[redacted]

2-12

WILCOX OIL & GAS SYNDICATE #1 2-12
SE/SE Sec 9-T14S-R25E, Cochise Co.

WILCOX OIL & GAS SYNDICATE #1 2-12
SE/SE Sec 9-T14S-R25E, Cochise Co.

County Cochise

Area ~~Sulphur Springs~~ Valley

Lease No.

Well Name Wilcox Oil & Gas Syndicate # 1

Location SE SE Sec 9 Twp 14S Range 25E Footage est 660 fsl 660 fel

Elev ~~4170~~ 4175 Topo. Survey Gr ✓ KB Spud Date 7-1-25 Completed Abandon 1925 Total Depth ~~2360~~

Contractor: Approx. Cost $

Drilled by Rotary
Cable Tool ✓

Casing Size	Depth	Cement

Production Horizon

Initial Production D&A

REMARKS Show of oil 576-80, 1125-1130, 1370-1410) 1445-60 (Flowing hot water) Show 2340-2360

Drillers Log?

Elec. Logs

Applic to Plug ___ Plugging Record ___ Completion Report ___

Sample Log
Sample Descrip. ✓
Sample Set
Cores

Water well - accepted by

Bond Co. & No.

Bond Am't $ Cancelled Date Organization Report

Filing Receipt Dated Well Book ___ Plat Book ___

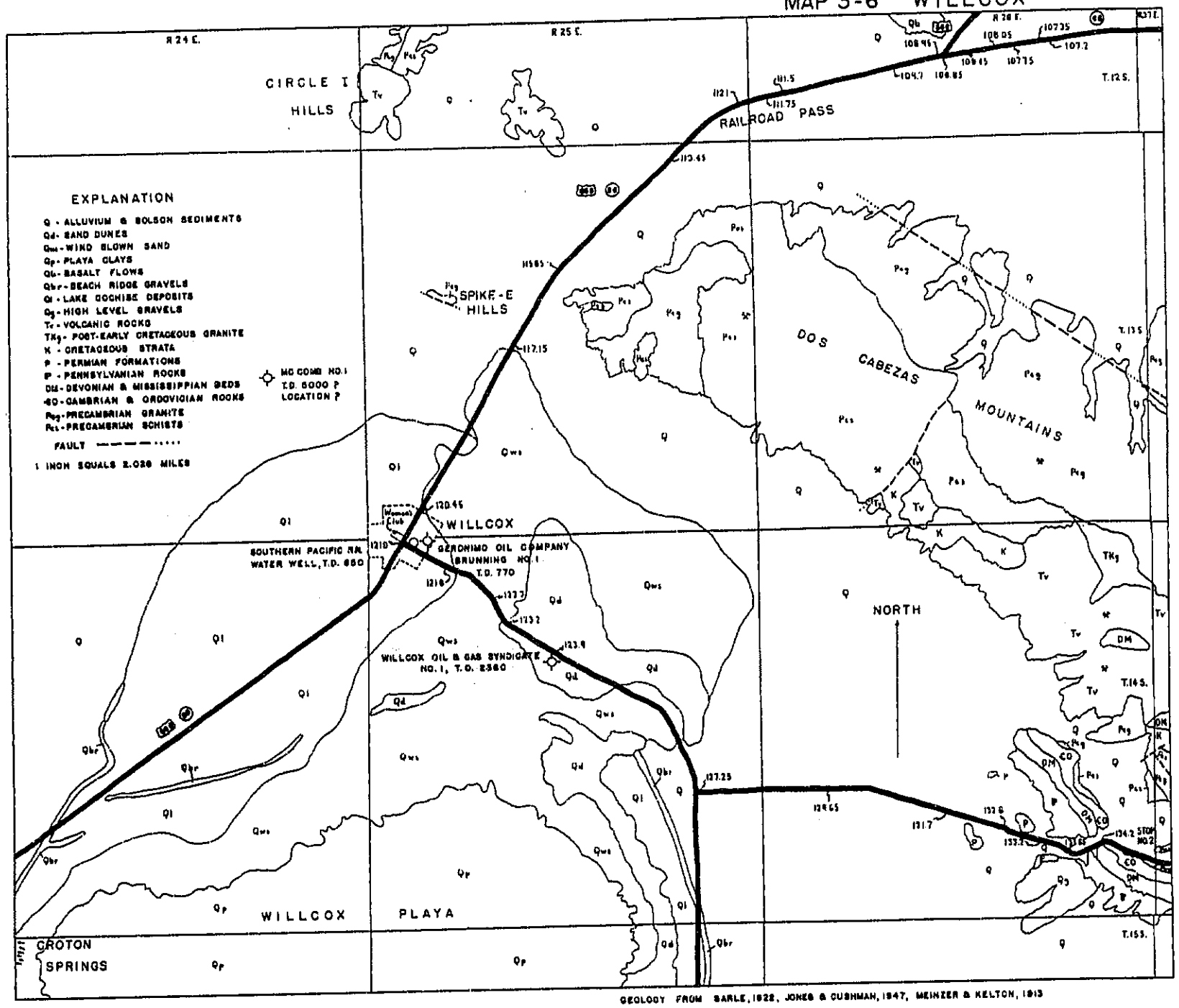
Loc. Plat ___ Dedication

API # 02-003-05019

PERMIT NUMBER None Date Issued

2-12

MAP 3-6 WILLCOX



GEOLOGY FROM BARLE, 1922, JONES & CUSHMAN, 1947, MEINZER & KELTON, 1913

file 2-12

1953

LUNCH STOP: The caravan will stop for lunch in Willcox. Please follow Caravan Chairman's directions. Road log may be picked up at either 121.0 or 121.1 miles.

0.55	121.0	Center of Willcox; intersection of Maley Street and Haskall Avenue. **TURN LEFT.**
0.1	121.1	Cross Southern Pacific Railroad tracks. Caution.
0.7	121.8	Road curves to left. Dos Cabezas Peaks at 11:00 o'clock; Little Dragoon Mountains at 3:00 o'clock; Dragoon Mountains at 4:00 o'clock; Willcox Playa in Sulphur Springs Valley at right. Six oil tests have beed drilled in the vicinity of Willcox, three to more than 2300 feet. The McComb No. 1, 3 miles northeast of Willcox, reportedly drilled more than 5000 feet. Arzberger No. 1, 5½ miles south of the east-west road to Dos Cabezas, bottomed in "Red Lime, shale, and gravel", T.D. 3298 feet. Willcox Oil and Gas Syndicate No. 1, near the road at 12:00 o'clock, bottomed in "red sand and gravel", T.D. 2360 feet. The only "producer" was a water well of the Southern Pacific Railroad, drilled near the station at Willcox to T.D. 650 feet in sand and gravel. The well reportedly sold 2800 gallons of light oil to ranchers in 1928. The Brunning No. 1 of the Geronimo Oil Company, bottomed at 770 feet in consolidated alluvium, northeast of the railroad well, D. & A.
0.9	122.7	Junction; follow black top road to right.
0.5	123.2	Cross-bedded dune sands in road cut. Wind blown sand covers about 32 square miles on the northeast side of Willcox Playa; sand and silt having been blown from the alkali flat by the prevailing southwest winds. As seen along the road, the dunal area is characterized by hills and ridges arranged in a rather chaotic manner and separated by ponds and other undrained depressions. These sand hills were the favored sites of ancient Indian encampments. Many stone relics such as large metates (type of mortar), flint chips, arrowheads, spearheads, and pestles have been found with a white calcareous coating. (Meinzer and Kelton, 1913, p. 16).
0.7	123.9	Site of Willcox Oil and Gas Syndicate No. 1 buried amid dunes at right. Jones and Cushman (1947b, p. 31) listed the drillers log. Based only on this log, if any bedrock was encountered (T.D. 2360) it was probably volcanic rock.

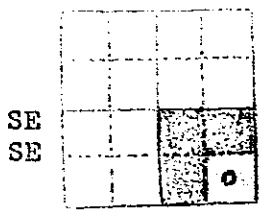
Jones and Cushman (1947b, p. 4-5) have summarized the geologic history of the Willcox Basin area. The oldest rocks exposed in the adjoining mountains are low-grade Precambrian metasedimentary schists, intruded by a batholith of porphyritic granite. The Precambrian rocks were eroded to a relatively level surface, submerged beneath Paleozoic seas, and covered by a series of sandstones, shales, and limestone, predominantly calcareous. At least one period of widespread erosion or of non-deposition occurred during the Paleozoic in Silurian time. The maximum thickness of the Cambrian, Devonian, Carboniferous, and Permian sediments exceeds 5000 feet.

Post-Permian folding, faulting, and igneous intrusion occurred. The rocks were subjected to erosion, and intermediate volcanic rocks were extruded on the tilted Paleozoic strata. Thick deposits of clastic and marine Cretaceous sediments were laid down upon the older rocks.

Following Cretaceous sedimentation, the rocks were folded and faulted, intruded by magmas, and covered by a great thickness of volcanic flows, tuffs, and tuffaceous sediments. The greatest deformation in the region probably occurred after the Tertiary volcanic eruptions, when compressional forces thrust older rocks over younger rocks. Felsite was intruded along some of the fault planes.

Major gravity faulting then occurred along a northwest-southeast trend, causing the down-dropping of the valleys and the uplifting of the mountains. The stratigraphic throw of these faults may have

Sec. 9-14S-25E.



Arizona
Cohise County
Sulphur Springs
Valley.

Well - Wilcox Oil and Gas Syndicate.

0	55	Yellow clay and sand
55	68	Salt water and water sand
68	85	Yellow clay
85	90	Water sand
90	350	Blue clay
350	450	Sticky shale
450	454	Lime shell
454	485	Sticky shale
485	510	Conglomerate
510	515	Yellow shale
515	519	Lime shell
519	560	Red bed and gravel
560	568	Sandy lime
568	576	Red mud
576	580	Lime shell; showing of oil
580	613	Red bed
613	618	Sandy shale
618	621	Lime shell
621	630	Sandy shale
630	635	Hard sand
635	645	Red bed and gravel
645	745	Conglomerate
745	760	Fresh water sand
760	860	Cement gravel
860	870	Red bed
870	896	Cement gravel
896	906	Red bed
906	916	Sandy gravel
916	1025	Conglomerate
1025	1062	Red chalk
1062	1115	Sand and gravel
1115	1125	Water sand
1125	1130	Lime shell; showing of oil
1130	1145	Sandstone
1145	1200	Conglomerate
1200	1210	Yellow clay
1210	1220	Sandstone
1220	1231	Sandy lime
1231	1238	Sandstone
1238	1273	Conglomerate
1273	1282	Sandstone
1282	1290	Sandy lime
1290	1295	Sandstone
1295	1310	Water sand
1310	1335	Conglomerate
1335	134-	Yellow clay and gravel
1340	1350	Lime shell

contd. next page

No permit

Well - Wilcox Oil & Gas, contd.

1350	1360	Yellow clay and gravel
1360	1390	Red sandstone and clay
1390	1410	Hard coarse sand; show of oil
1410	1445	Conglomerate
1445	1460	Quicksand and gravel, flowing hot water; oil show
1460	1475	Brown sand rock
1475	1520	Yellow clay and gravel
1520	1530	Hard, sharp sandstone
1530	1560	Yellow clay and gravel
1560	1575	Hard brown sand
1575	1630	Yellow conglomerate
1630	1645	Pink sand
1645	1650	Yellow clay and gravel
1650	1660	Hard red sand
1660	1665	Yellow clay and gravel
1665	1680	Pink sandstone
1680	1785	Red sand rock
1785	1810	Brown shale and sand
1810	1830	Red sand
1830	1840	Blue and brown shale
1840	1885	Blood-red sandstone
1885	1905	Red water sand
1905	2010	Brown sand
2010	2065	Yellow sand
2065	2070	Red sand
2070	2170	Brown sandstone
2170	2173	Water seepage
2173	2235	Brown sandstone
2235	2250	Sand, gravel; ~~and water~~
2250	2300	Red and brown sandstone
2300	2340	Sand and shale
2340	2360	Red sand and gravel; ~~showing of oil~~
2360		T.D.

No permit

Cochise Co.

Wilcox Oil & Gas Syndicate. SE¼ SE¼ Section 9, T. 14 S., R. 25 E., G. & S. R. M. Drilling commenced July 1, 1925. Operations suspended at 2,360 feet. Well visited April 18, 1928.

Log of Well
(Furnished by Mr. Copening, Bowie, Arizona)

Canfield Report 5-1-28

0 -	55	Yellow clay and sand
55 -	68	Salt water and water sand
68 -	85	Yellow clay
85 -	90	Water sand
90 -	350	Blue clay
350 -	450	Sticky shale
450 -	454	Lime shell
454 -	485	Sticky shale
485 -	510	Conglomerate
510 -	515	Yellow shale
515 -	519	Lime shell
519 -	560	Red bed and gravel
560 -	568	Sandy lime
568 -	574	Red mud
574 -	580	Lime shell - showing oil
580 -	613	Red bed
613 -	618	Sandy shale
618 -	621	Lime shell
621 -	630	Sandy shale
630 -	635	Hard sand
635 -	645	Red bed and gravel
645 -	745	Conglomerate
745 -	760	Fresh water sand
760 -	860	Cement gravel
860 -	870	Red bed
870 -	896	Cement gravel
896 -	906	Red bed
906 -	916	Sandy gravel
916 -	1,025	Conglomerate
1,025 -	1,042	Red chalk
1,042 -	1,115	Sand and gravel
1,115 -	1,125	Water sand
1,125 -	1,130	Lime shell - showing oil
1,130 -	1,145	Sandstone
1,145 -	1,320	& conglomerate

Log of Well (Continued).

1,200 - 1,210	Yellow clay
1,210 - 1,220	Sandstone
1,220 - 1,231	Sandy lime
1,231 - 1,238	Sandstone
1,238 - 1,275	Conglomerate
1,275 - 1,282	Sandstone
1,282 - 1,290	Sandy lime
1,290 - 1,295	Sandstone
1,295 - 1,310	Water sand
1,310 - 1,335	Conglomerate
1,335 - 1,340	Yellow clay and gravel
1,340 - 1,350	Lime shell
1,350 - 1,360	Yellow clay and gravel
1,360 - 1,390	Red sandstone and clay
1,390 - 1,410	Hard coarse sand - show of oil
1,410 - 1,445	Conglomerate
1,445 - 1,460	Quicksand and gravel flowing hot water - oil show
1,460 - 1,475	Brown sand rock
1,475 - 1,520	Yellow clay and gravel
1,520 - 1,530	Hard sharp sandstone
1,530 - 1,560	Yellow clay and gravel
1,560 - 1,575	Hard brown sand
1,575 - 1,630	Yellow conglomerate
1,630 - 1,645	Pink sand
1,645 - 1,650	Yellow clay and gravel
1,650 - 1,660	Hard red sand
1,660 - 1,665	Yellow clay and gravel
1,665 - 1,680	Pink sandstone
1,680 - 1,785	Red sand rock
1,785 - 1,810	Brown shale and sand
1,810 - 1,830	Red sand
1,830 - 1,860	Blue and brown shale
1,860 - 1,885	Blood red sandstone
1,885 - 1,905	Red water sand
1,905 - 2,010	Brown sand
2,010 - 2,055	Yellow sand
2,055 - 2,070	Red sand
2,070 - 2,170	Brown sandstone
2,170 - 2,175	Water seepage
2,175 - 2,225	Brown sandstone
2,225 - 2,250	Sand, gravel, and water
2,250 - 2,300	Red and brown sandstone
2,300 - 2,340	Sand and shale
2,340 - 2,350	Red sand and gravel - showing oil

Well - Willcox Oil and Gas Syndicate se se Sec. 9-14S-25E. Cochise County - Arizona
Sulphur Springs Valley

TD : 2360'

To	From	Formation
0	55	Yellow clay and sand
55	68	Salt water and water sand
68	85	Yellow clay
85	90	Water sand
90	350	Blue clay
350	450	Sticky shale
450	454	Lime shell
454	485	Sticky shale
485	510	Conglomerate
510	515	Yellow shale
515	519	Lime shell
519	560	Red bed and gravel
560	568	Sandy lime
568	576	Red mud
576	580	Lime shell; showing of oil
580	613	Red bed
613	618	Sandy shale
618	621	Lime shell
621	630	Sandy shale
630	635	Hard sand
635	645	Red bed and gravel
645	745	Conglomerate
745	760	Fresh water sand
760	860	Cement gravel
860	870	Red bed
870	896	Cement gravel
896	906	Red bed
906	916	Sandy gravel
916	1025	Conglomerate
1025	1062	Red chalk
1062	1115	Sand and gravel
1115	1125	Water sand
1125	1130	Lime shell; showing of oil
1130	1145	Sandstone
1145	1200	Conglomerate
1200	1210	Yellow clay
1210	1220	Sandstone
1220	1231	Sandy lime
1231	1238	Sandstone
1238	1273	Conglomerate
1273	1282	Sandstone
1282	1290	Sandy lime
1290	1295	Sandstone
1295	1310	Water sand
1310	1335	Conglomerate
1335	1340	Yellow clay and gravel
1340	1350	Lime shell
1350	1360	Yellow clay and gravel
1360	1390	Red sandstone and clay
1390	1410	Hard coarse sand; show of oil
1410	1445	Conglomerate
1445	1460	Quicksand and gravel, flowing hot water; oil show
1460	1475	Brown sand rock
1475	1520	Yellow clay and gravel
1520	1530	Hard, sharp sandstone
1530	1560	Yellow clay and gravel
1560	1575	Hard Brown sand
1575	1630	Yellow conglomerate
1630	1645	Pink sand
1645	1650	Yellow clay and gravel
1650	1660	Hard red sand
1660	1665	Yellow clay and gravel
1665	1680	Pink sandstone
1680	1785	Red sand rock
1785	1810	Brown shale and sand

No permit

Well - Willcox Oil and Gas Syndicate (continued)

To	From	Location
1810	1830	Red sand
1830	1840	Blue and brown shale
1840	1885	Blood-red sandstone
1885	1905	Red water sand
1905	2010	Brown sand
2010	2065	Yellow sand
2065	2070	Red sand
2070	2170	Brown sandstone
2170	2173	Water seepage
2173	2235	Brown sandstone
2235	2250	Sand, gravel; and water
2250	2300	Red and brown sandstone
2300	2340	Sand and shale
2340	2360	Red sand and gravel; showing of oil
2360	Total depth	

No permit

filed alph.

(1925)

WILLCOX OIL AND GAS SYNDICATE

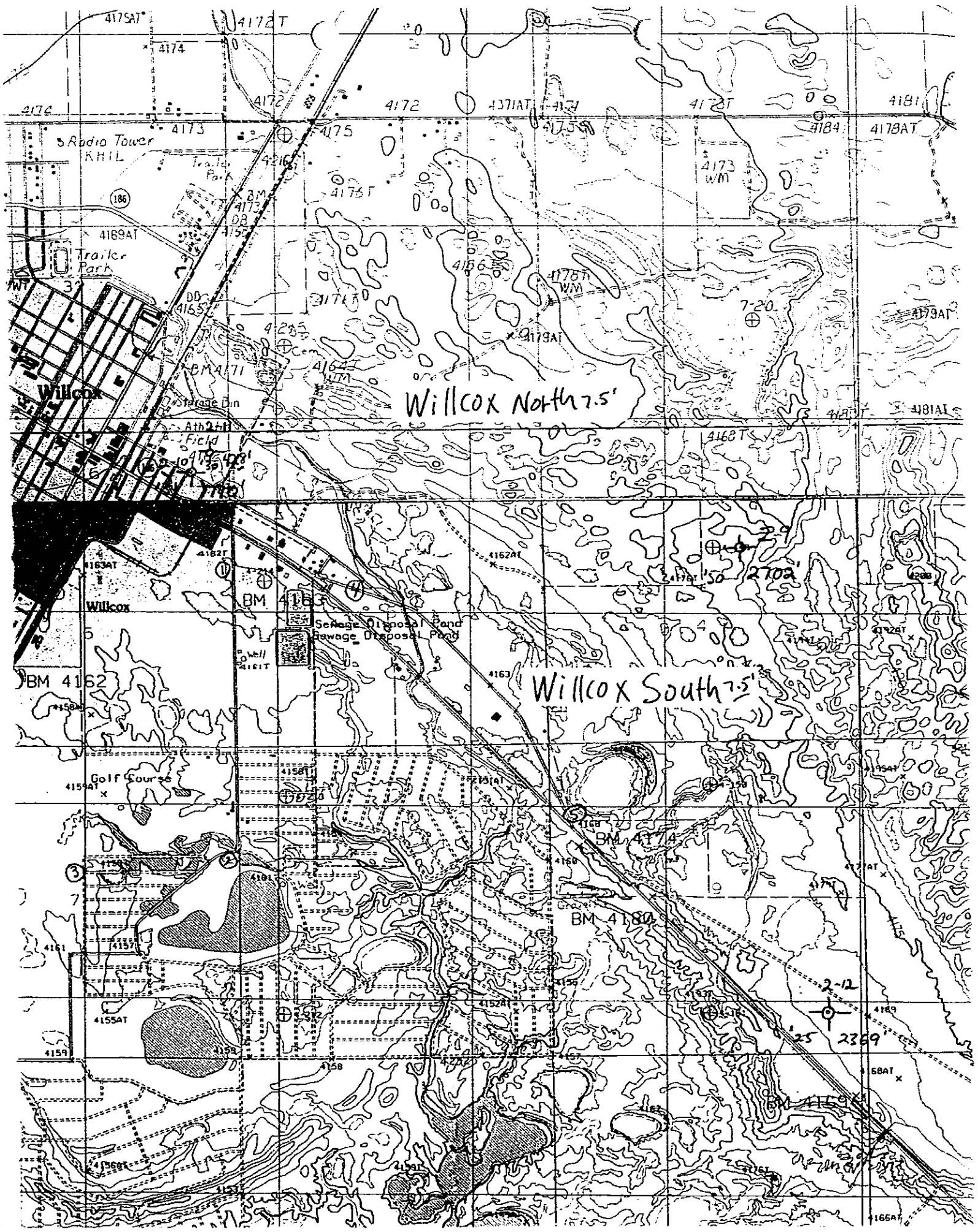
COCHISE COUNTY, ARIZONA
SULPHUR SPRINGS VALLEY

Sec. 9-14S-25E

To	From	Formation
0	55	Yellow clay and sand
55	68	Salt water and water sand
68	85	Yellow clay
85	90	Water sand
90	350	Blue clay
350	450	Sticky shale
450	454	Lime shell
454	485	Sticky shale
485	510	Conglomerate
510	515	Yellow shale
515	519	Lime shell
519	560	Red bed and gravel
560	568	Sandy lime
568	576	Red mud
576	580	Lime shell; showing of oil
580	613	Red bed
613	618	Sandy shale
618	621	Lime shell
621	630	Sandy shale
630	635	Hard sand
635	645	Red bed and gravel
645	745	Conglomerate
745	760	Fresh water sand
760	860	Cement gravel
860	870	Red bed
870	896	Cement gravel
896	906	Red bed
906	916	Sandy gravel
916	1025	Conglomerate
1025	1062	Red chalk
1062	1115	Sand and gravel
1115	1125	Water sand
1125	1130	Lime shell; showing of oil
1130	1145	Sandstone
1145	1200	Conglomerate
1200	1210	Yellow clay
1210	1220	Sandstone
1220	1231	Sandy lime
1231	1238	Sandstone
1238	1273	Conglomerate
1273	1282	Sandstone
1282	1290	Sandy lime
1290	1295	Sandstone
1295	1310	Water sand
1310	1335	Conglomerate
1335	1340	Yellow clay and gravel
1340	1350	Lime shell
1350	1360	Yellow clay and gravel
1360	1390	Red sandstone and clay
1390	1410	Hard coarse sand; show of oil
1410	1445	Conglomerate
1445	1460	Quicksand and gravel, flowing hot water; oil show
1460	1475	Brown sand rock
1475	1520	Yellow clay and gravel
1520	1530	Hard, sharp sandstone
1530	1560	Yellow clay and gravel
1560	1575	Hard Brown sand
1575	1630	Yellow conglomerate
1630	1645	Pink sand
1645	1650	Yellow clay and gravel
1650	1660	Hard red sand
1660	1665	Yellow clay and gravel
1665	1680	Pink sandstone
1680	1785	Red sand rock
1785	1810	Brown shale and sand

WILLCOX OIL AND GAS SYNDICATE COCHISE COUNTY

To	From	Formation
1810	1830	Red sand
1830	1840	Blue and brown shale
1840	1885	Blood-red sandstone
1885	1905	Red water sand
1905	2010	Brown sand
2010	2065	Yellow sand
2065	2070	Red sand
2070	2170	Brown sandstone
2170	2173	Water seepage
2173	2235	Brown sandstone
2235	2250	Sand, gravel; and water
2250	2300	Red and brown sandstone
2300	2340	Sand and shale
2340	2360	Red sand and gravel; showing of oil
2360	Total depth	


Willcox North 7.5'
Willcox South 7.5'
Radio Tower
KHIL
Trailer Park
Storage Bin
Athletic Field
Sewage Disposal Pond
Sewage Disposal Pond
Golf Course
Willcox
BM 4162
BM 4174
BM 4180
BM 4159
2702'
2369'
2-12

WILLCOX OIL AND GAS SYNDICATE

COCHISE COUNTY, ARIZONA
SULPHUR SPRINGS VALLEY

Se Se Sec. 9-14S-25E

To	From	Formation
0	55	Yellow clay and sand
55	68	Salt water and water sand
68	85	Yellow clay
85	90	Water sand
90	350	Blue clay
350	450	Sticky shale
450	454	Lime shell
454	485	Sticky shale
485	510	Conglomerate
510	515	Yellow shale
515	519	Lime shell
519	560	Red bed and gravel
560	568	Sandy lime
568	576	Red mud
576	580	Lime shell; showing of oil
580	613	Red bed
613	618	Sandy shale
618	621	Lime shell
621	630	Sandy shale
630	635	Hard sand
635	645	Red bed and gravel
645	745	Conglomerate
745	760	Fresh water sand
760	860	Cement gravel
860	870	Red bed
870	896	Cement gravel
896	906	Red bed
906	916	Sandy gravel
916	1025	Conglomerate
1025	1062	Red chalk
1062	1115	Sand and gravel
1115	1125	Water sand
1125	1130	Lime shell; showing of oil
1130	1145	Sandstone
1145	1200	Conglomerate
1200	1210	Yellow clay
1210	1220	Sandstone
1220	1231	Sandy lime
1231	1238	Sandstone
1238	1273	Conglomerate
1273	1282	Sandstone
1282	1290	Sandy lime
1290	1295	Sandstone
1295	1310	Water sand
1310	1335	Conglomerate
1335	1340	Yellow clay and gravel
1340	1350	Lime shell
1350	1360	Yellow clay and gravel
1360	1390	Red sandstone and clay
1390	1410	Hard coarse sand; show of oil
1410	1445	Conglomerate
1445	1460	Quicksand and gravel, flowing hot water; oil show
1460	1475	Brown sand rock
1475	1520	Yellow clay and gravel
1520	1530	Hard, sharp sandstone
1530	1560	Yellow clay and gravel
1560	1575	Hard Brown sand
1575	1630	Yellow conglomerate
1630	1645	Pink sand
1645	1650	Yellow clay and gravel
1650	1660	Hard red sand
1660	1665	Yellow clay and gravel
1665	1680	Pink sandstone
1680	1785	Red sand rock
1785	1810	Brown shale and sand

No Form X

WILLCOX OIL AND GAS SYNDICATE COCHISE COUNTY

To	From	Formation
1810	1830	Red sand
1830	1840	Blue and brown shale
1840	1885	Blood-red sandstone
1885	1905	Red water sand
1905	2010	Brown sand
2010	2065	Yellow sand
2065	2070	Red sand
2070	2170	Brown sandstone
2170	2173	Water seepage
2173	2235	Brown sandstone
2235	2250	Sand, gravel; and water
2250	2300	Red and brown sandstone
2300	2340	Sand and shale
2340	2360	Red sand and gravel; showing of oil
2360	Total depth	

WILLCOX OIL AND GAS SYNDICATE

COCHISE COUNTY, ARIZONA
SULPHUR SPRINGS VALLEY

Se se Sec. 9-14S-25E

To	From	Formation
0	55	Yellow clay and sand
55	68	Salt water and water sand
68	85	Yellow clay
85	90	Water sand
90	350	Blue clay
350	450	Sticky shale
450	454	Lime shell
454	485	Sticky shale
485	510	Conglomerate
510	515	Yellow shale
515	519	Lime shell
519	560	Red bed and gravel
560	568	Sandy lime
568	576	Red mud
576	580	Lime shell; showing of oil
580	613	Red bed
613	618	Sandy shale
618	621	Lime shell
621	630	Sandy shale
630	635	Hard sand
635	645	Red bed and gravel
645	745	Conglomerate
745	760	Fresh water sand
760	860	Cement gravel
860	870	Red bed
870	896	Cement gravel
896	906	Red bed
906	916	Sandy gravel
916	1025	Conglomerate
1025	1062	Red chalk
1062	1115	Sand and gravel
1115	1125	Water sand
1125	1130	Lime shell; showing of oil
1130	1145	Sandstone
1145	1200	Conglomerate
1200	1210	Yellow clay
1210	1220	Sandstone
1220	1231	Sandy lime
1231	1238	Sandstone
1238	1273	Conglomerate
1273	1282	Sandstone
1282	1290	Sandy lime
1290	1295	Sandstone
1295	1310	Water sand
1310	1335	Conglomerate
1335	1340	Yellow clay and gravel
1340	1350	Lime shell
1350	1360	Yellow clay and gravel
1360	1390	Red sandstone and clay
1390	1410	Hard coarse sand; show of oil
1410	1445	Conglomerate
1445	1460	Quicksand and gravel, flowing hot water; oil show
1460	1475	Brown sand rock
1475	1520	Yellow clay and gravel
1520	1530	Hard, sharp sandstone
1530	1560	Yellow clay and gravel
1560	1575	Hard Brown sand
1575	1630	Yellow conglomerate
1630	1645	Pink sand
1645	1650	Yellow clay and gravel
1650	1660	Hard red sand
1660	1665	Yellow clay and gravel
1665	1680	Pink sandstone
1680	1785	Red sand rock
1785	1810	Brown shale and sand

WILLCOX OIL AND GAS SYNDICATE COCHISE COUNTY

To	From	Formation
1810	1830	Red sand
1830	1840	Blue and brown shale
1840	1885	Blood-red sandstone
1885	1905	Red water sand
1905	2010	Brown sand
2010	2065	Yellow sand
2065	2070	Red sand
2070	2170	Brown sandstone
2170	2173	Water seepage
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2235	2250	Sand, gravel; and water
2250	2300	Red and brown sandstone
2300	2340	Sand and shale
2340	2360	Red sand and gravel; showing of oil
2360	Total depth	