

SCHLUMBERGER WELL SURVEYING CORPORATION

HOUSTON, TEXAS

June 17, 1963

PLEASE REPLY TO
PERMIAN BASIN DIVISION
708 PETROLEUM LIFE BLDG.
P. O. BOX 632
MIDLAND, TEXAS

Ralph Lowe
Box 832
Midland, Texas

Gentlemen:

We have analyzed the porosity from the Sonic log on your Indian Hills Unit #1, Wildcat, Eddy County, N. M. The section analyzed was from 7306 to 7896. The integrated curve gives an average travel time of 54.3 micro seconds per foot. Using a matrix velocity of 23000 feet per second for Dolomite, we get an average porosity of 7.3% for the entire 590 feet. We have tabulated these porosities on a two foot basis.

These interpretations represent our best judgment, and we are happy to give them to you. Nevertheless, since all interpretations are based on inferences from electrical measurements, we cannot and do not guarantee their accuracy or correctness, and we shall not be liable or responsible, except in the case of willful negligence on our part, for any loss, costs, damages or expenses that may be incurred or sustained from such interpretations.


<u>Interval</u>	<u>Sonic Porosity</u>	<u>Interval</u>	<u>Sonic Porosity</u>
7306 - 08	4.0	7356 - 58	9.0
7308 - 10	7.0	7358 - 60	10.0
7310 - 12	8.5	7360 - 62	11.0
7312 - 14	5.5	7362 - 64	9.5
7314 - 16	2.5	7364 - 66	7.0
7316 - 18	6.0	7366 - 68	8.3
7318 - 20	9.0	7368 - 70	9.5
7320 - 22	5.8	7370 - 72	7.5
7322 - 24	6.0	7372 - 74	8.0
7324 - 26	10.0	7374 - 76	6.3
7326 - 28	8.0	7376 - 78	5.0
7328 - 30	10.0	7378 - 80	2.5
7330 - 32	8.5	7380 - 82	1.5
7332 - 34	6.0	7382 - 84	6.0
7334 - 36	10.3	7384 - 86	3.0
7336 - 38	4.0	7386 - 88	5.0
7338 - 40	10.5	7388 - 90	14.0
7340 - 56	washed out unable to obtain porosity value	7390 - 92	10.0
		7392 - 94	5.5

<u>Interval</u>	<u>Sonic Porosity</u>	<u>Interval</u>	<u>Sonic Porosity</u>
7394-96	8.0	7500-02	11.0
7396-98	3.6	7502-04	11.0
7398-7400	12.0	7504-06	2.0
7400-02	5.0	7506-08	4.0
7402-04	5.3	7508-10	5.5
7404-06	9.0	7510-12	4.0
7406-08	6.0	7512-14	6.0
7408-10	6.5	7514-16	3.7
7410-12	6.0	7516-18	6.4
7412-14	8.0	7518-20	2.7
7414-16	6.0	7520-22	6.0
7416-18	5.5	7522-24	9.0
7418-20	5.3	7524-26	7.0
7420-22	6.0	7526-28	6.5
7422-24	5.7	7528-30	7.7
7424-26	7.7	7530-32	7.7
7426-28	4.7	7532-34	8.0
7428-30	9.5	7534-36	3.5
7430-32	8.3	7536-38	5.0
7432-34	6.2	7538-40	1.5
7434-36	6.0	7540-42	6.2
7436-38	8.0	7542-44	5.7
7438-40	5.7	7544-46	6.0
7440-42	3.0	7546-48	8.2
7442-44	1.5	7548-50	8.7
7444-46	1.5	7550-52	6.3
7446-48	3.0	7552-54	5.8
7448-50	5.2	7554-56	6.3
7450-52	9.0	7556-58	4.0
7452-54	6.0	7558-60	3.8
7454-56	7.7	7560-62	4.0
7456-58	8.0	7562-64	3.0
7458-60	9.5	7564-66	1.0
7460-62	3.0	7566-68	2.0
7462-64	3.0	7568-70	5.0
7464-66	6.5	7570-72	3.5
7466-68	5.0	7572-74	1.0
7468-70	9.0	7574-76	7.5
7470-72	6.5	7576-78	2.5
7472-74	4.7	7578-80	3.0
7474-76	8.2	7580-82	5.5
7476-78	5.7	7582-84	3.0
7478-80	5.5	7584-86	7.0
7480-82	7.0	7586-88	4.5
7482-84	8.0	7588-90	5.0
7484-86	6.0	7590-92	4.0
7486-88	4.0	7592-94	1.5
7488-90	3.5	7594-96	5.0
7490-92	1.7	7596-98	8.5
7492-94	4.0	7598-7600	6.5
7494-96	5.5	7600-02	6.3
7496-98	12.0	7602-04	9.2
7498-7500	3.0	7604-06	10.0

<u>Interval</u>	<u>Sonic Porosity</u>	<u>Interval</u>	<u>Sonic Porosity</u>
7606-08	5.0	7714-16	3.0
7608-10	8.2	7716-18	3.0
7610-12	4.0	7718-20	3.0
7612-14	3.5	7720-22	5.7
7614-16	5.0	7722-24	3.8
7616-18	3.6	7724-26	2.5
7618-20	2.6	7726-28	4.0
7620-22	3.0	7728-30	5.8
7622-24	9.0	7730-32	7.0
7624-26	7.0	7732-34	5.7
7626-28	5.0	7734-36	6.2
7628-30	4.0	7736-38	4.2
7630-32	7.5	7738-40	4.3
7632-34	4.0	7740-42	3.7
7634-36	4.0	7742-44	5.7
7636-38	2.0	7744-46	3.0
7638-40	4.3	7746-48	1.8
7640-42	4.0	7748-50	1.5
7642-44	16.0	7750-52	1.8
7644-46	5.5	7752-54	1.6
7646-48	5.0	7754-56	2.0
7648-50	3.6	7756-58	2.0
7650-52	6.0	7758-60	4.7
7652-54	6.0	7760-62	4.5
7654-56	10.0	7762-64	3.5
7656-58	1.0	7764-66	2.5
7658-60	4.2	7766-68	5.5
7660-62	7.8	7768-70	1.5
7662-64	2.0	7770-72	2.5
7664-66	5.5	7772-74	14.0
7666-68	3.0	7774-76	1.0
7668-70	2.5	7776-78	4.0
7670-72	5.5	7778-80	6.5
7672-74	7.0	7780-82	5.5
7674-76	6.0	7782-84	4.0
7676-78	4.5	7784-86	4.5
7678-80	5.0	7786-88	7.3
7680-82	4.0	7788-90	6.2
7682-84	3.8	7790-92	6.0
7684-86	4.5	7792-94	8.0
7686-88	7.7	7794-96	9.5
7688-90	2.0	7796-98	8.0
7690-92	4.0	7798-7800	5.8
7692-94	4.0	7800-02	5.0
7694-96	7.8	7802-04	3.5
7696-98	1.0	7804-06	2.0
7698-7700	3.0	7806-08	4.0
7700-02	5.0	7808-10	1.5
7702-04	2.5	7810-12	3.0
7704-06	5.0	7812-14	3.8
7706-08	7.0	7814-16	4.0
7708-10	5.5	7816-18	5.5
7710-12	2.5	7818-20	6.2
7712-14	2.0	7820-22	6.5

<u>Interval</u>	<u>Sonic Porosity</u>	<u>Interval</u>	<u>Sonic Porosity</u>
7822-24	7.0	7860-62	1.6
7824-26	5.7	7862-64	1.8
7826-28	5.5	7864-66	1.8
7828-30	6.0	7866-68	2.0
7830-32	5.8	7868-70	2.5
7832-34	6.2	7870-72	3.0
7834-36	6.0	7872-74	5.7
7836-38	2.5	7874-76	5.2
7838-40	2.7	7876-78	3.2
7840-42	3.0	7878-80	3.5
7842-44	5.5	7880-82	5.5
7844-46	8.0	7882-84	5.0
7846-48	5.8	7884-86	4.0
7848-50	3.0	7886-88	2.5
7850-52	5.5	7888-90	4.5
7852-54	2.0	7890-92	4.0
7854-56	4.0	7892-94	3.8
7856-58	3.4	7894-96	3.0
7858-60	5.5		

If we can be of further service, please let us know.


George Horst

GFH/blm

LARGE FORMAT
EXHIBIT HAS
BEEN REMOVED
AND IS LOCATED
IN THE NEXT FILE