

THOMPSON & ASSOCIATES

DATE June 8, 1981

COMPANY BLACKWOOD & NICHOLS

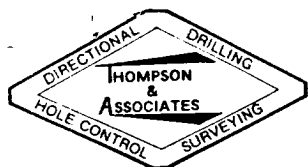
WELL ^{NEBU}~~RIO~~ BLANCO UNIT WELL NO: 26A

LOCATION RIO BLANCO

D-8-30 N-7W

TYPE OF SURVEY I.S.S.





THOMPSON & ASSOCIATES

DATE JUNE 8, 1981

COMPANY BLACKWOOD & NICHOLS

LOCATION RIO BLANCO

HOLE ~~RIO~~ BLANCO UNIT

TYPE OF SURVEY I.S.S.

JOB NO. D-294

COMPUTATIONS TANGENTIAL

HOLE NO: 26A

COMPANY ORDER NO: VERBAL

MEASURED DEPTH	TRUE VERTICAL DEPTH	DRIFT ANGLE	DRIFT DIRECTION	RECTANGULAR COORDINATES			
				NORTH	SOUTH	EAST	WEST
461	460.84	1½°	S-29-W		10.55		5.85
960	959.37	2½°	S-30-W		29.40		16.74
1458	1457.07	2	S-39-W		42.91		27.68
1952	1950.95	1 1/4°	S-16-W		53.27		30.65
2452	2450.87	1°	S-3-W		61.99		31.11
2514	2512.86	1°	S-13-E		63.04		30.87
2545	2543.85	1 3/4°	S-76-E		63.27		29.93
2575	2573.79	3½°	N-77-E		62.86		28.15
2654	2652.49	5°	N-67-E		60.17		21.81
2742	2739.83	7°	N-43-E		52.33		14.50
2869	2866.08	6 1/4°	N-56-E		44.60		3.03
2933	2929.70	6 1/4°	N-56-E		40.70	2.75	
2995	2991.36	6°	N-56-E		37.08	8.12	
3038	3034.06	6 3/4°	N-56-E		34.26	12.31	
3070	3065.82	7°	N-65-E		32.61	15.84	
3102	3097.51	8°	N-66-E		30.80	19.91	
3133	3128.17	8½°	N-74-E		29.54	24.31	
3163	3157.82	8 3/4°	N-85-E		29.14	28.85	
3193	3187.36	10°	N-89-E		29.05	34.06	
3269	3261.83	11½°	N-85-E		27.73	49.15	
3330	3321.38	12½°	N-85-E		26.58	62.30	
3377	3366.83	14 3/4°	N-84-E		25.34	74.20	
3450	3436.73	16 3/4°	N-81-E		22.05	94.98	
3542	3525.17	16°	N-81-E		18.08	120.03	
3661	3640.63	14°	N-84-E		15.07	148.66	
3779	3755.83	12½°	N-85-E		12.84	174.11	
3825	3800.56	13½°	S-88-E		13.21	184.83	
3856	3830.55	14 3/4°	N-89-E		13.07	192.72	
3904	3876.69	16°	N-88-E		12.61	205.94	
3997	3966.41	15 1/4°	N-88-E		11.76	230.39	
4060	4027.67	13½°	N-88-E		11.25	245.09	
4122	4088.43	11½°	N-88-E		10.82	257.44	
4175	4139.91	13 3/4°	N-84-E		9.50	269.97	
4205	4168.89	15°	N-86-E		8.96	277.71	
4258	4220.26	14 1/4°	N-84-E		7.60	290.70	
4311	4271.85	13 1/4°	N-82-E		5.91	302.73	
4358	4317.82	12°	N-80-E		4.21	312.35	
4405	4364.00	10 3/4°	N-78-E		2.39	320.93	
4476	4433.70	11°	N-79-E	.20		334.23	
4541	4497.39	11½°	N-79-E	2.67		346.95	



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RIO BLANCO UNIT

HOLE NO: 26A

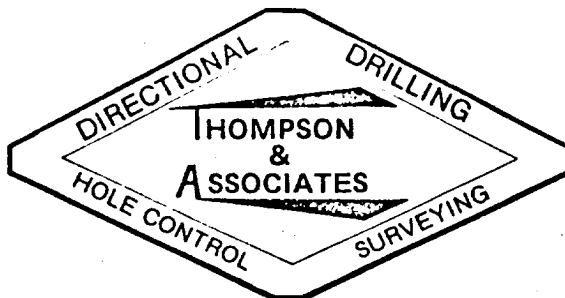
TYPE OF SURVEY I.S.S.

COMPANY ORDER NO: VERBAL

MEASURED DEPTH	TRUE VERTICAL DEPTH	DRIFT ANGLE	DRIFT DIRECTION	RECTANGULAR COORDINATES			
				NORTH	SOUTH	EAST	WEST
4602	4557.46	10°	N-79-E	4.69		357.35	
4694	4648.26	9 1/4°	N-80-E	7.26		371.92	
4745	4698.48	10°	N-87-E	7.72		380.77	
4777	4729.97	10 1/4°	N-88-E	7.92		386.46	
4807	4759.51	10°	N-89-E	8.01		391.67	
4847	4798.77	11°	S-86-E	7.48		399.28	
4925	4875.06	12°	S-86-E	6.35		415.46	
4986	4934.25	14°	S-86-E	5.32		430.18	
5043	4989.18	15 1/2°	EAST	5.32		445.41	
5105	5048.70	16 1/4°	N-89-E	5.62		462.76	
5197	5136.91	16 1/2°	N-89-E	6.08		488.89	
5291	5226.92	16 3/4°	N-88-E	7.02		515.96	
5382	5314.06	16 3/4°	EAST	7.02		542.19	
5475	5403.34	16 1/4°	N-87-E	8.38		568.17	
5566	5491.13	15 1/4°	N-85-E	10.47		592.02	
5660	5581.82	15 1/4°	N-88-E	11.33		616.72	
5755	5673.59	15°	N-84-E	13.90		641.18	
5848	5763.22	14 3/4°	N-87-E	15.14		664.83	
5900	5813.51	14 3/4°	N-87-E	15.83		678.05	

680.27' N-88° 40' E
@ 5813.51 T.V.D.

PHONE (505)287-8693



P.O. BOX 1312

GRANTS, NEW MEXICO 87020

June 8, 1981

State of New Mexico
Energy and Minerals Department
Oil Conservation Division
P.O. Box 2088
Santa Fe, N.M.

To Whom it may concern:

Thompson & Associates, Inc. certifies the attached Magnetic Survey of Blackwood & Nichols Co., Ltd. Northeast Blanco unit Well No. 26-A as shown by Sperry-Sun magnetic compass units no.'s 4665 and 4537 to be true and correct.

B.P. Thompson

B.P. Thompson
President
Thompson & Associates

Subscribed and sworn before me this 8th day of June, 1981.

My Commission expires
12/28/1983

Notary Public