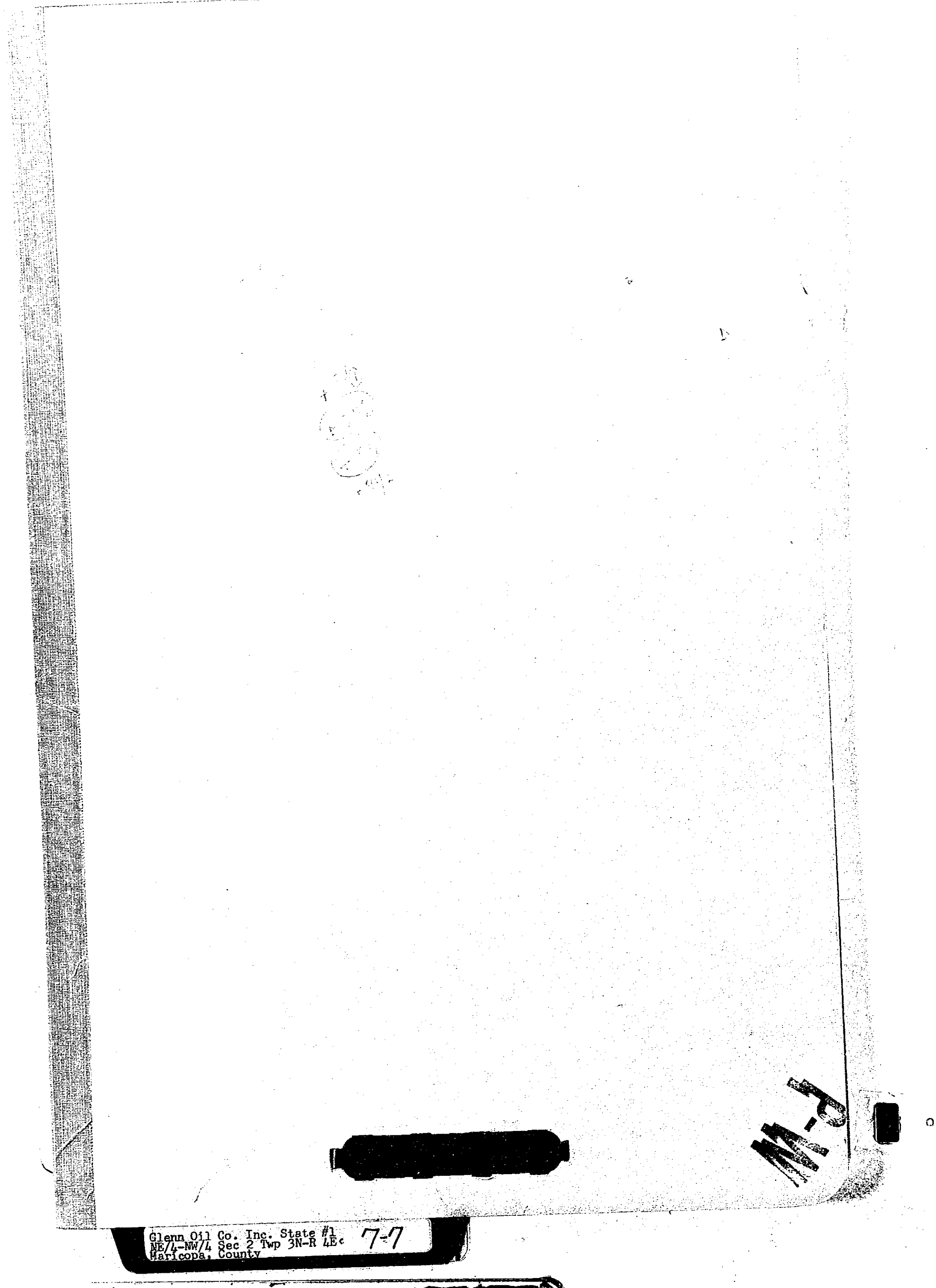

Glenn Oil Co. Inc. State #1
NE/4-NW/4 Sec 2 Twp 3N-R 4E
Maricopa, County 7-7

County Maricopa

Area Paradise Valley

Lease No. _____

Well
Name Glenn Oil Company #1 State

Location NE NW Sec 2 Twp 3N Range 4E Footage 350 FNL & 2112 FWL

Elev ±1525 Gr _____ KB _____ Spud Date _____ Completed Abandon 1948 Total Depth 4159 (-2634)

Contractor: Curry Corrugated Approx. Cost $ _____

Drilled by Rotary ___
Cable Tool ___

Casing Size	Depth	Cement
~~12"~~	~~218~~	

Production Horizon _____

Initial Production D&A

REMARKS ALD #35 p. 62

Elec. Logs Elec Log - 9-10-48 to 3878'

Applic to Plug ___ Plugging Record ___ Completion Report ___

Sample Log _____
Sample Descrip. _____
Sample Set T-36, P-1652
Cores _____

Water well - accepted by _____

Bond Co. & No. _____

Bond Am't $ _____ Cancelled _____ Date Organization Report _____

Filing Receipt _____ Dated _____ Well Book ___ Plat Book ___

Loc. Plat ___ Dedication _____

API # 02-013-05027

PERMIT NUMBER none Date Issued _____

#7-7

WELL LOG -- GLENN OIL COMPANY, INC. STATE NO. 1
Section 2, Township 3-N, Range 4-E
Paradise Valley, Maricopa County, Ariz.

12" Casing to 218'

From Top	to	218	Cased and cemented valley fill
218	-	1016	Clay and sand
1016	-	1057	Coarse sand and clay
1057	-	1153	Sand with gray lime and clay
1153	-	1240	Sand with gray lime and clay
1240	-	1265	Fine brown sand
1265	-	1285	Brown sand, streaks of clay
1285	-	1330	Coarse sand, streaks of clay
1330	-	1446	Gray lime and hard boulders
1446	-	1483	Sand and clay, with little gray lime
1483	-	1547	Fine gray sand
1547	-	1565	Coarse sand with quartz shells
1565	-	1606	Hard sand and rock
1606	-	1620	Lime and rock
1620	-	1666	Hard cemented sand and rock
1622	-	1670	Sample fill, sample qtzite (?)
1666	-	1686	Dolemite
1686	-	1696	Showings of gray shale and hard rock
1696	-	1705	Hard rock conglomerated
1705	-	1717	Dolemite; gray lime
1717	-	1733	Gray lime and cemented sand
1733	-	1737	Dolemite, little lime
1737	-	1778	Conglomerate
1778	-	1790	Conglomerate and streaks of white lime
1790	-	1794	Conglomerate
1794	-	1796	Lime salt and then shale
1796	-	1797	Conglomerate
1797	-	1798	Conglomerate; showing of gray lime
1798	-	1803	Conglomerate; broken streaks of lime
1803	-	1812	Conglomerate, shells
1812	-	1823	Conglomerate, streaks of lime and shale
1823	-	1825	Little sand and little gas showing in mud
1825	-	1872	Conglomerate, hard shells and lime
1872	-	1875	Conglomerate, little lime and shale
1875	-	1921	Conglomerate, hard shells
1921	-	1933	Conglomerate, lime, some shale
1933	-	1952	Hard conglomerate with some lime
1952	-	1963	One foot of chert; conglomerate, shells, lime
1963	-	1984	Conglomerate, white lime, shells
1984	-	2030	Conglomerate, lime, shells
2030	-	2055	Conglomerate, lime, some shale, shells
2055	-	2077	Conglomerate, lime and hard shells
2077	-	2140	Conglomerate, lime, sand, hard shells
2140	-	2211½	Conglomerate, lime sand, shells
2211½	-	2212	Six inches chert, some lime
2212	-	2213	Chert, samples show some very hard red rock & quartz
2213	-	2214	Conglomerate
2214	-	2218	Conglomerate sand with flakes of black oily shale. This sample shows specks of oil under black lamp.
2218	-	2247	Conglomerate, shells, sand streaks
2247	-	2250	Lime and sand
2250	-	2257	Conglomerate
2257	-	2348	Conglomerate, quartz, shells, lime
2348	-	2357	Red bed
2357	-	2372	Conglomerate, lime, hard shells
2372	-	2385	Conglomerate, some red clay
2385	-	2447	Conglomerate, shells, shale, lime, quartz
2447	-	2452	Conglomerate, with little show of red shale, shells
2452	-	2502	Conglomerate, hard shells, lime, quartz
2502	-	2690	Conglomerate, shells, lime
2690	-	2705	Conglomerate, shells, lime, red bed
2705	-	2729	Conglomerate, shells, lime
2729	-	2763	Conglomerate, lime, hard shells, streaks of red shale

WELL LOG -- GLENN OIL COMPANY, INC. STATE NO. 1 (Continued)
Maricopa County, Section 2, Township 3-N, Range 4-E.

2763	-	2766	Conglomerate, lime, shells, benite
2766	-	2806	Conglomerate, hard shell, bentnite lime
2806	-	2876	Conglomerate, sand shells
2876	-	2899	Conglomerate, lime, sand and shale
2899	-	2925	Conglomerate, sand, red bed, lime
2925	-	2931	Conglomerate, hard sand
2931	-	2955	Conglomerate, sand, lime, accnosal, thin streak of red bed
2955	-	2957	Conglomerate, hard shell
2957	-	2962	Lime, sand, streaks of red bed
2962	-	3006	Conglomerate, hard shells
3006	-	3008	Conglomerate, lime, sand, shale and shells
3008	-	3031	Red shale, conglomerate, sand, lime
3031	-	3180	Conglomerate, sand, shale, lime
3180	-	3204	Shale
3204	-	3206	Shale, shells
3206	-	3253	Black Shale, sand, shells
3253	-	3283	Shale, sand, lime, streaks of red bed
3283	-	3351	Green shale, streaks of benite, lime
3351	-	3394	Hard green shale
3394	-	3399	Hard green shale, shells
3399	-	3407	Green shale, lime
3407	-	3410	Gray shale
3410	-	3428	Black shale
3428	-	3480	Record burned with rig
3480	-	3623	Black shale
3623	-	3518	Sticky shale
3518	-	3537	Shale, lime
3537	-	3554	Shale
3554	-	3623	Shale, sandy
3623	-	3655	Sticky shale
3655	-	3665	Hard shale
3665	-	3686	Sticky shale
3686	-	3700	Sticky shale, lime
3700	-	3713	Shale, lime, shells
3713	-	3751	Shale, lime
3751	-	3764	Shale, shells, bentnite, little lime
3764	-	3821	Shale, lime
3821	-	3822	Lime
3822	-	3824	Shale, hard shells
3824	-	3828	Hard shell
3828	-	3829	Shale, chert
3829	-	3831	Chert, lime
3831	-	3833	Chert, shale, lime
3833	-	3837	Chert, shale, lime
3837	-	3840	Hard lime, shale
3840	-	3853	Hard lime
3853	-	3854	Hard lime
3854	-	3856	Showing of sand
3856	-	3878	Hard lime
3878	-	3880	Lime and shale
3880	-	3884	Red bed
3884	-	3889	Lime and shale
3889	-	3903	Red bed, shale, lime
3903	-	3908	Shale, lime
3908	-	3920	Hard lime, shale, red bed
3920	-	3932	Shale, shells
3932	-	3934	Hard lime
3934	-	3946	Black lime
3946	-	3055	Red bed and lime
3955	-	3968	Lime, shale, red rock
3968	-	3979	Lime, red bed
3979	-	4028	Lime, shale
4028	-	4033	Broken lime
4033	-	4083	Hard lime

WELL LOG -- GLENN OIL COMPANY, INC. STATE NO. 1 (Continued)
Maricopa County, Section 2, Township 3-N, Range 4-E.

4083	-	4089	Black lime
4089	-	4101	Lime, shale, bentnite
4101	-	4110	Lime, shale
4110	-	4118	Black lime
4118	-	4159	Shale, lime

T-7

DESCRIPTION OF WELL CUTTINGS
from
Glen Oil Co., State No. 1 in Paradise Valley, Arizona

NE¼, NW¼, sec. 2, T. 3N., R. 4E.

Samples examined by
C. S. Bromfield and F. L. Turner

Depth in feet	Under 2 mm	Over 2 mm	Angularity	Composition	Remarks
	%	%	Sub-Angular To Rounded	Quartz, quartzite, mica, occasional magnitite	Silt: calcareous
100-118	100	-	do.	Quartz, quartzite (moderate red), others	Sand with gravel: cement calcareous
118-140	90	10	do.		Do.
140-160	60	40	do.	Quartz, quartzite, jasper, others	Sand: medium to very coarse, cement calcareous
180-200	100	-	do.	Quartz, quartzite, mica, some chert, magnetite, and epidote	Sand with gravel: cement calcareous
200-220	50	50	do.	Quartz, quartzite, biotite mica, magnetite, epidote, feldspar, others	Do.
220-260	50	50	do.	Quartz, quartzite, biotite mica, magnetite, epidote, others	Gravel with sand: cement calcareous
260-280	15	85	do.	Quartz, quartzite, biotite mica with tourmaline, others	Do.
280-300	5	95	do.	Quartzite, quartz, biotite mica, magnetite, epidote, rhyolite, others	Gravel: cement calcareous
300-400	-	100	do.	Quartz (rounded pebbles), quartzite, others	Gravel with sand: cement calcareous
320-340	15	85	do.	do.	Do.
340-360	10	90	do.	do.	Do.
400-425	10	90	do.	Quartz, quartzite, others	Do.
425-454	10	90	do.	do.	Gravel and sand: cement calcareous
454-474	50	50	do.	Quartz, quartzite, others	

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Depth in feet	Under 2 mm	Over 2 mm	Angularity	Composition	Remarks
	%	%			
474-495	70	30	Sub-Angular To Rounded	Quartz, quartzite, biotite mica, epidote, andesite	Sand with gravel
514-537	80	20	do.	Quartz, quartzite, biotite mica, epidote, andesite	Do.
537-560	-	100	do.	Quartz, quartzite, quartzite and conglomerate, others	Do.
560-584	-	100	do.	Quartzite, quartzite conglomerate, others	Gravel: with pebbles
584-600	-	100	do.	Quartz, quartzite, quartzite conglomerate, others	Do.
600-622	-	100	do.	Quartz, quartzite, others	Do.
622-640	-	100	do.	do.	Do.
644-666	-	100	do.	Quartzite	Do.
666-688	-	100	do.	Quartzite predominate, some quartz	Do.
688-710	10	90	do.	Quartzite, quartz, occasional felsite, probably andesite	Gravel with sand
710-732	5	95	do.	Quartzite, quartz, occasional feldspar, mica flakes	Do.
732-754	-	100	do.	do.	Gravel: with pebbles
754-776	-	100	do.	Quartzite, occasional quartz, others	Do.
776-798	-	100	do.	Quartz, quartzite, occasional felsite, probably andesite	Do.
798-820	10	90	do.	do.	Gravel with sand
820-840	5	95	do.	do.	Do.
840-860	-	100	do.	Quartz, quartzite, others	Gravel: granule with pebbles
860-880	-	100	do.	do.	Do.
880-890	-	100	do.	do.	Do.
900-920	-	100	do.	Quartz, quartzite, others	Gravel

Accepted cp 4/4/43

Depth in feet	Under 2 mm	Over 2 mm	Angularity	Composition	Remarks
	%	%			
910-960	10	90	Sub-Angular To Rounded	Quartz, quartzite, others	Gravel with sand
920-940	15	85	do.	do.	Do.
960-980	10	90	do.	Quartz, quartzite, others	Do.
980-1002	-	100	do.	Quartzite, some quartz, others	Gravel
1002-1022	-	100	do.	do.	Do.
1022-1032	-	100	do.	do.	Do.
1032-1043	-	100	do.	do	Do.
1043-1054	30	70	do.	do.	Gravel and sand
1054-1065	-	100	do.	do.	Gravel with a few pebbles
1065-1075	-	100	do.	do.	Do.
1075-1085	-	100	do.	do.	Do.
1095-1105	-	100	do.	do.	Do.
1105-1115	20	80	do.	Quartz, quartzite, others	Gravel and sand
1115-1125	20	80	do.	Quartz, quartzite, felsite	Do.
1125-1135	20	80	do.	do.	Do.
1135-1145	30	70	do.	do.	Do.
1145-1155	-	100	do.	do.	Do.
1155-1165	15	85	do.	Quartz, quartzite, felsite	Gravel and sand
1165-1170	30	70	do.	do.	Do.
1170-1175	40	60	do.	do.	Do.

[illegible] 4/4/43

Depth in feet	Under 2 mm	Over 2 mm	Angularity	Composition	Remarks
	%	%			
1175-1180	45	55	Sub-Angular To Rounded	Quartzite, quartz, others	Gravel and sand
1180-1190	50	50	do.	do.	Do.
1190-1195	30	70	do.	do.	Do.
1195-1200	20	80	do.	Quartzite, quartz, felsite	Do.
1215-1230	20	80	do.	do.	Do.
Missing			do.		
1320-1335	50	50	do.	Quartz-quartzite, occasional schist, others	Do.
1365-1380	60	40	do.	do.	Do.
Missing			do.		
1440-1450	60	40	do.	do.	Do.
1455-1470	60	40	do.	do.	Do.
1485-1500	50	50	do.	do.	Do.
1545-1560	25	75	do.	do.	Do.
1560-1575	40	60	do.	do.	Do.
1622- ?	50	50	do.	do.	Do.

Inspection of op 4 4/43

Depth in Feet	Composition of Cuttings	Remarks
1670-1680	Quartzite	Quartzite: light gray, fine grained
1700-1705	do.	Do.
1705-1710	do.	Do.
1710-1720	do.	Do.
1720-1730	do.	Do.
1730-1760	do.	Do.
1760-1770	do.	Do.
1780-1790	do.	Do.
1845-1850	Quartzite, occasional schist	Quartzite: light gray, fine grained; presence of schist fragments may indicate a few interbedded schist layers or contamination.
1895-1900	do.	Do.
1940-1950	Quartzite, occasional schist	Quartzite: light gray to light purplish, probably some thin schist beds
2000-2005	do.	Do.
2030-2035	do.	Do.
2065-2070	do.	Do.
2104-2105	do.	Do.
2208-2209	do.	Quartzite: light gray to light purplish, probably some schist beds
2319-2320	do.	Do.
2385-2395	do.	Do.
2395-2400	do.	Do.

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Depth in Feet	Composition of Cuttings	Remarks
2420-2425	Quartzite, occasional schist	Quartzite: light gray to light purplish, probably some schist beds
2465-2470	do.	Do.
2560-2570	do.	Do.
2570-2580	do.	Do.
2580-2590	do.	Do.
2590-2600	do.	Do.
2600-2610	do.	Do.
2610-2620	do.	Do.
2620-2630	do.	Do.
2630-2640	do.	Do.
2640-2650	do.	Do.
2650-2660	Quartzite, occasional schist, some chloritized; magnetite and epidote rare	Quartzite: light gray to light purplish, fine grained; interbedded schist, or possibly sample contamination
2660-2670	do.	Do.
2670-2680	do.	Do.
2680-2690	do.	Do.
2690-2700	do.	Do.
2700-2710	do.	Do.
2725-2730	do.	Do.
2730-2740	do.	Do.
2745-2770	do	Do.

~~[illegible]~~ OP 44143

Depth in Feet	Composition of Cuttings	Remarks
2775-2780	Quartzite, occasional schist, some chloritized; magnetite and epidote rare	Quartzite: light gray to light purplish, fine grained; interbedded schist, or possibly sample contamination
2780-2790	do.	Do.
2790-2800	do.	Do.
2800-2810	Quartzite, schist rare, feldspar rare - possibly contamination	Quartzite: light gray to light purple, fine grained; few fragments of schist possibly as contamination
2810-2820	do.	Do.
2820-2830	Quartzite, occasional schist	Quartzite: light gray to light purple, fine grained
2830-2840	do.	Do.
2840-2850	do.	Do.
2850-2860	do.	Do.
2860-2870	do.	Do.
2870-2890	do.	Do.
2890-2895	do.	Do.
2900-2910	do.	Do.
2910-2920	do.	Do.
2920-2930	Quartzite, schist common	Quartzite: light gray to light purplish, fine grained, probably some interbedded schist
2930-2950	do.	Do.
2950-2975	Quartzite, abundant schist	Do.
2975-2980	Quartzite, schist common, some chloritized	Do.
3025-3050	do.	Do.

Yesperman cp 4443

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Depth in Feet	Composition of Cuttings	Remarks
3050-3070	Quartzite, occasional schist	Quartzite: light gray to light purplish, fine grained, some schist
3070-3095	Quartzite, common to abundant schist	Quartzite: light gray to light purplish, fine grained, more schist
3120-3125	Schist, quartzite common	Schist: light to dark green, probably some quartzite beds.
3125-3130	do.	Do.
3150-3160	Schist, quartz fragments rare	Schist: light to dark green; quartz probably as veinlets and stringers.
3160-3165	do.	Do.
3200-3205	do.	Do.
3525-3550	Schist, some chloritized, quartz rare	Do.
3550-3575	Chloritized schist	Schist: dark green, chloritized.
3600-3625	do.	Do.
3635-3640	Schist	Schist: light green.
3655-3660	Chloritized schist	Schist: chloritized.
3680-3685	do.	Do.
3705-3710	do.	Do.
3710-3715	do.	Do.
3740-3745	do.	Do.
3850-3860	Schist, similar to sample at 3635 feet.	Schist: light green
3885-3890	Schist	Schist: brown.

~~[illegible]~~ OP44143

Depth in Feet	Composition of Cuttings	Remarks
3895-3900	Schist	Schist: brown.
3975-3980	Chloritized schist	Schist: light green, chloritized.
4020-4025	do.	Do.
4035-4040	Metamorphic	Calcareous epidotized metamorphic.
4040-4045	Schist, some metamorphic as in 4035-4040	Schist: light green; some metamorphic as in 4035-4040.
4065-4070	Schist	Schist: light green.
4095-4100	do.	Do.

~~Hopkins~~ 004-4143

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(A-3-4)2

Ulem Oil Co.
State No. 1 Paradise Valley.

Samples collected by S. F. Turner, May 29, 1948. Examined binocular mic. by J. E. Feth, June 1948.

Probable that alluvium extends to 1560 feet
Probable that balance of hole was in gray quartzite and miscellaneous schist layers to bottom of samples available. 1875'
Not possible to be sure when (or if) rounded alluvial grains disappeared entirely.
Contamination of lower samples from above is possible.

Samples listed as "silt" may be simply inadequately washed. Samples were studied as submitted at the well, no control over their taking or preparation.

900-990 feet. Silt, tan. Calcareous silt - small no. pebbles of white and gray quartz.

990-1050 feet. Alluvium
Sand, fine to coarse, mostly clear or gray quartz. Minor amount of biotite, feldspar.
Large grains and pebbles include quartz (90%), white feldspar, schist, brown quartzite, red schist (?) muscovite parting surfaces, grayish-tan tuff.

1050-1110 feet. Alluvium
Quartz sand - mostly fine-grained to medium grained. Minor amounts of biotite and muscovite, feldspar, magnetite in very small grains, tramp iron: 10% to 20% sample in small pebbles include quartz, red porphyry, green quartzite (?), white tuff.

1110-1125 feet. Alluvium
Quartz sand, fine to medium, with larger grains and pebbles of red volcanic ± porphyritic; epidote (?), biotite; muscovite; black pyribole; tan fine-grained sandstone; brown quartzite; light gray tuff; light gray fine-grained calcareous sandstone.

1125-1140 feet. Gray or grayish tan shale - calcareous, soft
Quartz sand fine-grained to coarse, with larger grains and pebbles of epidote (?); black pyribole; light grayish tan sandstone; white feldspar; brown quartzite.
Sample distinctive because of (1) shale fragments (2) moderate abundant portions of muscovite books to 3/4 in. max. dimension and 1/16 in. max. thickness approximately.

1155-1170 feet. Alluvium.
Quartz sand essentially like 1110-1125.

The permit. cop 4 4/43

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1170-1185 feet — Alluvium
Sand, fine to coarse grained - mostly medium-grained. Quartz dominates. Grains include hexagonal biotite plates, some amphibole or pyroxene, muscovite, feldspar, green schist(?).
Pebbles (small) include dark gray quartzite, amethystine quartz, clear and white quartz, light gray tuff.

1215-1230 feet. — Alluvium.
Quartz sand with grains and fragments of brick-red and buff siltstone (one fragment of contact between the two); magnetite, green quartzite; muscovite, golden (decomp.) biotite; feldspar; light gray tuff; black pyroxoles (unidentified); black(unaltered) biotite; jaspar. Light gray sandstone, green (chlorite ?)schist.

? -1270 feet. — Alluvium.
Tan silt containing grains and small pebbles of gray quartz and quartzite, clear quartz, basalt, white tuff (?), light-gray calcareous sandstone, buff tuff, muscovite, sanadine (?), plagioclase

1320-1335 — Coarse sand - reddish brown.
Much quartz, angular to well rounded 50%
Grains (well-rounded) of tan sandstone or tuff 30%
Fine grains quartz, calcareous iron-stained material, minor amounts of muscovite.

Large grains and pebbles of schist (uncommon) 20%
Gray quartz, sandstone (or tuff as above), aggregates of grains cemented with dark reddish brown calcareous material rather soft, shiny when broken.

Iron-staining characterizes sample. Possibility of contamination, but appears OK.

1365-1380 — Alluvium.
Tan silt containing grains and small pebbles of quartz, white, clear, stained, gray; biotite; epidote (?) light-gray tuff; tan sandstone.

1380-1395 — Alluvium.
Quartz sand with grains and small pebbles of basalt (?); muscovite and biotite, white tuff; brown quartzite; tan sandstone; green (chlorite ?) schist.

1425-1440 — Quartz, clear or stained 60%
Quartz, gray 30%
Quartzite, gray 10%

Grains show much rounding, except for larger fragments. Almost certainly alluvium. Larger fragments are gray quartzite, perhaps cuttings from boulders. One rounded disk 1 x 2 x 0.5 cm. light gray, calcareous sandstone.

1440-1450 — Alluvium.
Quartz sand with addition of light gray calcareous sandstone, white tuff, some white feldspar ± decomposed and aggregated biotite.

The permit op 4 4143

1455-1470 feet — Alluvium.
Quartz sand with grains and small pebbles of quartz, clear, gray, brown, red, amethystine; white tuff; gray schist, euhedral biotite.

1485-1500 — Alluvium.
Quartz sand - mostly fine-grained, minor amounts of feldspar, magnetite, mafics.
Larger grains and small pebbles - quartz. Two pebbles white tuff noted.

1545-1560 — Alluvium (?) Probably Quaternary alluvium, but rounding inconclusive.

Medium to fine-grained quartz sand (?) with minor amounts of white feldspar, magnetite, black and green mafics unidentified.

Large grains and small pebbles include gray quartz, clear quartz, white sandstone (siltstone).

1560-1575 — Cuttings: few grains show any rounding - very many are fresh, glassy on fracture. Rough-edged.

Quartz, clear and stained	40%
Quartz and quartzite, gray	60%

? ransition, alluvium to hard-rock apparently occurs around 1560 feet.

1605-1624 — Cuttings.
Almost entirely clear quartz or gray quartz and quartzite. Minor amounts of green schist (chlorite ?), jasper, white tuff, muscovite schist.

1622 - ? — "Marked <u>special</u>"

Cuttings:

Clear quartz	50%
Gray quartz	15%
Gray quartzite	15%
Balance	20%

Light gray tuff (?) limonite specks, green schist, white schist, quartz with magnetite grains, brown quartz.

1635-1645 — Cuttings ?
Quartz sand (?), clear, stained, and gray. Grains medium to large - angular to sub-angular - a very few well rounded. Minor amounts of muscovite, jasper, schist, green and black mafics.

Larger grains and small pebbles include light gray schist, dark gray quartzite, clear quartzite (?), biotite aggregate.

Possibility of drilling in bed of sandstone.

Ut permit 69443

1675-1690 feet — Quartz, gray 60%
Quartz, clear, occasionally stained 25%
Schist, gray, muscovite, very fine-grained 10%
Schist, green, fine-grained 5%

Fragments angular, apparently cuttings.

1685-1690 — Cuttings:
Clear quartz 75%
Quartz and quartzite, gray 20%
Balance 5%
Green schist, white tuff, muscovite, feldspar, brown quartz.

1700-1705 — Cuttings:
Clear or white quartzite 30%
Gray quartzite 60%
Balance: Green (chlorite?), schist, red and brown quartz, amethystine quartz, fine-grained white sandstone calcareous.

1710-1715 — Quartz, white, clear, stained 6%
Quartz, gray 10%
Quartzite, light and dark gray 14%
Tuff, gray fine-grained calcareous cement 1%
Schist, muscovite, light or dark gray 10%

Some grains partially rounded - could be alluvial in origin; probably all cuttings, however.

1725-1730 — Schist, light gray 1%
Schist, green 1
Feldspar (?) decomposed, and miscellaneous 1
Quartz, medium gray 25
Quartz, clear and stained 72

Many grains show rounding - may be alluvium.

1735-1740 — Quartz, gray 40%
Quartz, clear, some stained 50
Quartzite, gray 5
Schist (?) white and green 5

Some grains rounded - most appear to be cuttings. Minor amounts of calcareous sandy material probably introduced.

1765-1770 — Quartzite, gray 50%
Quartz, white or iron stained 19
Occasional grains of feldspar, schist (?) red quartz 1

Grains angular - apparently all cuttings - no recognizable sand.

1780-1785 — Quartzite, medium gray 50%
Tuff, light gray, fine dark grains, abundant calcareous cement, fragments usually rounded (friable ?) 30%
Quartz, clear or gray 20%
Could be alluvial - probably cuttings.

OP 4/4/43
Hoopermark

1800-1805 feet	Schist, light gray	20%
	Quartz, medium gray	60
	Quartz, clear and stained	20%
1825-1830	Schist, light gray	10%
	Schist, green	5%
	Quartzite, medium to dark gray	25%
	Quartz, clear or stained	50
	Quartz, gray	10

Fragments almost all angular - probably cuttings.

1865-1870	Gray quartz	50%
	White quartz	10
	Schist, light gray - mostly feldspar alternating with layers of a black pyribole	20%
	Schist, brownish gray, considerable muscovite	20%
	Quartzite, gray	20%

Angular fragments; apparently all cuttings. No sand grains recognized.

1870-1875	Quartzite, gray	25%
	Schist, light gray muscovite	20%
	Quartzite, red	1%
	Schist, medium gray	25
	Schist, green	5
	Quartz, gray or clear	24

All cuttings.

OP 4-4143:
~~Unpermeable~~

2

OLSEN OIL COMPANY - STATE #1
Section 2, Township 3 North, Range 4 East
Maricopa County, Arizona
Samples 0-4115; T. D. 4159'.

115-220 Samples very poor. Appears to be conglomerate of quartz; dark red-brown volcanic fragments; SS fragments, very calcareous; and dark green metamorphic fragments. Cemented by caliche-type calcium carbonate.

260-360 Samples very poor. About as above with fragments red-brown clay, hard, with calcite veins.

400-495 Samples very poor. About as above, with increase in SS fragments, very dense, hard, tight, dark grey, calcareous, slightly quartzitic.

527-622 Samples very poor. Fragments chiefly SS, dark red-grey to red-brown, quartzitic, partly calcareous, very hard, dense, tight with few fragments as above.

640-732 Samples poor; SS, 0.2mm - 0.6mm (avge 0.5mm), dirty red-grey to dark red-brown, calcareous, very tight, hard, dense, brittle.

776-900 SS as above, with traces dark green crystalline schist.

915-920 SS, 0.1mm - 0.5mm (avge 0.2mm), light brown, biotite, very tight, calcareous, slightly friable, dense.

920-940 SS, 0.2mm - 0.8mm (avge 0.5mm), dirty red-grey to dark red-brown; calcareous, partly quartzitic, very tight, hard, dense.

945-960 SS, 0.1mm - 0.5mm (avge 0.2mm), light brown, biotite, very tight, calcareous, slightly friable, fairly dense.

960-1002 Samples very poor, SS, 0.2mm - 0.8mm (avge 0.6mm), dirty brown-grey to red-grey, quartzitic, very tight, hard; grains of quartz, red chert, dark green metamorphic fragments, and mica.

1005-1065 Quartzitic SS, 0.5mm - 5mm (avge 3mm), very poorly sorted, very hard, tight, with traces dark green metamorphic rock fragments and red chert.

1075-1125 Quartzitic SS, as above, with stringers of Arkose, 0.6mm - 5mm (avge 2mm), light brown, quartz and feldspar subround, dirty, biotite, slightly calcareous, loose.

1125-1167 Quartzitic SS, 0.4mm - 2mm, (avge 1mm), very hard, dirty, red-grey to brown-grey, very tight brittle, with traces dark green metamorphic fragments.

1170-1205 Arkose, 1mm - 7mm (avge 4mm), light brown to dirty grey-brown, rounded grains, loose, no visible cement.

op 44143-
Fragment

3

1230-1290 Arkose, as above with scattered fragments dark-grey to black metamorphic rocks.

1310-1360 Arkose, as above.

1810-1825 Arkose, as above but finer, 0.5mm - 2mm, (avge 1mm), poorly sorted and conglomeratic.

1485-1500 Arkose, as above, 0.5mm - 3mm (avge 1.5mm), with fragments dark green and black metamorphic rock fragments; conglomeratic.

1515-1590 Arkose, as above, with increase in fragments of metamorphics, conglomeratic.

1600-1665 Arkose, as above.

1670-1720 Arkose, as above, but with less feldspar, (about 25%).

1730-1740 Arkose, as above, but finer, 0.5mm - 3mm (avge 1mm).

1740-1770 Arkosic SS, 1mm - 6mm (avge 3mm), conglomeratic, angular, quartz dark smoky-grey, feldspar about 15%, scattered fragments of metamorphics.

1780-1900 Arkosic SS, conglomeratic, as above.

1902-1970 Arkosic SS, 1mm - 5mm (avge 3mm), light-brown to grey, conglomeratic, and as above.

1980-2000 Arkosic SS, 0.5mm - 2mm (avge 0.6mm), very hard, tight, quartzitic, dense, brown to grey, biotite, magnetite, all angular.

2000-2020 Arkosic SS, 1mm - 5mm (avge 3mm), and as above.

2030-2070 Arkosic SS, 0.5mm - 3mm (avge 2mm), quartz clear to smoky gray and angular; feldspars white and fresh; biotite, metamorphic fragments; loose, no visible cement; spotty yellow-brown iron oxide stain.

2080-2120 Arkosic SS, 1mm - 6mm (avge 4mm), partly quartzitic, dark grey to brown, and as above.

2130-2220 Arkosic SS, as above.

2230-2270 Arkose as above, with scattered grains violet quartz; some fragments quartzitic SS, very hard, dense, tight, vitreous.

2280-2320 Arkosic SS, as above, with increase of violet quartz and quartzitic SS.

2330-2373 Arkosic SS, as above, with very little violet quartz or quartzitic SS.

cj-4 4143

GLENN OIL COMPANY - State #1

2380-2520 Arkosic SS, as above, with scattered fragments dark green and black metamorphics.

2430-2530 Arkosic SS, as above.

2590-2690 SS, 0.5mm - 5mm, very poorly sorted, abundant fragments, schist, gneiss and quartzite, all angular, varicolored, loose.

2700-2800 SS, as above, with thin beds bentonitic shale at 2730' and 2780', grey-green, soft, with black specks and orange-brown, spotty iron oxide stain.

2810-2850 SS, as above, but finer, 0.8mm - 3mm (avge 1.2mm)

2850-3070 SS, 0.8mm - 5mm (avge 2mm), conglomeratic, and as above.

3095-3125 SS, as above.

3125-3630 Conglomerate, fragments of green schist, quartz, grey gneiss and black, fine-grained volcanics. Very poorly sorted, 0.2mm-9mm (avge 4mm) angular to subangular; loose, no visible cement.

3640-3670 Schist, micaceous, chloritic, green, soft, very fine-grained, well laminated, pyritic.

3680-3720 Schist, as above, with stringers green, brown, and dark grey volcanic flows.

3730-3890 Schist, as above.

3910-3920 Schist, dark red-brown, very slightly calcareous stringers, blocky to platy, very dense, brittle, very fine-grained, almost homogeneous. Disintegrates to fine, red-brown powder in HCl.

3960-4010 Schist, dark red-brown as above, and schist, black, noncalcareous, brittle, hard, very dense.

4020-4065 Schist, dark red-brown and green, very micaceous, soft, well-laminated, soft, dense.

4075-4115 Samples poor; schist dark red-brown as above.

OP 4-4143

FORMATION REPORT

GLENN OIL COMPANY

STATE NO. 1

PHOENIX, ARIZONA

0 - 190	Clay and Colechia
190 - 210	Sand and gravel
210 - 970	Sandy clay with thin streaks of sand
970 -1020	Gravel and boulders
1020 -1600	Sand and gravel
1600 -3150	Hard cemented sand with occasional hard shells, some quartz and other ore bearing formation.
3150 -4159	Hard conglomerate shale with schist.

op 44/43
~~Application~~

19

WELL LOG — GLENN OIL COMPANY, INC. STATE NO. 1
Section 2, Township 3N, Range 4E
Paradise Valley, Maricopa County, Ariz.

12" casing to 218'

From Top to 218	Cased and cemented valley fill
218 - 1016	clay and sand
1016 - 1057	coarse sand and clay
1057 - 1153	sand with gray lime and clay
1153 - 1240	sand with gray lime and clay
1240 - 1265	fine brown sand
1265 - 1285	brown sand, streaks of clay
1285 - 1330	coarse sand, streaks of clay
1330 - 1446	gray lime and hard boulders
1446 - 1483	sand and clay, with little gray lime
1483 - 1547	fine gray sand
1547 - 1565	coarse sand with quartz shells
1565 - 1606	hard sand and rock
1606 - 1620	lime and rock
1620 - 1666	hard cemented sand and rock
1666 - 1686	Dolomite
1686 - 1696	Showings of gray shale and hard rock
1696 - 1705	hard rock conglomerated
1705 - 1717	Dolomite; gray lime
1717 - 1733	gray lime and cemented sand
1733 - 1737	Dolomite, little lime
1737 - 1778	conglomerate
1778 - 1790	conglomerate and streaks of white lime
1790 - 1794	conglomerate
1794 - 1796	lime salt and than shale
1796 - 1797	conglomerate
1797 - 1798	conglomerate; showing of gray lime
1798 - 1803	conglomerate; broken streaks of lime
1803 - 1812	conglomerate, shells
1812 - 1823	conglomerate, streaks lime and shale
1823 - 1825	little sand and little gas showing in mud
1825 - 1872	conglomerate, hard shells and lime
1872 - 1875	conglomerate, little lime and shale
1875 - 1921	conglomerate, hard shells
1921 - 1933	conglomerate, lime, some shale
1933 - 1952	hard conglomerate with some lime
1952 - 1963	one foot of chert; conglomerate, shells, lime
1963 - 1984	conglomerate, white lime, shells
1984 - 2030	conglomerate, lime, shells
2030 - 2055	conglomerate, lime, some shale, shells
2055 - 2077	conglomerate, lime and hard shells
2077 - 2140	conglomerate, lime, sand, hard shells
2140 - 2211½	conglomerate, lime sand, shells
2211½ - 2212	six inches chert, some lime
2212 - 2213	chert, samples show some very hard red rock & quarts
2213 - 2214	conglomerate
2214 - 2218	conglomerate sand with flakes of black oily shale. This sample shows specks of oil under black lamp.
2218 - 2247	Conglomerate, shells, sand streaks
2247 - 2250	Lime and sand
2250 - 2257	conglomerate
2257 - 2348	conglomerate, quarts, shells, lime
2348 - 2357	red bed
2357 - 2372	conglomerate, lime, hard shells
2372 - 2385	conglomerate, some red clay
2385 - 2447	conglomerate, shells, shale, lime, quarts
2447 - 2452	conglomerate with little show of red shale, shells
2452 - 2502	conglomerate, hard shells, lime, quarts
2502 - 2690	conglomerate, shells, lime
2690 - 2705	conglomerate, shells, lime, red bed
2705 - 2729	conglomerate, shells, lime

WELL LOG--GLENN OIL COMPANY, INC. STATE NO. 1 (cont'd)

2729 - 2763	conglomerate, lime, hard shells, streaks of red shale
2763 - 2766	conglomerate, lime, shells, benite
2766 - 2806	conglomerate, hard shell, bentnite lime
2806 - 2876	conglomerate, sand shells
2876 - 2899	conglomerate, lime, sand and shale
2899 - 2925	conglomerate, sand, red bed, lime
2925 - 2931	conglomerate, hard sand
2931 - 2955	conglomerate, sand, lime, aconosal, thin streak of red bed
2955 - 2957	conglomerate, hard shell
2957 - 2962	lime, sand, streaks of red bed
2962 - 3006	conglomerate, hard shells
3006 - 3008	conglomerate, lime, sand, shale and shells
3008 - 3031	red shale, conglomerate, sand, lime
3031 - 3180	conglomerate, sand, shale, lime
3180 - 3204	shale
3204 - 3206	shale, shells
3206 - 3253	black shale, sand, shells
3253 - 3283	shale, sand, lime, streaks of red bed
3283 - 3351	green shale, streaks of benite, lime
3351 - 3394	hard green shale
3394 - 3399	hard green shale, shells
3399 - 3407	green shale, lime
3407 - 3410	gray shale
3410 - 3428	black shale
3428 - 3480	record burned with rig
3480 - 3623	black shale
3623 - 3518	sticky shale
3518 - 3537	shale, lime
3537 - 3554	shale
3554 - 3623	shale, sandy
3623 - 3655	sticky shale
3655 - 3665	hard shale
3665 - 3686	sticky shale
3686 - 3700	sticky shale, lime
3700 - 3713	shale, lime, shells
3713 - 3751	shale, lime
3751 - 3764	shale, shells, bentnite, little lime
3764 - 3821	shale, lime
3821 - 3822	lime
3822 - 3824	shale, hard shells
3824 - 3828	hard shell
3828 - 3829	shale, chert
3829 - 3831	chert, lime
3831 - 3833	chert, shale, lime
3833 - 3837	chert, shale, lime
3837 - 3840	hard lime, shale
3840 - 3853	hard lime
3853 - 3854	hard lime
3854 - 3856	showing of sand
3856 - 3878	hard lime
3878 - 3880	lime and shale
3880 - 3884	red bed
3884 - 3889	lime and shale
3889 - 3903	red bed, shale, lime
3903 -3908	shale, lime
3908 - 3920	hard lime, shale, red bed
3920 - 3932	shale, shells
3932 - 3934	hard lime
3934 - 3946	black lime
3946 - 3955	red bed and lime
3955 - 3968	lime, shale, red rock
3968 - 3979	lime, red bed
3979 - 4028	lime, shale
4028 - 4033	broken lime
4033 - 4083	hard lime
4083 - 4089	black lime
4089 - 4101	lime, shale, bentnite
4101 - 4110	lime, shale
4110 - 4118	black lime
4118 - 4159	shale, lime

23

WELL LOG GLENN OIL COMPANY, INC. STATE No. 1
Section 2, Township 3N, Range 4E
Paradise Valley, Maricopa County, Ariz.

12" Casing to 218'

From Top to 218	Cased and cemented valley fill
218 - 1016	Clay and sand
1016 - 1057	Coarse sand and clay
1057 - 1153	Sand with gray lime and clay
1153 - 1240	Sand with gray lime and clay
1240 - 1265	Fine brown sand
1265 - 1285	Brown sand, streaks of clay
1285 - 1330	Coarse sand, streaks of clay
1330 - 1446	Gray lime and herd boulders
1446 - 1483	Sand and clay, with little gray lime
1483 - 1547	Fine gray sand
1547 - 1565	Coarse sand with quartz shells
1565 - 1606	Hard sand and rock
1606 - 1620	Lime and rock
1620 - 1666	Hard cemented sand and rock
1622 - 1670	Sample fill, sample qtzite (?)
1666 - 1686	Dolemite
1686 - 1696	Showings of gray shale and hard rock
1696 - 1705	Hard rock conglomerated
1705 - 1717	Dolemite; gray lime
1717 - 1733	Gray lime and cemented sand
1733 - 1737	Dolemite, little lime
1737 - 1778	Conglomerate
1778 - 1790	Conglomerate and streaks of white lime
1790 - 1794	Conglomerate
1794 - 1796	Lime salt and then shale
1796 - 1797	Conglomerate
1797 - 1798	Conglomerate; showing of gray lime
1798 - 1803	Conglomerate; broken streaks of lime
1803 - 1812	Conglomerate, shells
1812 - 1823	Conglomerate, streaks of lime and shale
1823 - 1825	Little sand and little gas showing in mud
1825 - 1872	Conglomerate, hard shells and lime
1872 - 1875	Conglomerate, little lime and shale
1875 - 1921	Conglomerate, hard shells
1921 - 1933	Conglomerate, lime, some shale
1933 - 1952	Hard conglomerate with some lime
1952 - 1963	One foot of chert; conglomerate, shells, lime
1963 - 1984	Conglomerate, white lime, shells
1984 - 2030	Conglomerate, lime, shells
2030 - 2055	Conglomerate, lime, some shale, shells
2055 - 2077	Conglomerate, lime and hard shells
2077 - 2140	Conglomerate, lime, sand, hard shells
2140 - 2211½	Conglomerate, lime sand, shells
2211½- 2212	Six inches chert, some lime
2212 - 2213	Chert, samples show some very hard red rock & quartz
2213 - 2214	Conglomerate
2214 - 2218	Conglomerate sand with flakes of black oily shale. This sample shows specks of oil under black lamp.
2218 - 2247	Conglomerate, shells, sand streaks
2247 - 2250	Lime and sand
2250 - 2257	Conglomerate
2257 - 2348	Conglomerate, quartz, shells, lime
2348 - 2357	Red bed
2357 - 2372	Conglomerate, lime, hard shells
2372 - 2385	Conglomerate, some red clay
2385 - 2447	Conglomerate, shells, shale, lime, quartz
2447 - 2452	Conglomerate, with little show of red shale, shells
2452 - 2502	Conglomerate, hard shells, lime, quartz
2502 - 2690	Conglomerate, shells, lime
2690 - 2705	Conglomerate, shells, lime, red bed
2705 - 2729	Conglomerate, shells, lime
2729 - 2763	Conglomerate, lime, hard shells, streaks of red shale
2763 - 2766	Conglomerate, lime, shells, benite
2766 - 2806	Conglomerate, hard shell, bentnite lime
2806 - 2876	Conglomerate, sand shells
2876 - 2899	Conglomerate, lime, sand and shale
2899 - 2925	Conglomerate, sand, red bed, lime
2925 - 2931	Conglomerate, hard sand
2931 - 2955	Conglomerate, sand, lime, accnosal, thin streak of red bed

cp 4 4143

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WELL LOG - - GLENN C. COMPANY, INC. STATE NO. 1 (Continued)

2955 - 2957	Conglomerate, hard shell
2957 - 2962	Lime, sand, streaks of red bed
2962 - 3006	Conglomerate, hard shells
3006 - 3008	Conglomerate, lime, sand, shale and shells
3008 - 3031	Red shale, conglomerate, sand, lime
3031 - 3180	Conglomerate, sand, shale, lime
3180 - 3204	Shale
3204 - 3206	Shale, shells
3206 - 3253	Black Shale, sand, shells
3253 - 3283	Shale, sand, lime, streaks of red bed
3283 - 3351	Green shale, streaks of benite, lime
3351 - 3394	Hard green shale
3394 - 3399	Hard green shale, shells
3399 - 3407	Green shale, lime
3407 - 3410	Gray shale
3410 - 3428	Black shale
3428 - 3480	Record burned with rig
3480 - 3623	Black shale
3623 - 3518	Sticky shale
3518 - 3537	Shale, lime
3537 - 3554	Shale
3554 - 3623	Shale, sandy
3623 - 3655	Sticky shale
3655 - 3665	Hard shale
3665 - 3686	Sticky shale
3686 - 3700	Sticky shale, lime
3700 - 3713	Shale, lime, shells
3713 - 3751	Shale, lime
3751 - 3764	Shale, shells, bentnite, little lime
3764 - 3821	Shale, lime
3821 - 3822	Lime
3822 - 3824	Shale, hard shells
3824 - 3828	Hard shell
3828 - 3829	Shale, chert
3829 - 3831	Chert, lime
3831 - 3833	Chert, shale, lime
3833 - 3837	Chert, shale, lime
3837 - 3840	Hard lime, shale
3840 - 3853	Hard lime
3853 - 3854	Hard Lime
3854 - 3856	Showing of sand
3856 - 3878	Hard lime
3878 - 3880	Lime and shale
3880 - 3884	Red bed
3884 - 3889	Lime and shale
3889 - 3903	Red bed, shale, lime
3903 - 3908	Shale, lime
3908 - 3920	Hard lime, shale, red bed
3920 - 3932	Shale, shells
3932 - 3934	Hard lime
3934 - 3946	Black lime
3946 - 3955	Red bed and lime
3955 - 3968	Lime, shale, red rock
3968 - 3979	Lime, red bed
3979 - 4028	Lime, shale
4028 - 4033	Broken lime
4033 - 4083	Hard lime
4083 - 4089	Black lime
4089 - 4101	Lime, shale, bentnite
4101 - 4110	Lime, shale
4110 - 4118	Black lime
4118 - 4159	Shale, lime

Logged. 9-10-48 T.D. 3876 Driv. 3875 E.L.

OP 44143
Not permitted

25

FORM O. & G. 1
18

ARIZONA STATE LAND DEPARTMENT

OP 44143

Sundry Notices and Reports on Wells

Lease or Permit No. OP 44143

Notice of intention to drill	X
Notice of intention to change plans	
Notice of date for test of water shut-off	
Report on result of test of water shut-off	
Notice of intention to re-drill or repair well	
Notice of intention to shoot	
Subsequent record of shooting	
Record of perforating casing	
Notice of intention to pull or otherwise alter casing	
Notice of intention to abandon well	
Subsequent report of abandonment	
Supplementary well history	

(Indicate above by check mark nature of report, notice or other data)

February 16 1948 19

Following is a (Notice of intention to do work) on land under (permit) described as follows:
(~~Report of work done~~) (~~lease~~)

Well No. State #1 Sec. 2 3 N. 4 E.
Section Township Range

The well is located 350 feet (N) (S) of North line and 2112 feet (E) (W) of West line of

Section Section 2, T 3 N, R 4 E.

The elevation of the derrick floor above sea level is 1644 feet

DETAILS OF PLAN OF WORK

(State names of an expected depth to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other proposed work.)

1st. Sand - 1800 ft, 2nd sand, 2250 ft. Third sand, 3350-3500 ft.

Water string of 10" or 12" to 1650 and cement off (If neceessary)

Oil string to hard formation below oil sand and cement off.

Approved 2-17-48
Date

O. C. Williams
Arizona State Land Department

Address

Company GLENN OIL COMPANY INC.

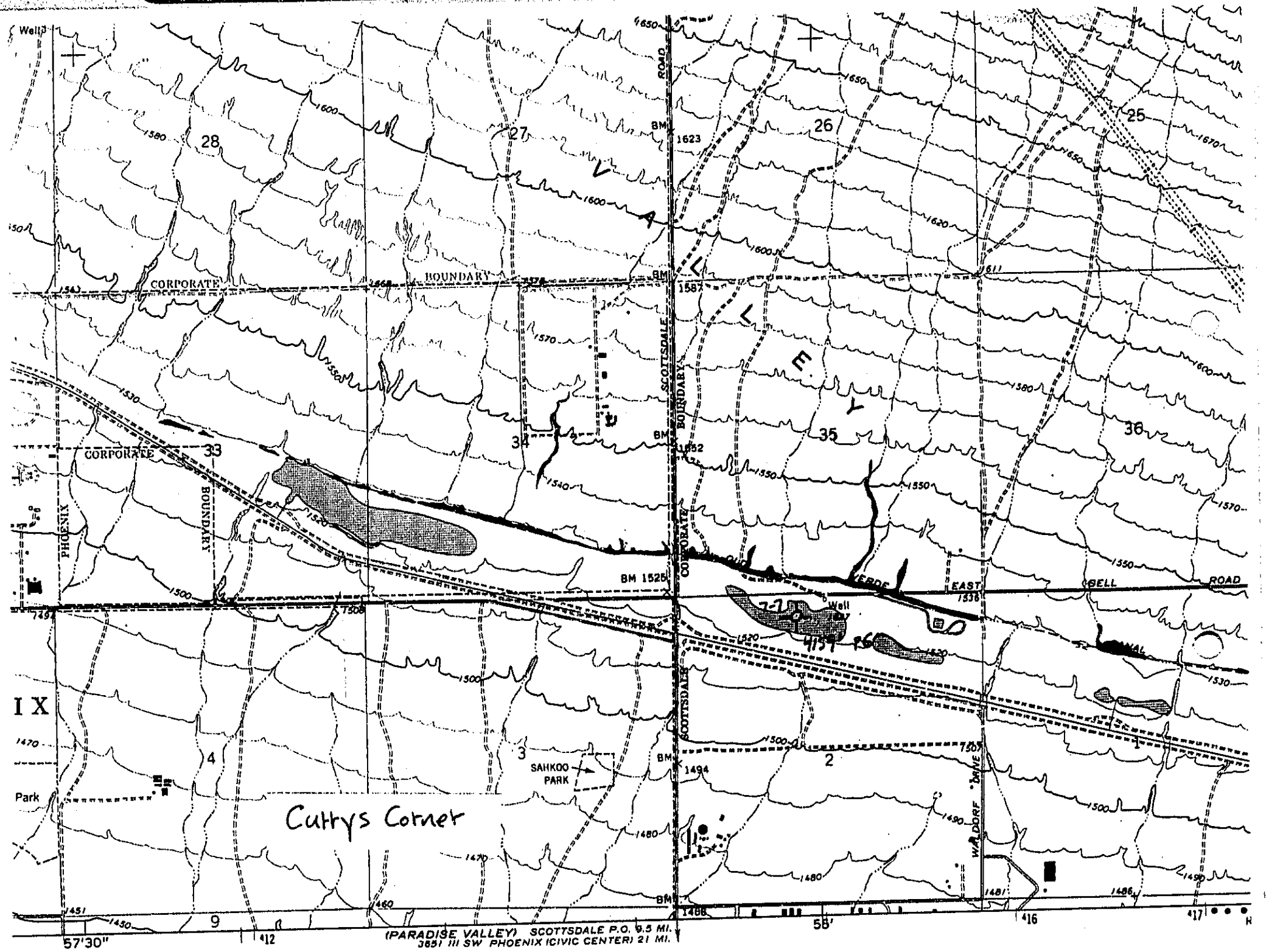
By Emil Lehmann

President
Title

Address 2250 E. Washington, Phoenix

NOTE:—Reports on this form to be submitted in triplicate to the Commissioner for approval.

OP 4-4/48
No permit



Well
28
27
26
25
V A L L E Y
CORPORATE
BOUNDARY
SCOTTSDALE
ROAD
BM 1623
BM 1587
BM 1552
BM 1525
33
34
35
36
PHOENIX
BOUNDARY
CORPORATE
EAST
BELL
ROAD
Well
IX
4
3
2
1
SAHKOO PARK
Park
Currys Corner
WALDORF DRIVE
9
57'30"
58'
(PARADISE VALLEY) SCOTTSDALE P.O. 9.5 MI.
3651 III SW PHOENIX (CIVIC CENTER) 21 MI.

State of Arizona
Arizona Geological Survey
416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500

Fife Symington
Governor

Larry D. Fellows
Director and State Geologist

January 22, 1996

7-7

Memo: Nick Priznar, ADOT
From: SR Steve Rauzi, AZGS
Re: Information on oil test holes in 3 & 4 North, 4 East

The information on the referenced wells that we talked about this morning is enclosed. This includes sample description, drillers log, Baroid mud log, and Amstrat sample log for the Paul Biery 1 State hole in sw sw sw 8, T. 4 N., R. 4 E.; sample description for the Campbell Pierce hole in nw sw 13, T. 4 N., R. 4 E.; and drillers log & Lane Electrolog for the Glenn Oil 1 State hole in ne nw 2, T. 3 N., R. 4 E. Please note the copyright on the Amstrat log.

There isn't much information in the Glenn Oil 2 State file, just monthly reports. The March 1949 report notes fine sand and gravel at 1,600', the April report notes sand and gravel at 2,430', and the remaining reports just note the depth of the hole at the end of the month.

I've also enclosed a copy of Chuck Aston's 1949 general geologic report on this area.

INCORPORATED UNDER THE LAWS OF THE STATE OF ARIZONA

No. 956

Shares 20

GLENN OIL COMPANY INC.

CAPITAL STOCK $1,000,000.00

THIS CERTIFIES THAT GRANVILLE R. SHIELDS is the owner of

TWENTY Shares of the Capital Stock of

Glenn Oil Company Inc., fully paid and non assessable,

transferable only on the books of the Corporation by the holder hereof in person or by Attorney, upon surrender of this Certificate properly endorsed.

In Witness Whereof, the said Corporation has caused this Certificate to be signed by its duly authorized officers and to be sealed with the Seal of the Corporation

this 15th day of May A.D. 1945

Secretary

President

SHARES $1. EACH

© GOES 53

For Value Received hereby sell, assign and transfer
unto

Shares of the Capital Stock represented by the within
Certificate, and do hereby irrevocably constitute and appoint

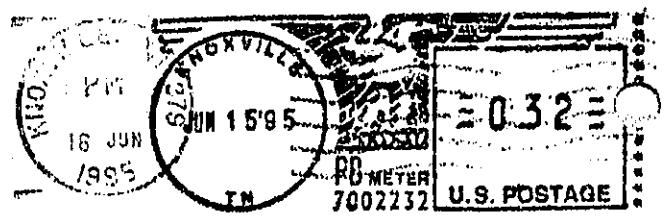
to transfer the said Stock on the books of the within named
Corporation with full power of substitution in the premises.

Dated 19

In presence of

NOTICE. THE SIGNATURE OF THIS ASSIGNMENT MUST CORRESPOND WITH THE NAME AS WRITTEN UPON THE FACE OF THE CERTIFICATE, IN EVERY PARTICULAR WITHOUT ALTERATION OR ENLARGEMENT OR ANY CHANGE WHATEVER

WILLIS CORROON
Willis Corroon Corporation of Knoxville
P.O. Box 19820
Knoxville, TN 37939-2820



STEVE.

HOPE YOU FIND THIS INTERESTING.

TOM STOBKI

STEVE RAUZI
845 NORTH PARK AVE
SUITE 100
TUCSON, AZ 85719

State of Arizona
Arizona Geological Survey
845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795

Fife Symington
Governor

Larry D. Fellows
Director and State Geologist

June 5, 1995

file 7-7

Mr. Tony Stubbs
10831 Carmichael Road
Knoxville, Tennessee 37932

Dear Mr. Stubbs:

I've enclosed some of the material in the Glenn Oil Company file that we talked about this afternoon. This includes a write-up about the well in the March 18, 1949, issue of *The Arizona Press*; a geological report on the prospect; and well log.

I really doubt that Glenn Oil Company exists. Its future, I'm sure, depended on the results of this particular well. The story would have been much different, however, if this well had struck oil.

As I indicated on the phone, I would very much appreciate receiving any old "Glenn Oil Company" stock shares that you would be kind enough to send. Again, my thanks in advance.

Please don't hesitate to contact me if I may be of further assistance to you.

Sincerely,

Steven L. Rauzi
Oil and Gas Program Administrator

Enclosures

Mobil Oil Corporation

THREE GREENWAY PLAZA EAST - SUITE 800
HOUSTON, TEXAS 77046

May 15, 1973

Mr. H. Wesley Peirce, Geologist
Arizona Bureau of Mines
The University of Arizona
Tucson, Arizona 85721

Dear Mr. Peirce:

We are returning by Continental Trailways the samples from the Biery #1 State well, Maricopa County. My appreciation for the loan of these samples. In accordance with your policy we have not removed nor destroyed by testing any of the material.

In the course of examination of these samples we uncovered a bit of data which may be of interest. Between 4420 feet to 4580 feet an assembledge of ostracods was observed. Although we were not able to identify any of the species, it was generally agreed that these individuals are probably fresh water or lacustine forms.

We have received, in good order, the samples from the Glenn #1 State well. We shall complete our examination of this material shortly.

Jim Scurlock mentioned that you might have a salt specimen available for geochemical analysis. In selecting this sample, please bear in mind that your selection should be of expendable material since our processing methods will not result in any recoverable residue.

Very truly yours,

Gary L. Spraul

Gary L. Spraul

GLS:jt

TELEPHONE 4-9235

GLENN OIL COMPANY INC.

2250 East Washington Street

PHOENIX, ARIZONA

E. W. DUHAME, PRESIDENT
~~G. E. DUNBAR, VICE-PRESIDENT~~
G. E. DUNBAR, SEC'Y-TREAS.
P. H. BIERY, DIRECTOR
~~A. B. CHRIST, DIRECTOR~~

July 1, 1949

RECEIVED
STATE LAND DEPT.
OF ARIZONA

Mr. O. C. Williams
State Land Department
Capitol B Annex
Phoenix, Arizona

Dear Sir:

As per our telephone conversation of this date, I am enclosing herewith a copy of the geological report by Mr. Chuck Aston, consulting petroleum geologist.

Yours truly,

GLENN OIL COMPANY, INC.

By E. W. Duhame
E. W. Duhame

EWD:nb

Please advise if we can proceed with the permit

A General Geologic Report Pertaining to Oil & Gas Possibilities-

Paradise Valley, Maricopa County, Arizona

On May 18, 19, 28 and 29, 1949, the writer made a geologic reconnaissance survey of the above valley and the extension of the same extending approximately to Florence, Arizona, from the ground and from the air.

The Paradise Valley proper consists in the main of gently undulating desert with a surface characterized by silty granite wash and typical desert verdure, with an average width, from Northeast to Southwest, of approximately ten miles and a length, from Northwest to Southeast, in excess of seventy miles.

The surrounding mountains and mountain ranges consist almost wholly of rocks of volcanic origin, mainly schist and granite, with no informative sedimentary outcrops. From the latest published Paleogologic and Paleotectonic maps of this and related areas, it is definitely known that tremendous thicknesses of sediments were deposited at varying times in geologic history and it is only logical to presume from this and information gleaned from wells drilled to sufficient depths in this area to penetrate the sediments below the valley fill; e.g. Glenn Oil Co. State #1 Section 2, Twp. 3N, Range 4 East; that at least a portion of these sediments still remain in this valley. These sediments, examined in cores taken from the above mentioned well, are massive metamorphosed dolomiti c

S/C Comment

limestones with interlaminated granite wash breaks of thicknesses of a few feet to as much as fifty feet which would afford excellent reservoirs for accumulation of crude petroleum and/or gas.

As is usual in these Rocky Mountain type valleys, there seems to be a measurable arching of the sediments in the valley as evidenced by a definite topographic arching from near the base of the surrounding mountains to a point approximating a Northwest-Southeast line with a crest about on the location of the Glenn Oil Co. State #2 drilling well in Section 8, Twp. 4 N, Range 4 E. These topographic arches have been proved to be a definite indication of the attitude of subsurface sedimentary beds by geophysical prospecting in similar valleys in Arizona.

From the consistency and frequency of oil and/or gas shows encountered in numerous water wells effectively surrounding the Paradise Valley and oil and/or gas shows found in the few wildcat wells drilled to date in the valley, it is evident that oil and/or gas in commercial quantities may very possibly be encountered somewhere in the true sediments below the valley fill.

It is the writer's considered opinion that from the above evidence the Paradise Valley, and particularly the Glenn Oil Co. State #2 have excellent possibilities of commercial accumulation of crude oil and/or gas at reasonable depths.

Respectfully submitted May 30, 1949

CHUCK ASTON
Consulting Petroleum Geologist

1/ Specimen
CA:da

February 17, 1948

Glenn Oil Company Inc.
Mr. E. W. Johnson, President
2250 E. Washington
Phoenix, Arizona

Dear Mr. Johnson:

We are returning to you, herewith, two copies of report entitled "Sundry Notices and Reports on Wells" which have been approved by the Commissioner.

With good wishes for your success, I remain

Sincerely yours,

O. C. Williams
State Land Commissioner.

bg

OP44143
~~No permit~~

Phone
3-0535

The Arizona Press

THIS ISSUE
10,000
READERS

VOLUME TEN | PHOENIX, ARIZONA, FRIDAY, MARCH 18, 1949. | Number 40

Drilling For Oil In Paradise Valley

INDICATIONS PROMISING AT NEW WELL SITE

By CHARLES ANDERSON.

There is plenty of activity in Arizona at the moment regarding oil exploration, with optomistic assurance that the black-gold will be found in this state during 1949. The Glenn Oil Company are now drilling No. 2 well and are making steady progress in their new location 5 miles northwest of No. 1 derrick in Paradise Valley. Latest reports are, that they have reached a depth of 900 feet.

Careful analysis and study was made regarding the choice for the location of well No. 2, and it is a well-known fact that the area chosen by Glenn Oil Co. for it's oil exploration is considered by prominent geologists and engineers to be one of the most promising fields in Arizona. Mr. R. De Chicchis, well-known petroleum engineer from Texas who has been over the Glenn Oil Co's. leases in Paradise Valley has definitely acclaimed that in this area there are excellent possibilities for commercial oil in great quantity. The indications have what he considers better geological showings for oil than in any part of the state.

Mr. E. W. Duhame who heads the Glenn Oil Company is surrounded by a staff of capable directors whose sole purpose and desire is to find oil. They have been authorized to dispose of a limited number of shares of stock in their organization and all of the directors stress the fact that all monies go into exploration and not into the pockets of any selfish individual. They all realize what a boon an oil strike will be to Arizona giving wealth to the state and attracting industry and capital.

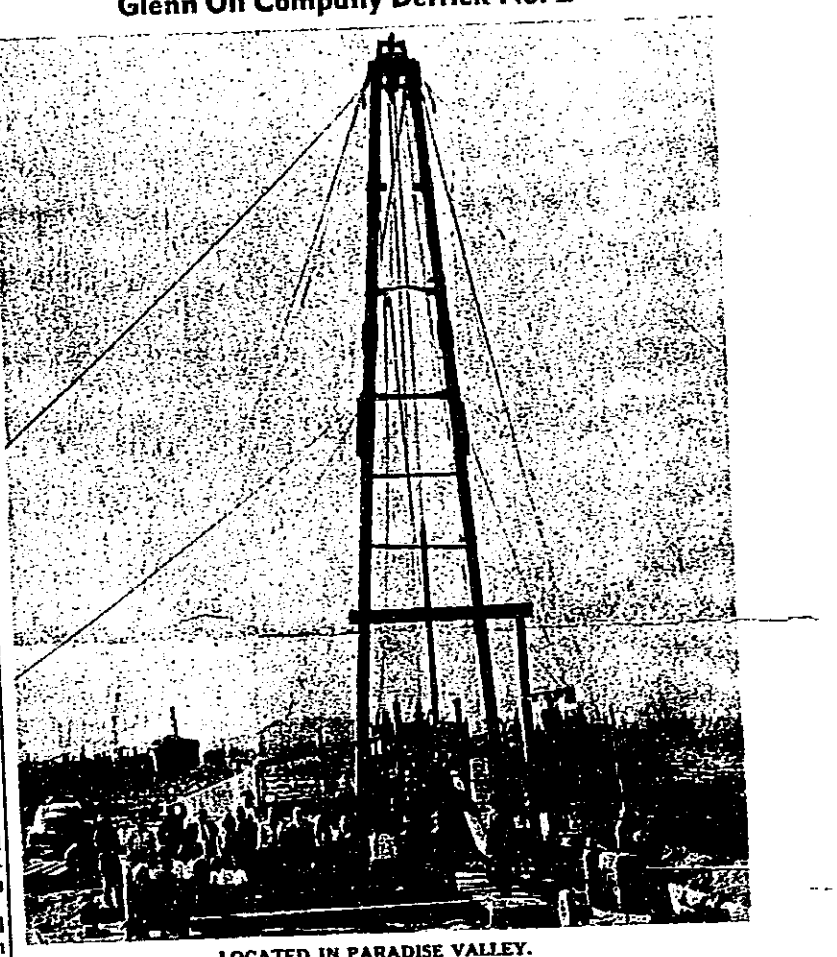
The country is more oil conscious than ever before. New fields are being discovered throughout the west, and with an oil strike in Paradise Valley, this could make Phoenix one of the oil centers of the world. Oil is definitely the back-bone of industry and the demand for the black-gold will always be great, and is definitely the key to United States leadership.

Fortunes have been made in oil, and fortunes will continue to be made in oil. Here in Arizona and in Paradise Valley speculative investment in oil could do what has been done in states like California, Texas and Oklahoma, where fortunes have been made overnight.

Glenn Oil Company have excellent prospects for finding oil in their choice locations in Paradse Valley. With capable men at the guiding wheel headed by E. W. Duhame, the best of effort and skill is being put into their exploration activities. Careful geophysics have been applied to location of well No. 2. and with an expert crew at the helm of the derrick, Glenn Oil Company will put forth their best of skill to bring in a producer.

The directors of Glenn Oil stress the fact that no one is receiving a salary or expense account, or financially benefited in any way other than those employees who are working and drilling on the derrick floor, and of course salesmen who are not directors who will receive commissions which are authorized by the Corporation Commission.

Glenn Oil Company Derrick No. 2



LOCATED IN PARADISE VALLEY.

Much has been written about the humble beginnings of Abraham Lincoln, but while George Washington was not born in a log cabin, his first home was a modest one. Acording to CHILDCRAFT books, America's first president came into this world in alittle, red brick house built by his father atop an oyster-shell hill in Virginia.

Major accident rate for the Naval Air Reserve during 1949 was only 5.35 per 10,000 aircraft hours.

GLENN OIL COMPANY,
2250 EAST WASHINGTON,
PHOENIX, ARIZONA.
PHONE 4-9235.

Gentlemen:

I am interested in hearing more about your Oil Drilling in Paradise Valley, and would appreciate more information.

Name .....

Address .....

Telephone .....

OIL! OIL! OIL!

GLENN OIL COMPANY ARE NOW OFFERING A LIMITED AMOUNT OF STOCK AT $1.00 per SHARE. This is a speculative issue. INDICATIONS FOR OIL IN PARADISE VALLEY are GOOD ACCORDING TO ENGINEER PETROLEUM REPORTS, and YOUR SPECULATIVE DOLLARS CAN REALLY GROW AND BRING IN A STEADY INCOME SHOULD WE HIT. OUR OIL LEASES COVER A LARGE AREA IN PARADISE VALLEY. OUR No. 2 WELL IS MAKING STEADY PROGRESS. SHARES ARE $1.00.

SEND COUPON FOR FURTHER INFORMATION.

GLENN OIL COMPANY

Offering A Limited Number of Shares

AT $1.00 PER SHARE

(THIS IS A SPECULATIVE ISSUE.)

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GLENN OIL COMPANY

2250 East Washington Street

Phoenix, Arizona

Phone 4-9235

Phone 3-0535

The Arizona Press

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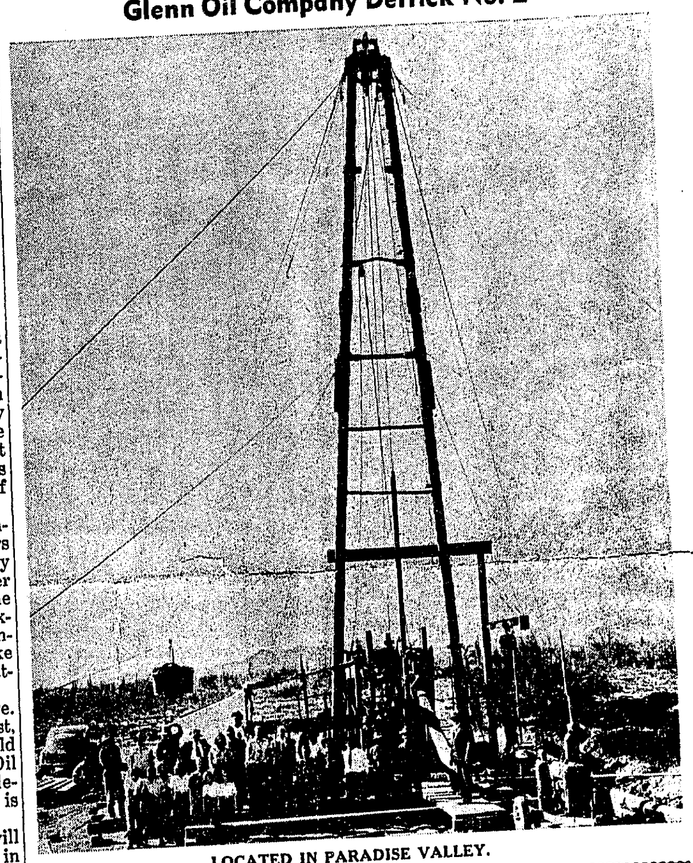

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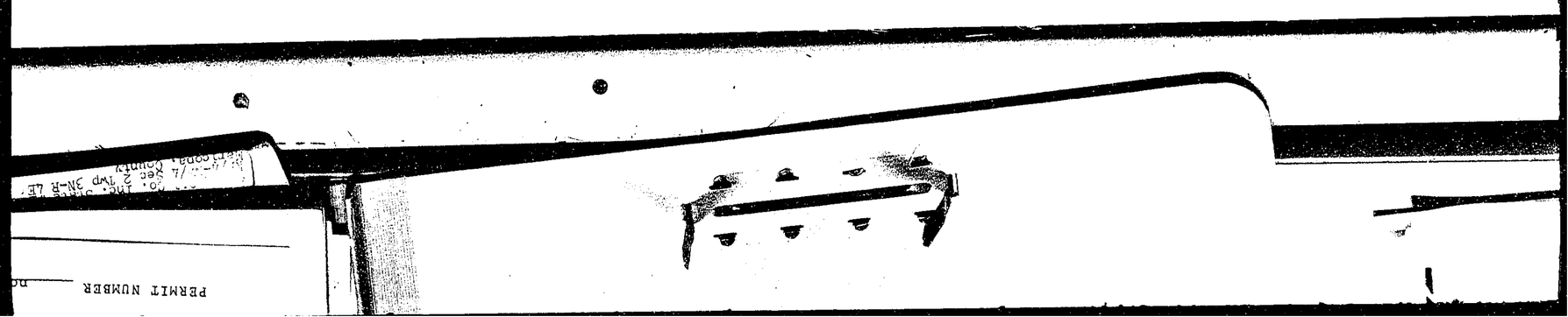

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