AND BUILD ANGLE AT THE RATE OF 1 1/2° PER 100' TO A MAXIMUM ANGLE OF 25.4° AT 4160' TRIP OUT OF HOLE FOR A SEMI-PACKED BOTTOM HOLE ASSEMBLY.
- 5- DRILL WITH SEMI PACKED BOTTOM HOLE ASSEMBLY TO 4350' T.V.D. CASING POINT, DROP MULTISHOT SURVEY AND TRIP OUT OF HOLE.
- 6- RIG AND RUN 8 5/8" CASING AND NIPPLE UP.
- 7- GO IN HOLE WITH 7 7/8" BIT, 7 7/8" I.B. STABILIZER, 6 1/4" NON MAGNETIC DRILL COLLAR, 7 7/8" I.B. STABILIZER, ONE DRILL COLLAR, 7 7/8" ROLLER REAMER, DRILL COLLARS AND DRILL PIPE. DRILL WITH THIS ASSEMBLY TO T.D. OR UNTIL A CORRECTIVE MOTOR RUN IS NEEDED TO BRING WELL BORE BACK TO COURSE.
- 8- AFTER REACHING PRIMARY TARGET, TRIP OUT AND PICK UP A FULL PACKED ASSEMBLY AND DRILL TO 8500' T.V.D. AND DROP MULTISHOT SURVEY ON TRIP OUT OF HOLE.

Director

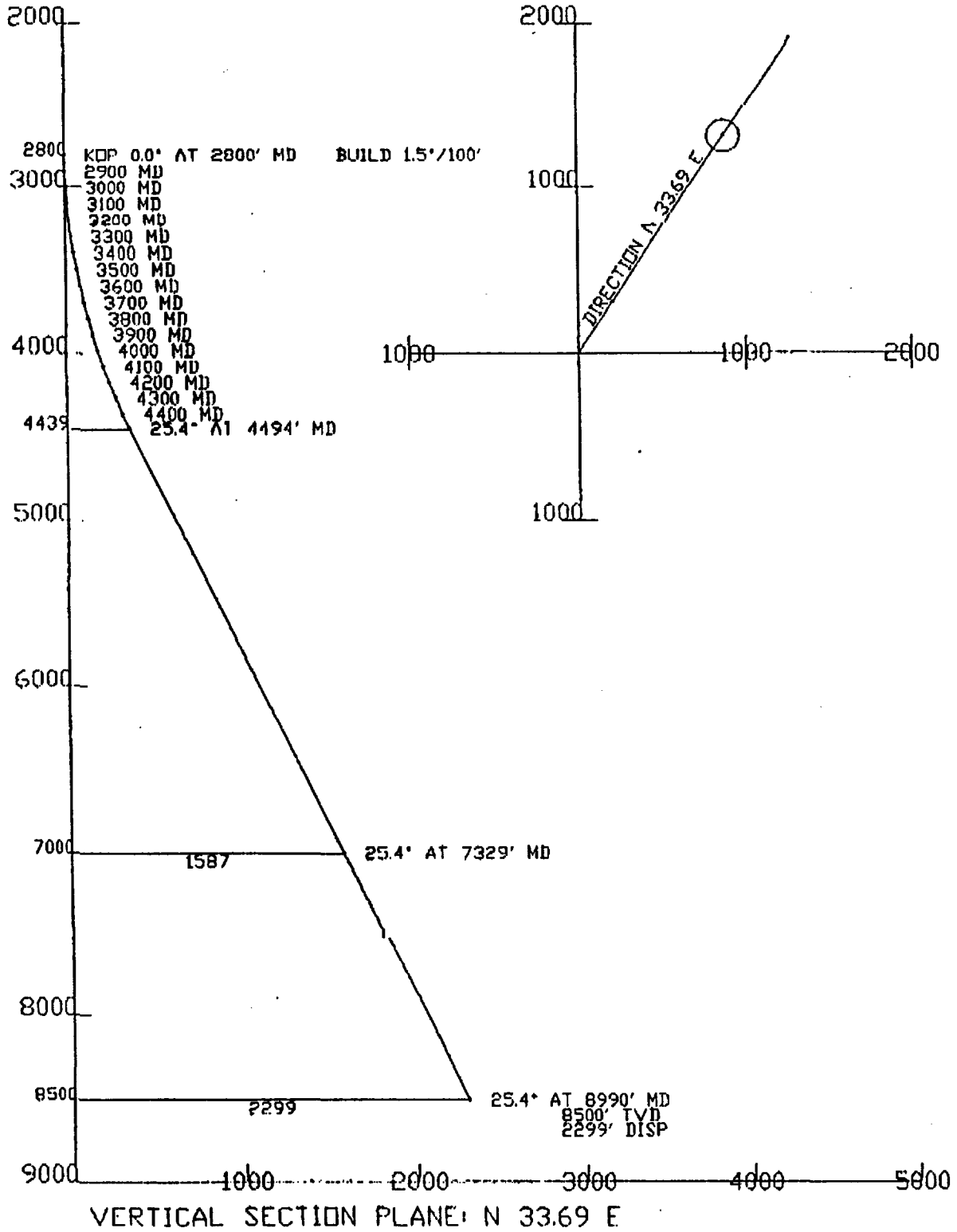
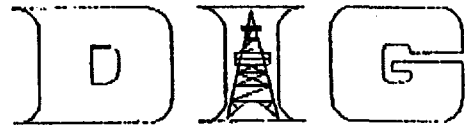
Surveying • Instrument & Tool Rentals

YATES PETROLEUM CORP.
BEFORE EXAMINER CATANACH
NMCD CASE NOS. 10460/10461
DATE: 04/02/92
EXHIBIT NO. 8

YATES PETROLEUM CORPORATION
 BONNEVILLE AKE FIELD #3
 EDDY COUNTY, NEW MEXICO

File: DIG5 Tue Mar 10 1992

VERTICAL SECTION
 SCALE: 1000 FEET/DIVISION
 REFERENCE: WELL HEAD



YATES PETROLEUM CORPORATION
 BONNEVILLE AKK FEO #3
 EDDY COUNTY, NEW MEXICO

Calculated by Minimum Curvature Method

- DIRECTIONAL WELLPLAN -

MEASURED DEPTH (FT)	INCL ANGLE (DEG)	D R I F T DIRECTION (DFG)	COURSE LENGTH (FT)	TRUE VERTICAL DEPTH	T O T A L RECTANGULAR COORDINATES (FT)		DOGLEG SEVERITY (DG/100')
2800.00	0.00	N 0.00 E	0.00	2800.00	0.00 N	0.00 E	
2900.00	1.50	N 33.69 E	100.00	2899.99	1.09 N	0.73 E	1.50
3000.00	3.00	N 33.69 E	100.00	2999.91	4.36 N	2.90 E	1.50
3100.00	4.50	N 33.69 E	100.00	3099.69	9.80 N	6.53 E	1.50
3200.00	6.00	N 33.69 E	100.00	3199.27	17.41 N	11.61 E	1.50
3300.00	7.50	N 33.69 E	100.00	3298.57	27.19 N	18.13 E	1.50
3400.00	9.00	N 33.69 E	100.00	3397.54	39.13 N	26.09 E	1.50
3500.00	10.50	N 33.69 E	100.00	3496.09	53.22 N	35.48 E	1.50
3600.00	12.00	N 33.69 E	100.00	3594.16	69.45 N	46.90 E	1.50
3700.00	13.50	N 33.69 E	100.00	3691.70	87.81 N	58.54 E	1.50
3800.00	15.00	N 33.69 E	100.00	3788.67	108.29 N	72.20 E	1.50
3900.00	16.50	N 33.69 E	100.00	3884.86	130.88 N	87.25 E	1.50
4000.00	18.00	N 33.69 E	100.00	3980.36	155.55 N	103.70 E	1.50
4100.00	19.50	N 33.69 E	100.00	4075.85	182.38 N	121.59 E	1.50
4200.00	21.00	N 33.69 E	100.00	4168.86	211.09 N	140.73 E	1.50
4300.00	22.50	N 33.69 E	100.00	4261.74	241.93 N	161.28 E	1.50
4400.00	24.00	N 33.69 E	100.00	4353.62	274.77 N	183.18 E	1.50
END OF CURVE							
4494.50	25.42	N 33.69 E	94.50	4439.46	307.63 N	205.09 E	1.50
TARGET							
7329.44	25.42	N 33.69 E	2834.95	7000.00	1320.06 N	880.04 E	0.00
TARGET							
8990.20	25.42	N 33.69 E	1860.75	8500.00	1913.16 N	1275.44 E	0.00