

WELL REPORT

SHAR-ALAN OIL CORPORATION

FERNANDEZ NO. 1

820' FSL & 812' FWL of Sec. 11-T16N-R7W N. M. P. M.

McKinley County, New Mexico



WELL REPORT

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FERNANDEZ NO. 1
McKINLEY COUNTY, NEW MEXICO

Location: 824' FSL & 812' FWL Sec. 11-T16N-R7W N.M.P.M.

Elevation: 6546' GL; 6550' KB (Datum)

Contractor: Stewart Brothers Drilling Rig #27, WABCO 2000, Rotary

Spud Date: September 29, 1971

Completion Date: October 7, 1971

Total Depth: 2714' Driller; 2712 (KB) P & A.

Casing: Surface 7 5/8" CSA 40'. Cem W/12 sx common.

Plugging: Dakota; 50' plug 2710'-2640' & 2590'-2540'.
Massive Gallup; 150' plug 1680'-1530; Surface 50' plug 1050-1000'-
welded plate on surface pipe pending decision of land owner to
complete as water well.

Electrical Surveys: Welex; Induction, Electric Log 2712'-40;
Gamma Ray, Density 2712'-1450'.

Test Data: DST#1 2564'-2576'. Pre-flow 20 min., initial shut-in 30 min.;
second flow 30 min.; Final shut-in 30 min. Opened tool, strong
blow immediately, flow decreased to weak blow at 20 min. IFP
990 psig, ISIP 1043 psig, IFP 1003 psig - FFP 1043 psig, FSIP
1043 psig. IHP 1317 psig. FHP 1304 psig. BHT 90°F. Rec 500' mud,
1910' Fresh water 2410' total fluid.

FORMATION TOPS (LOG)

<u>Formation Name</u>	<u>Depth K.B. Feet</u>	<u>K.B. Datum Feet</u>
Hospah Gallup	1482	+5066
Massive Gallup	1568	+4982
Middle Mancos	1670	+4880
Greenhorn	2334	+4216
Graneros	2378	+4172
Dakota	2426	+4124
Dakota De Zone	2560	+3990
Morrison	2690	+3860
Total Depth	2712	+3838

SAMPLE DESCRIPTION

(Tops shown are Log Tops)

Top of Hospah Gallup - 1482'

1450-80	ss, gry fn gr 20%, sh, gry 30%, sltstn 50%
1480-90	section as above, w/40% ss, 40% sh, 20% sltstn
1490-1510	section as above, w/20% ss, 60% sh, 20% sltstn
1510-40	section as above, w/10% ss, 90% sh
1540-70	section as above, w/50% ss, 50% sh

Top of Massive Gallup - 1568'

1570-80	sltstn 70%, sh as above 30% tr ss.
1580-1670	ss, fn to med gr p cons 90%, sh, gry 10%

Top of Middle Mancos - 1670'

1670-1900	sh, gry to dark gry 80%, ss 10%, sltstn 10%
1900-2340	sh, as above 90%, sltstn 10%, tr ss

Top of Greenhorn - 2334'

2340-70	ss, gry fn gr well cons 20%, sh dk gry 80%
2370-80	sh, as above 100%, tr ss

Top of Graneros - 2378'

2380-2400	sh, as above 80%, ss as above 10%, sltstn 10%, some caleite xls
2400-20	section as above, ss increase to 20%, sh decrease to 70%

Top of Dakota - 2420'

2420-30	section as above
2430-50	ss, gry med to fn gr, well cons arkosic in part 30%, sh as above 60%, sltstn 10%
2450-90	ss, dk gry well cons, 10%, sh as above 90%
2490-2500	sh, as above 100%, tr ss
2500-70	sh, as above 90%, ss as above 10% some pyrite

Top of Dakota De Zone - 2560'

2570-2630	ss, lt gry med rounded, med gr well sorted p.cons glave in pt 40%, sh dk gry 60%
2630-50	section as above w/10% ss & sh 90%
2650-80	section as above w/40% ss & 60% sh
2680-90	section as above w/20% ss, 80% sh

Top of Morrison - 2690'

2690-2700 section as above w/10% ss, 60% sh & 30% sltstn
 2700-2710 sh lt grn 20%, 20% ss & 60% sh as above
 Circulating sample at T.D. 2710'. sh, as above 40%, dk gr sh 40%,
 and ss, white well rounded & sorted pcons 20%

DRILLING TIME

DEPTH	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
60-100												6	7	5	6	4	4	5	4	3
100-200	3	3	3	4	3	4	5	4	3	3	5	5	3	5	3	3	3	3	3	3
200-300	3	3	2	2	2	2	2	3	2	4	2	3	3	3	3	2	2	2	2	2
300-400	3	3	2	2	2	2	2	3	3	2	2	2	2	3	2	2	2	2	2	2
400-500	2	4	4	4	7	4	3	3	3	3	5	7	5	4	8	7	5	4	4	5
500-600	5	6	8	5	3	3	3	3	5	5	6	5	5	5	6	5	8	5	8	9
600-700	10	9	9	9	7	7	7	9	9	8	8	8	7	8	8	9	8	10	9	10
700-800	9	10	8	9	9	9	8	7	9	9	8	9	9	7	5	5	6	7	4	5
800-900	11	6	6	5	4	8	16	8	5	6	4	3	5	4	4	6	8	8	12	11
900-1000	7	10	3	4	3	2	5	4	6	4	4	4	4	7	7	7	10	4	6	24
1000-1100	6	10	5	9	6	7	7	6	8	8	7	9	9	10	12	8	7	8	8	10
1100-1200	8	10	8	9	10	8	10	11	9	11	13	14	12	13	11	14	16	14	15	19
1200-1300	23	18	19	20	20	12	7	15	22	11	10	12	12	8	9	9	10	11	14	11
1300-1400	12	11	15	13	18	17	18	17	17	18	25	24	25	23	20	25	15	14	18	13
1400-1500	12	14	-	18	22	25	25	23	25	26	23	22	24	20	17	15	7	9	10	17
1500-1600	4	17	22	15	26	25	8	8	9	14	16	22	20	9	7	5	5	4	3	2
1600-1700	2	6	8	7	6	8	7	11	7	7	8	16	12	14	17	13	14	15	14	15
1700-1800	17	12	22	20	14	17	16	16	15	15	17	15	14	15	16	18	14	18	20	17
1800-1900	16	17	17	19	18	18	19	20	19	-	16	20	20	21	18	17	12	-	22	19
1900-2000	27	20	18	19	18	20	18	20	18	18	18	19	20	19	18	21	17	18	19	17
2000-2100	14	18	18	14	16	16	14	14	13	12	13	14	17	16	13	16	14	11	14	17
2100-2200	20	21	20	28	19	19	18	12	13	12	12	12	14	15	18	14	13	14	15	13
2200-2300	16	19	19	20	16	17	25	28	26	23	22	17	16	28	30	29	16	23	25	15
2300-2400	19	20	16	18	19	19	21	29	30	24	35	33	24	40	24	7	25	23	20	21
2400-2500	15	15	13	18	28	21	16	19	18	22	25	28	25	29	-	35	25	22	28	32
2500-2600	32	29	34	37	23	26	26	20	26	29	24	20	16	14	18	20	15	20	21	20
2600-2700	39	25	22	25	23	24	37	21	9	9	11	17	20	23	27	32	31	32	28	21
2700-2710	15	17																		

T.D. 2710'

SUMMATION

This well was spudded on September 29, 1971, and completed as a dry hole on October 7, 1971. Wet weather and the necessity to skid the rig after drilling 300 feet due to crooked surface casing caused a three day delay in the expected time span from spud to completion date.

Sample analysis, electric log interpretation and a drill stem test of the Dakota indicated no hydrocarbons in the prospective horizons.

Walter H. Williams