

Shell Western E&P Inc.
A Subsidiary of Shell Oil Company



P.O. Box 576
Houston, TX 77001

May 3, 1991

Mr. Michael E. Stogner
State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87504-2088

Dear Mr. Stogner:

SUBJECT: DIRECTIONAL SURVEY
ADMINISTRATIVE ORDER DD-36(NSBHL)
NORTH HOBBS (G/SA) UNIT, SECTION 27
NO. 221, HOBBS (G/SA) POOL
T18S-R38E, LEA COUNTY, NEW MEXICO

Pursuant to Decretory Paragraph No. (2) of Division Administrative Order DD-36(NSBHL), as amended, please find enclosed a copy of the directional wellbore survey ran on the subject well in December, 1990. The original survey was submitted with Form C-105 to the Hobbs District Office.

Should you have any questions or if additional information is required, please contact Marcus Winder at (713) 870-3797.

Very truly yours,

A handwritten signature in cursive script, appearing to read "J. H. Smitherman".

J. H. Smitherman
Regulatory Supervisor
Western Division

JMW:LGC

Enclosure

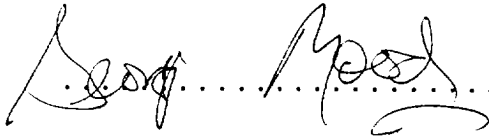
cc: State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
P. O. Box 1980
Hobbs, New Mexico 88241-1980

SCIENTIFIC DRILLING INTERNATIONAL
MIDLAND, TEXAS

SHELL WESTERN E. & P., INC.

Well Name : NORTH HOBBS UNIT #27-221W
Location : LEA COUNTY, NEW MEXICO 27-18-38
:
:
Date Surveyed :
Job No. :
:

This survey is correct to the best of my knowledge
and is supported by actual field data.

..... COMPANY REPRESENTATIVE

Client : SHELL WESTERN E. & P., INC.
Well Name : NORTH HOBBS UNIT #27-221W
Location : LEA COUNTY, NEW MEXICO

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Date
Filename : NHU27221

No Interpolation

MD	INC	DIR	TVD	+N/-S	+E/-W	VS	D'LEG
ft	deg	deg	ft	ft	ft	ft	°/100
0	0.00	N 0.00°E	0.00	0.00	0.00	0.00	0.0
185	0.20	N19.37°W	185.00	0.30	-0.11	-0.22	0.1
275	0.73	N64.02°W	275.00	0.70	-0.67	-0.90	0.7
365	0.43	N55.90°W	364.99	1.14	-1.47	-1.80	0.3
455	0.35	N39.96°W	454.99	1.54	-1.93	-2.38	0.1
545	0.35	N28.62°W	544.99	2.00	-2.23	-2.84	0.1
635	0.29	S46.92°W	634.99	2.08	-2.53	-3.14	0.6
725	0.41	S30.38°W	724.99	1.65	-2.86	-3.28	0.2
815	0.62	S50.01°W	814.98	1.06	-3.40	-3.54	0.3
905	0.48	S75.87°W	904.98	0.65	-4.14	-4.06	0.3
995	0.30	S11.02°W	994.98	0.33	-4.55	-4.31	0.5
1085	0.14	N76.05°W	1084.98	0.13	-4.70	-4.37	0.4
1175	0.12	S51.54°W	1174.97	0.09	-4.88	-4.53	0.1
1265	0.30	N86.75°W	1264.97	0.05	-5.19	-4.79	0.2
1355	0.45	N35.11°W	1354.97	0.35	-5.63	-5.32	0.4
1445	0.75	S88.81°W	1444.97	0.63	-6.42	-6.15	0.7
1535	0.74	S32.59°W	1534.96	0.13	-7.32	-6.79	0.8
1625	0.77	S37.15°W	1624.95	-0.85	-8.00	-7.03	0.1
1786	1.33	S32.30°W	1785.93	-3.29	-9.65	-7.60	0.4
1880	4.65	S49.62°E	1879.81	-6.68	-7.33	-4.14	4.9
1974	8.64	S69.12°E	1973.17	-11.67	2.17	6.56	4.8
2068	12.36	S68.43°E	2065.58	-17.89	18.13	23.68	4.0
2193	14.68	S67.61°E	2187.11	-28.84	45.22	52.90	1.9
2287	15.60	S68.72°E	2277.85	-37.96	68.01	77.44	1.0
2381	17.45	S69.37°E	2367.96	-47.52	92.98	104.16	2.0
2475	19.07	S72.71°E	2457.23	-57.05	120.84	133.52	2.1
2569	20.28	S73.34°E	2545.74	-66.28	151.11	164.99	1.3
2663	21.11	S71.62°E	2633.67	-76.29	182.78	198.06	1.1
2757	22.89	S70.61°E	2720.82	-87.70	216.09	233.18	1.9
2851	24.29	S73.07°E	2806.97	-99.40	251.83	270.65	1.8
2945	23.96	S70.10°E	2892.76	-111.53	288.28	308.94	1.3
3039	24.36	S71.77°E	2978.53	-124.09	324.64	347.32	0.8
3133	24.27	S67.91°E	3064.19	-137.42	360.96	385.95	1.7
3227	24.29	S66.76°E	3149.88	-152.31	396.62	424.60	0.5
3321	25.08	S66.18°E	3235.29	-167.99	432.61	463.86	0.9
3415	24.92	S66.92°E	3320.48	-183.80	469.06	503.58	0.4
3509	23.99	S63.06°E	3406.05	-200.22	504.31	542.45	2.0
3603	22.70	S63.27°E	3492.36	-217.03	537.55	579.62	1.4
3697	21.00	S59.92°E	3579.60	-233.64	568.33	614.44	2.2
3791	19.81	S61.10°E	3667.71	-249.78	596.85	647.00	1.3

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 Location : LEA COUNTY, NEW MEXICO
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 Date
 Filename : NHU27221

No Interpolation

MD	INC	DIR	TVD	+N/-S	+E/-W	VS	D'LEG
ft	deg	deg	ft	ft	ft	ft	°/100
3885	19.21	S59.65°E	3756.31	-265.29	624.14	678.18	0.8
3979	18.55	S55.65°E	3845.25	-281.54	649.83	708.18	1.5
4073	18.20	S52.95°E	3934.46	-298.82	673.89	737.08	1.0
4167	18.58	S55.18°E	4023.66	-316.22	697.90	765.98	0.9
4261	19.01	S52.09°E	4112.65	-334.18	722.28	795.43	1.2
4355	20.09	S56.08°E	4201.24	-352.59	747.75	826.08	1.8
4449	19.41	S56.08°E	4289.71	-370.32	774.11	857.27	0.7
4543	24.42	S56.08°E	4376.89	-389.89	803.21	891.71	5.3

Origin of Bottom Hole Closure PLATFORM CENTRE
 Bottom Hole Closure 893 ft S64.11°E