

WELL REPORT

SHAR-ALAN OIL CORPORATION

FERNANDEZ NO. 2

1980' From the South Line & 1980' From the East Line
Sec. 5. ~~Flon, ROW~~ 5-15-6

McKinley County, New Mexico



WELL REPORT
Shar-Alan Oil Corporation
Fernandez No. 2
McKinley County, New Mexico

Location: 1980' FSL & 1980' FEL Sec. 5: T15N, R6W N.M.P.M.

Elevation: 6521' GL; 6525' KB (Datum)

Contractor: Stewart Bros. Rig #27 WABCO 2000 Rotary

Spud Date: October 24, 1971

Completion Date: October 28, 1971 D & A

Total Depth: 2090' Driller, 2089' Welex (KB)

Casing: 7 5/8" CSA 34' Cem w/9 sx

Plugging: Spotted cement plugs as follows: Dakota 1950-2050 and 1650-1700'.
Howco plumped in 100 sx cement, 2% cacl and 10% sand to plug the
Massive Gallup - flowing approx. 200 GPM fresh water. Surface -
cem. 30' casing. Set dry hole marker.

Electrical

Surveys: Welex - Induction-Electric log 2083' to 70'.
Gamma Ray-Density 2088' to 700'

Test Data: DST #1 - 1966 to 1988' 20 min. pre-flow, 30 min shut-in, 20 min 2nd flow,
20 min. 2nd shut-in. Recovered 210' drilling mud and 1490' fresh water.
IHP 860#, IFP 40#, FFP 730#, ISIP 769#, 2nd flow IFP 769#, FFP 769#,
FSIP 782#. BHT 82°F.

FORMATION TOPS

<u>Formation Name</u>	<u>Depth K.B. Feet</u>	<u>K.B. Datum Feet</u>
Hospah Gallup	712	+5813
Massive Gallup	810	+5715
Middle Mancos	910	+5615
Greenhorn	1594	+4931
Graneros	1634	+4891
Dakota	1673	+4852
Dakota DE Zone	1802	+4723
Morrison	1940	+4585
Total Depth	2090	+4435

SAMPLE DESCRIPTION
(Tops shown are log tops)

Top of Hospah Gallup 712'

700'-760' Sh, lt gry 70%, sltstn 30%
760'-770' Ss, lt gry, vy fn gr p-cons 80%, sh 20%
770'-810' Ss, aa 40% decreasing to 20%, sh 80%

Top of Massive Gallup 810'

810'-910' Ss, lt gry, med. gr. p-cons to med. cons 80%, sh 20%

Top of Middle Mancos 910'

910'-1000' Ss, as above 40%, decreasing to 10%, sh, lt gry to dk gry 90%
1000'-1600' Sh, lt gry to dk gry 80%, sltstn 20%, some calcite xls scattered throughout

Top of Greenhorn 1594'

1600'-1640' Sh, as above 60%, ss, lt gry med gr. med to well cons 20%
Slststn 20%, some chart-scattered.

Top of Graneros 1634'

1640-1680' Sh, drk gry 60%, lt gry 30%, sltstn 10%.

Top of Dakota

1680-1710' Ss, lt gry, med gr. med well rounded & cons 40% sh, as above 60%.
1710-1760' Sh, as above 60%, ss 10% Slststn 30%.
1760-1780' Sh, as above 80%, sltstn 20%.
1780-1820' Ss, lt gry med cons 40%, Sh 40%, sltstn 20%.
1820-60' Sh, 60%, sltstn 40%
1860-1910' Ss, lt gry. med gr p-cons 60%, Sh 40%, No show
1910-1950' Ss, as above 20%, sh 60% sltstn, white, 30%, Some coal in bottom of section.

Top of Morrison

1950-60' Sh, lt grn to gry 30%, white sltstn 30%, dk gry sh 40%.
1960-2020' Ss, white, med gr. well sorted med. cons 60%, sh 40%
2020-2086' Ss, aa 40%, sh 60% - T.D. 2086'

SUMMARY

The Fernandez No. 2 was plugged and abandoned after sample analysis, log calculations and result of a DST indicated that producable hydrocarbons were not present. This well was flowing approximately 200 GPM fresh water from the Gallup sands but the landowner elected not to complete this well as a fresh water source. Halliburton was used to shut off this water flow and effectively plug the Gallup sands by pumping in 100 sacks of cement with 10% sand content.

Walter H. Williams
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DRILLING TIME - MINUTES PER FIVE FEET

SHAR-ALAN - FERNANDEZ No 2

MS KINLEY CO. NEW MEXICO

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