Great Basin Taylor-Fuller #1
SW/4-SW/4 Sec16.-Twp17N-R20E
Navajo County; No Permit 9-23

P-A

32 × 1

County Navajo

Area

Lease No.

*location field checked 11-3-93/SLR

Well Name ~~Great Basin Oil~~ Taylor-Fuller #1

Location ~~NW NW NW~~ SE SW SW Sec ~~21~~ 16* Twp 17N Range 20E Footage 600 fsl 835 fwl

Elev ~~5270~~ 5245' fr Porter Canyon 7.5' Quad. Gr ____ KB ____ Spud Date 1926 e Percy Hager Completed Abandon 1927 Total Depth 4675

Contractor: ____ Approx. Cost $ ____

Drilled by Rotary ____ Cable Tool X

Casing Size	Depth	Cement
12½	630	
10"	978'	
8¼	1858	
6 5/8	2193	
5 3/16	3465	

Production Horizon ____

Initial Production D&A

Note: There is some question whether the samples examined for this well are not from another well. See Huddle et al, USGS OM. Chart 10, 1945

REMARKS

Coconino	Surface
Supai	460
Redwell	2750
granite 3557 N.M.B.M.	+1713 ?
Pre-Cam	3685 (+1585)
Granite	4670

Elec. Logs 3 various little orlo (Artr's logs)

Sample Log ~~X~~ No

Sample Descrip. ____

Sample Set ____

Cores ____

Driller's log

Applic to Plug ____ Plugging Record ____ Completion Report ____

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 # 02-017-05033

PERMIT NUMBER none Date Issued ____

#9-23

32 x

Drillers Log 21-17N-10E **Navajo County, Arizona** **Elevation 5270'** 9-23

As shown in geological report on Holbrook Area by Moyth W. Baden 1-42

sand	grey & buff, water	480	Cocaine
shale	brown	485	
shale, sandy	brown	515	
shale	brown	580	hard
sand	brown	585	soft
shale, sandy	brown	600	
sand	brown	610	
shale, sandy	brown	635	
shale, sandy	brown	645	
lime	brown	650	
shale, sandy	brown	665	water
lime	brown	670	
shale & lime	red	700	
shale	red	715	
lime	red	725	shells
lime	white	725	talc
lime	grey	728	
shale	red	780	
shale, sandy	red	785	
salt & shale	red	800	
shale	red	820	
salt, shale	red	850	
shale	red	875	
salt & shale	red	960	
shale	brown	970	
lime	brown	974	
shale	blue	977	
lime, shells	brown	985	10" casing
shale	red	1025	
shale	brown	1050	
salt & shale		1225	
lime	yellow	1228	shells
shale	yellow	1250	
shale	brown	1305	
lime	grey	1315	Calcareous
salt & shale		1330	
shale	brown	1460	
lime	grey	1473	
shale	brown	1610	
salt & shale		1620	
lime	grey, hard	1630	Upper Supai
lime	grey, soft	1660	water
lime	brown	1680	
shale	brown	1855	
lime	brown	1858	8" casing
shale	brown	1900	
shale, sandy	brown	1925	
sand	brown	1930	gas & water
shale, sandy	brown	1985	
shale, sandy, lime shells	brown	2185	
shale	blue	2188	
shale-lime	brown	2193	6-5/8" Casings
lime, sandy	brown	2248	
shale	red	2260	soft
shale	brown	2274	
shale	grey	2277	
shale	brown	2325	Lower supai
lime	broken	2459	shells
shale, lime	broken	2510	

32 × 1

21-17N-10E

9-23

shale & lime	red	2750	
lime	brown	2760	
shale	brown	2805	
lime	grey	2810	
shale, sandy	grey	2825	
lime, sandy	grey	2840	
shale	grey	2855	
shale	brown	2895	
lime	grey	2915	Upper Redwall
shale	brown	2928	
lime, sandy	brown	2940	
lime	grey	2955	
shale, sandy	blue	3012	
lime	grey	3020	
shale	brown	3065	
lime	grey	3110	
shale, sandy	grey	3118	
lime	grey	3140	
shale, sandy	brown	3150	
lime, sandy	grey	3255	
shale	blue-grey	3290	
lime, sandy	grey	3315	
shale	red	3325	soft
lime	grey	3390	
lime	grey	3430	
shale	brown	3440	
lime & shale	grey	3455	
sand	grey	3465	water
lime	grey	3468	5- 3/15" Casing
lime	grey	3509	
lime, sandy	grey	3515	
shale, sandy	Pink	3530	
lime	grey	3530	
lime	grey		
shale	pink	3540	
sand	white	3542	Water H. P.
lime	grey		
shale	brown	3548	
lime & shale	grey	3555	
lime	grey	3558	
sand & lime	grey	3580	
sand	brown	3594	
sand & lime	grey	3630	
lime	crystalline	3635	
sand	Arkosic	3862	Oil & Water
sand	Arkosic	3870	
lime & sand		3908	
lime	white	3965	
sand	white flowing	3980	Gas & water
sand	Arkosic	4010	
sand		4050	Water
sand	brown	4045	
sand	Arkosic	4206	
shale & sand	red & green	4208	
sand	grey	4211	
sand	red	4224	
sand, shale	red & green	4231	
sand		4238	
shale	buff	4254	
sand		4260	
lime, sandy		4264	hard
lime		4283	hard
lime, sandy		4281	
shale, sandy	blue	4286	
lime, sandy		4290	
	blue	4292	

32×

21-17N-10E Navajo Co.

9-23

lime, sandy		4507	
lime & sand		4508	
sand & shale	blue	4509	
lime, sandy		4507	
sand	brown	4511	
lime, sandy	brown	4512	
lime, sandy	grey	4521	
lime, sandy	red	4522	
lime, sandy	grey	4526	
lime, sandy	red	4529	
lime, sandy	grey	4535	
lime, sandy	red	4547	
lime, sandy	grey	4560	
lime, sandy	red	4582	
sand	red	4429	
sand	grey	4434	
sand	red	4438	
sand	red & grey	4441	
sand	red	4444	
sand & grey	grey	4455	
sand	grey	4469	hard
sand	red	4474	
sand	grey	4500	
lime	hard	4501	
sand	grey	4515	
lime	hard	4501	
sand	grey	4515	
lime	hard	4517	
sand	grey	4519	
lime	hard	4522	
sand	grey	4519	
lime	hard	4522	
sand	grey	4524	hard
lime	hard	4525	
sand	grey	4529	hard
lime	hard	4530	hard
sand	grey	4532	hard
lime	hard	4536	
sand-	grey	4540	hard
sand	grey	4546	
sand	brown	4548	soft
lime	hard	4549	
sand	grey	4562	
lime	hard	4564	
sand	grey	4573	
lime	hard	4577	
sand	grey	4582	hard
lime	hard	4584	
sand	grey	4588	
lime	hard	4589	
sand	grey	4590	
lime	grey	4591	hard
sand	grey	4594	hard
lime	hard	4595	
sand	grey	4615	
lime	grey	4615	hard
sand	grey	4628	
lime	grey	4630	hard
sand	grey	4674	
lime	grey	4675	hard

Great Basin Oil Co. #1 Miller, Sec. 21-T. 17 N. R 20 E. Navajo County, Arizona.

Depth	Surface Coconino Sandstone
185-200'	Fresh water strata
220-233'	"
460	Cross-bedded Sandstone Coconino
465	Brown shale
515	Brown sandy shale
550	Brown shale
585	Soft sand, ochre-colored
600	Brown sandy shale
610	Brown sand, hard
640	Sandy shale...base Coconino
648	Shale
650	Lime brownish, fresh water
667	Sandy shale
670	Lime
715	Red shale
717	Lime
725	Red shale
727	Lime
730	Red shale
732	Lime
750	Red shale
800	Rock salt
820	Red shale
830	Rock salt
880	Red shale
881	Thin lime
960	Red shale and salt
970	Brown shale
975	Lime
1050	Brown shale
1230	Brown shale and salt
1250	Yellow shale
1310	Brown shale
1320	Shale and lime shells
1358	Brown shale and salt
1460	Brown shale
1475	Lime
1610	Brown shale
1620	Brown shale and salt
1630	Hard gray lime...salt water
1855	Brown shale
1860	Lime
1900	Brown shale
1902	Thin lime
1926	Brown shale
1935	Brown sand---gas, salt water
1980	Brown shale and sand
1981	Thin lime
2180	Brown sandy shale
2186	Sand
2250	Lime
2255	Red shale and salt

Depth	Brown shale
2516	Lime shells and shale
2790	Lime shells and brown shale
2760	Brown lime
2815	Brown shale
2813	Lime
2830	Shale
2842	Lime
2850	Gray shale
2878	Shale
2900	Brown shale
2922	Lime
2937	Brown shale
2960	Lime
3015	Sandy shale
3026	Lime
3060	Brown shale--base Supai
3110	Lime
3120	Brown sandy shale
3145	Lime
3150	Brown sandy shale
3270	Lime
3294	Shale
3315	Lime
3385	Red shale
3430	Lime
3442	Brown shale
3458	Shale
3465	Sand
3522	Lime
3523	Sand
3530	Red sandy shale
3560	Lime
3590	Sand, show oil 3590-95
3591	Thin lime
3595	Sand
3598	Lime
3608	Sand
3610	Lime
3620	Sand
3622	Lime
3630	Sand
3685	Sandy lime
3870	Arkosic sand water, oil on tools at 3800
3952	Lime
4203	Sand, arkosic, water
4210	Red shale
4240	Sand
4300	Lime
4315	Sand
4332	Lime
4675	Sand, red to gray T. D. Dryhole

No permit

32 ×

LOG OF GREAT BASIN OIL-TAYLOR, FULLER #1, NEAR HOLBROOK, ARIZONA
NW, NW, NW - Sec. 21, T. 17 N., R. 20 E., Elev. 5270 NAVAJO COUNTY

0	460	Coconino Sandstone Fresh water stratas 185 - 200 ft. " " " 220 - 233 ft.
460	465	Brown shale
465	515	Brown sandy shale
515	550	" " "
550	585	Soft Ochre sand
585	600	Brown sandy shale
600	610	Hard brown sand
610	635	Yellow sandy shale
635	645	Brown sandy shale
645	650	Brown lime
650	665	Sandy shale 12½ casing 630'
665	700	Red shale
700	725	" lime
725	780	Red shale
780	785	Red sandy shale
785	800	Rock salt
800	820	Red shale
820	960	Rock salt and red shale
960	970	Brown shale
970	974	Brown lime
974	977	Blue shale
977	985	Brown lime 10" casing 978'
985	1025	Red shale
1025	1050	Brown shale
1050	1225	Red shale and salt
1225	1228	Yellow shell lime
1228	1250	" shale
1250	1305	Brown shale
1305	1315	Gray lime (soft)
1315	1330	Shale and salt
1330	1460	Brown shale
1460	1473	Gray lime (hard)
1473	1610	Brown shale
1610	1620	Shale and salt
1620	1630	Gray lime (hard)
1630	1660	Gray lime (soft)
1660	1680	Brown lime (soft)
1680	1853	Brown lime (hard)
1853	1858	Brown lime (soft) 8¼" casing 1858
1858	1900	Brown shale
1900	1925	Brown sandy shale
1925	1930	Brown sandy shale (hard) with lime shells
1930	2185	Brown sandy shale
2185	2188	Blue shale
2188	2193	Brown sandy shale (hard) 6 5/8 casing 2193
2193	2248	Brown lime
2248	2260	Soft red shale
2260	2274	Hard brown shale
2274	2277	Gray shale
2277	2323	Brown shale (hard)
2323	2750	Broken lime shells and shale
2750	2760	Brown lime
2760	2805	Brown shale
2805	2810	Gray lime
2810	2825	Sandy shale
2825	2840	Gray lime
2840	2855	Gray shale
2855	2895	Hard brown shale
2895	2915	Gray lime
2915	2940	Brown shale
2940	2955	Gray lime
2955	3012	Blue shale

32 ×

GREAT BASIN OIL-TAYLOR, FULLER #1 NAVAJO COUNTY

3012	3110	Brown
3110	3118	Brown shale
3118	3265	Blue-gray shale
3265	3315	Gray lime (hard)
3315	3325	Red shale
3325	3425	Gray lime
3425	3440	Brown shale
3440	3455	Gray shale lime shells
3455	3465	Salt water raised to 750' from surface
3465	3468	Hard lime 5 3/16" casing 3465
3468	3515	Gray lime
3515	3525	Pink shale (sandy)
3525	3540	Gray lime
3540	3542	Water sand raised to 600' of surface
3542	3685	Lime with sandy streaks
3685	3862	Arkosic sandstone
3862	3953	Lime dull white
3953	3960	Water sand flows 20 gallons per Mi.
3960	4230	Arkosic sandstone (red)
4230	4304	Hard limestone, red and gray streaks
4304	4382	Red sandstone (hard)
4382	4500	Gray sandstone (hard)
4500	4675	Red granite
		3 inch pipe 4600'
		Altitude at well 5270'

Formation Tops from State Land Dept. Files

0	460	Coconino
460	2750	Supai
2750	3685	Redwall
3685	4670	Pre-cambrian ?
4670	4675	Granite

TD 4675 Note New Mexico Bureau of Mines report

Top of Granite at 3557'

Formation Tops from State Land Dept. Files

Holbrook Well - deepened from 2500' by Jerome Navajo Drilling Co.

0	?	~~Coconino~~
?	2500	Supai
2500	3023	Supai
TD ?	3023	

This well is in 23-15N-18E.

LOG OF GREAT BASIN OIL COMPANY WELL NEAR HOLBROOK, ARIZONA

0-460	Coconino Sandstone Fresh water Stratas 185 to 200 feet " " " 220 to 233 "
460-465	Brown Shale
465-515	Brown Sandy Shale
515-550	Brown Sandy Shale
550-585	Soft Ochre Sand
585-600	Brown Sandy Shale
600-610	Hard Brown Sand
610-635	Yellow Sandy Shale
635-645	Brown Sandy Shale
645-650	Brown Lime
650-665	Sandy Shale 12½ casing 630 ft.
665-700	Red Shale
700-725	Red lime
725-780	Red Shale
780-785	Red Sandy Shale
785-800	Rock Salt
800-820	Red Shale
820-960	Rock Salt and Red Shale
960-970	Brown Shale
970-974	Brown Lime
974-977	Blue Shale
977-985	Brown Lime 10" casing 978 ft.
985-1025	Red Shale
1025-1050	Brown Shale
1050-1225	Red Shale and Salt
1225-1228	Yellow Shell Lime
1228-1250	Yellow Shale
1250-1305	Brown Shale
1305-1315	Gray Lime (soft)
1315-1330	Shale and Salt
1330-1460	Brown Shale
1460-1473	Gray Lime (hard)
1473-1610	Brown Shale
1610-1620	Shale and Salt
1620-1630	Gray Lime (hard)
1630-1660	Gray Lime (soft)
1660-1680	Brown Lime (soft)
1680-1853	Brown Lime (hard)
1853-1858	Brown Lime (soft) 8¾ " casing 1858
1858-1900	Brown Shale
1900-1925	Brown Sandy Shale
1925-1930	Brown Sandy Shale (hard) with lime shells
1930-2185	Brown Sandy Shale
2185-2188	Blue Shale
2188-2193	Brown Sandy Shale (hard) 65/8 casing 2193
2193-2248	Brown Lime
2248-2260	Soft Red Shale
2260-2274	Hard Brown Shale
2274-2277	Gray Shale
2277-2323	Brown Shale (hard)
2323-2750	Broken Lime Shells and Shale
2750-2760	Brown Lime
2760-2805	Brown Shale
2805-2810	Gray Lime
2810-2825	Sandy Shale
2825-2840	Grey Lime
2840-2855	Gray Shale
2855-2895	Hard Brown Shale
2895-2915	Gray Lime
2915-2940	Brown Shale
2940-2955	Gray Lime
2955-3012	Blue Shale

32 ×

3012-3110	Brown Lime
3110-3118	Brown Shale
3118-3265	Blue-gray Shale
3265-3315	Gray Lime (hard)
3315-3325	Red Shale
3325-3425	Gray Lime
3425-3440	Brown Shale
3440-3455	Gray Shale lime shells
3455-3465	Salt water raised to 750 ft. from surface
3465-3468	Hard Lime 5 3/16" casing 3465
3468-3515	Gray Lime
3515-3525	Pink Shale (sandy)
3525-3540	Gray Lime
3540-3542	Water sand raised to 600 ft. of surface
3542-3685	Lime with sandy streaks
3685-3862	Arkosic Sandstone
3862-3953	Lime dull white
3953-3960	Water sand flows 20 gallons per mi.
3960-4230	Arkosic Sandstone (red)
4230-4304	Hard Limestone, red and gray streaks
4304-4382	Red Sandstone (hard)
4382-4500	Gray Sandstone (hard)
4500-4675	Red Granite

3-inch pipe 4600 ft.
Altitude at well 5270 ft.

32 ×

LOG OF GREAT BASIN OIL COMPANY WELL NEAR HOLBROOK, ARIZONA

NE NW NW - 21 - 17N - 20E Elev 5270

0-460	Coconino Sandstone
	Fresh water Stratas 185 to 200 feet
	" " " 220 to 233 "
460-465	Brown Shale
465-515	Brown Sandy Shale
515-550	" " "
550-585	Soft Ochre Sand
585-600	Brown Sandy Shale
600-610	Hard Brown Sand
610-635	Yellow Sandy Shale
635-645	Brown Sandy Shale
645-650	Brown Lime
650-665	Sandy Shale 12½ casing 630 ft.
665-700	Red Shale
700-725	" lime
725-780	Red Shale
780-785	Red Sandy Shale
785-800	Rock Salt
800-820	Red Shale
820-960	Rock Salt and Red Shale
960-970	Brown Shale
970-974	Brown Lime
974-977	Blue Shale
977-985	Brown Lime 10" casing 978 ft.
985-1025	Red Shale
1050-1225 ---- 1025-1050	Brown Shale ---- Red shale and salt
1225-1228	Yellow Shell Lime
1228-1250	" Shale
1250-1305	Brown Shale
1305-1315	Gray Lime (soft)
1315-1330	Shale and Salt
1330-1460	Brown Shale
1460-1473	Gray Lime (hard)
1473-1610	Brown Shale
1610-1620	Shale and Salt
1620-1630	Gray Lime (hard)
1630-1660	Gray Lime (soft)
1660-1680	Brown Lime(soft)
1680-1853	Brown Lime (hard)
1853-1858	Brown Lime (soft) 8¼ " casing 1858
1858-1900	Brown Shale
1900-1925	Brown Sandy Shale
1925-1930	Brown Sandy Shale (hard) with lime shells
1930-2185	Brown Sandy Shale
2185-2188	Blue Shale
2188-2193	Brown Sandy Shale (hard) 65/8 casing 2193
2193-2248	Brown Lime
2248-2260	Soft Red Shale
2260-2274	Hard Brown Shale
2274-2277	Gray Shale
2277-2323	Brown Shale (hard)
2323-2750	Broken Lime Shells and Shale
2750-2760	Brown Lime
2760-2805	Brown Shale
2805-2810	Gray Lime
2810-2825	Sandy Shale
2825-2840	Gray Lime
2840-2855	Gray Shale
2855-2895	Hard Brown Shale
2895-2915	Gray Lime
2915-2940	Brown Shale
2940-2955	Gray Lime
2955-3012	Blue Shale

No permit

32 ×

3012-3110	Brown Lime
3110-3118	Brown Shale
3118-3265	Blue-gray Shale
3265-3315	Gray Lime (hard)
3315-3325	Red Shale
3325-3425	Gray Lime
3425-3440	Brown Shale
3440-3455	Gray Shale lime shells
3455-3465	Salt water raised to 750 ft. from surface
3465-3468	Hard Lime 5 3/16" casing 3465
3468-3515	Gray Lime
3515-3525	PinkShale (sandy)
3525-3540	Gray lime
3540-3542	Water sand raised to 600 ft. of surface
3542-3685	Lime with sandy streaks
3685-3862	Arkosic Sandstone
3862-3953	Lime dull white
3953-3960	Water sand flows 20 gallons per Mi.
3960-4230	Arkosic Sandstone (red)
4230-4304	Hard Limestone, red and gray streaks
4304-4382	Red Sandstone (hard)
4382-4500	Gray Sandstone (hard)
4500-4675	Red Granite
	3 inch pipe 4600 ft.
	Altitude at well 5270 ft.

N.M. Bureau Mines: Top granite 3567'

No permit

32 × 1

Formation Tops from State Land Dept files.

Great Basin - Taylor-Fuller #1

0 - 460 Coconino
460 - 2750 Supai
2750 - 3685 Redwall
3685 - 4670 Pre-Cambrian ?
4670 - 4675 Granite
TD 4675

Note New Mexico Bureau of Mines reports
Top of Granite at 3557'.

No permit

32 × 1

82 CLEAN, COOL ROOMS EACH WITH RUNNING WATER

RATES WITHOUT $1.00 UP

RATES WITH $2.00 UP

Top of Benflay

Commercial and Arizona Hotels

Holbrook, Arizona, _____ 193__

Log of Great Basin Oil Co Well Near Holbrook Arizona –

0-460	– Coconino Sandstone
	Fresh water strates 185 to 200 ft
	" " " 220 253 ft
460-465	Brown shale
465-515	Brown sandy shale
515-550	" shale
550-585	Soft ochre sand
585-600	Brown sandy shale
600-610	Hard brown sand
610-635	Yellow sandy shale
635-645	Brown sandy shale
645-650	" lime
650-665	Sandy shale 12½ Casing 630 ft
665-700	Red shale
700-725	Red lime
725-780	Red shale
780-785	Red sandy shale
785-800	Rock salt
800-820	Red shale
820-960	Rock salt and Red shale
960-970	Brown shale

32 × 1

82 CLEAN, COOL ROOMS EACH WITH RUNNING WATER

RATES WITHOUT $1.00 UP

RATES WITH $2.00 UP

-2-

Commercial and Arizona Hotels

Holbrook, Arizona, _____ 193__

970 - 974 - Brown lime
974 - 977 - Blue shale
977 - 985 - Brown lime 10" casing 978 ft
985 - 1025 Red shale
1025 - 1050 Brown shale
1050 - 1225 Red shale & salt
1225 - 1228 yellow shale - lime
1228 - 1250 " shale
1250 - 1305 Brown shale
1305 - 1315 Grey lime (soft)
1315 - 1330 Shale & salt
1330 - 1460 Brown shale
1460 - 1473 Grey lime - (hard)
1473 - 1610 Brown shale
1610 - 1620 shale & salt
1620 - 1630 Grey lime (hard)
1630 - 1660 Grey lime (soft)
1660 - 1680 Brown " (")
1680 - 1853 Brown lime (Hard)
1853 - 1858 " " (soft) 8 1/4" casing 1858
1858 - 1900 Brown shale
1900 - 1925 " sandy shale
1925 - 1930 (Hard) " " " with lime shells
1930 - 2185 Brown sandy shale
2185 - 2188 Blue shale

WATER

$1.00 UP

RATES WITH
$2.00 UP

Commercial and Arizona Hotels

Holbrook, Arizona, _____ 193___

2188 - 2193	Brown sandy shale (hard)
2193 - 2248	Brown lime 6⅝ casing 2193
2248 - 2260	Soft red shale
2260 - 2274	Hard brown shale
2274 - 2277	Grey shale
2277 - 2323	Brown shale hard
2323 - 2750	Broken lime shells & shale
2750 - 2760	Brown lime
2760 - 2805	" Shale
2805 - 2810	Grey lime
2810 - 2825	Sandy shale
2825 - 2840	Grey lime
2840 - 2855	Grey shale
2855 - 2895	Hard Brown shale
2895 - 2915	Grey lime
2915 - 2940	Brown shale
2940 - 2955	Grey lime
2955 - 3012	Blue shale
3012 - 3110	Brown lime
3110 - 3118	Brown shale
3118 - 3265	Blue Grey shale
3265 - 3315	Grey lime (hard)
3315 - 3325	Red shale
3325 - 3425	Grey lime
3425 - 3440	Brown shale
3440 - 3455	Grey shale lime shells

32 ×

82 CLEAN, COOL ROOMS EACH WITH RUNNING WATER

RATES WITHOUT $1.25 UP

-4-

RATES WITH $2.00 UP

Commercial and Arizona Hotels

Holbrook, Arizona, _____ 193__

3455-3465	Salt water raised to 750 ft from surface
3465-3468	Hard lime 5 3/16" Casing 3465
3468-3515	Grey lime
3515-3525	Pink shale Sandy
3525-3540	Grey lime
3540-3542	Water Sand Raised to 600 ft of surface -
3542-3685	Lime with sandy streaks
3685-3862	Arkosic sandstone
3862-3953	Lime dull white
3953-3960	Water sand flows 20 gal per min -
3960-4230	Arkosic sandstone (Red)
4230-4304	(Hard) Limestone Red and Grey streaks
4304-4382	Red sandstone (Hard)
4382-4500	Grey sandstone (Hard)
4500-4675	Red Granite

3 inch pipe 4600 ft

Altitude at well 5270 ft -

TWP	RGE	SEC	SPOT	OPERATOR	WELL#	LEASE	COMP	TD	STATUS	FIELD	ADD	UNIQUE ST NC
N [illegible]	W [illegible]	27	SW NE NE	[illegible]	[illegible]	FEDERAL [illegible]	10/83	2500	D&A	WILDCAT	02/83	[illegible]
N 40	W 6	26	C NW NW	SKOWS EXPL	2	MOHAVE FEDERAL	09/82	7064	D&A-O	WILDCAT	02/83	20017-00-00
N [illegible]	W 5	10	NW NW NW	COPPER[illegible]EN ASSO	1	PIPE VALLEY	[illegible]/81	290	J&A	WILDCAT	07/81	20011-00-00
N [illegible]	W 5	10	NW NW NE	CO[illegible]N ASSO	1 A	PIPE VALLEY	06/81	1600	D[illegible]	WILDCAT	07/81	[illegible]
N [illegible]	W 16	22	S2 SW SW	EL[illegible] NATURAL	1	REDLAKE PROSPE	07/70	5994	D[illegible]	WILDCAT	09/72	[illegible]
N [illegible]	W [illegible]	11		EL[illegible] NATURAL	1	WATER WELL	12/50	880	SERVICE	WILDCAT	09/72	[illegible]
N [illegible]	W [illegible]	28	NW NE	FALCON-SEABOARD	1	ANTELOPE FEDERA	08/56	1753	D&A-O	WILDCAT	09/72	[illegible]
N [illegible]	W 7	17	NW NW SW	FIELDS ROGER	2	FEDERAL	07/60	30	D&A	WILDCAT	09/72	[illegible]
N [illegible]	W 7	17	SW SW SW	FIELDS ROGER	1	FEDERAL	10/60	1720	D&AW	WILDCAT	08/77	[illegible]
N [illegible]	W 7	17	SW SW SW	FIELDS ROGER A	1	FEDERAL	01/58	470	D&A-O	WILDCAT	09/72	[illegible]
N [illegible]	W 7	17	SW SW SW	FIELDS ROGER A	1	FEDERAL	08/59	1155	D&A-O	WILDCAT	09/72	[illegible]
N [illegible]	W 8	12	C NW SW	GEORGE T W	1	T W GEORGE FEDE	05/57	2202	D&A-O	WILDCAT	09/72	[illegible]
N [illegible]	W 21	11	C SE SW	GLEFLD DETRITAL	3	CORE HOLE	11/58	956	D&A	WILDCAT	01/87	[illegible]
N [illegible]	W 18	16	E2 E2 NW	GOODELL MUREL	1	GOODELL BASIN S	05/79	900	D&A	WILDCAT	01/80	[illegible]
N [illegible]	W [illegible]	[illegible]	[illegible]	GULF OIL	1	FEDERAL-BJ	11/80	5981	D&A	WILDCAT	01/81	[illegible]
N [illegible]	W [illegible]	[illegible]	[illegible]	HARRIS JAMES	1	FEDERAL	02/70	1115	D&A	WILDCAT	09/78	[illegible]
N [illegible]	W 10	17	SW NE	HOME PET	17-1A	FEDERAL	06/80	3125	D&A	WILDCAT	11/80	[illegible]
N [illegible]	W 11	35	NE SW NE	KOLOB PET	35-1	FEDERAL	03/82	1432	J&A	WILDCAT	08/82	[illegible]
N [illegible]	W 8	14	C SW NW	LYONS TONY	1	FEDERAL	08/57	2303	D&A	WILDCAT	09/72	[illegible]
N [illegible]	W 8	[illegible]	C NE SW	LYONS TONY	1	FEDERAL	09/58	1820	D&A-O	WILDCAT	09/72	[illegible]
N [illegible]	W [illegible]	[illegible]	[illegible]	ORBITER CO	1	AZ	12/81	335	GTNDEA	WILDCAT	05/82	[illegible]
N [illegible]	W [illegible]	7	SW SW SW	PARSONS R E ET	1	SWANSON	09/27	200	D&A	WILDCAT	09/85	[illegible]
N [illegible]	W [illegible]	28	[illegible]	PYRAMID OIL	1	FEDERAL	06/61	4145	D&A	WILDCAT	01/78	[illegible]
N [illegible]	W [illegible]	18	[illegible]	PYRAMID OIL	2	FEDERAL	[illegible]	4509	D&A	WILDCAT	01/78	[illegible]
N [illegible]	W 9	33	NE NW SW	PYRAMID OIL	3	ROCK REEF	04/81	3530	D&A	WILDCAT	09/82	20007-00-00
N [illegible]	W 11	23		SANTA FE R R	1	WATER WELL	12/29	1040	SERVCE	WILDCAT	09/72	05001-00-00
N [illegible]	W 7	2	NE SE	SKELLY OIL	1	ARIZONA-FEDERAL	05/66	4031	D&A-O	WILDCAT	09/72	05003-00-00
N [illegible]	W 6	16	SE	STATE	1	CANE RED	00/00	542	D&A	WILDCAT	09/72	05011-00-00
N [illegible]	W 13	35	SE SW	TENNESSEE OIL&G	1	USA SCHRIEBER	05/60	4015	D&A-O	UNNAMED	09/79	60002-00-00
N [illegible]	W 8	20	C NE NW	VALEN OIL & GAS	1	ANTELOPE	07/55	180	D&A	WILDCAT	09/72	05009-00-00
N [illegible]	W 13	[illegible]		VIRGIN OIL & MI	6	STATE	12/31	545	D&A-O	WILDCAT	09/72	05017-00-00
N [illegible]	W 15	[illegible]		VIRGIN OIL & MI	2	VIRGIN WELL	12/31	1405	D&A	WILDCAT	09/72	05016-00-00
N [illegible]	W 15	29	SW SE	VIRGIN OIL & MI	4	VIRGIN WELL	12/18	1960	D&A-O	WILDCAT	09/72	05013-00-00
N [illegible]	W 6	26	S2 NW NW	WAGGONER W M	2 [illegible]	FEDERAL	06/85	595	D&A-O	WILDCAT	08/85	20025-00-00
N [illegible]	W 5	31	C NW SE	WESTERN DRLG	1	FEDEPAL	05/58	4663	D&A-O	WILDCAT	09/72	05002-00-00

STATE (02) COUNTY (017)

TWP	RGE	SEC	SPOT	OPERATOR	WELL#	LEASE	COMP	TD	STATUS	FIELD	ADD	UNIQUE ST NC
N 19	E 20	4	SW SE	AMRANA OIL	1	GOVT	00/00	3387	D&A-OG	WILDCAT	09/72	05018-00-00
N 20	E 19	8	SE NE	AMERADA HESS CO	1	HOPI-5075	05/65	7750	D&A	WILDCAT	09/72	05083-00-00
N 15	E 22	3	NE NE NE	ARKLA EXPL	35	N M & ARIZ LNDA	02/66	975	D&A	WILDCAT	02/86	05150-00-00
N 16	E 23	5	NW SW NW	ARKLA EXPL	15	N M -ARIZ LAND	09/66	1127	D&A	WILDCAT	02/86	05147-00-00

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TWP	RGE	SEC	SPOT	OPERATOR	WELL#	LEASE	COMP	TD	STATUS	FIELD	ADD	UNIQUE ST NC
N 17	E 23	5	NW SE SW	ARKLA EXPL	5	NMA	01/66	1635	D&A	WILDCAT	09/72	05127-00-00
N 16	E 23	27	SW SW SE	ARKLA EXPL	10	NMA	08/66	1007	D&A	WILDCAT	09/72	05133-00-00
N 16	E 23	13	NW NW NW	ARKLA EXPL	16	NMA	02/66	1430	D&A	WILDCAT	09/72	05125-00-00
N 16	E 22	23	E2 NE SE	ARKLA EXPL	19	NMA	09/66	945	D&A	WILDCAT	09/72	05124-00-00
N 17	E 23	31	NE SW SW	ARKLA EXPL	20	NMA	10/66	1029	D&A	WILDCAT	09/72	05130-00-00
N 18	E 23	21	C NE NE	ARKLA EXPL	23	NMA	09/66	1919	D&A	WILDCAT	09/72	05132-00-00
N 18	E 23	18	SW NE SW	ARKLA EXPL	24	NMA	01/66	1560	D&A	WILDCAT	09/72	05131-00-00
N 17	E 23	19	C NE NE	ARKLA EXPL	36	NMA	12/65	1473	D&A	WILDCAT	09/72	05129-00-00
N 17	E 23	8	NE SW SE	ARKLA EXPL	44	NMA	09/66	1331	D&A	WILDCAT	09/72	05128-00-00
N 17	E 22	36	SE NW SW	ARKLA EXPL	3	STATE	10/55	1170	D&A	WILDCAT	02/86	05143-00-00
N 15	E 23	10	NE SW NE	ARKLA EXPL	7	STATE	09/65	1060	D&A	WILDCAT	02/86	05151-00-00
N 16	E 23	18	N2 SE NW	ARKLA EXPL	25	STATE	08/66	1100	D&A-G	WILDCAT	02/86	05146-00-00
N 16	E 23	34	C SW SW	ARKLA EXPL	31	STATE	10/66	926	D&A	WILDCAT	09/72	05126-00-00
N 16	E 22	16	NW SE NE	ARKLA EXPL	64	STATE	11/65	1380	D&A	WILDCAT	02/86	05145-00-00
N 16	E 22	27	SE NE SE	ARKLA EXPL	77	STRAT	10/65	1000	D&A	WILDCAT	02/86	05148-00-00
N 17	E 22	24	NE NW SW	ARKLA EXPLORATI	-	N M & ARIZ LAND	11/65	1275	D&A	WILDCAT	02/86	05142-00-00
N 17	E 23	29	NW SE NE	ARKLA EXPLORATI	39	N MEX -ARIZONA	11/65	1340	D&A	WILDCAT	02/86	05144-00-00
N 18	E 20	28	NE SW NE	ARROWHEAD RESOY	1	STATE	07/59	1987	D&A	WILDCAT	09/72	05044-00-00
N 28	E 15	9	SW SE	ATLANTIC REFINI	1	HOPI-A	07/55	6641	D&A	WILDCAT	09/72	05116-00-00
N 18	E 20	31	N2 SE SE	BESOIL	1	HUNT	[illegible] 58	1683	D&A-G	WILDCAT	09/72	05039-00-00
N 18	E 20	33	E2 SW	BESOIL	1	PERKINS	03/58	480	D&A	WILDCAT	09/72	05038-00-00
N 18	E 20	31	N2 SE SE	BESOIL COMPANY	1	HUNT	12/59	1665	D&AW	WILDCAT	01/86	05039-00-01
N 16	E 17	20	NE NE	BLACK CANYON OI	1	BLACK CANYON	[illegible]	510	D&A-OG	WILDCAT	09/72	05027-00-00
N 14	E 18	12	C NW	CALIFORNIA OIL	1	STATE 1519	[illegible]	1947	J&A	WILDCAT	09/72	05016-00-00
N 14	E 18	12	SE NW	CALIFORNIA OIL	1-A	STATE 1519	[illegible]	2947	D&A	WILDCAT	09/72	05015-00-00
N 15	E 19	34	SW SW NE	CONTINENTAL OIL	1	N MEX -ARIZONA	[illegible]	3609	D&A-O	WILDCAT	09/72	05021-00-00
N 18	E 20	31	NE SE SE	CREE GEORGE B	1	HUNT	[illegible]	1605	D&A	WILDCAT	09/72	20002-00-00
N 18	E 20	33	C SW SW	CREE GEORGE B J	1	SCORSE FEE	[illegible]	3585	D&A	WILDCAT	09/72	20001-00-00
N 19	E 23	36	SW SW SW	DUVAL CORP	29	POTASH TEST	04/64	1454	POTASH	NAVAJO-ST JO	09/72	05154-00-00
N 16	E 16	1	N2 SW SW	EISELE J C	1	MCCAULEY AJA	09/54	4231	D&A-G	WILDCAT	09/72	05029-00-00
N 19	E 23	9	C SW NW	F JULIUS FOHS	1-7	SANTA FE	11/61	1073	D&A	WILDCAT	09/72	05052-00-00
N 17	E 16	4	NE SW NW	FERRIN HAROLD	1	AJA CATTLE CO E	08/66	30	J&A	WILDCAT	09/72	05141-00-00
N 19	E 17	10	NE SW	FERRIN HAROLD	1	STATE	05/65	1417	D&A-O	WILDCAT	09/72	05139-00-00
N 19	E 17	22	NW NW	FERRON HAROLD	1	NMEX-ARIZONA LA	10/56	1250	D&A-O	WILDCAT	09/72	05140-00-00
N 19	E 23	16	NE NW SW	FOHS F JULIUS	1-16	STATE	11/61	845	D&A	WILDCAT	09/72	05122-00-00
N 19	E 23	26	NW SW	FOHS JULIUS F	1-26	FINLEY	12/61	727	D&A	CARRIZO WASH	09/72	05047-00-00
N 19	E 23	21	SE NE	FOHS JULIUS F	1-21	SANTA FE	12/61	710	D&A	CARRIZO WASH	09/72	05049-00-00
N 19	E 23	29	SE NE	FOHS JULIUS F	1-29	SANTA FE	11/61	723	D&A	CARRIZO WASH	09/72	05048-00-00
N 19	E 23	34	NW NW	FOHS JULIUS F	1-34	SANTA FE	11/61	678	D&A	CARRIZO WASH	09/72	05046-00-00
N 19	E 22	13	C S2 SE	FOHS JULIUS F	1-13	SANTE FE	05/62	1839	D&A	WILDCAT	09/72	05050-00-00
N 19	E 23	16	NE NE SW	FOHS JULIUS F	2-16	STATE	12/61	997	D&A	WILDCAT	09/72	05051-00-00
N 18	E 23	36	NW SE	FRANKLIN-ASTON	1	BERSTEIN-STATE	12/53	215	D&A	WILDCAT	09/72	05040-00-00
N 17	E 22	22	SW NE	FRANKLIN-ASTON	1-B	LAND	12/52	400	D&A	WILDCAT	09/72	05035-00-00
N 17	E 23	1	SW NE	FRANKLIN-ASTON	A-1	NMEX-ARIZ LAND	11/62	1280	D&A-G	WILDCAT	09/72	[illegible]-00-00
N 18	E 23	27	SW NE	FRANKLIN-ASTON	1-C	NMEX-ARIZ LAND	08/63	310	GAS	UNNAMED	09/72	05004-00-00
N 18	E 23	35	SW NE	FRANKLIN-ASTON	2-A	NMEX-ARIZ LAND	12/62	390	D&A	WILDCAT	09/72	05041-00-00
N 18	E 23	27	N2 SW NE	FRANKLIN-ASTON	C-2	NMEX-ARIZ LAND-	12/63	380	D&A	WILDCAT	09/72	05003-00-00
N 18	E 20	30	NW NW	FREEMAN LOWELIN	1	FEDERAL	04/59	300	D&A-OG	WILDCAT	09/72	05045-00-00
N 19	E 23	6	SW SW NW	GENERAL PETROLE	14-6	CREAGER-STATE	02/49	7472	D&A-OG	WILDCAT	09/72	05002-00-00
N 17	E 20	21	NW NW NW	GREAT BASIN OIL	1	FULLER	10/50	4675	D&A-OG	WILDCAT	09/72	05033-00-00
N 20	E 20	21		GREAT BASIN OIL	1	TAYLOR-FULLER	05/55	4563	D&A-O	WILDCAT	09/72	05034-00-00
N 15	E 22	1	SW SW SW	HAGER MILLS & L	1	SANTA FE	[illegible]	[illegible]	D&A-O	WILDCAT	09/72	05053-00-00
N 15	E 18	23	NE	HOLBROOK OIL	1	GOVT	11/24	3775	D&A-OG	WILDCAT	09/72	05022-00-00
N 15	E 19	21	NW NE	HOPI OIL	1	G & S F M	10/27	2420	D&A	WILDCAT	09/72	05023-00-00

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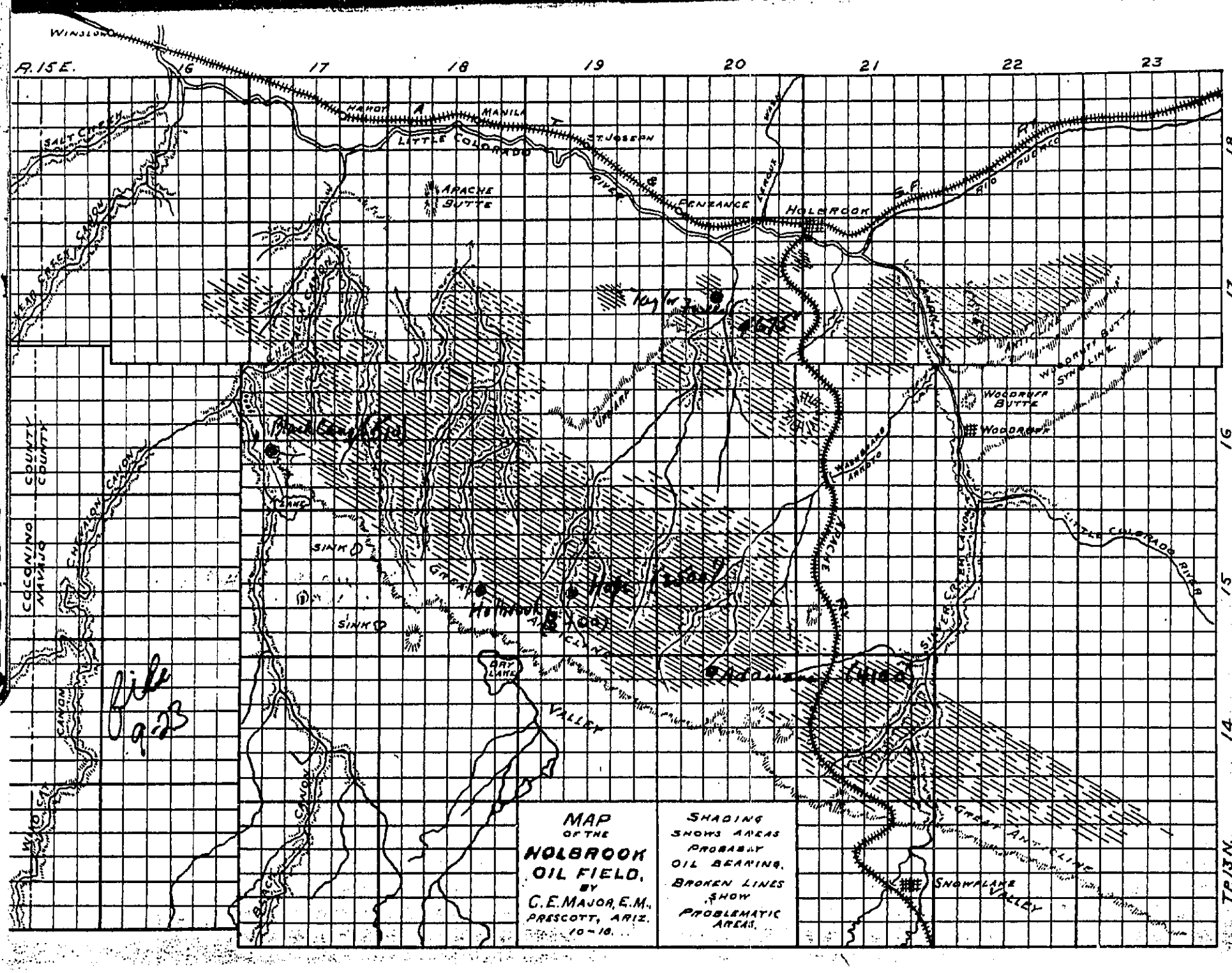
Probably does not exist

TWP	RGE	SEC	SPOT	OPERATOR	WELL#	LEASE	COMP	TD	STATUS	FIELD	ADD	UNIQUE ST NC
N 14	E 20	33	NE NE SW	JOHNSON LYDA TP	3	AZTEC	09/60	610	D&A	WILDCAT	04/75	60008-00-00
N 14	E 20	33	C NE	JOHNSON LYDIA	1	AZTEC	07/59	3737	D&A-G	UNNAMED	04/75	60010-00-00
N 14	E 20	33		JOHNSON LYDIA T	2	AZTEC	02/61	1540	D&A-OG	WILDCAT	04/75	60009-00-00
N 18	E 20	32	SW SE	KALIL & ASSOCIA	1	STATE-ZELIA	01/67	1400	D&A	WILDCAT	09/72	05121-00-00
N 20	E 21	4	NW SE	LINEHAN & STALT	1	MATHEWS	09/62	965	D&A	WILDCAT	09/72	05055-00-00
N 20	E 21	11	SW SE SW	LINEHAN & STOLT	1	JEFFERS	11/61	1714	D&A	WILDCAT	09/72	05123-00-00
N 16	E 23	34	E2 NW NE	LITTLE BELL H	1	STATE	11/71	1004	D&A	WILDCAT	09/72	[illegible]
N 14	E 20	33		LOCKHART	1	AZTEC	10/49	3724	D&A	WILDCAT	09/72	05012-00-00
N 14	E 20	33	NW NE SE	LOCKHART L M	1	AZTEC LAND & CA	03/52	3734	D&A-G	WILDCAT	09/72	05011-00-00
N 13	E 20	3	NE SE SE	LYNCH P D	1	AZTEC LAND & CA	10/53	3140	D&AWG	WILDCAT	03/86	[illegible]
N 13	E 20	3	NE SE SE	LYNCH P D	1	AZTEC LAND & CA	07/54	3140	D&AW	WILDCAT	03/86	[illegible]
N 13	E 20	3	NE SE SE	LYNCH PHIL P	1	AZTEC TEST WELL	05/52	1930	D&A	WILDCAT	09/72	[illegible]
N 13	E 18	8	SE NE SE	MORTON BROS	3	MORTON	01/76	3644	D&A	WILDCAT	03/76	20015-00-00
N 9	E 22	4	NE NE SW	NAVAPACHE HOSPI			00/00	700	SERVCE		07/83	[illegible]
N 14	E 22	5	C NE	NEW MEXICO &ARI	1	FEE	04/63	1500	D&A	WILDCAT	09/72	[illegible]
N 15	E 22	24	C E2	NEW MEXICO &ARI	2	FEE	05/63	1844	D&A	WILDCAT	09/72	[illegible]
N 17	E 22	28	C SE	NEW MEXICO &ARI	3	FEE	07/63	1418	D&A-G	WILDCAT	09/72	[illegible]
N 16	E 23	28	NE SW SE	OCCIDENTAL PETR	1	COTTON WASH STA	12/65	1035	D&A	WILDCAT	09/72	[illegible]
N 16	E 23	30	SW SE NW	OCCIDENTAL PETR	2	COTTON WASH STA	12/65	950	D&A	WILDCAT	09/72	[illegible]
N 18	E 20	32	SW SE	OIL HOLDINGS	1	STATE	03/51	180	D&A	WILDCAT	[illegible]	[illegible]
N 16	E 20	5	SE NE	PAN AMERICAN PE	1	AZTEC LAND-CATT	07/59	4003	D&A-O	WILDCAT	[illegible]	[illegible]
N 16	E 18	9	SE SW NE	PAN AMERICAN PE	1	AZTEC LAND-CATT	08/59	3936	D&A	WILDCAT	[illegible]	[illegible]
N 12	E 23	25	SW NE	PAN AMERICAN PE	1	NMEX & ARIZ LAN	06/59	4497	D&A-G	[illegible]	[illegible]	[illegible]
N [illegible]	E 18	20		PEABODY COAL	1	NAVAJO	11/65	5745	D&A-OG	[illegible]	[illegible]	[illegible]
N [illegible]	E 18	20	SE SE	PEABODY COAL	2	NAVAJO	06/67	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
N [illegible]	E 18	19	SW NW	PEABODY COAL	3	NAVAJO	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

32 ×


R.15E.
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14
TP.13N.
WINSLOW
HARDY
MANILA
ST. JOSEPH
LITTLE COLORADO
RIVER
PENZANCE
HOLBROOK
RIO PUERCO
SALT CREEK
APACHE BUTTE
LEAD CREEK CANON
CHEVALON CANON
COCONINO COUNTY
NAVAJO COUNTY
WOODRUFF BUTTE
WOODRUFF
WOODRUFF BUTTE SYNCLINE
LITTLE COLORADO RIVER
SINK
SINK
GREAT ANTICLINE
DRY LAKE
VALLEY
APACHE RY.
SILVER CREEK CANON
GREAT ANTICLINE
SNOWFLAKE VALLEY
MAP OF THE HOLBROOK OIL FIELD, BY C.E. MAJOR, E.M., PRESCOTT, ARIZ. 10-18.
SHADING SHOWS AREAS PROBABLY OIL BEARING. BROKEN LINES SHOW PROBLEMATIC AREAS.

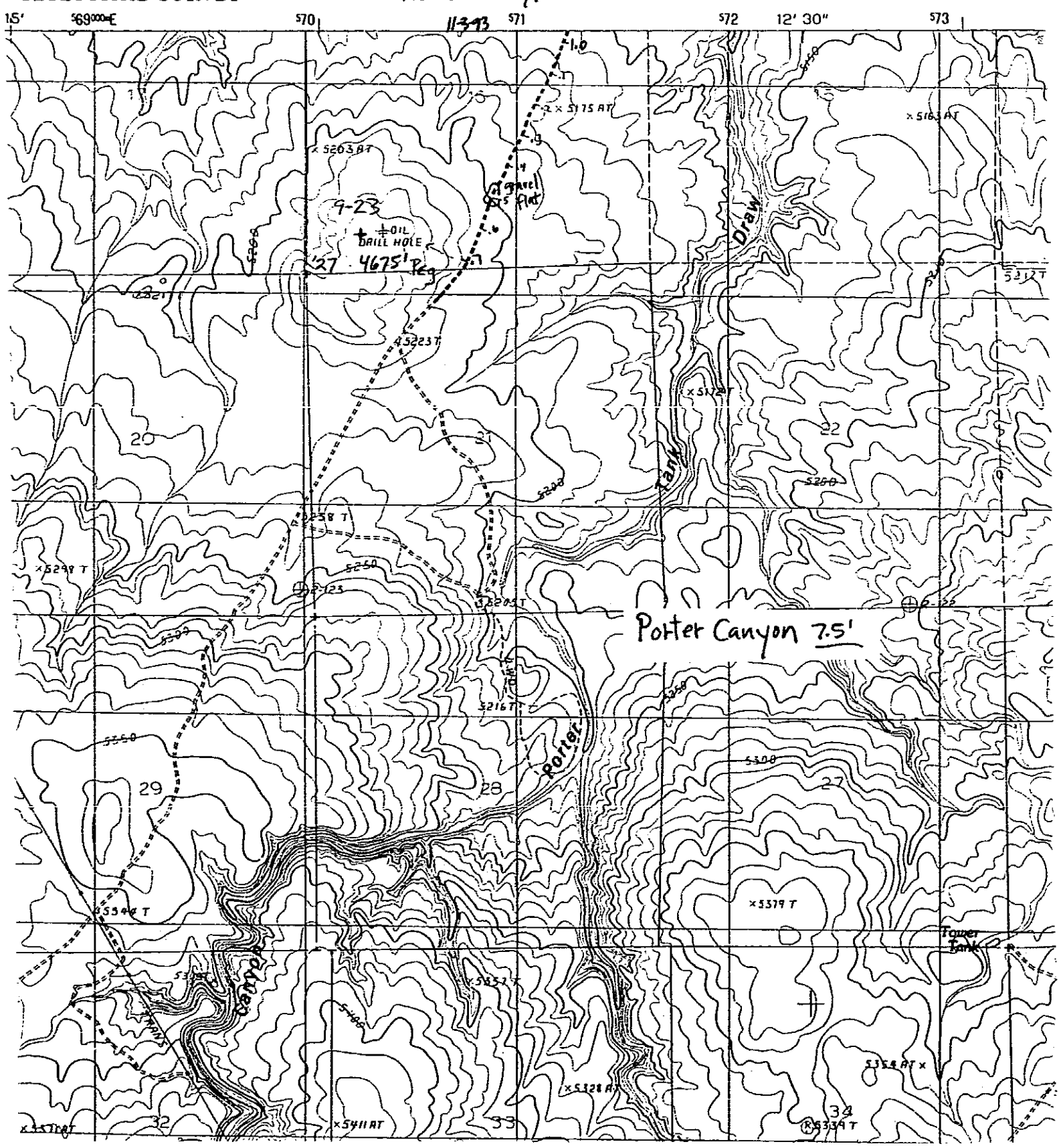
file 9-23

32 x

10 ft C.I

UNITED STATES
ARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

field checked/GLR



32 x

NAVAJO

T.	R.		
17N	21E	Taylor	COMPANY
		Fuller	NO. 1
16		COMMENCED	19
		COMPLETED	19
ELEVATION 5270		REMARKS:	

9-23

(4)

100

Cross-bedded
5%

200

Coconino.
640'±

300

film these on planetary

400

500

soft sand
ochre-colored

600 brown sd-hd.

Base Coconino.

brown ls Fresh water

700

800

900

32 × 1

NAVAJO

T. 17N	R. 20E	Taylor COMPANY
16		Fuller NO. 1
		COMMENCED 19
		COMPLETED 19
ELEVATION 5270		REMARKS:

9-23

4

100

Cross-Bedded
5a

200

Coconino.
640'±

300

400

500

Soft sand
ochre-colored

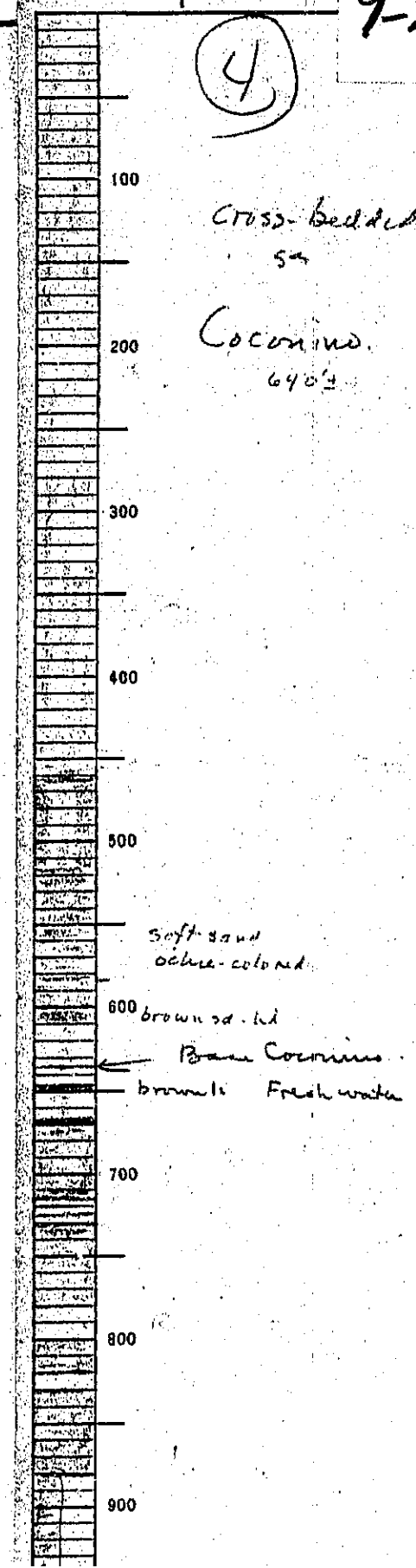
600 brown sd. hd

Base Coconino

brown hd Fresh water

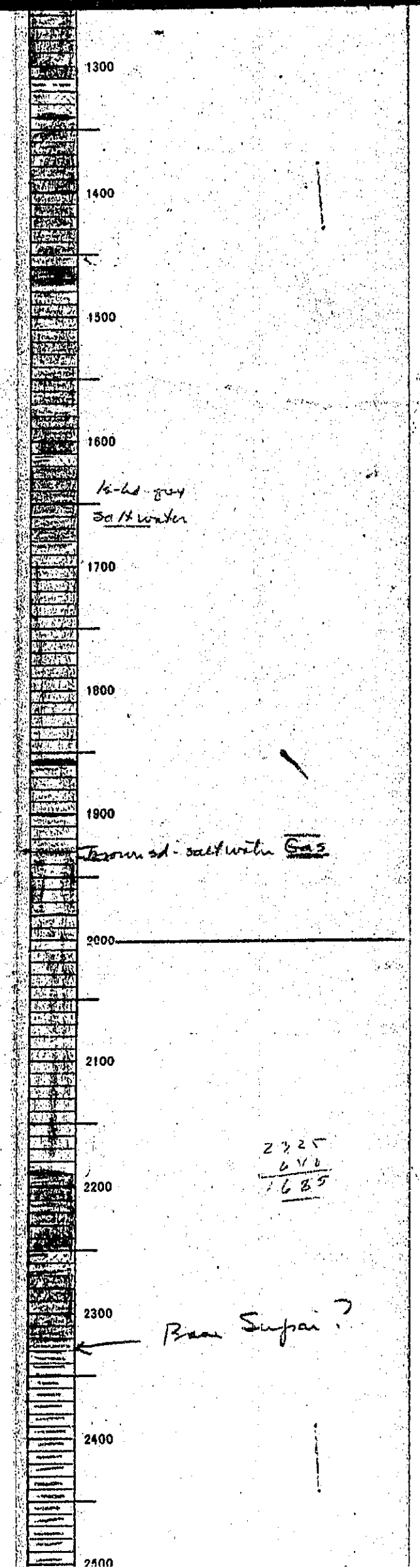
700

800

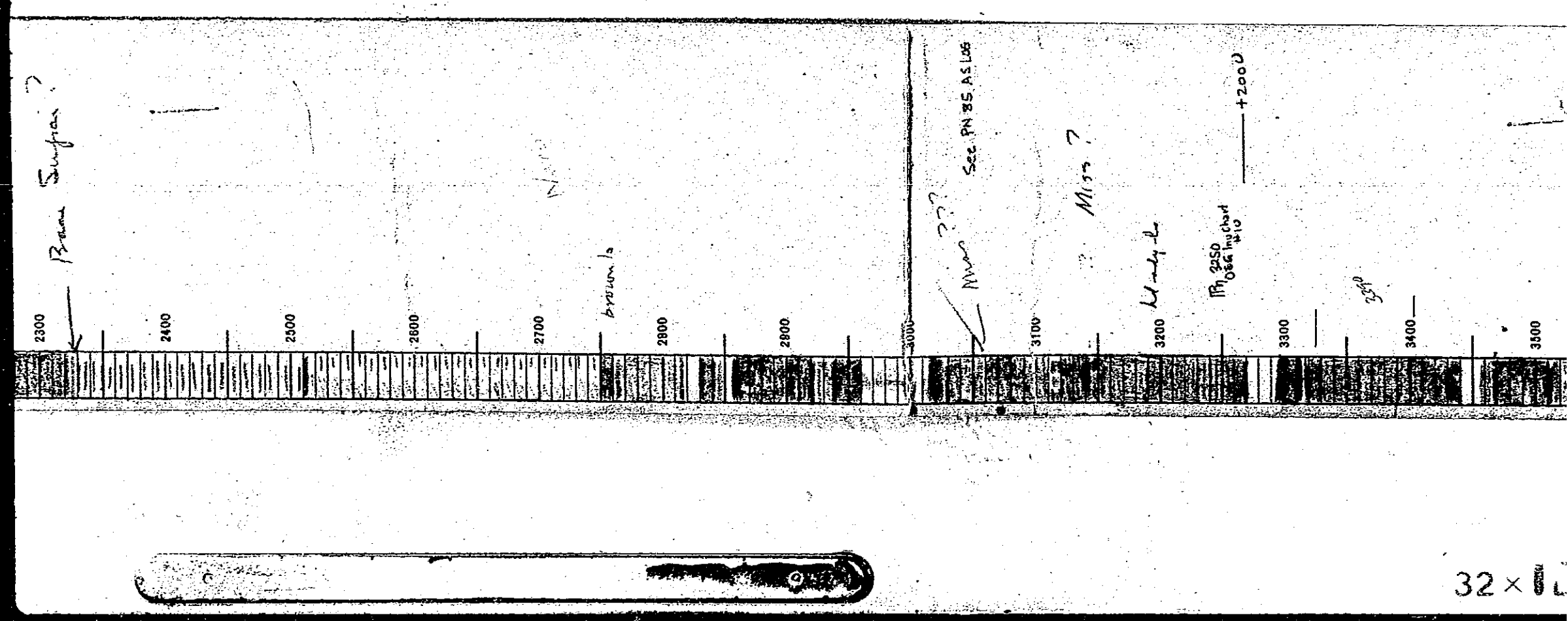


900

32 x


1300
1400
1500
1600
1700
1800
1900
2000
2100
2200
2300
2400
2500
Salt water
Gas
2325
640
1685
Base Supai ?

32 × 1


2300
2400
2500
2600
2700
2800
2900
3000
3100
3200
3300
3400
3500
See PN 85 AS LOG
+2000

Sec. 16 | NAVAJO Co.

T. 17-N | R. 20E

COMPANY

NO.

COMMENCED 19

COMPLETED

REMARKS:

ELEVATION 5270 GR

9-23

Apparently Gt. Basin Oil Co. #1 Taylor-Fuller

4

100

Fresh Water 185-200

" " 220-233

200

Note: See USGS (Well #21) O&G Inv. Chart 10 (A0-326) for better log???

300

CROSS - BEDDED

400

Supai 460 (P)

sh brn

sh brn sdy

500

BOWN SHALE

SAND soft ss ochre

SANDY SHALE

600 HARD SAND brn

SANDY SHALE yellow sdy

ls brn

RED SHALE

700

LIME-SHALE-RED

LIME SHALE, HARD

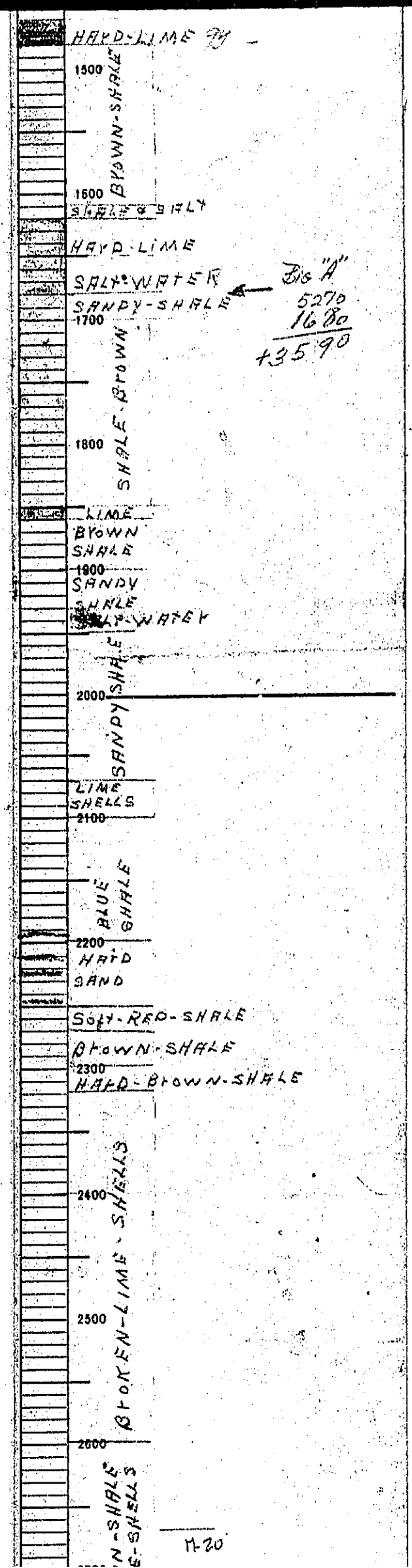
RED SHALE — Top Salt

ROCK-SALT

800

ED-SHALE

32 x


HARD-LIME
1500
BROWN-SHALE
1500
SHALE & MARL
HARD-LIME
SALT-WATER
SANDY-SHALE
Big "A"
5270
16 Bo
+3590
1700
SHALE-BROWN
1800
LIME
BROWN
SHALE
1900
SANDY
SHALE
SALT-WATER
SANDY SHALE
2000
LIME
SHELLS
2100
BLUE SHALE
2200
HARD
SAND
SOFT-RED-SHALE
BROWN-SHALE
2300
HARD-BROWN-SHALE
2400
BROKEN-LIME-SHELLS
2500
2600
N-SHALE
E-SHELLS
N-20

32 × 8

SOFT-RED-SHALE
BROWN-SHALE
2300
HARD-BROWN-SHALE
2400
BROKEN-LIME-SHELLS
2500
2600
BROWN-SHALE
LIME-SHELLS
M-20
2700
LIME
BROWN
SHALE
2800
SANDY-LIME
SANDY-SHALE
GRAY SHLE
BROWN-SHALE
2900
LIME SOFT
BROWN-SHALE
LIME-SANDY
LIME GRAY
SANDY-SHALE
3000
LIME GRAY
SHALE-BROWN
LIME-GRAY-RED-WALL
3100
SHALE-BROWN-SANDY
LIME GRAY
LIME-SANDY
3200
SHALE
BLACK
GRAY
2 3250(+2020)
N200 O&G Inv. Chart 10
3300
LIME-HARD-GRAY-SANDY
SHALE-SOFT-RED
LIME-HARD-GRAY-SANDY
3400
LIME-GRAY
2480
SHALE-BROWN
GRAY-SHALE

May 12, 1949

Mr. Paul F. Catterson
Continental Oil Company
1032 Continental Oil Bldg.
Denver, Colorado

Dear Mr. Catterson:

It has come to my attention that you may be in possession of samples of the Great Basin-Taylor-Fuller well drilled in 1927 in Section 21, Township 17 North, Range 20 East, Navajo County, Arizona.

We have neither samples of the well nor a reliable log, and I would greatly appreciate the loan of these samples so that we may have this information for our files.

Under separate cover I am forwarding you two copies each of a list of the exploratory deep wells drilled in Arizona and a list of the samples available.

Thank you very much for your cooperation in this matter.

Very truly yours,

L. A. Heindl
Geologist

LAH:kb

No permit

32 ×

O. C. WILLIAMS
STATE LAND COMMISSIONER

OFFICE OF
State Land Department
STATE OF ARIZONA
Phoenix, Arizona

November 8, 1943

Mr. Robert L. Bates, Geologist
New Mexico School of Mines
Socorro, New Mexico

Dear Mr. Bates:

In answer to your letter dated October 25, 1943, we are enclosing, hereiwth, Log of Great Basin Oil Company Well near Holbrook, Arizona.

We are having copies made of the other "Log on File" or "Log on File and Plotted" which we will send to you when they are completed.

Very truly yours,

O. C. Williams

O. C. Williams
State Land Commissioner.

bg

enc.

32 × 1

Holbrook Oil Company. The well sunk by this company on the southern flank of the Holbrook monocline, about ten miles northwest of the Adamana hole, in Sec. 23, Township 15 N., Range 18 E, 21 miles southwest of Holbrook, was drilled to a depth of 2,400 feet in 1922.

The Jerome-Navajo Drilling Company. (Organized in 1924 to continue the Holbrook well). This company drilled to a depth of 3,775 feet in 1925. Traces of gas and oil were reported at that depth.

Hopi Oil Company. The well of this company, about half way between the Holbrook and Adamana holes, was carried down 2,500 feet. A few showings of gas were reported. This hole is in Sec. 21, Township 15 N., Range 19 E., about twenty miles southwest of Holbrook. The lower Paleozoic beds were not tested.

Great Basin Oil Company. This company, promoted by E. S. Taylor, sank its well in 1925 and 1926, considerably north of the Holbrook monocline, five miles southwest of Holbrook on a doubtful structure. The hole was carried down to a depth of 4,675 feet, and was drilled to within a few hundred feet of the base of the Paleozoic section. Traces of oil were reported at about 1,700 feet and again from 4,245 to the bottom of the hole.

Conclusion. The Holbrook monoclinal fold is a major structural feature of the region which extends in a southeasterly direction from between Clear and Chevelon creeks, south of the railroad to about eleven miles east of Snowflake, a distance of fifty miles. This structure has been tested only in one limited part, covering a distance on the strike of about 12 miles, and there by only two holes. At the points tested, definite traces of gas and oil were found at various horizons. The results achieved, although disappointing, are, notwithstanding, inconclusive.

ZUNI AREA

In this area, about twenty miles northeast of Holbrook, there exists a very gentle synclinal trough with minor crinklings, a structure not favorable for oil accumulation.

Oil Prospecting: One hole was put down by the *Zuni Oil Company* in Sec. 6, Township 19 N., Range 24 E., 22 miles northeast of Holbrook. The well was drilled over 1,000 feet deep and it was reported that a trace of oil was found at 950 feet. The hole started in Triassic and penetrated only the top Paleozoic sandstones.

LUPTON STRUCTURE

This structure, on the southern end of the Defiance Uplift, is a

Arizona Bureau of Mines Bulletin 130, 1931

RECORD OF ADAMANA BORE HOLE, SEC. 4, T. 14, R. 20, SOUTHWEST OF HOLBROOK, ARIZONA

Feet	Material	Formation
0– 60	Red shale	Moenkopi
60– 80	Limestone, yellow, very sandy	Kaibab
80– 394	Sandstone, yellow	Coconino
394– 439	Shale, white	
439– 549	Sandstone, mostly buff, some reddish	
549– 680	Sandstone, white	
680– 692	"Limestone", hard	Supai
692– 855	Red shale, some gypsum and salt	
855–1040	Shale, brown	
1040–1050	Lime, blue	
1050–1090	Shale, brown, and salt	
1090–1745	Shale, blue and brown, salt	
1745–1950	Limestone, blue	Redwall
1950–2040	Sandstone and salt	
2040–2150	Shale, brown	
2150–2345	Limestone, some shale	

This record was to the end of January, 1921. A year later the depth was 350 feet greater, and soft, brown beds were being penetrated. In February, 1923, the depth was about 3,000 feet and the material was black shale. The Supai formation appears to be about 1,065 feet thick in this hole, but there is some uncertainty as to its lower limit.

RECORD OF HOPI BORING, IN SEC. 21, T. 15 N., R. 19 E., SOUTHWEST OF HOLBROOK, ARIZONA

Feet	Material	Formation
0– 465	Sandstone, hard, cross-bedded, gray to buff	Coconino
465– 625	Sandstone, red	Supai
629– 697	Limestone, sandy, red	
697– 710	Sandstone, gray	
710–1075	Shale, etc., red	
1075–1200	Sandy shale, black	
1200-1725	Sandstone, red, with salt beds, (limestone, 1550–1590 feet)	
1725–1788	Limestone, very hard, black on blue	Redwall
1788–1875	Sandstone	
1875–2175	Red sandstone with salt in upper half	
2175–2355	Limestone, red, sandy, hard	
2355–2400	Sandstone, buff	
2400–2420	Sandy limestone and sandstone, red	

Another record gives red sand and shale 2196 to 2235 feet, lime and shale, 2235 to 2505 feet, and white "lime," 2505 to 2520 feet. Possibly the base of the Supai was at 1725 feet, but red material occurs in underlying strata. 9-23

Early in 1925 the Taylor-Fuller boring penetrated arkosic sandstone 3685-3870 feet, limestone 3870-3994 and red and brown hard sandstone 3994-4112 feet, possibly strata of the Apache group which outcrop on Canyon Creek 60 miles southwest.

Arizona Bureau of Mines Bulletin 119, 1925

The Holbrook boring (No. 1) about three miles west of the Hopi hole is reported to have entered red shale at 511 feet, which continued to 935 feet, interrupted by limestone from 680 to 692 feet and by gypsum at intervals from 692 to 865 feet and some salt from 855 to 935 feet. Apparently there are local salt basins in Permian and Pennsylvanian strata in this region.

The westernmost bore hole, which is at the Black Canyon claim in Section 20, T. 16, R. 17, was sunk 476 feet with diamond drill. The cores were nearly all light colored sandstone (Coconino). Some layers were found to contain considerable calcium carbonate and a few thin layers of shale were penetrated. The mesa at this place is capped by the thin Kaibab limestone, the upper part very sandy. A boring for water at Winslow had reached a depth of 965 feet late in 1924 all in Coconino sandstone below 100 feet. The overlying Kaibab was thin.

The thinning of the Kaibab limestone in the plateau south of Holbrook is an interesting feature which has been described in considerable detail on a previous page. It results in the disappearance of the formation at Holbrook, although its thin edge is well characterized a short distance south of that place and near Winslow and Snowflake. It is absent in the basin northeast of Holbrook and in the Defiance uplift where the Moenkopi formation, and to the northward the Shinarump conglomerate, lies on the Coconino sandstone.

As shown in Plate 52, the dome of the Holbrook region trends northwest and finally flattens out in the monocline southeast of Winslow. It is broad and flat to the southeast along the Little Colorado River, which cuts a canyon across it, mostly with walls of Coconino sandstone, from near Snowflake to Holbrook. Woodruff Butte consists of Moenkopi, Chinle, and Shinarump beds in a shallow basin, capped by basalt (See Pl. 60a.) Possibly the vent from which this latter rock came is in the butte. Just east of Taylor there is a small local dome in which the Coconino sandstone is revealed overlain by yellow sandy Kaibab limestone only a few feet thick.

The Sinks are on the south slope of the large dome, about 10 miles northwest of Snowflake. There are 30 or 40 of them, ranging from a few yards to 100 yards in diameter, in an area about a mile in length, and all near or on the steep dip to the south. Most of them expose sandstone of Coconino aspect (see Pl. 60b), overlain by Kaibab limestone, here 20 or 30 feet thick. Undoubtedly this sandstone is underlain by a limestone member which has been removed in places by solution in underground waters passing into the valley of Dry Lake to the southward.

This latter valley is a syncline filled with Moenkopi formation, as shown in the cross section (Fig. 28), which extends nearly to Chevlon Canyon. In the center of the basin, southwest of the Sinks, are two buttes capped by Shinarump conglomerate.

The Moenkopi extends far up the slopes south of Dry Lake Valley, and on an irregular surface of this formation and in places overlapping on to the Kaibab limestone, is the cap of Upper Cretaceous strata which

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