Funk Benevolent Corp Fee #1 25
SE/4-NE/4 Sec 27-Twp 13S-R 30E
Cochise County No Permit

P-W

SE. NE ¼ | Cochise Co.

T.	R.
13S	30E

Frank San Simon COMPANY

sec. 27- NO.

27 ©

COMMENCED 11-1 19

COMPLETED 19

13 ELEVATION

REMARKS:

3666±

File No. 2-5

#25

Dr. E. D. Wilson reports this location as: 200' from SE Corner of 27-13s-30E-

clay

W

W

W

W Artesian

W

100	
200	
300	
400	
500	
600	
700	
800	
900	
1000	
1100	

SE. NE ¼ | Cochise Co.

T.	R.	
13S	30E	San Simon Farm

COMPANY

sec. 27- NO.

27

COMMENCED 1929 19

COMPLETED 1929 19

REMARKS:

ELEVATION 3666±

#25

Five Wells

Dr. E. D. Wilson reports this location as 200' from SE Corner of 27-13S-30E.

100 W

clay

W

200

300

400

500

600

700 W

W

800

900

1000

W Artesian

1100 W

1200

W - Artesian

1300 W

1400

1500

1600

1700

1800

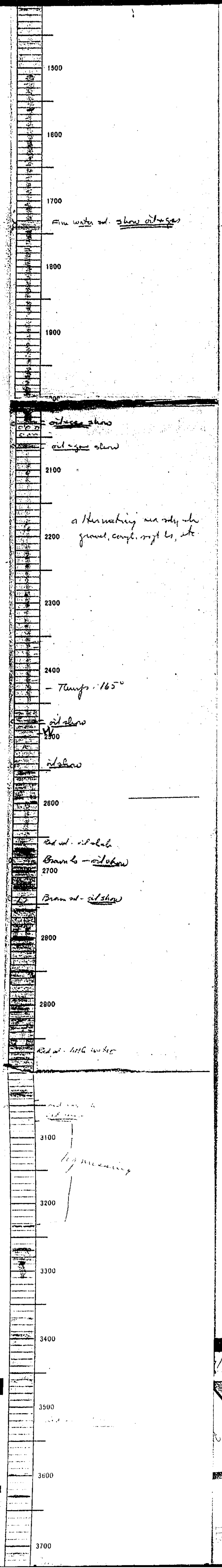
1900

2000

Ari

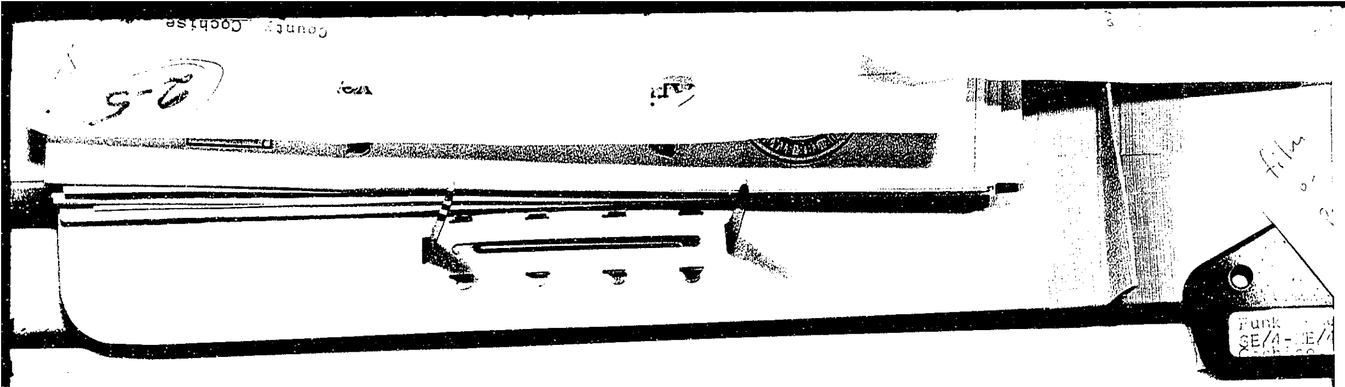
No. 2-5

County Cochise



County Cochise

2-5


Trunk
SE/4 - SE/4

4800
4700
4600
4500
4400
4300
4200
4100
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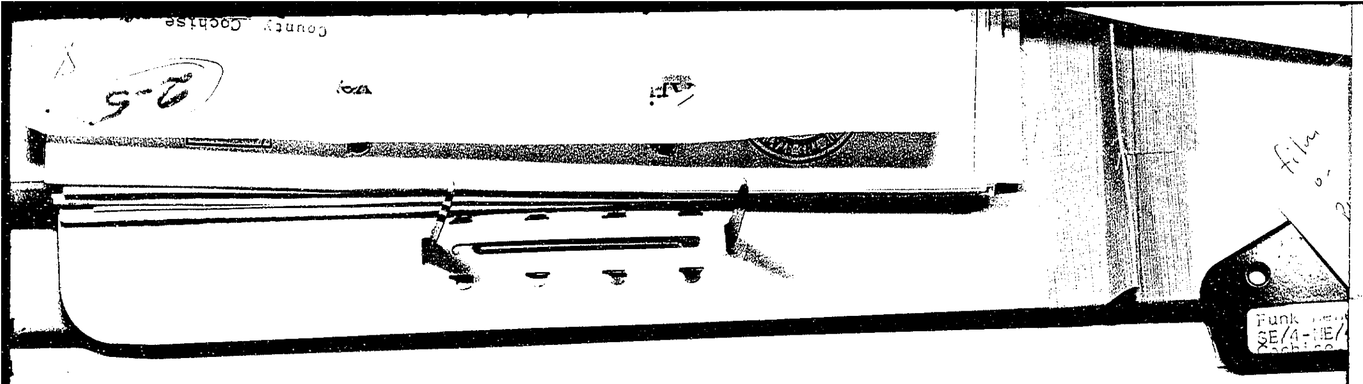
3100
3000
2900
2800
2700
2600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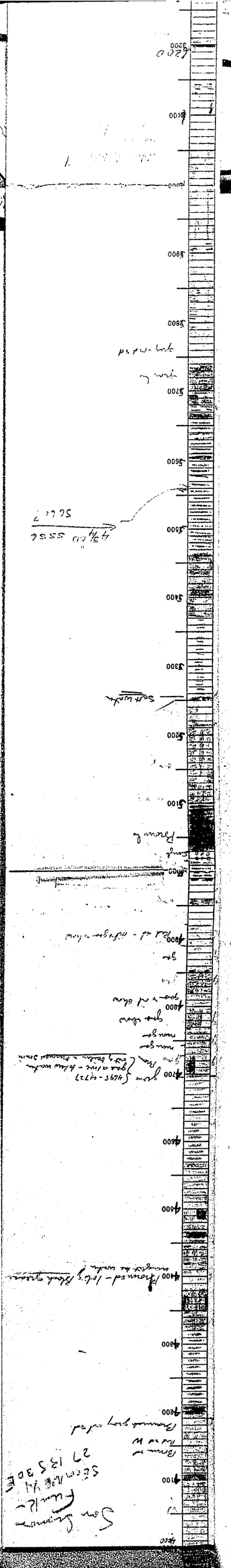
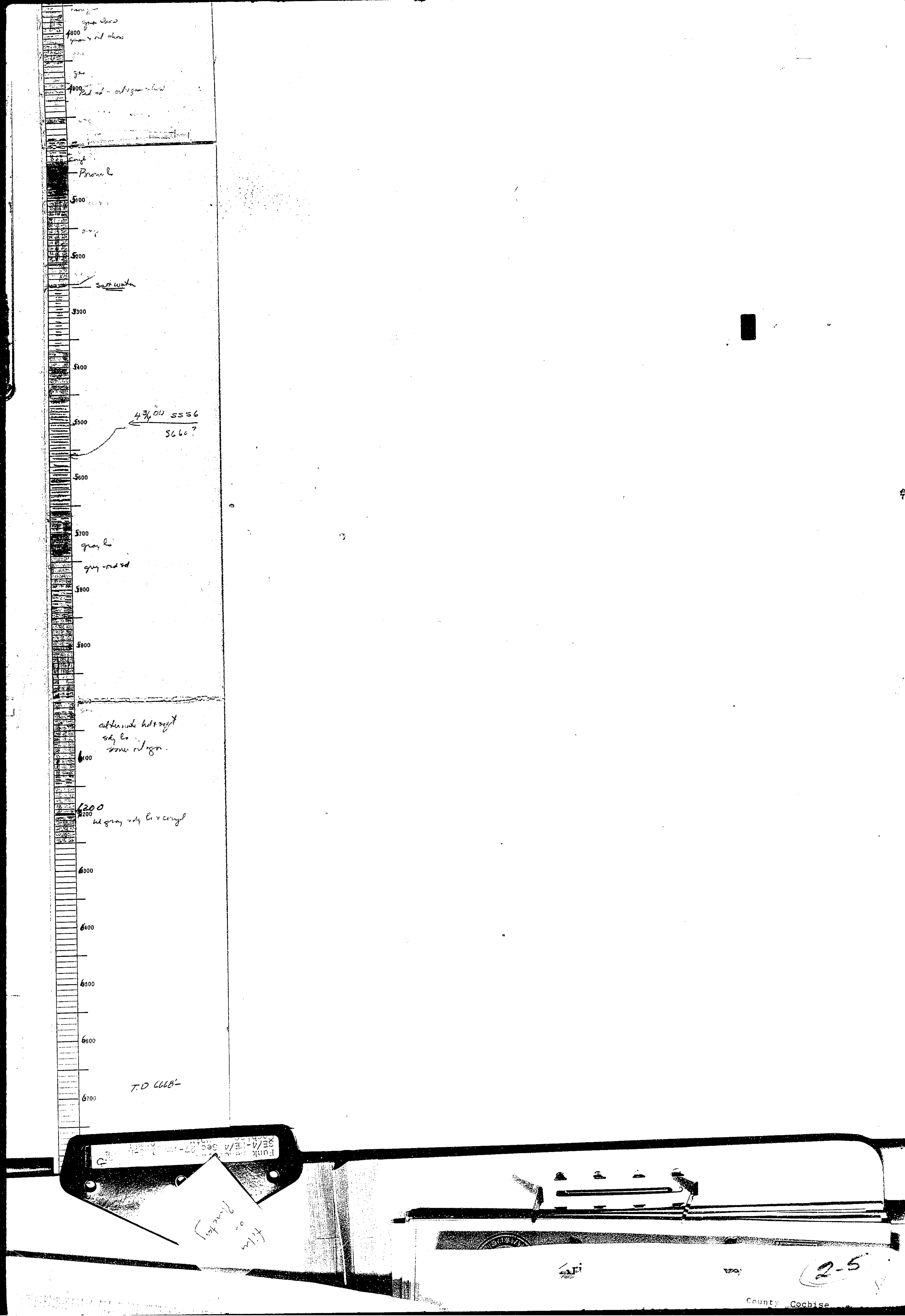
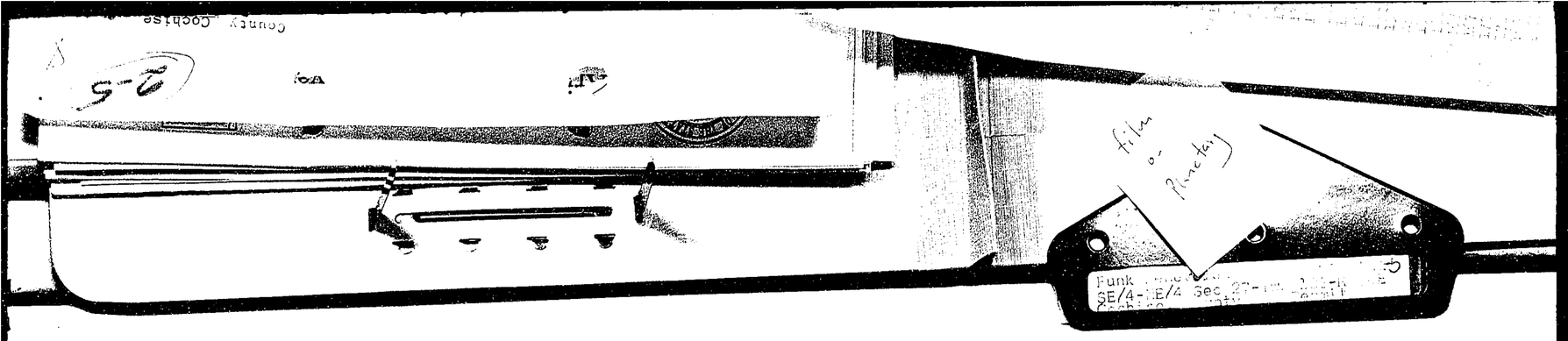
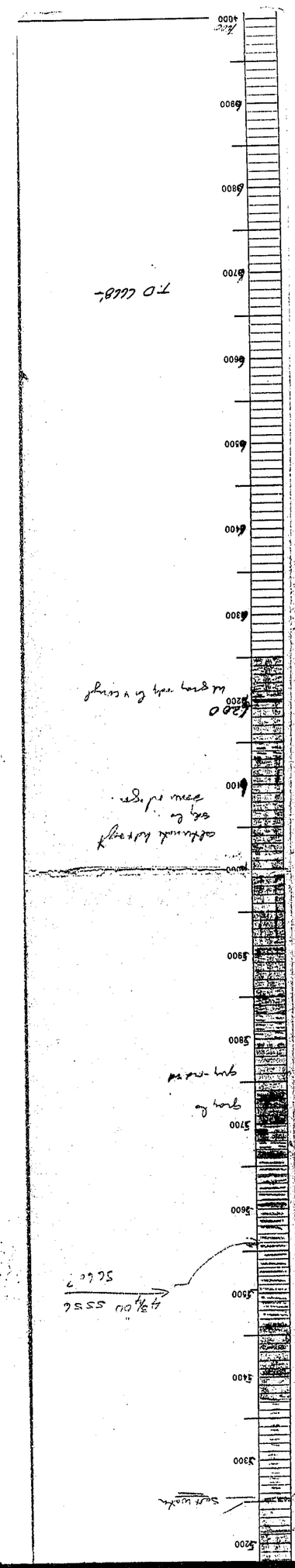



4800
4900 Red sd - ...
Brown l
5100
5200
salt water
5300
5400
5500
4 3/4" OH 5556
5660?
5600
5700
gray l
gray-red sd
5800
5900
6000
alternate hd + soft
sdy ls
some ...
6100
6200
6200
6300
6400
6500
6600
T.D 6668'
6700
Funk
SE/4-NE/4 Sec 27
film or ...
2-5
County Cochise


film
o
Pinetop
Funk
SE/4-NE/4 Sec



Log of FUNK WELL, SAN SIMON, ARIZONA

0	to	95 ft.	clay and gypsum	95 ft.
W95		125	water and gravel	30
125		175	clay and gypsum	50
W175		180	water and gravel	5
180		394	blue clay and shale	214
394		400	yellow clay	6
400		630	blue shale and soapstone	230
630		695	brown shale, possibly little water	65
695		700	water and break	5
W700		710	water sand	10
710		735	light brown shale	25
W735		742	water sand, water filled hole	7
742		767	brown shale	25
767		837	blue soapstone shale	70
837		895	brown shale	56
895		905	light brown shale	10
905		1015	brown shale caved badly	100
W1015		1065	water sand artesian flow	50
1065		1105	strictly red shale	40
W1105		1128	water sand	23
1128		1200	sticky red shale	72
o 1200		1260	red sandy shale with traces of oil	60
W1260		1290	water sand artesian flow 14,000 B.day	30
1290		1305	red clay	15
W1305		1320	water sand, artesian	18
1320		1340	red sandy shale	20
1340		1355	red sticky shale	15
1355		1395	red sandy shale	45
1395		1415	red clay	25
1415		1460	red sandy shale	45
1460		1511	red sticky clay	51
1511		1517	sandy shale	8
1517		1525	brown sandy shale	25
1525		1550	brown shale	25
1550		1598	red shale	48
W1598		1618	water sandy, artesian	20
o 1618		1675	red sandy shale, showing oil.	57
W 1675		1678	water sand	3
1678		1723	red shale	49
o 1723		1747	red sand, considerable oil & gas	24
1747		1830	brown shale mixed	83
1830		1865	red shale caved badly	35
1865		1980	red shale mixed gravel	115
1980		1996	sand carrying some water	16
o 1996		2010	red sand oil colors	14
2010		2014	sand	4
2014		2020	red shale	6
o 2020		2030	red sand heavy oil sand at bottom	10
2030		2033	gravel seemed to carry some water	3
2033		2040	red sandy shale carrying black oil	7
2040		2044	small gravel	4
2044		2052	red shale mixed gravel	8
o 2052		2068	sand last 11 ft. carrying much black oil	16
o 2068		2103	tough hard brown and pink shale oil & gas	35

No permit

8 inch casing set formation shut off, all water 2060 ft., some gas and oil flowing continually from well between 10 & 12 inch casing, from 1720 ft. sand. 10 in. casing cemented at 2026 ft.

****

2103	2130	red shale, some gravel showing some oil and gas	27
2130	2140	red soapstone shale	10
2140	2181	red sandy shale	41
2181	2187	conglomerate shale	6
2187	2232	red sandy shale	45
2232	2244	red sandstone, some shale	12
2244	2284	red shale	40
2284	2285	red sand more oil & gas smell	1
2285	2297	red hard sand, little water traces of oil	12
2297	2310	brown shale oil trace	13
2310	2333	red sticky sandy shale, oil & gas trace	13
2333	2353	red sticky shale, slight water, oil trace	20
2353	2367	bad shale sand conglomerate	14
2367	2370	blue soapstone shale	3
2370	2407	red sand, more oil showing, gas smell	37
2407	2414	brownish red shale, oil & gas trace	7
2414	2424	red oil sand showing more oil & gas	10
2424	2430	sand little water apparently trace gas	6
2430	2460	red sand some shale, hard, oil trace	30
2460	2475	red sand some shale, hard, oil trace	15
2475	2494	red sandstone & shale	19
2494	2532	hard red sandstone	38
2532	2550	red sandy shale, oil & gas showing	18
2550	2595	brown shale " " "	45
2595	2650	hard brown sandy lime	55
2650	2664	red sand slight water " "	14
2664	2673	brown sandy lime oil and gas showing	13
2673	2685	brown shale " " "	12
2685	2692	brown lime " " "	7
2692	2698	brown shale " " "	6
2698	2704	brown lime " " "	6
2704	2730	brown shale " " "	26
2730	2754	brown sandstone " " "	24
2754	2766	brown shale " " "	12
2766	2784	brown shale 8 inch casing set at 2772 feet	18
2784	2798	brown shale, sandy lime, oil & gas show	14
2798	2805	lime " " "	7
2805	2812	brown shale " " "	7
2812	2849	brown lime some shale " " "	37
2849	2851	hard shell " " "	2
2851	2857	brown shandy lime more " " "	6
2857	3061	red sandstone, red lime, shale more oil & gas	104
3061	3065	brown lime showing " "	4
3065	3075	hard red sandy shale " "	10
3075	3077	hard red sandy lime " "	2
3077	3082	hard brown lime " "	5
3082	3090	hard red sandy lime " "	8
3090	3098	hard brown lime " "	8
3098	3100	hard brown sandy lime " "	2

Mapermit

3100	to	3104 ft.	red sandy lime showing oil & gas	4 ft.
3104		3115	red sandy lime more oil & gas	11
3115		3120	" " " " " "	5
3120		3125	red sandy shale " " "	5
3125		3127	" " " " " "	2
3127		3145	" " " " " "	18
3145		3158	brown sandy lime " "	13
3158		3165	hard red sandstone " "	7
3165		3195	" " " " "	30
3195		3215	" " " " "	20
3215		3220	hard red sandy lime " "	5
3220		3224	brown lime showing oil & gas, hard	4
3224		3227	hard light sandy brown lime showing oil & gas	3
3227		3232	" " " " " " " "	5
3232		3236	hard brown lime " " "	4
3236		3240	pink soapstone shale " " "	4
3240		3265	pink sandy shale " " "	25
3265		3285	brown lime shale " " "	20
3285		3310	mixed brown & blue shale " " "	25
3310		3370	red sandy shale " " "	60
3370		3392	brown sandy shale " " "	22
3392		3438	hard gray lime " " "	46
3438		3448	red sandstone " " "	10
3448		3460	brown gray shale " " "	12
3460		3471	hard gray sandy lime heavily saturated	11
3471		3477	red sandstone softer "	6
3477		3488	red sandy lime " "	11
3488		3507	hard red sandy lime " "	19
3507		3547	hard red sandstone " "	40
3547		3572	very tough rubbery brown shale "	25
3572		3586	" " " " " "	14
3586		3815	report mislayed, formation brown shale lime	229
3815		3865	reddish brown shale	50
3865		3872	hard brown lime	7
3872		3879	red sandstone little water break	7
3879		3990	red shale	111
3990		4050	red sandy shale	60
4050		4060	red water sand break	10
4060		4102	hard brown grayish sandy lime	42
4102		4106	brown shale	4
4106		4109	red sandstone	3
4109		4130	light brown sandy shale	21
4130		4152	brown sandstone	22
4152		4160	red sandstone some water	8
4160		4170	red sandy shale ($6\frac{1}{2}$ inch casing set)	10
4170		4195	hard brownish gray sandstone showing oil	25
4195		4207	brown shale	12
4207		4210	hard brown sandstone	3
4210		4325	broken sandstone	115
4325		4500	daily report mislayed	175
4500		4570	light brown sandstone	70
4570		4692	light broken sandstone	122
4692		4700	gray broken sandstone, showing more oil, gas blew slush out of bailer & burned	8

Repermit

4700	4727	brown broken sandstone	27
4727	4743	brown sandstone, gas burns, more gas & oil	16
4743	4765	broken brown sandstone, gas burns	22
4765	4798	red sandy shale, more oil & gas	33
4798	4820	brown sandstone " " "	22
4820	4855	hard brown sandy lime, gas burns	35
4855	4890	reddish brown sandstone, " "	35
4890	4922	red broken sandstone, " "	32
4922	4950	brown mixed shale, caves badly	28
4950	4960	gray sandy lime	10
4960	4986	blue & gray mixed shale gas burns more	26
4986	4990	gray sandy lime broken, some shale, gas burns	4
4990	5016	broken lime shale, mixed, hard to tell, caving in	26

CASING RECORD

SIZE	DEPTH
15"	50-60 ft.
12"	650 ft.
10"	2026 ft. cemented
8"	2772 ft.
6"	4170 ft.
4-3/4	5000 (Out now and drilling with 6")

4-3/4 casing 5187
sluffing place 5483
bottom 5628

No permit

5016 to	5030	shale and conglomerate caved badly	14 feet
5030	5080	light brown lime	50
5080	5093	brown shale	13
5093	5096	hard shell	3
5096	5110	brown and gray sandy lime shale, carrying oil and live gas	14
5110	5126	hard grey sandy lime, showing heavy oil and live gas burned	16
5126	5210	sandy light brown shale carrying oil and live gas	84
5210	5214	sand, heavy oil and gas and burned all live gas	4
5214	5250	sand and shale mixed oil and live gas	36
5250	5255	lime with salt water that raised about 350 ft in hole but in a few days it disappeared as they drilled and bailed	5
5255	5374	broken lime shale	19
5374	5400	sandy lime, some oil and gas	26
5400	5410	brown shale	10
5410	5418	gray lime " " "	8
5418	5432	sandy lime " " "	24
5432	5464	brown shale slaked some	32
5464	5480	gray broken lime carrying oil and live gas	16
5480	5608	gray broken lime " " " "	128
5608	5662	gray broken hard lime carrying some oil and live gas	54
5662	5667	hard gray lime carrying oil and live gas	5
5667	5669	reddish gray sand, heavy oil and live gas & burned	2
5669	5680	gray broekn lime shale " " " "	11
5680	5695	brown lime and shale slaking some, running in	15
5695	5738	gray lime broken a little	43
5738	5780	gray reddish sand mixed showing some oil	42
5780	5795	hard gray sandy lime	15
5795	5830	broken sandy lime shale	35
5830	5852	light brown, sandy lime. April 21st (some harder)	22
5852	5905	hard sandy lime	53
5905	5908	gray water sand with gas and good oil showing	3
5908	5996	hard sandy lime 18 in a day	88
5996	6000	broken streak of shale	4
6000	6012	hard sandy lime 18 in a day	12
6012	6014	broken streak, soft streak of shale carrying some live gas	2
6014	6040	hard brown sandy lime	26
6040	6042	softer, carrying live gas	2
6042	6050	hard sandy lime, one foot a day	8
6050	6052	softer, carrying little live gas and little oil showing	2
6052	6060	hard sandy lime one ft. a day	8
6060	6062	softer streak carrying a little live gas	2
6062	6066	hard sandy lime	4
6066	6068	softer, carrying little live gas	2
6068	6073	hard sandy lime	5
6073	6075	softer with mofe gas and oil showing	2
6075	6085½	hard sandy lime	10½
6085½	6087½	softer, gas burned 2 min. out of bailer	2
6087½	6099½	hard sandy lime	12
6099½	6100½	softer streak, live gas	1
6100½	6135	hard sandy lime	34½

No permit

6135	to	6147	broken formation, shale and lime started coring	12 feet
6147		6184	hard sandy lime and conglomerate	11
6184		6186	hard gray sandy lime, some live gas	2
6186		6197	hard sandy lime and conglomerate	12
6197		6200	brown shale	3
6200		6212	hard sandy lime and conglomerate	12
6212		6214	hard sandy liem, little live gas in core barrel tube	2
6214		6248	hard gray sandy lime, some conglomerate, just started into white fossilized lime with gas increasing	34
6248		6400	hard fossilized sandy lime, showing frequent little leaders of live gas and oil	152
6400		6492	gas would not burn, but more gas foam and more oil showing all hard sandy fossilized sandy lime, and would not blow water out of bailer as before	92
6492		6527	gas ggain became alive and burned strong out of bailer, and blew 15 to 20 ft. of water out of bailer, as above 6400 ft. hard sandy fossilized lime	35
6527		6585	gas would not burn again nor blow out of bailer, hard fossilized lime	58
6585		6643	hard fossilized sandy liem with more frequent streaks of live gas and oil, heavier or more oil and gas	58
6643		6645	quite hard sandy lime, somewhat fossilized	2
6645		6646	heavy gas and oil bearing gas and oil, interlaid with streaks of hard sandy fossilized lime	over a foot
6646 close to		6650	of very heavy gas and oil in porous sandy lime, oil flowing freely, little over	3
6650 to little over		6651	porous sandy formation carrying salty water	1
6651		6668	very hard fossilized lime capping carrying little gas and oil	17

Represent

LOG OF FUNK WELL, SAN SIMON, ARIZONA
27-13S-30E
COCHISE COUNTY

0	95	clay and gypsum
95	125	water and gravel
125	175	clay and gypsum
175	180	water and gravel
180	394	blue clay and shale
394	400	yellow clay
400	630	blue shale and soapstone
630	695	brown shale, possibly little water
695	700	water and break
700	710	water sand
710	735	light brown shale
735	742	water sand, water filled hole
742	767	brown shale
767	837	blue soapstone shale
837	895	brown shale
895	905	light brown shale
905	1015	brown shale caved badly
1015	1065	water sand artesian flow
1065	1105	strictly red shale
1105	1128	water sand
1128	1200	sticky red shale
1200	1260	red sandy shale with traces of oil
1260	1290	water sand artesian flow 14,000 B. day
1290	1305	red clay
1305	1320	water sand, artesian
1320	1340	red sandy shale
1340	1355	red sticky shale
1355	1395	red sandy shale
1395	1415	red clay
1415	1460	red sandy shale
1460	1511	red sticky clay
1511	1517	sandy shale
1517	1525	brown sandy shale
1525	1550	brown shale
1550	1598	red shale
1598	1618	water sandy, artesian
1618	1675	red sandy shale, showing oil
1675	1678	water sand
1678	1723	red shale
1723	1747	red sand, considerable oil & gas
1747	1830	brown shale mixed
1830	1865	red shale caved badly
1865	1980	red shale mixed gravel
1980	1996	sand carrying some water
1996	2010	red sand oil colors
2010	2014	sand
2014	2020	red shale
2020	2030	red sand heavy oil sand at bottom
2030	2033	gravel seemed to carry some water
2033	2040	red sandy shale carrying black oil
2040	2044	small gravel
2044	2052	red shale mixed gravel
2052	2068	sand last 11 ft. carrying much black oil
2068	2103	tough hard brown and pink shale oil & gas

8 inch casing set formation shut off, all water 2080 ft., some gas and oil flowing continually from well between 10 & 12 inch casing, from 1720 ft. sand. 10 in. casing cemented at 2026 ft.

2103	2130	red shale, some gravel showing some oil and gas
2130	2140	red soapstone shale
2140	2181	red sandy shale
2181	2187	conglomerate shale
2187	2232	red sandy shale
2232	2244	red sandstone, some shale
2244	2284	red shale
2284	2285	red sand more oil & gas small
2285	2297	red hard sand, little water traces of oil
2297	2310	brown shale oil trace
2310	2333	red sticky sandy shale, oil & gas trace

FUNK WELL-Sec 27-T13S-R30E
COCHISE COUNTY

LOG OF FUNK WELL, SAN SIMON, ARIZONA COCHISE COUNTY

2333	2353	red sticky shale, slight water, oil trace
2353	2367	red shale sand conglomerate
2367	2370	blue soapstone shale
2370	2407	red sand, more oil showing, gas smell
2407	2414	brownish red shale, oil & gas trace
2414	2424	red oil sand showing more oil and gas
2424	2430	sand little water apparently trace gas
2430	2460	red sand some shale, hard, oil trace
2460	2475	red sand some shale, hard, oil trace
2475	2494	red sandstone & shale
2494	2532	hard red sandstone
2532	2550	red sandy shale, oil & gas showing
2550	2595	brown shale " " "
2595	2650	hard brown sandy lime
2650	2664	red sand slight water " "
2664	2673	brown sandy lime oil and gas showing
2673	2685	brown shale " " "
2685	2692	brown lime " " "
2692	2698	brown shale " " "
2698	2704	brown lime " " "
2704	2730	brown shale " " "
2730	2754	brown sandstone " " "
2754	2766	brown shale " " "
2766	2784	brown shale 8" casing set at 2772'
2784	2798	brown shale, sandy lime, oil & gas show
2798	2805	lime " " "
2805	2812	brown shale " " "
2812	2849	brown lime some shale " " "
2849	2851	hard shell " " "
2851	2857	brown sandy lime more " " "
2857	3061	red sandstone, red lime, shale more oil & gas
3061	3065	brown lime showing " "
3065	3075	hard red sandy shale " "
3075	3077	hard red sandy lime " "
3077	3082	hard brown lime " "
3082	3090	hard red sandy lime " "
3090	3098	hard brown lime " "
3098	3100	hard brown sandy lime " "
3100	3104	red sandy lime showing oil & gas
3104	3115	red sandy lime more oil & gas
3115	3120	" " " " " "
3120	3125	red sandy shale " " "
3125	3127	" " " " " "
3127	3145	" " " " " "
3145	3158	brown sandy lime " "
3158	3165	hard red sandstone " "
3165	3195	" " " " "
3195	3215	" " " " "
3215	3220	hard red sandy lime " "
3220	3224	brown lime showing oil & gas, hard
3224	3227	hard light sandy brown lime showing oil & gas
3227	3232	" " " " " " " " "
3232	3236	hard brown lime " " "
3236	3240	pink soapstone shale " " "
3240	3265	pink sandy shale " " "
3265	3285	brown lime shale " " "
3285	3310	mixed brown & blue shale " " "
3310	3370	red sandy shale " " "
3370	3392	brown sandy shale " " "
3392	3438	hard gray lime " " "
3438	3448	red sandstone " " "
3448	3460	brown gray shale " " "
3460	3471	hard gray sandy lime heavily saturated
3471	3477	red sandstone softer "
3477	3488	red sandy lime " "
3488	3507	hard red sandy lime " "
3507	3547	hard red sandstone " "
3547	3572	very tough rubbery brown shale "
3572	3586	" " " " " "
3586	3815	Report mislayed, formation brown shale lime
3815	3865	reddish brown shale
3865	3872	hard brown lime

LOG OF FUNK WELL, SAN SIMON, ARIZONA COCHISE COUNTY

3872	3879	red sandstone little water break
3879	3990	red shale
3990	4050	red sandy shale
4050	4060	red water sand break
4060	4102	hard brown grayish sandy lime
4102	4106	brown shale
4106	4109	red sandstone
4109	4130	light brown sandy shale
4130	4152	brown sandstone
4152	4160	red sandstone some water
4160	4170	red sandy shale ($6\frac{1}{2}$" casing set)
4170	4195	hard brownish gray sandstone showing oil
4195	4207	brown shale
4207	4210	hard brown sandstone
4210	4325	broken sandstone
4325	4500	daily report mislayed
4500	4570	light brown sandstone
4570	4692	light broken sandstone
4692	4700	gray broken sandstone, showing more oil, gas blew slush out of bailer & burned
4700	4727	brown broken sandstone
4727	4743	brown sandstone, gas burns, more gas & oil
4743	4765	broken brown sandstone, gas burns
4765	4798	red sandy shale, more oil & gas
4798	4820	brown sandstone " " "
4820	4855	hard brown sandy lime, gas burns
4855	4890	reddish brown sandstone " "
4890	4922	red broken sandstone " "
4922	4950	brown mixed shale, caves badly
4950	4960	gray sandy lime
4960	4986	blue & gray mixed shale gas burns more
4986	4990	gray sandy lime broken, some shale, gas burns
4990	5016	broken lime shale, mixed, hard to tell, caving in

CASING RECORD

SIZE	DEPTH
15"	50-60 ft.
12"	650 ft.
10"	2026 ft.
8"	2772 ft.
6"	4170 ft.
4-3/4"	5000 (Out now and drilling with 6")

4-3/4 casing 5187
sluffing place 5483
bottom 5628

5016	5030	shale and conglomerate caved badly
5030	5080	light brown lime
5080	5093	brown shale
5093	5096	hard shell
5096	5110	brown and gray sandy lime shale, carrying oil and live gas
5110	5126	hard grey sandy lime, showing heavy oil and live gas burned
5126	5210	sandy light brown shale carrying oil and live gas
5210	5214	sand, heavy oil and gas and burned all live gas
5214	5250	sand and shale mixed oil and live gas
5250	5255	lime with salt water that raised about 350' in hole but in a few days it disappeared as they drilled and bailed.
5255	5374	broken lime shale
5374	5400	sandy lime, some oil and gas
5400	5410	brown shale
5410	5418	gray lime " " "
5418	5432	sandy lime " " "
5432	5464	brown shale slaked some
5464	5480	gray broken lime carrying oil and live gas
5480	5608	gray broken lime " " " "
5608	5662	gray broken hard lime carrying some oil and live gas

5662	5667	hard gray lime carrying oil and live gas
5667	5669	reddish gray sand, heavy oil and live gas & burned
5669	5680	gray broken lime shale " " " "
5680	5695	brown lime and shale slaking some, running in
5695	5738	gray lime broken a little
5738	5780	gray reddish sand mixed showing some oil
5780	5795	hard gray sandy lime
5795	5830	broken sandy lime shale
5830	5832	light brown, sandy lime. April 21st (some harder)
5852	5905	hard sandy lime
5905	5908	gray water sand with gas and good oil showing
5908	5996	hard sandy lime 18 in a day
5996	6000	broken streak of shale
6000	6012	hard sandy lime 18 in a day
6012	6014	broken streak, soft streak of shale carrying some live gas
6014	6040	hard brown sandy lime
6040	6042	softer, carrying live gas
6042	6050	hard sandy lime, one foot a day
6050	6052	softer, carrying little live gas and little oil showing
6052	6060	hard sandy lime one ft. a day
6060	6062	softer streak carrying a little live gas
6062	6066	hard sandy lime
6066	6068	softer, carrying little live gas
6068	6073	hard sandy lime
6073	6075	softer with more gas and oil showing
6075	6085½	hard sandy lime
6085½	6087½	softer, gas burned 2 min. out of bailer
6087½	6099½	hard sandy lime
6099½	6100½	softer streak, live gas
6100½	6135	hard sandy lime
6135	6147	broken formation, shale and live started coring
6147	6184	hard sandy lime and conglomerate
6184	6186	hard gray sandy lime, some live gas
6186	6197	hard sandy lime and conglomerate
6197	6200	brown shale
6200	6212	hard sandy lime and conglomerate
6212	6214	hard sandy lime, little live gas in core barrel tube
6214	6248	hard gray sandy lime, some conglomerate, just started into white fossilized lime with gas increasing.
6248	6400	hard fossilized sandy lime, showing frequent little leaders of live gas and oil.
6400	6492	gas wouldn't burn, but more gas foam and more oil showing all hard sandy fossilized sandy lime, and would not blow water out of bailer as before.
6492	6527	gas again became alive and burned strong out of bailer, and blew 15 to 20 ft. of water out of bailer, as above 6400 ft. hard sandy fossilized lime.
6527	6585	gas would not burn again nor blow out of bailer, hard fossilized lime.
6585	6643	hard fossilized sandy lime with more frequent streaks of live gas and oil, heavier or more oil and gas.
6643	6645	quite hard sandy lime, somewhat fossilized
6645	6646	heavy gas & oil bearing gas & oil, interlaid with streaks of hard sandy fossilized lime
6646 - close to 6650 -	6650	of very heavy gas and oil in porous sandy lime, oil flowing freely, little over.
little over	6651	porous sandy formation carrying salty water very hard fossilized lime capping carrying little gas & oil.

Funk - Benevolent Corp. #1

Sec. 27, T. 13 S., R. 30 E. (D-13-30)27
Cochise County

by Otis B. Coulson

Depth	Color	Angularity	Composition: Over 2 mm.	Composition: Under 2 mm.	Remarks
3700'	light purplish red	subangular to angular	Felsites, agglomerate with arkosic and quartzose (?) matrix.	None present	Probably alluvial material from volcanic and agglomerate source rocks.
3915	light grayish red	subangular to rounded	Felsites?	Felsites?	do., but no agglomerate source rocks.
4000'	light gray	subangular	Volcanics	Volcanics, quartz.	do.
4020	do.	do., some rounded	do.	do.	do.
4140	do.	subangular	None present	Volcanics, quartz, feldspar.	Probable alluvial material from volcanic source rocks.
4205	do.	do.	do.	do.	do.
4250	do.	do.	do.	do., but more feldspar and finer-grained	do.
4260	do.	do.	do.	Volcanics, quartz, feldspar.	do.
4335	light brownish gray	do.	do.	do., but finer grained	do.
4380	do.	do.	do.	Volcanics, little quartz and feldspar	-

Funk - Benevolent Corp. #1 (Cont.)

Depth	Color	Angularity	Composition		Remarks
			Over 2 mm.	Under 2 mm.	
4365	light gray	subangular	None present	Volcanics, little quartz and feldspar	Probably alluvial material from volcanic source rocks.
4583	light yellow tan	do.	do.	do., little limonite	do.
4750-4760	light gray, pinkish and green	do.	Volcanics	Volcanics, quartz, feldspar, epidote.	do.
4815	light reddish brown	do.	Volcanics	do., little magnetite	do., mostly sand size.
4830	light tan	do.	None present	Volcanics, little quartz.	Probably alluvial material from volcanic source rocks
4878	light brown	do.	do.	do.	do.
4950-4960	light gray	do.	Volcanics, 2-12 mm.	do., little feldspar and epidote.	do.
4965	do.	do.	Volcanics, 2-3 mm.	do.	do., mostly sand size.
4970	do.	do.	do.	do.	do.
5138	do.	do.	None present	do.	All sand size.
5180	do.	do.	Volcanics, 2-5 mm.	do.	Probably alluvial material from volcanic source rocks, mostly sand size.
5375	do.	do.	do., but 2-3 mm.	do.	do.

No permeability

Funk - Benevolent Corp. #1 (Cont.)

Depth	Color	Angularity	Composition Over 2 mm.	Composition Under 2 mm.	Remarks
5390	light gray	subangular	Volcanics, 2-3 mm.	Volcanics, little quartz, little feldspar and epidote.	Probably alluvial material from volcanic source rocks, mostly sand size.
5421	do	do.	do., little admixed caliche	do.	do.
5485	reddish white	do., some rounded	do., but no caliche and size 2-5 mm. Little quartzite	do.	do., but more over 2mm. size, a little quartzite.
5965	light gray	subangular	do., but some caliche and no quartzite, size 2-3 mm.	do.	do., but no quartzite source rocks and mostly sand size.
6212	do.	do.	1 pebble (1¼ in. diameter) volcanic, possibly andesite.	None present.	do., but only 1 pebble 1¼ in diameter
6219	do.	do., almost rounded.	do., but contains limestone	do.	Probably alluvial material from limestone source rocks.
6290	gray	do.	Conglomerate - somewhat rounded with limestone matrix and rounded limestone and quartzite, and volcanic pebbles.	do.	do., but limestone conglomerate source rocks.
6336	light red-brown	subangular	Calcareous, sandy material.	do.	Probably alluvial material from calcareous sandy material.

4/10 pieces K

Funk - Benevolent Corp #1 (Cont.)

Depth	Color	Angularity	Composition		Remarks
			Over 2 mm.	Under 2 mm.	
6435	light reddish gray	Core material.	Volcanics	None present	Questionable whether alluvial or bedrock due to core nature of sample.
6450	light gray	do.	do., calcareous	do.	do.
6460-6462	do.	Core material	Volcanic	None present	Questionable whether bedrock or alluvial due to core nature of sample.
6466-6468	light grayish white	Angular to subangular	Very limy silt material.	Very limy silt material.	Very limy silt material.
6500 on down	light reddish gray	Core samples	Volcanics	None present.	Volcanic core material, possibly a volcanic conglomerate.
6640	do.	do.	do.	do.	do.
6643	light brown	subangular	None present	Mostly quartz, some volcanics and feldspar.	All fine-grained sand size. With chloroform test turns light yellowish-brown
6644-6647	light yellowish brown	do.	Limonitic material.	Limonitic material with much magnetite.	Mostly sand sized material. Probably limonitized volcanic material.
6647	brownish gray	do.	Quartz, probably volcanic material.	Quartz, probably volcanic material, magnetite.	Mostly sand sized, probably volcanic material.
6647-6651	reddish-gray	Core sample	Volcanic, somewhat calcareous	None present.	Volcanic core sample, a volcanic conglomerate probably.
6651	purplish gray	subangular	Volcanics, quartz.	Volcanics.	Probably alluvial material from volcanic source rocks. Sand 50%, pebbles 50%.

No Recovery

Funk - Benevolent Corp. #1 (Cont.)

Depth	Color	Angularity	Composition Over 2 mm.	Composition Under 2 mm.	Remarks
6654	light grey	do. (sub-angular)	Volcanics	volcanics, feldspar, quartz.	Probably alluvial material from volcanic source rocks, mostly sand sized.

2030 - No color change, muddy layer at top.

Upermit

[redacted]

Log of FUNK WELL, SAN SIMON, ARIZONA

S. 2 - T-13 S. R 30 E

0	to 95 ft.	Clay and gypsum	95 ft.
95	125	water and gravel	30
125	175	clay and gypsum	50
175	180	water and gravel	5
180	394	blue clay and shale	214
394	400	yellow clay	6
400	630	blue shale and soapstone	230
630	695	brown shale, possibly little water	65
695	700	water and break	5
700	710	water sand	10
710	735	light brown shale	25
735	742	water sand, water filled hole	7
742	767	brown shale	25
767	837	blue soapstone shale	70
837	895	brown shale	58
895	905	light brown shale	10
905	1015	brown shale caved badly	100
1015	1065	water sand artesian flow	50
1065	1105	strictly red shale	40
1105	1128	water sand	23
1128	1200	sticky red shale	72
1200	1260	red sandy shale with traces of oil	60
1260	1290	water sand artesian flow 14,000 B.day	30
1290	1305	red clay	15
1305	1320	water sand, artesian	18
1320	1340	red sandy shale	20
1340	1355	red sticky shale	15
1355	1395	red sandy shale	45
1395	1415	red clay	25
1415	1460	red sandy shale	45
1460	1511	red sticky clay	51
1511	1517	sandy shale	8
1517	1525	brown sandy shale	25
1525	1550	brown shale	25
1550	1598	red shale	48
1598	1618	water sandy, artesian	20
1618	1675	red sandy shale, showing oil	57
1675	1678	water sand	3
1678	1723	red shale	49
1723	1747	red sand, considerable oil & gas	24
1747	1830	brown shale mixed	83
1830	1865	red shale caved badly	35
1865	1980	red shale mixed gravel	115
1980	1996	sand carrying some water	16
1996	2010	red sand oil colors	14
2010	2014	sand	4
2014	2020	red shale	6
2020	2030	red sand heavy oil sand at bottom	10
2030	2033	gravel seemed to carry some water	3
2033	2040	red sandy shale carrying black oil	7
2040	2044	small gravel	4
2044	2052	red shale mixed gravel	8
2052	2068	sand last 11 ft. carrying much black oil	16
2068	2103	tough hard brown and pink shale oil & gas	35

No permit

8 inch casing set formation shut off, all water 2080 ft., some gas and oil flowing continually from well between 10 & 12 inch casing, from 1720 ft, sand. 10 inc. casing cemented at 2026 ft.

****

2103	2130	red shale, some gravel showing some oil and gas	27
2130	2140	red soapstone shale	10
2140	2181	red sandy shale	41
2181	2187	conglomerate shale	6
2187	2232	red sandy shale	45
2232	2244	red snadstone, some shale	12
2244	2284	red shale	40
2284	2285	red sand more oil & gas smell	1
2285	2297	red hard sand, little water traces of oil	12
2297	2310	brown shale oil trace	13
2310	2333	red sticky sandy shale, oil & gas trace	13
2333	2353	red sticky shale, slight water, oil trace	20
2353	2367	red shale sand conglomerate	14
2367	2370	blue soapstone shale	3
2370	2407	red sand, more oil showing, gas smell	37
2407	2414	brownish red shale, oil & gas trace	7
2414	2424	red oil sand showing more oil & gas	10
2424	2430	sand little water apparently trace gas	6
2430	2460	red sand some shale, hard, oil trace	30
2460	2475	red sand some shale, hard, oil trace	15
2475	2494	red sandstone & shale	19
2494	2532	hard red sandstone	38
2532	2550	red sandy shale, oil & gas showing	18
2550	2595	brown shale " " "	45
2595	2650	hard brown sandy lime	55
2650	2664	red sand slight water " "	14
2664	2673	brown sandy lime oil and gas showing	13
2673	2685	brown shale " " "	12
2685	2692	brown lime " " "	7
2692	2698	brown shale " " "	6
2698	2704	brown lime " " "	6
2704	2730	brown shale " " "	26
2730	2754	brown sandstone " " "	24
2754	2766	brown shale " " "	12
2766	2784	brown shale 8 inch casing set at 2772 feet	18
2784	2798	brown shale, sandy lime, oil & gas show	14
2798	2805	lime " " "	7
2805	2812	brown shale " " "	7
2812	2849	brown lime some shale " " "	37
2849	2851	hard shell " " "	2
2851	2857	brown sandy lime more " " "	6
2857	3061	red sandstone, red lime, shale more oil & gas	104
3061	3065	brown lime showing " "	4
3065	3075	hard red sandy shale " "	10
3075	3077	hard red sandy lime " "	2
3077	3082	hard brown lime " "	5
3082	3090	hard red sandy lime " "	8
3090	3098	hard brown lime " "	8
3098	3100	hard brown sandy lime " "	2

[redacted]

the permit

3100	3104	red sandy lime showing oil & gas	4 ft.
3104	3115	red sandy lime more oil & gas	11
3115	3120	" " " " " " "	5
3120	3125	red sandy shale " " "	5
3125	3127	" " " " " "	2
3127	3145	" " " " " "	18
3145	3158	brown sandy lime " "	13
3158	3165	hard red sandstone " "	7
3165	3195	" " " " "	30
3195	3215	" " " " "	20
3215	3220	hard red sandy lime " "	5
3220	3224	brown lime showing oil & gas, hard	4
3224	3227	hard light sandy brown lime showing oil & gas	3
3227	3232	" " " " " " " "	5
3232	3236	hard brown lime " " "	4
3236	3240	pink soapstone shale " " "	4
3240	3265	pink sandy shale " " "	25
3265	3285	brown lime shale " " "	20
3285	3310	mixed brown & blue shale " " "	25
3310	3370	red sandy shale " " "	60
3370	3392	brown sandy shale " " "	22
3392	3438	hard gray lime " " "	46
3438	3448	red sandstone " " "	10
3448	3460	brown grey shale " " "	12
3460	3471	hard gray sandy lime heavily saturated	11
3471	3477	red sandstone softer "	6
3477	3488	red sandy lime " "	11
3488	3507	hard red sandy lime " "	19
3507	3547	hard red sandstone " "	40
3547	3572	very tough rubbery brown shale "	25
3572	3586	" " " " " "	14
3586	3815	report mislayed, formation brown shale lime	229
3815	3865	reddish brown shale	50
3865	3872	hard brown lime	7
3872	3879	red sandstone little water break	7
3879	3990	red shale	111
3990	4050	red sandy shale	60
4050	4060	red water sand break	10
4060	4102	hard brown grayish sandy lime	42
4102	4106	brown shale	4
4106	4109	red sandstone	3
4109	4130	light brown sandy shale	21
4130	4152	brown sandstone	22
4152	4160	red sandstone some water	8
4160	4170	red sandy shale ($6\frac{1}{2}$ inch casing set)	10
4170	4195	hard brownish gray sandstone showing oil	25
4195	4207	brown shale	12
4207	4210	hard brown sandstone	3
4210	4325	broken sandstone	115
4325	4500	daily report mislayed	175
4500	4570	light brown sandstone	70
4570	4692	light broken sandstone	122
4692	4700	gray broken sandstone, showing more oil, gas blew slush out of bailer & burned	8

Use permit

4700	4727	brown broken sandstone	27
4727	4743	brown sandstone, gas burns, more gas & oil	16
4743	4765	broken brown sandstone, gas burns	22
4765	4798	red sandy shale, more oil & gas	33
4798	4820	brown sandstone " " "	22
4820	4855	hard brown sandy lime, gas burns	35
4855	4890	reddish brown sandstone " "	35
4890	4922	red broken sandstone " "	32
4922	4950	brown mixed shale, caves badly	28
4950	4960	gray sandy lime	10
4960	4986	blue & gray mixed shale gas burns more	26
4986	4990	gray sandy lime broken, some shale, gas burns	4
4990	5016	broken lime shale, mixed, hard to tell, caving in	26

CASING RECORD

SIZE	DEPTH
15"	50-60 ft.
12"	650 ft.
10"	2026 ft. cemented
8"	2772 ft.
6"	4170 ft.
4-3/4"	5000 (Out now and drilling with 6")

4-3/4 casing 5187
sluffing place 5483
bottom 5628

Upe permit

5016	5030	shale and conglomerate caved badly	14 feet
5030	5080	light brown lime	50
5080	5093	brown shale	13
5093	5096	hard shell.	3
5096	5110	brown and gray sandy lime shale, carrying oil and live gas	14
5110	5126	hard grey sandy lime, showing heavy oil and live gas burned	16
5126	5210	sandy light brown shale carrying oil and live gas	84
5210	5214	sand, heavy oil and gas and burned all live gas	4
5214	5250	sand and shale mixed oil and live gas	36
5250	5255	lime with salt water that raised about 350 ft. in hole but in a few days it disappeared as they drilled and bailed	5
5255	5374	broken lime shale	19
5374	5400	sandy lime, some oil and gas	26
5400	5410	brown shale	10
5410	5418	gray lime " " "	8
5418	5432	sandy lime " " "	24
5432	5464	brown shale slaked some	32
5464	5480	gray broken lime carrying oil and live gas	16
5480	5608	gray broken lime " " " "	128
5608	5662	gray broken hard lime carrying some oil and live gas	54
5662	5667	hard gray lime carrying oil and live gas	5
5667	5669	reddish gray sand, heavy oil and live gas & burned	2
5669	5680	gray broken lime shale " " " "	11
5680	5695	brown lime and shale slaking some, running in	15
5695	5738	gray lime broken a little	43
5738	5780	gray reddish sand mixed showing some oil	42
5780	5795	hard gray sandy lime	15
5795	5830	broken sandy lime shale	35
5830	5852	light brown, sandy lime. April 21 (some harder)	22
5852	5905	hard sandy lime	53
5905	5908	gray water sand with gas and good oil showing	3
5908	5996	hard sandy lime 18 in a day	88
5996	6000	broken streak of shale	4
6000	6012	hard sandy lime 18 in a day	12
6012	6014	broken streak, soft streak of shale carrying some live gas	2
6014	6040	hard brown sandy lime	26
6040	6042	softer, carrying live gas	2
6042	6050	hard sandy lime, one foot a day	8
6050	6052	softer, carrying little live gas and little oil showing	2
6052	6060	hard sandy lime one ft. a day	8
6060	6062	softer streak carrying a little live gas	2
6062	6066	hard sandy lime	4
6066	6068	softer, carrying little live gas	2
6068	6073	hard sandy lime	5
6073	6075	softer with more gas and oil showing	2
6075	6085½	hard sandy lime	10½
6085½	6087½	softer, gas burned 2 min. out of bailer	2
6087½	6099½	hard sandy lime	12
6099½	6100½	softer streak, live gas	1
6100½	6135	hard sandy lime	34½

the permit

6135	6147	broken formation, shale and lime started coring	12 feet
6147	6184	hard sandy lime and conglomerate	11
6184	6186	hard gray sandy lime, some live gas	2
6186	6197	hard sandy lime and conglomerate	12
6197	6200	brown shale	3
6200	6212	hard sandy lime and conglomerate	12
6212	6214	hard sandy lime, little live gas in core barrel tube	2
6214	6248	hard gray sandy lime, some conglomerate, just started into white fossilized lime with gas increasing	34
6248	6400	hard fossilized sandy lime, showing frequent little leaders of live gas and oil	152
6400	6492	gas would not burn, but more gas foam and more oil showing all hard sandy fossilized sandy lime, and would not blow water out of bailer as before	92
6492	6527	gas again became alive and burned strong out of bailer, and blew 15 to 20 ft. of water out of bailer, as above 6400 ft. hard sandy fossilized lime	35
6527	6585	gas would not burn again nor blow out of bailer, hard fossilized lime	58
6585	6643	hard fossilized sandy lime with more frequent streaks of live gas and oil, heavier or more oil and gas	58
6643	6645	quite hard sandy lime, somewhat fossilized	2
6645	6646	heavy gas and oil bearing gas and oil, interlaid with streaks of hard sandy fossilized lime	over a foot
6646 close to 6650		of very heavy gas and oil in porous sandy lime, oil flowing freely, a little over	3
little over 6651		porous sandy formation carrying salty water	1
6651	6668	very hard fossilized lime capping carrying little gas and oil	17

No permit

~~22~~ 22

S. W. FUNK

OIL WELL DRILLED BY S. W. FUNK, No. 1, Torrance Ranch,
SE Cor. NE¼, Sec. 27, Tp.13 S., R.30 E.

1511	to	1517	Brown shale.
1517		1525	Sandy shale.
1525		1550	Brown shale.
1550		1598	Red shale
1598		1618	Water, sand, small.
1618		1675	Red Sandy shale, oil show.
1675		1678	Water sand, small.
1678		1723	Red. shale.
1723		1727	Redsand, heavy oil show.
1727		1747	Sticky red shale.
1747		1830	Brown shale, mixed.
1830		1865	Red shale, caving bad.
1865		1980	Red sticky shale, gravel.
1980		1990	Hard conglomerate.
1990		1996	Water sand.
1996		2010	Red sand.
2010		2014	Sand.
2014		2020	Red shale.
2020		2030	Red shale, oil show.
2030		2052	Water sand, gravel, big artesian. could not lower with 8" swab.
2052		2057	Red Shale.
2057		2068	Reddish gray sand, black oil show.
2068		2070	Red shale.
2070		2077	Red sandy shale.
2077		2081	Red shale, gravel conglomerate.
2081		2083	Pink lime.
2083		2092	Brown shale, gravel, mixed.
2092		2130	Red sandy shale.
2130		2140	Red soapstone shale.
2140		2181	Red sandy shale.
2181		2187	Shale conglomerate.
2187		2232	Red shale, sand, gravel.
2232		2244	Red sand, some shale.
2244		2282	Red Shale.
2284		2285	Red sand, show oil.
2285		2297	Red sand, little water.
2297		2310	Brown shale.
2310		2333	Red chalky sand.
2333		2353	Sand, little water.
2353		2367	Red shale, mixed sand gravel.
2367		2370	Blue soapstone shale.
2370		2407	Sand, oil showing.
2407		2414	Brown and red shale.
2414		2424	Red sand, oil show.
2424		2430	Sand, some water.
2430		2475	Red sandy shale
2475		2480	Red sand, oil show.
2480		2494	Red sand.
2494		2532	Hard red sand stone.
2532		2550	Red sandy shale, oil show.
2550		2595	Brown shale.
2595		2650	Hard brown sandy lime.
2650		2664	Red water sand, oil show.
2664		2673	Brown sandy lime, oil show.
2673		2685	Brown shale.
2685		2692	Brown lime oil show.
2692		2698	Brown shale.
2698		2704	Brown lime.
2704		2730	Brown shale.
2730		2754	Brown sand, oil show.
2754		2784	Brown shale.
2784		2798	Brown sandy shale.
2798		2805	Brown lime.
2805		2812	Brown shale.
2812		2849	Brown lime, some shale, little water.
2849		2851	Hard brown shall.
2851		2857	Brown sandy shale, Good oil show.

No permit

2857 to	2912	Brown shale, lime and sand.
2912	2925	Light brown broken shale.
2925	2935	Brown sandy lime.
2935	2950	Brown sandy shale.
2950	2962	Hard light brown sandy lime.
2962	2964	Brown shale.
2964	2975	Red sand, little water.
2975	3023	Brown sandy lime.
3023	3030	Red shale.
3030	3038	Hard brown lime.
3038	3041	Pink soapstone shale.
3041	3075	Red sandy shale, oil show.
3075	3077	Hard red sandy lime.
3077	3120	Red Sandy lime, oil show.
3120	3125	Red sandy shale.
3125	3127	Red Sand, good oil show.
3127	3145	Red water sand, oil and gas show.
3145	3215	Hard red sandstone.
3215	3220	Hard red sandy lime.
3220	3224	Brown lime.
3224	3232	Hard light brown sandy lime, gas and oil show.
		Log from 3232 to 4414 missing.
4414	4448	Dark brown sand "wet" shows lots of black grease.
4448	4455	Sand, but softer.
4455	4464	Brown sandy shale.

October 13, 1931, under reaming from 4035 to 4170 to shut off last water with 6 5/8 inch casing.

no permit (2-3)

2-5

County Cochise

Area San Simon

Lease No.

Well Name Funk Benevolent Corp. Fee #1

Location SE SE NE Sec 27 Twp 13S Range 30E Footage 2450 fnl 330 fel ~~2450 FSL 330 FEL~~

Elev ±3600 Gr ____ KB Spud Date ____ Completed Abandon 1939 Total Depth 6668

USGS Bowie 15' topo

Contractor

Casing Size	Depth	Cement

Drilled by Rotary ____
Cable Tool ____

Production Horizon ____

Initial Production D & A

REMARKS

Elec Logs ____

Applic. to Plug ___ Plugging Record ___ Completion Report ___

Sample Log ____
Sample Descript. X
Sample Set I-26
Core Analysis ____
DSTs ____

Water well accepted by

Bond Co. & No.

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

Filing Receipt ____ Dated ____ Well Book ___ Plat Book ___

API No. 02-003-05010 Loc. Plat ___ Dedication ____

Permit Number None Date Issued ____

2-5

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

June 3, 1996

Mr. John P. Wilson
1109 Skyway
Las Cruces, New Mexico 88001-4016

file 2-5

Dear John:

Thank you for sending the several newspaper quotes on early drilling activity in San Simon Valley. I'm not familiar with the "oil affinity instrument" mentioned in the articles. A seismograph instrument measures and records the travel time of sound waves through the earth, sourced either by dynamite or vibroseis at the surface. The descriptions in the accounts do not make it entirely clear if the "Trumbull Seismograph" was a true seismograph instrument in this sense, or something else, like maybe a witching stick?!

You may find information on old drilling equipment by contacting a museum in a drilling town. The Oil Museum in Midland, Texas, has several of the old rigs rigged up, and it may be a good source. Maybe the museum in oil towns like Roswell or Farmington.

Finally, a copy of the section on the overthrust play in Arizona from *Oil and Gas in Arizona* by Nations, Brennan, and Ybarra is attached. This article gives a good overview of that play in Arizona.

Sincerely,

Steve

Steven L. Rauzi
Oil and Gas Program Administrator

Enclosure

Graham County Guardian and Gila Valley Farmer (Safford, Ariz.);

The Funk well, two miles west of San Simon, is actively drilling about 4,000 feet and reports a bone dry hole." 3/27/31

February 5, 1932, p. 7: "San Simon Oil Well Deepest in Arizona Is Still Drilling"
"The San Simon Valley Tribune, in its last issue, says:

Oil prospecting in this section received new impetus in 1931 and indications are that 1932 will show still greater interest.

Just now, the San Simon oil well which is down near 5000 feet, and is still drilling, is being watched very closely by oil men everywhere.

Driller Water Tuttle, said to be one of the most expert drillers in the state, and who has drilled more depth in Arizona than any other man, is getting much gas at the depth he is now drilling in the San Simon well, which burns and it is sufficiently strong to justify the belief that a big 'gasser' may blow in at any time."

June 10, 1932, p. 9 : "Expect To Bring In Oil At Well Near San Simon"
"Bowie - S.W. Funk, trustee and manager for a syndicate made up mostly of California interests, is confident oil will be brought in soon at the well being drilled two miles west of San Simon. Operations have been suspended while a break in the casing is being repaired, but it was expected drilling would be resumed within a week.

Mr. Funk said the group has expended approximately $80,000 in the three years of work carried on at the well. This includes the cost of installing first class equipment for the drilling, heavy equipment capable of sinking to 8,000 feet placed. It is a standard rig equipped with a steam engine.

Down 5,016 Feet

The well at present is bottomed at 5,016 feet. Describing the various strata Mr. Runk said a sticky shale was struck at 600 feet and this continued to considerable depth. Sandstone was then encountered and later lime, shale, then lime, sandstone and shale again. All are saturated with oil which became heavier with depth, he said. Oil can be skimmed from the sump and at 300 feet from its present bottom live wet gas was encountered. He said the well had been kept filled with water to keep it from blowing in at that point, it being believed that the real body of oil will be struck at a little greater depth.

Mr. Funk said that at 2,057 feet, 11 feet of dead oil had been encountered. He said the body, however, was not sufficiently large to merit installation of a pumping system.

Field is Sealed

The saturation now being encountered, he declared, is due to the field being thoroughly sealed with the outlet following the Southern Pacific to Willcox. It migrates toward Farmington, N.M., he declared.

One of the reasons Mr. Funk gave as lending assurance that oil soon will be struck was that water from the well registered 190 degrees when dumped. It has no salt content, he said, and it takes either salt or oil to heat water.

The syndicate control 12,000 acres under state leases. The well is one-quarter of a mile from the railroad and the group has leases adjoining the road. There are about 2,000 acres of the group's holdings in the immediate vicinity of the well and about an equal acreage at Alga. The remainder of the holdings are spread out throughout the district."

in Cen- / r school / ld berry / the fact / and cold / the time / h school / Valentine / he home / ich was / ames of / and re- / bes and / Gordon / ers left / eeks at / and Mr. / d donw / ed rela- / from / service / Sunday. / ord was / elatives. / olomon- / school / Church. / ere last / nied by / sonville. / a mem- / h coun- / n. rep- / ciety of / peakers / in Cen- / been ill / was a / sday of / son of / ral last / uffering / ast sev- / growing / Martin / ily. / recor- / ficiently / to other / ill quite / le post- / ren and / tokens / ensely.

VS

meeting / ty held / d into a / ol time / people / s both / s enter- / he week / J. Allen / return- / N. M. / by Gila / morning / rofessor / sephine / lections. / creating / students / rs. Em- / Tuesday / do ordi- / erable. / re Sun- / ldren in / who has / Nelson. / o weeks / Tucson / rs. T. S. / a short / Spending / of the oil / returned / and Mrs. / a Nina. / ill Sumr. / ltys and / ents for / parents.

visiting with Mr. and Mrs. Granvill Pace, who are here from Cedar City, Utah. Mr. Pace is a brother of W. W. Pace. Those present were Mr. and Mrs. W. C. Pace, Mr. and Mrs. J. Verne Pace, Mr. and Mrs. D. C. Pace, and Mr. and Mrs. A. E. Jameson.

The goat men are getting ready for the spring shearing which will begin as soon as the weather clears up.

Mr. Morrow has completed the interior work of the four apartment house he has made out of the Claridge home on Main street. It is a very decided improvement and the apartments have been rented for sometime.

GLENBAR NOTES

(Lucile Hervert)

George Echols, who was recently married to Miss Bessie Thompson, gave a wedding dance Thursday evening. A large crowd was present and everyone had a most enjoyable time.

Mrs. Rilla Curtis and daughter, Mrs. Lucy Western, arrived here from Artesia, California, Saturday evening, where they spent the winter. They intend to make their home here.

Anthon Christensen and wife were visitors from Eden Sunday afternoon.

President H. L. Payne of the Layton ward and William McBride of the Pima ward were visitors and speakers at the church services here Sunday evening.

Ami Curtis, formerly of Glenbar, is lying in a hospital in Artesia, Cal., suffering an injured back. According to reports of the accident he was loading hay, and the wagon being wet and slippery he fell and struck his back on a timber. He is improving and expects to return home in September.

The Mutual Improvement Association of the Matthews ward held a very interesting meeting Sunday evening and a number of visitors from the different wards in the stake were in attendance and gave some very interesting talks. They were Chas. Clawson, W. T. Mendenhall, Miss Thelma Layton and Mr. Solomon of the Layton ward, Mr. and Mrs. Moroni Skinner of the Kimball ward, Mr. and Mrs. H. H. Ottie of Pima, Mrs. Inez H. Lee, J. H. Mangum of the Thatcher ward.

Earl Long of Cottonwood Wash was a visitor at the home of Mr. and Mrs. H. L. Smith Monday afternoon.

Mrs. Ervin Herbert is visiting at the home of her mother, Mrs. Echols.

E. Herbert of Geronimo made a business trip to Glenbar Tuesday.

Miss Clella Bryce attended the dance at Bryce Tuesday evening.

Clifford Hughes, a former resident of Thatcher has moved into the Dave Rogers' place at Glenbar.

ONE FARMER PROVES DAIRYING TO BE A PROFITABLE BUSINESS

That dairying is one of the best paying industries in the Gila valley is the belief expressed by C. L. Allred Tuesday when he called at the Guardian office to renew his subscription to the paper. Mr. Allred bases this belief on actual experience of many years in the business.

Ten years ago he purchased a 53-acre farm in the Artesian district and put a few dairy cows on it, going in debt for the farm and the cows both. Today, at the end of the ten years, he is not owing anyone, so far as he knows, the cows having paid out the debt on themselves and on the farm.

In addition to his herd of fine cows, Mr. Allred raises chickens and hogs enough to supply his family and have some for the market.

The hay raised on the farm and fed to the dairy herd, Mr. Allred figures, brings him $25.00 a ton. The products from the herd brings him an income that is steady and does not fluctuate with the market as do cotton, hay, etc., and he therefore knows just what he will have to meet the expenses of his family and his farm each month.

Wm. A. Carraway left for his old home in Texarkana ...

Wm. J. Vaughan, who is interested in the drilling of the oil well at Pima, returned to Safford the first of the week from a business trip to Phoenix. While in the capital city Mr. Vaughan told in an interview with newspaper reporters how he became interested in the oil proposition in Graham county, saying:

"The Gila basin," he said, "has been favorably noted by geologists as the possible seat of an oil basin for many years. In particular, Edward B. Hill of San Francisco, who more than any other man turned my attention to West Texas, called it to my attention six years ago. But it was not until the development of scientific oil detectors that I remembered his advice and came to look the country over for myself.

"There are two types of detectors. One reacts to the presence of oil and indicates volume. The other indicates only the depth at which oil may be struck. The first type may be described as an affinity instrument. It carries a reservoir of compound chemicals similar to those contained in petroleum. These chemicals are sympathetic to the vibrations sent out by electrons of the petroleum atoms and respond when the reservoir is suspended over a subterranean reservoir of oil. Amplifiers similar to those used in magnifying radio vibrations step up the sympathetic vibrations in the container until they can be mechanically indicated on a dial.

"Well, this affinity instrument was very strongly recommended to me by responsible, level headed men who had tested it. I undertook tests of my own in the West Texas field. My inclination, I am free to confess, was in the direction of extreme skepticism. If there is anything an experienced oil man is ashamed to be associated with, it is a "doodle bug" of any sort.

"But I got readings in proved country that I knew intimately, and in dry country—known to be dry because I had tested it by sinking dry wells—that provoked me to further investigations. In all, I spent 18 months tracking down the experience of everybody who had tried the affinity detector and in the end I brought one to Arizona and went over the Gila basin. That was a little more than a year ago.

"Five miles west of us another New York syndicate headed by W. W. Todd, another responsible operator with ample backing, is also drilling on the strength of detector readings. I think you may say that the present quantity flow of eastern capital into Arizona drilling dates from the invention of the modern scientific detector.

"It takes money to drill a wildcat well, varying, of course with the probable depth. Perhaps $100,000 would be an average figure for what the Arizona wildcatter may expect to encounter in the way of difficulties.

"Our own well, wholly financed by New York City and Buffalo capital, was spudded in last August, but active drilling was not really begun before November 1. We are now down about 1,500 feet, and at 2,000 feet expect to set our 10-inch casing on a limestone bed which we expect to encounter at about that depth. We began with a 24-inch hole.

"At 1,100 feet we tapped a deposit of rock salt 146 feet thick, laid down in early geologic times when the sea covered Arizona. At present we are bringing up drill cuttings that under ether tests, show the existence of oil, but we do not expect to get into production sands much above the level of the sea. That was our experience in West Texas and would take us down in this country, about 3,200 feet.

I am inclined to regard the Gila basin as a possible offshoot or extension of the West Texas field, stretching across New Mexico. The state is surrounded by other oil bearing states—New Mexico, where there are proved fields now in production, Texas, Utah, Colorado and California. The formations traversed by our drill much resemble those found in Colorado."

STATE SIFTINGS

TUSCON—Additional improvements costing between $150,000 and $200,000 are to be made to the Santa Rita Hotel and when the remodeling is completed the entire aspect of the big hostelry will be changed.

TOMBSTONE—Loss estimated between $12,000 and $15,000 resulted to business property here last week when fire destroyed several of the business houses in the heart of the town. The fire started when a gas tank in the Owl Cafe exploded while a leak was being mended by Joe Fredericks, 13. He was perhaps fatally burned and another, Robert Gilmore, was severely burned in attempting to save the boy.

MIAMI—Three Mexican mine laborers were crushed to death at the Inspiration Consolidated Copper Company plant when they were carried to into workings of the mines on a conveyor belt on which they had gone to sleep.

TUCSON—One of the large Pickwick stage line busses was completely destroyed by fire which started from a heater. No one was injured and all baggage was saved.

AFTER CONDEMNING AUTOS FOR YEARS BUYS CHRYSLER 52

The Red Indian's trail, the pioneer's covered wagon, the stage coach, the railroad train and the steamboat, street cars, horseless carriages and their modern development, the fleet and beautiful automobile of today, even the aeroplane—all methods of transportation developed in the fast moving progress of the Nineteenth and Twentieth centuries have been watched with interest by Chaplain James Kine Gibson during the 32 years of his busy life. But until very recently the veteran national chaplain of the G. A. R. knew them only as spectator and passenger. Salesmen found him immune when they tried to induce him to buy.

Not until Walter P. Chrysler gave to the world an automobile so full of new beauty, smart handling, flashing acceleration and dependability that its appeal could not be resisted, did Dr. Gibson fall from grace. A few weeks ago he went into the showrooms of the Chrysler agency of Dayton, Ohio, and came out the owner of a Chrysler "52" coupe, the first car he has owned.

With only a few lessons he mastered the details of gear shift and steering, and he is now an enthusiastic Crysler owner, driving through Dayton's city traffic with as much ease and certainty as any representative of young America.

Best Man: "Wasn't it annoying the way that baby cried all during the ceremony?"

Maid of Honor: "It was dreadful. When I am married I shall have engraved on the invitations, "No babies expected."

SHERIFF'S NOTICE OF SALE NO. 2733

IN THE SUPERIOR COURT OF THE COUNTY OF GRAHAM, STATE OF ARIZONA.

M. E. O'Bryan, attorney-in-fact for the heirs of T. O'Bryan, deceased, plaintiff, versus Orville L. Larson and Orville L. Larson, administrator of the estate of Hazel Larson, deceased, defendant.

Under and by virtue of a special execution and judgment of foreclosure and sale issued out of the Superior Court of Graham County, Arizona, on the 23rd day of November, 1927, to-wit:

All of lot 4 in Block 25 of Thatcher Townsite and bounded as follows, to-wit: Beginning at a point 92 rods North and 55 rods East of the Southwest corner of Section 2 Township 7 South of Range 25 East of Gila and Salt River Meridian in Graham County, Arizona; thence running East 16 rods; thence North 16 rods; thence West 16 rods; thence South 16 rods to the place of beginning, containing one and six-tenth (1 6/10) acres. Also one share of stock in Union Canal Company.

(cover)

together with all and singular the rights and appurtances thereto in any wise belonging.

Public notice is hereby given that on Monday the 12th day of March, 1928, at 10:00 o'clock in the forenoon of said day at the court house door in the City of Safford, County of Graham, State of Arizona, I will, in obedience to the special execution, sell the above described real estate to satisfy said judgment, interest, costs and expenses of said sale, to the highest bidder for cash, lawful money of the United States of America.

Dated this 15th day of February, 1928.

H. M. TATE,
Sheriff.
By SETH DOIGE,
Deputy.

First Publication: February 17, 1928
Last Publication: March 9, 1928

GRAHAM COUNTY GUARDIAN AND GILA VALLEY FARMER (Safford, Ariz.), February 17, 1928, p. 6

"Eastern Man Tells How He
Became Attracted to Pima
As a Promising Oil Field"

Markets

LOCAL PRODUCE

Buying Prices on Poultry

Heavy Hens, lb	20c
Small Hens	15c
Roosters, lb	10c to 20c
Broilers, lb	25c
Friers, lb	25c

Retail Selling Prices

Bananas, lb	15c
Eggs.—Doz	39c
Beets, bunch	5c
Carrots, bunch	5c
Bell Peppers, lb	30c
Radishes, bunch	5c
Celery, bunch	20c and 25c
Lettuce, 2 heads	25c
Cabbage, lb	5c
Green Chili, lb	25c
Fresh Tomatoes, 2 lbs	25c
Lemons, doz	30c to 40c
Oranges	30c to 60c
Cooking onions, 3 lbs	25c
Onions, bunch	5c
Grape fruit, 2 for	25c
New Potatoes, 4 lbs	25c
Rhubarb, 2lbs	25c
String beans, lb	15c
Squash, lb	5c
Cucumbers, 3 lbs	25c
Cantaloupes	5 to 10
Watermelons	3c
Okra	15c
Plums, 2lbs	25c
Seedless grapes, 2lbs	25c
Peaches, lb	15c

EGGS

PHOENIX

Buying Prices

Brown, extra	25c
White, extra	25c
White, medium	12½c
White, small	14c

SAFFORD

Eggs, brown per dozen	25c
White, per dozen	27½c

COTTON MARKET

COTTON SPOTS AND FUTURES

NEW YORK—The cotton market Early selling on relatively easy cables was quiet but generally steady today, and a favorable weekly weather was absorbed on moderate setbacks and prices later rallied on covering with same trade or commission house buying. October sold up from 17.75 to 17.89 and was holding around 17.81 in the mid-afternoon market when active months were about 3 to 4 points net higher. Spots quiet; middling, 17.10. Close: January, 18.08; March, 18.22 to 18.23; May, 18.46 to 18.46; July, 17.46; October, 17.80; December, 18.02 to 18.03.

CATTLE MARKET

KANSAS CITY

CATTLE—7,000; calves 1,000; beef steers and yearlings opening slow, steady to weak; she stock mostly steady; bulls strong; vealers steady to 50c higher; stockers and feeders slow, weak; choice medium weight steers held above $13; good to choice lightweight steers $11.35; good medium weight wintered Kansas grassers $12.10; common Kansas grazed Texas grassers $7.65-7.85; practical veal top $12.50; two loads Kansas grassers on country accounts averaging 1,100 lbs. $10.50.

LOS ANGELES

LOS ANGELES—Cattle small supply cleaned up readily at strong prices medium 1045 lb. steers 8.50; few she stock 5.00-6.00; calves 50, steady, vealers 10.00 to 12.00.

GRAIN MARKET

Geologist Reports On Oil Indications As Found In Graham Co.

The following report of Claude Palmer, the geologist, who checked the Trumbull instrument in the proven oil fields from Florida to Graham county and who also mapped the two structures now being drilled with eastern money, is very interesting to the people of Graham county, showing why these men believe there is oil in this valley. We are indebted to H. T. Proctor of Safford, who leased these two structures, for this copy of the report which we are printing below:

February 23, 1927.

W. W. Todd, 32 Pearl St.,
New York City.

Dear Sir:

In compliance with your request, I am pleased to submit to you a report of my findings and impression of the M. C. Trumbull oil affinity instrument or machine. Also my opinion of the Arizona structure owned by Messrs. Leet, Trumbull, Proctor and others, and on which you were contemplating the purchase of an interest for the purpose of helping defray the expenses for drilling a test well to test the properties for oil or gas.

Of course, as you accompanied Messrs. Leet, Trumbull and myself throughout the trip from Florida to the Spindle Top fields of Beaumont, Texas, and then from there to El Paso, Texas, and later to Graham county, Arizona, and observed my work of comparing and testing the accuracy of the several localities, it will not be necessary to make an extended report. Therefore, suffice to say that I selected the Beaumount oil field as the place for the first test because this locality was unusual, to the extent that it had produced more oil of high grade paraffine base from shallow sand wells than any other one spot of like size in the world (the old Spindle Top field) and had eventually become stripped of all oil excepting a very few wells yet producing a small amount, and in addition the new Spindle Top field lately being developed from sands of from 2250 to 5000 feet deep, and lies less than a quarter of a mile from the edge of the old field; and which fields are divided by the effects of the tremendous salt core, which was instrumental in causing the uplift.

This situation made an ideal locality to test the instrument on and off light oil of limited amount, the dry streak including salt core, and on and off heavy oil of large volume.

While I had previously been biased in mind to a certain extent, against Mr. Trumbull's machine or instrument, and had considered it the same as many other "doodle-bug" contraptions that I had checked against geology heretofore and found lacking, I was surprised and dumfounded upon witnessing the action of this machine or instrument while Mr. Trumbull took thirty tests at locations designated by me, and in every instance it registered correctly according to geology, and the production of the field. I was then convinced that the instrument had an affinity to petroliferous content.

To be sure that its readings were not influenced by minerals, lime, coal, salt, etc., I had him take a test 30 feet from a well which had been drilled into the salt core at 1580 feet depth, without production. It did not register. This test also convinced me that the machine acted perpendicularly as there were producing oil wells within 1000 feet distance.

I kept my own counsel and said nothing, but thought considerably upon the subject during our twenty-four-hour run across Texas into the city of El Paso, where the surrounding country has been thrown up by an igneous core dike which had caused the stratas of the different formations from the territory to and including the Pre-Cambrian to emerge, creating a major Monocline at the contact.

I had Mr. Trumbull set his instrument and take test-readings in numerous places where the upturned edges of all strata, including lignite coal, Cretaceous shales, Jurasic and Triasic Limestones and gypsum stratas as well as Prefmain-Carboniferous, sandstone, lime and cement stone and shales, Cambrain and Pre-Cambrain stratas carrying sulphureous waters, alkaline waters were apparent. It did not register.

I was satisfied by this time, after comparing notes, that I was inspecting an instrument or machine that according to test demonstrations, had an affinity to petroliferous matter and something that may be of exceptional value to geologists and the Oil Fraternity, if intelligently used in connection with structural geology, to the extent of determining at least paraffine and asphaltic base oils in unproven territories.

As you know, I made considerable study of the formations as they existed, both east and west of the Continental Divide as we traveled by motor from El Paso, Texas, to the Gila valley in Graham county, Arizona, in order to intelligently compare the structural features of your anticline near Safford, which is in the heart of the Gila valley district. Nearly all formations lay regularly in succession on the east monocline of the Divide, and compared favorably with other districts on the eastern slope that I have examined, while the structural features on the west side of the Monocline were to a great extent covered with later Quatenary deposits and lava rock of glacial drift effects, etc., which made the structural features of the lower formation hard to determine.

Upon reaching the Gila valley in Graham county, Arizona, I was pleased to note the feature of an uplift, arising through an extensive syncline lying between two mountain ranges crossing a valley of about twenty miles wide.

My conclusions, after a thorough examination of the structure which lies from 12 to 16 miles northwest of the town of Safford, which you are expecting to be interested in, is that you have a closed structure worthy of a test for oil or gas, providing the well is drilled to a depth of at least 3500 feet, in order to test both sands if necessary. The outline of this structure is very discernible and it appears to be one of several along a major Anticline. I was very well pleased with the action of Mr. Trumbull's instrument or machine upon this structure. We commenced testing with the machine off and on the same as we did on the edge of the Florida structure. After checking around the edge of the structure we checked two cross-sections across the apex of the structure (see blue print).

It registered upon two producing sands in the apex of the structure, while it registered on but one sand around the edge of the structure. The instrument registered perfectly according to structural geology. The pleasant surprise was the exceptionally large readings that the machine registered upon the apex of the structure at the locations mapped out by me for the first test wells to be drilled. In fact it averaged from 700 to 1300 readings around and across both locations. These were the highest readings that were recorded on the trip; in fact they were more than double the average readings from the new Spindle Top field where we took tests beside wells making from 2,000 to 2,500 barrels per day, settled production.

Therefore, my conclusions are that the machine or instrument does register to petroliferous matter, that it does not register or is not influenced by other minerals or formation content, that it does register increased or decreased production in the sands from place to place, according to porosity of sands; that it registers accurately, according to structural geology, even though it is influenced to higher readings on account of either hydrostatic or gas pressures.

The machine will not tell the depth to any sand, will not tell the character of the oil, will not determine the gathering ground of the area surrounding the field, will not determine the hydrostatic pressure or syphonic conditions to be encountered. However, all this can be determined by competent geologists, while the machine or instrument does record conditions that no geologist can determine. Therefore, I believe, if this instrument is used in conjunction with a geological knowledge, that the combination will create a revelation in the history of the oil industry.

Respectfully submitted,

(Signed) CLAUDE F. PALMER,
Geologist.

\PH THURSDAY, SEPTEMBER 3, 1931.

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August Report of the Bear Springs Oil & Gas Company

SAN SIMON VALLEY—

San Simon Well, on SE¼N¼ Sec. 27; T. 13S., R. 30E., Torrence ranch 2 miles west of San Simon. Walter Tuttle, driller, has the deepest oil well, drilling, in Arizona, 4230 feet, now in hard black sand (Lime) Good oil showings; 170 degree water at 4056 ft.; 6¼ in. casing hanging at 4035 ft. Will underream to 4160 ft. to shut off water and dry hole.

Pinal Oil Co. Well No. 1 on Allen permit. SE¼SE¼ Sec. 25; T. 10S., R. 28E., 17 miles north of Bowie. Sam Twentier, Field Supt. with crew of three has had a hard job to get two camps in shape to start active work. These two wells have been practically shut down for the past three years.

Whitlock Oil Co. Well No. 1, on NE¼NE¼ Sec. 36. T. 10S., R. 28E. State land 17 miles north of Bowie. Pinal Oil Co. in return for loan of National No. 2 drilling machine and 80 h. p. Buffalo Gasoline engine, owned by Whitlock Oil Co., have repaired and put in good working order to pull 6 5-8 in. casing and plug Whitlock No. 1 Well back to 1500 ft. before moving the above equipment to Pinal No. 1 Well.

Whitlock No. 2 Well, on NE¼NE ¼ Sec. 20, T. 10S., R. 29E., on Penrod permit, still shut down at 521 ft.

Finn No. 1 Well, 9 miles north of Bowie on SW¼NE¼ Sec. 28, T. 11S. R. 28E. Reed permit, still negotiating with eastern capital to drill his permit.

Ryan et al Well on SE¼NW¼ Sec. 34, T. 14S., R. 30E., State Land 9 miles south of San Simon at 920 ft. Tentative option has been given a group of oil men on the fifteen state land sections, held by F. J. Ryan and associates of Montebello, Calif. A "K" type Okell drilling machine is on location and the option calls for completion of the well.

SULPHUR SPRINGS VALLEY—

Benedum-Trees, Arzberger No. 1 Well on NW¼SE¼, Sec. 19; T. 15S. R. 26E., 14 miles SE of Willcox, 4000 ft. 8¼ in. casing unloaded by S. P. Ry, and delivered to well. 10 in. set at 2348 ft. Depth 3140 ft in hard brown shale with shells. Little water in hole. Two towers with crew of five. R. W. Hickman in charge, making very good progress, considering the many delays. John Pugh of the Two John Drilling Co., contractors, made a flying trip from Shreveport, La., Denver, Willcox and back to headquarters.

Geronimo Oil Co., No. 1, No. 2, and No. 3 Wells, in town of Willcox have shut down for the time being. Mr. I. R. Borck is in charge and expects a large heavy standard rig within 60 days. The splendid oil showings in their wells should warrant further explorations.

S. V. Windle, Riggs No. 1 Well, N E¼ Sec. 10, T. 17S., R. 23E., still waiting for equipment necessary to spud in.

Western Water Works, of Alamogordo, N. M., was awarded the contract for drilling the state well for artesian water to irrigate 10,000 acres in the Stewart District. An appropriation of $10,000.00 was allowed to do this drilling.

GILA VALLEY—

Gila Oil Syndicate Well No. 1. SW ¼NE¼ Sec. 30, T. 5S., R. 24E., 7 miles NW of Pima, shut down at 2630 ft.

Underwriters Syndicate Well No. 1 (Vaughn Oil Co.) 2 miles NW of Pima, on Mary Mack farm, NW¼N E¼ Sec. 13, T. 6S., R. 24E., standing shut down at 3765 ft. Several deals pending to finish this well to completion.

SAN PEDRO VALLEY—

Century Petroleum Co. Well No. 1 on Colrazier permit, NW¼NE¼ Sec. 17; T. 17S., R. 19E., 9 miles west of Benson, expecting to contract the deepening of this well, now shut down at 1550 ft.

Understand interested people are looking over this prospect with view of starting drilling.

San Pedro Oil Corp., No. 1 Well on Smith Bros. ranch 1½ miles SE of Mammoth, shut down at 1400 ft.

CHINO VALLEY—

Pinal Oil Co. Lantz No. 1 Well NE¼NE¼ Sec. 3, T. 16N., R. 2W., 19 miles north of Prescott spudded in August 16th. Now about 300 feet All casing on rack, all supplies purchased, work is progressing in fine shape, with a steam Star rig, under supervision of Fred Womack, Supt. A water well was drilled to 305 ft. and 350 bbls. a day artesian flow of good water was encountered there, making drilling water for that district a certainty.

Yavapai Oil Development Co. Kissh No. 1 Well, Sec. 27; T. 18N., R. 2W., 29 miles north of Prescott, in charge of A. L. Kissh, who, I am told, has a number of Japanese clients interested in this development. Their No. 1 Well will be spudded in on the 30th. I hear.

There is a possibility of a third well being drilled on the Puntenney Ranch. I hear that all arrangements have been made and the rig is being shipped in from Los Angeles.

"Petroleum" a bulletin issued by the University of Arizona and prepared by Dr. G. M. Butler and J. E. Tenney, is now ready for state distribution. The bulletin treats of the origin of petroleum, methods of concentration, favorable structures, hints to prospectors and tests for petroleum.

NEW COMPANIES INCORPD.—

Blue Ribbon Refinery Co., capital 100,000 shares, no normal par value. Incorporators, A. U. Hill, Robert U. Moore and R. H. Orkin, N. Y.

National Carbonice Ice Co. capital 1,000,000 shares, no par value. Incorporators, R. M. Malone, H. A. Kehler and C. A. Winder, all of San Francisco.

Appointment of eight agents in Arizona was made yesterday by the Texas company, a foreign corporation, empowered to operate in Arizona. The agents are: Folsom Moore, Bisbee, Cochise Co.; Ed Matteson, Wendon, Yuma Co.; H. R. Sisk, Nogales, Santa Cruz Co.; J. Verne Pace, Safford, Graham Co.; L. F. Sweeting, Clifton, Greenlee Co.; A. W. Sydnor, Globe, Gila Co.; Kirk Moore, Tucson, Pima Co.; Ned Creighton, Phoenix, Maricopa Co.

BOB THOMAS.

Business Agent Bear Springs Oil & Gas Co., Bowie, Arizona.

June 25, 1974

Mr. E. W. Ellis
1425 2nd Avenue
Space 229
Chula Vista, California 92011

Dear Mr. Ellis:

The well that you inquired about in your letter of June 19, 1974, was known as the Funk Benevolent Corporation Fee #1 located in the SE/4 NE/4, Section 27-T13S-R30E, Cochise County. From the limited information in our files this well apparently reached a total depth of 6,668' in the year of 1940. There were numerous unsubstantiated oil and gas shows reported on the driller's log.

There is a letter in our file from a Mr. G. H. Ebsen, San Simon, Arizona that indicates Mr. Ebsen had considerable knowledge pertaining to the drilling of this well. For further information you might attempt to contact Mr. Ebsen.

If this Commission can be of further service, please advise.

Very truly yours,

W. E. Allen, Director
Enforcement Section

WEA/rlb

Superior Oil Co
Scout Ticket

COCHISE, ARIZONA W.C.

Operator: Funk Development Co.

Well: Fee No. 1

Loc: SE NE Sec. 27 Twp. 13S Rge. 30E

Coord. Area

Csg. Size	Depth	Cement

On File
S.L. Denver?
E.L.
W.L.

Spud

Comp/Abd 8/22/43

T.D. 6668

Elev. G KB

I. P. D & A

Por. Hor. ●

Por. Hor. ★

Geological Tops	Scout	Samp.	E. Log	S-Sea
Sept bottomed in Volcanic Ash.				
Temp. 165 degrees @ 2430 & 274 degrees @ 6400.				
SO&G at frequent intervals from 1730 to TD.				
HFW. - on attempting WSO to [illegible].				

2-5

PC	M	TWP.	RGE.	SEC.		¼	¼	¼	ST.	CTY.	FIELD	CL.		COMPLETION
1		13S	30E	27		SE	SE	NE	Ar	Coc		W		39

	DATA CONT'D BELOW	OPERATOR	WELL NO. & NAME	ELEVATION	TOTAL DEPTH	INIT. PROD.	HOURS TESTED	CD.
1	S	Funk et al	1*	3600	6658			1

	LOCATION DESCRIPTION	SPUD	SURFACE CASING	CASING	PLUG BACK	REFERENCE CODE
2			15½ 60'	12½ 650'		

	CASING	PERFORATED INTERVALS	GRAVITY	CUT	CHOKE	ASSOC. PROD. MCFGPD	PROD. FM.
3	10¾ 2026**						

	LC	FM	TOP	S	FM	TOP	S	FM	TOP	S	FM	TOP	S	FM	TOP	S
4																
5																
6																
7																

8
9 * #1 Torrance Ranch
10
11 ** 8⅝ 2772; 6⅝ 4170; 4¾ 5187
12
13 "14,000 bbl water per day @ 1260-90"
14
15 "Oil & Gas @ 1723-47"
16
17 "Many oil shows reported"
18
19
20

CODES: (CL) WELL CLASS: WILDCAT -W, DEVEL. -D; F - FIELD, S - STRAT, D - DEEPENING; X - RECOMPLETION, I - INJECTION, R - REDRILL

(CD) INITIAL PRODUCTION: 1 - D & A, 2 - BOPD-FLOW, 3 - BOPD-PUMP, 4 - MCFGPD, 5 - B. DIST. PD., 6 - B. COND. PD, 7 - SUSPENDED, 8 - BOPD - SWABBED

ABBREVIATIONS: O - OIL, G - GAS, S - SHOW, W - WATER

1425 2nd. Ave., Space 229
Chula Vista, Calif. 92011

JUNE 19, 1974

Arizona State Oil Commission

Phoenix, Arizona

Dear Sirs:

Can you give me information concerning a test oil well that was drilled sometime in the 1920's or 1930's near San Simon, Cochise Co, Arix.? It eas drilled by a small company headed by a man named Funk and they went down far enough to find good indications for oil, but ran out of money and had to stop.

I own 8o acres of land near the site of that welland its description is as follows: East half S.W. quarter of Sec.27 Township 13 South, Range 30 East. in Cochise County. It was homesteaded in 1932 (May 10) So I understand the Government did not reserve the mineral rights.

What I wish to have is a report of that well as to its depth, the showings of oil and gas and the names and addresses of any persohs who could give me more information. I was told four major oil companies have leases on several thousand acres in Cochise County.

I shall appreciatewhatever information your office can furnish me regarding this area.

Yours truly,

E. W. Ellis.

May 19, 1942

Mr. F. L. Kennamer, Jr.
U.S. Securities & Exchange Commission
U.S. Post Office & Courthouse
Los Angeles, California

Dear Mr. Kennamer:

Your letter dated May 14, 1942, your file LAB:MEK/MF, regarding E. J. Funk, Trustee, has been referred back to me by Dr. P. G. Chapman, Director of this Bureau.

On July 25, 1940, at the invitation of Mr. G. H. Gibson of San Simon, Arizona, I visited the San Simon or Funk well, which is two miles west of San Simon, Arizona.

I made a casual examination of some drill cores in San Simon, which Mr. G. H. Gibson stated came from this well. Since no drilling was being done at the time of my visit, my information was entirely gained from Mr. Gibson.

I submitted no written report of this examination, but made for Dr. P. G. Chapman an inter-office memorandum regarding the trip.

If, after knowing the character of the information we possess regarding these operations, you still desire our files in this case, we will send them to you.

Sincerely yours,

Aldred L. Wilson
Geologist

ALW:ep

cc: Dr. Atkinson
Dr. Chapman

IN REPLYING PLEASE QUOTE

LAB:FEK/IT

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
BRANCH OFFICE
U. S. POST OFFICE AND COURTHOUSE
LOS ANGELES, CALIFORNIA

May 14, 1942

Mr. E. D. Wilson, Geologist
Arizona Bureau of Mines
University of Arizona
College of Mines
Tucson, Arizona

RE: S. W. FUNK, TRUSTEE, SF-552

Dear Sir:

The Commission is conducting an investigation to determine whether S. W. Funk, Trustee of Arizona Oil Development, an unincorporated association, has violated Sections 5(a) and 17(a) of the Securities Act of 1933 in the sale of "mutual escrow agreements". In the course of this inquiry, my attention has been directed to the fact that in July, 1940, you visited the San Simon No. 1, a test well drilled by S. W. Funk, Trustee, at a location in Cochise County, Arizona, and made an examination of core samples recovered from the well.

It is requested that you advise the Commission of the nature of your examination of the core samples, the depths from which they were recovered, and of your determinations of the character of formations disclosed by such examination. If you submitted a written report of the examination, it is requested that you make a copy thereof available to the Commission.

The fact that this inquiry is directed to you should not be regarded as an expression on the part of the Commission or its counsel that any violation of the statute has been committed and should be treated as confidential.

Very truly yours,

F. E. Kennamer

F. E. Kennamer, Jr.
Attorney

[redacted]

BOND NO. _____

AMOUNT _____

CANCELLED _____

ORGANIZATION REPORT _____

No permit

27-13s-30E

Memorandum to Dr. Chapman

SUBJECT: TRIP TO THE SAN SIMON OR FUNK WELL.

On July 25, 1940, at the invitation of Mr. G. H. Ebsen, and for reasons explained by the attached correspondence, I visited the San Simon or Funk Well.

Upon arriving there I found Mr. Ebsen very willing to furnish samples of drill cores and cuttings and all possible information for our records. He seemed well pleased that the Arizona Bureau of Mines had responded promptly to his invitation to visit the property.

This well is two miles west of San Simon, 200 feet from the S-E corner, Sec. 27, T.13S., R30E. The following information concerning it was furnished by Mr. Ebsen.

The drilling has been financed by some 1500 people who have invested sums of $5.00 to $100 each. Started in 1928, it has reached a depth of 6657 feet at a cost of approximately $200,000. S. W. Funk, of Charter Oak, Calif., is trustee.

Mr. Ebsen suggested that Mr. Funk would gladly furnish the Arizona Bureau of Mines with the drillers' log. Until we obtain that log, we have the following statements which Mr. Ebsen took from memory:

Valley fill material, consisting of more or less firmly consolidated gravel, sand, and silt, was penetrated from the surface to a depth of somewhat more than 2000 feet, below which stratified sandstone, conglomerate, arkose and shale (of Cretaceous aspect) have continued to the bottom of the hole. Abundant artesian water was encountered above the Cretaceous, especially at a depth of 1260 feet. In the lowest 200-300 feet of the hole this water has a temperature of 274° F.

Mr. Ebsen states that oil sand was encountered at 6643-6647 feet, and that gas which burns 10 feet high above the collar is produced during swabbing.

CONCLUSIONS: Possibly the oil sand is genuine, as graphite deposits occur in the cretaceous of the Chiricahua Mountains, some 14 miles farther south. On the other hand, it cannot be denied that such hot water (274° F) would stew considerable grease off of 6000 feet of drill cable.

The drill cores given me by Mr. Ebsen are of rock of Cretaceous aspect. Heretofore, we had no proof of the presence of this formation beneath the San Simon Valley.

Although this rock is not unfavorable, it is impossible to predict if or where favorable oil structures may exist in the Cretaceous beneath the valley fill. From a commercial standpoint, the search for oil under such conditions is a wildcat venture.

To be added later: Stoyanow's report on the fossil fragments in the drill cores. Also H2O analysis.

Edward D Wilson

2

July 23, 1940

Mr. C. H. Ebson
San Simon, Arizona

Dear Mr. Ebson:

Dr. A. A. Stoyanow of our Department of Geology has conferred with me respecting the information in your letter dated July 22.

It is unfortunate that Dr. Stoyanow has a field trip planned to the northern part of the state and this field trip will occupy his time for the next week or ten days.

Mr. E. D. Wilson, Geologist for the Arizona Bureau of Mines will be in Cochise County, however, on Thursday of this week and I am asking Mr. Wilson to call on you.

Thanking you for the information contained in your letter,

Yours very truly,

T. G. Chapman
Director

tgc:ep

San Simon, Arizona.
July 22,1940

Dr. A. A. Stoyanow
Professor of Geology
University of Arizona.

Dear Mr. Stoyanow:

In the interest of the state of Arizona, and all concerned, would you be interested in examining drill cores, sands and oil showings taken from the well two miles west of here which has now reached a depth of 6650 feet. If so, I have such samples and specimens, also some water taken from this well at a depth of 6,650 feet which is somewhat salty, this I have preserved for analysis when convenient to have it done.

I am of the opinion that we have sufficient formation taken at various depths in this well together with oil and gas showing, that if you care to come over and examine first hand, that you would be in a position to make a determination of oil possibilities here, and be the means of making some permanent record for the state for future reference, as one don't often get a chance to look into the earth beneath us so far, and I would like to see the state, or the University of Arizona at least to show sufficient interest in this well to at least come out here and make examination of this well for a record of same if nothing else.

Awaiting your reply, I am

Yours very truly

G. H. Ebsen

All water is out of hole and water is run in to drill by. Water was shut off and bailed and swabbed down to 5500 feet then bailed to the bottom gradually within a couple of weeks. This was done 3 or 4 weeks after the sandy lime was found carrying considerable live gas and oil that heavily saturated the hole with gas and oil until some gas bubbles would come out at the top of the water in the hole. This good sand was found between 5562 and 5669, where the hole full of water was standing against the gas and oil and drove it back and sealed off by the muddy water (See comment below)

From where the casing is setting at 5550 to 5662, the hole full of water was standing against the gas and oil for about 1½ years while underreaming about 300 feet of very hard lime, that burned that may after being drilled. Also in chopping up four underreamer lugs that fell in on top of the tools when the reamer broke, and after chopping and side-tracking them and taking tools out, considerable time was spent in chopping up the pieces left that fell to the bottom. Most of this open hole had been filled with heavy stuff from the slaking place just above where the casing is now setting. This mud was removed and the drilling of lugs up before shutting off the water, but muddy water during that time. This is what was driven back and sealed the oil pores. Scarcely any gas or oil showed after taking the water off, as it had been driven back and sealed off.

The gas was so strong when it was struck, starting at 4695, that the entire hole of water was very heavily saturated with gas and oil and burned out of the bailer, after blowing much out, for 3 min. After getting the string of 4 3/4 inch casing and setting it at about 5,000 ft. and swabbed the gas that accumulated in the water several months previously, would burn 2 to 3 ft. out of the casing while the swab was coming up. The water should have been shut off as soon as the first live gas was entered at 4695, but we had no casing to do it with, and the 6 inch casing being light and second hand was not safe to run down after underreaming.

S. W. Funk, Trustee
Walter F. Tuttle, Supt. & Driller.

This copy of the log was done by one of our members, and is no doubt practically correct. The first paragraph above does not give full particulars.

The heaviest part of the oil bearing sandy lime was from 5662 to 5669 and especially the last 18 inches, but there was very oil bearing formation for 50 or 60 feet above the bottom at that time at 5669 feet.

This sand at the bottom has been tested by some different experts by cutting it with ether, and estimated it should produce at least 1500 barrels.

Since the thin mud was forced into the oil pores and sealed it off so that it could not be swabbed back, rather then cut the walls off with acid or shoot them off, we were advised by some oil experts to drill on a ways for the real "pay sands" or mother sands. We did not anticipate going but a short distance, possibly a hundred feet at most, but after going on we continued until we reached 6250, where we believe we just tapped the mother sands, in the white fossolized lime.

S.W.F.

Keepsmith

'ARTIAL LIST OF WELLS DRILLED I \RIZONA

APACHE COUNTY

1. Hogback Oil Company No. 1. Sec. 24, T. 23N. R. 30E.
340' from N. line, 300' from W. line of NW¼NW¼ Sec. 24.
Drilling commenced November 15, 1926.
Drilling completed May 7, 1927.
Total Depth 1510', in gray granite.
No shows recorded.
Log on file and plotted.
Located on upthrown fault block South end of Defiance Uplift.

2. U. S. Indian Service Water Well, at junction of roads, South of Window Rock and 2 miles East of St. Michaels.
T. D. 1795. Surface dips 15-25° E., in Chinlee Fm.
Hole bottomed in Cutler Formation. No shows oil or gas.
Log on file.
E. flank Defiance Uplift.

3. Zuni Oil Company No. 1 Sec. 6, T. 19N., R. 24E.
T. D. @ 1000 feet. Start in Chinlee, bottomed in lower Chinle.
No shows oil and gas on our records.
No log on file.
Located on NE flank of so-called Carrizo Anticline.

COCHISE COUNTY

1. Arsberger No. 1 SE¼ Sec. 19, T. 15 S., R. 26 E.
Commenced drilling April 3, 1931.
Completed drilling October 28, 1931.
T. D. 3298'.
No shows recorded on log.
Temperature at 3225-35' 110° F.
Log on file and plotted.

2. Bowie Oil Leasing Syndicate No. 1. SE¼NW¼ Sec. 16, T. 13 S., R. 25 E.
Commenced * * * * * * * *
Completed drilling February 1, 1925.
T. D. 4110'.
Shows:

1925-35	sso
2100-2300	sdy sh, sso
2670-2700	sdy sh, sso & g
2958-62	sd, sso & g
3580	sh, sso & g

3815-3852-4110 shows oil when tested with chloroform also H_2S.
Log on file and plotted.

3. Funk Benevolent Corp., No. 1 Fee. SE¼NE¼ Sec. 27, T. 13 S., R. 30 E.

Commenced drilling 1929
Completed - - still drilling Oct. 5, 1938
Depth to date 6440'
Temperature at 2430' - 165°
Temperature at 6400' - 274°.
Shows of oil and gas numerous, beginning at 1730' and occurring at frequent intervals to bottom.
Hole full of water; operators attempting shut-off and swab test.
No correlation of formations available but suggestion is offered that the conglomerate in lower 500' of hole may be basal Cretaceous.
Log on file at 6400'.

4. Southern Pacific Railroad Water Well, Willcox.

1928-30
T. D. 650'.
Produced light oil, kerosene and gasoline; pumper sold 2,800 gallons to local ranchers at 10¢ a gallon.
Well not used since 1930.
Log on file and plotted.

MARICOPA COUNTY

1. Camelback No. 1 NE¼NW¼ Sec. 30, T. 2 N., R. 4 E.

Drilled 1907.
T. D. 2818'.
Shows numerous between 618' and 2400'.
Log on file and plotted.
Located on flank of Camelback Uplift.

2. Tannehill No. 1, Beardsley. SE¼NE¼ Sec. 25, T. 4 N., R. 2 W.

T. D. 3350'
Shows:
2540 Light oil
3280 Black shale saturated with oil, some gas.
Log on file.

NAVAJO COUNTY

1. Adamana Oil and Land Company No. 1.

Sec. 4, T. 14 N., R. 20 E.

T. D. 3387'.
Shows:
1740-50 sh, oil
1940-50 sh, oil and gas
2250-2300 sd, oil
2480-2495 sd, oil
3380-(?) sdy, ls, oil

D. A. Holm
1938

4

Hole lost after fishing for tools. Never
tested bottom show.
Log on file.
Located 2 miles N. of Richards Lake-Snowflake fault
and 2 miles E. of anticline.

2. Black Canyon No. 1 Sec. 20, T. 16 N., R. 17 E.
T. D. 510'. ?
Core drill rig, took 7' cores of Coconino sandstone,
which lie on ground near rig.
No shows on record.
No log on file.
Surface - Coconino Ss.
Located N. of Richards Lake-Snowflake fault
on W. flank of anticline.

3. Great Basin Oil Company No. 1. Fuller (E. S. Taylor).
Sec. 21, T. 17 N., R. 20 E.
T. D. 4675'.
Shows:
1925-35 sd, salt water, gas.
3590-96 ls, oil
3685-3870 arkosis sd, oil on tools, water.
Correlations vague, but bottom hole may be Cambrian.
Log on file and plotted.
Supposedly located on structure by Dorsey Hager,
but proved to be off structure.

4. Holbrook Oil Company No. 1. Sec. 23, T. 15 N., R. 18 E.
T. D. 2400' in 1922.
Deepened as Jerome-Navajo Drilling Company
to 3775' in 1925.
Show gas?
No log on file.
Located on structure? Doubtful

5. Hopi Oil Company No. 1. Sec. 21, T. 15 N., R. 19 E.
T. D. 2500'
No log on file.

YAVAPAI COUNTY

1. Arizona-Verde Oil Company. NW¼NW¼ Sec. 14, T. 13 N., R. 5 E.
T. D. 1625'.
Bottomed in igneous rock.
Correlation: 0-250'; Redwall ls ?
Log on file

2. Arizona-Verde Oil Company. NW¼NW¼ Sec. 9, T. 13 N., R. 5 E.
T. D. 1225'.
Bottomed in igneous rock.
Log on file.

3. Chino Valley Oil and Mining Company No. 1.
Sec. 27, T. 18 N., R. 2 W.

Drilled 1913
T. D. 1800' SSO.
No log on file.
Surface: Redwall ls.
Located on NW trending anticline in Redwall ls.

YUMA COUNTY

1. J. R. Loftus No. 1 (Stovall) NW¼ Sec. 4, T. 8 S., R. 13 W.

Commenced
Completed
T. D. 2360'.
Temperatures:

2405-45	110°
2500	120°
2545	140°

Shows: Black mud at 2545-50', methane gas.
Log on file and plotted. No correlations.

LOG OF FUNK WELL, SAN SIMON, ARIZONA
27-13S-30E
COCHISE COUNTY

0	95	clay and gypsum
95	125	water and gravel
125	175	clay and gypsum
175	180	water and gravel
180	394	blue clay and shale
394	400	yellow clay
400	630	blue shale and soapstone
630	695	brown shale, possibly little water
695	700	water and break
700	710	water sand
710	735	light brown shale
735	742	water sand, water filled hole
742	767	brown shale
767	837	blue soapstone shale
837	895	brown shale
895	905	light brown shale
905	1015	brown shale caved badly
1015	1065	water sand artesian flow
1065	1105	strictly red shale
1105	1128	water sand
1128	1200	sticky red shale
1200	1260	red sandy shale with traces of oil
1260	1290	water sand artesian flow 14,000 B. day
1290	1305	red clay
1305	1320	water sand, artesian
1320	1340	red sandy shale
1340	1355	red sticky shale
1355	1395	red sandy shale
1395	1415	red clay
1415	1460	red sandy shale
1460	1511	red sticky clay
1511	1517	sandy shale
1517	1525	brown sandy shale
1525	1550	brown shale
1550	1598	red shale
1598	1618	water sandy, artesian
1618	1675	red sandy shale, showing oil
1675	1678	water sand
1678	1723	red shale
1723	1747	red sand, considerable oil & gas
1747	1830	brown shale mixed
1830	1865	red shale caved badly
1865	1980	red shale mixed gravel
1980	1996	sand carrying some water
1996	2010	red sand oil colors
2010	2014	sand
2014	2020	red shale
2020	2030	red sand heavy oil sand at bottom
2030	2033	gravel seemed to carry some water
2033	2040	red sandy shale carrying black oil
2040	2044	small gravel
2044	2052	red shale mixed gravel
2052	2068	sand last 11 ft. carrying much black oil
2068	2103	tough hard brown and pink shale oil & gas

8 inch casing set formation shut off, all water 2080 ft., some gas and oil flowing continually from well between 10 & 12 inch casing, from 1720 ft. sand. 10 in. casing cemented at 2026 ft.

2103	2130	red shale, some gravel showing some oil and gas
2130	2140	red soapstone shale
2140	2181	red sandy shale
2181	2187	conglomerate shale
2187	2232	red sandy shale
2232	2284	red sandstone, some shale
2284	2285	red shale
2285	2297	red sand more oil & gas smell
2297	2310	red hard sand, little water traces of oil
2310	2333	brown shale oil trace
		red sticky sandy shale, oil & gas trace

LOG OF FUNK WELL, SAN SIMON, ARIZONA COCHISE COUNTY

2333	2353	red sticky shale, slight water, oil trace
2353	2367	red shale sand conglomerate
2367	2370	blue soapstone shale
2370	2407	red sand, more oil showing, gas smell
2407	2414	brownish red shale, oil & gas trace
2414	2424	red oil sand showing more oil and gas
2424	2430	sand little water apparently trace gas
2430	2460	red sand some shale, hard, oil trace
2460	2475	red sand some shale, hard, oil trace
2475	2494	red sandstone & shale
2494	2532	hard red sandstone
2532	2550	red sandy shale, oil & gas showing
2550	2595	brown shale " " "
2595	2650	hard brown sandy lime
2650	2664	red sand slight water " "
2664	2673	brown sandy lime oil and gas showing
2673	2685	brown shale " " "
2685	2692	brown lime " " "
2692	2698	brown shale " " "
2698	2704	brown lime " " "
2704	2730	brown shale " " "
2730	2754	brown sandstone " " "
2754	2766	brown shale " " "
2766	2784	brown shale 8" casing set at 2772'
2784	2798	brown shale, sandy lime, oil & gas show
2798	2805	lime " " "
2805	2812	brown shale " " "
2812	2849	brown lime some shale " " "
2849	2851	hard shell " " "
2851	2857	brown sandy lime more " " "
2857	3061	red sandstone, red lime, shale more oil & gas " "
3061	3065	brown lime showing " "
3065	3075	hard red sandy shale " "
3075	3077	hard red sandy lime " "
3077	3082	hard brown lime " "
3082	3090	hard red sandy lime " "
3090	3098	hard brown lime " "
3098	3100	hard brown sandy lime " "
3100	3104	red sandy lime showing oil & gas
3104	3115	red sandy lime more oil & gas
3115	3120	" " " " " "
3120	3125	red sandy shale " " "
3125	3127	" " " " " "
3127	3145	" " " " " "
3145	3158	brown sandy lime " "
3158	3165	hard red sandstone " "
3165	3195	" " " " "
3195	3215	" " " " "
3215	3220	hard red sandy lime " "
3220	3224	brown lime showing oil & gas, hard
3224	3227	hard light sandy brown lime showing oil & gas
3227	3232	" " " " " " " " "
3232	3236	hard brown lime " " "
3236	3240	pink soapstone shale " " "
3240	3265	pink sandy shale " " "
3265	3285	brown lime shale " " "
3285	3310	mixed brown & blue shale " " "
3310	3370	red sandy shale " " "
3370	3392	brown sandy shale " " "
3392	3438	hard gray lime " " "
3438	3448	red sandstone " " "
3448	3460	brown gray shale " " "
3460	3471	hard gray sandy lime heavily saturated
3471	3477	red sandstone softer "
3477	3488	red sandy lime " "
3488	3507	hard red sandy lime " "
3507	3547	hard red sandstone " "
3547	3572	very tough rubbery brown shale "
3572	3586	" " " " " "
3586	3815	Report mislayed, formation brown shale lime
3815	3865	reddish brown shale
3865	3872	hard brown lime

LOG OF FUNK WELL, SAN SIMON, ARIZONA COCHISE COUNTY

3872	3879	red sandstone little water break
3879	3990	red shale
3990	4050	red sandy shale
4050	4060	red water sand break
4060	4102	hard brown grayish sandy lime
4102	4106	brown shale
4106	4109	red sandstone
4109	4130	light brown sandy shale
4130	4152	brown sandstone
4152	4160	red sandstone some water
4160	4170	red sandy shale (6½" casing set)
4170	4195	hard brownish gray sandstone showing oil
4195	4207	brown shale
4207	4210	hard brown sandstone
4210	4325	broken sandstone
4325	4500	daily report mislayed
4500	4570	light brown sandstone
4570	4692	light broken sandstone
4692	4700	gray broken sandstone, showing more oil, gas blew slush out of bailer & burned
4700	4727	brown broken sandstone
4727	4743	brown sandstone, gas burns, more gas & oil
4743	4765	broken brown sandstone, gas burns
4765	4798	red sandy shale, more oil & gas
4798	4820	brown sandstone " " "
4820	4855	hard brown sandy lime, gas burns
4855	4890	reddish brown sandstone " "
4890	4922	red broken sandstone " "
4922	4950	brown mixed shale, caves badly
4950	4960	gray sandy lime
4960	4986	blue & gray mixed shale gas burns more
4986	4990	gray sandy lime broken, some shale, gas burns
4990	5016	broken lime shale, mixed, hard to tell, caving in

CASING RECORD

SIZE	DEPTH
15"	50-60 ft.
12"	650 ft.
10"	2026 ft.
8"	2772 ft.
6"	4170 ft.
4-3/4"	5000 (Out now and drilling with 6")

4-3/4 casing 5187
sluffing place 5483
bottom 5628

5016	5030	shale and conglomerate caved badly
5030	5080	light brown lime
5080	5093	brown shale
5093	5096	hard shell
5096	5110	brown and gray sandy lime shale, carrying oil and live gas
5110	5126	hard grey sandy lime, showing heavy oil and live gas burned
5126	5210	sandy light brown shale carrying oil and live gas
5210	5214	sand, heavy oil and gas and burned all live gas
5214	5250	sand and shale mixed oil and live gas
5250	5255	lime with salt water that raised about 350' in hole but in a few days it disappeared as they drilled and bailed.
5255	5374	broken lime shale
5374	5400	sandy lime, some oil and gas
5400	5410	brown shale
5410	5418	gray lime " " "
5418	5432	sandy lime " " "
5432	5464	brown shale slaked some
5464	5480	gray broken lime carrying oil and live gas
5480	5508	gray broken lime " " " "
5508	5662	gray broken hard lime carrying some oil and live gas

5662	5667	hard gray lime carrying oil and live gas
5667	5669	reddish gray sand, heavy oil and live gas & burned
5669	5680	gray broken lime shale " " " "
5680	5695	brown lime and shale slaking some, running in
5695	5738	gray lime broken a little
5738	5780	gray reddish sand mixed showing some oil
5780	5795	hard gray sandy lime
5795	5830	broken sandy lime shale
5830	5832	light brown, sandy lime. April 21st (some harder)
5852	5905	hard sandy lime
5905	5908	gray water sand with gas and good oil showing
5908	5996	hard sandy lime 18 in a day
5996	6000	broken streak of shale
6000	6012	hard sandy lime 18 in a day
6012	6014	broken streak, soft streak of shale carrying some live gas
6014	6040	hard brown sandy lime
6040	6042	softer, carrying live gas
6042	6050	hard sandy lime, one foot a day
6050	6052	softer, carrying little live gas and little oil showing
6052	6060	hard sandy lime one ft. a day
6060	6062	softer streak carrying a little live gas
6062	6066	hard sandy lime
6066	6068	softer, carrying little live gas
6068	6073	hard sandy lime
6073	6075	softer with more gas and oil showing
6075	6085½	hard sandy lime
6085½	6087½	softer, gas burned 2 min. out of bailer
6087½	6099½	hard sandy lime
6099½	6100½	softer streak, live gas
6100½	6135	hard sandy lime
6135	6147	broken formation, shale and live started coring
6147	6184	hard sandy lime and conglomerate
6184	6186	hard gray sandy lime, some live gas
6186	6197	hard sandy lime and conglomerate
6197	6200	brown shale
6200	6212	hard sandy lime and conglomerate
6212	6214	hard sandy lime, little live gas in core barrel tube
6214	6248	hard gray sandy lime, some conglomerate, just started into white fossilized lime with gas increasing.
6248	6400	hard fossilized sandy lime, showing frequent little leaders of live gas and oil.
6400	6492	gas wouldn't burn, but more gas foam and more oil showing all hard sandy fossilized sandy lime, and would not blow water out of bailer as before.
6492	6527	gas again became alive and burned strong out of bailer, and blew 15 to 20 ft. of water out of bailer, as above 6400 ft. hard sandy fossilized lime.
6527	6585	gas would not burn again nor blow out of bailer, hard fossilized lime.
6585	6643	hard fossilized sandy lime with more frequent streaks of live gas and oil, heavier or more oil and gas.
6643	6645	quite hard sandy lime, somewhat fossilized
6645	6645	heavy gas & oil bearing gas & oil, interlaid with streaks of hard sandy fossilized lime
6646 - close to 6650 - little over	6650	of very heavy gas and oil in porous sandy lime, oil flowing freely, little over.
	6651	porous sandy formation carrying salty water very hard fossilized lime capping carrying little gas & oil.

All water is out of hole and water is run in to drill by. Water was shut off and bailed and swabbed down to 3500 feet then bailed to the bottom gradually within a couple of weeks. This was done 3 or 4 weeks after the sandy lime was found carrying considerable live gas and oil that heavily saturated the hole with gas and oil until some gas bubbles would come out at the top of the water in the hole. This good sand was found between 5662 and 5669, where the hole full of water was standing against the gas and oil and drove it back and sealed off by the muddy water (See comment below)

From where the casing is setting at 5650 to 5662, the hole full of water was standing against the gas and oil for about 1½ years while underreaming about 300 feet of very hard lime, that burned that way after being drilled. Also in chopping up four underreamer lugs that fell in on top of the tools when the reamer broke, and after chopping and side-tracking them and taking tools out, considerable time was spent in chopping up the pieces left that fell to the bottom. Most of this open hole had been filled with heavy stuff from the caking place just above where the casing is now setting. This mud was removed and the drilling of lugs up before shutting off the water, but muddy water during that time. This is what was driven back and sealed the oil pores. Scarcely any gas or oil showed after taking the water off, as it had been driven back and sealed off.

The gas was so strong when it was struck, starting at 4695, that the entire hole of water was very heavily saturated with gas and oil and burned out of the bailer, after blowing much out, for 3 min. After getting the string of 4 3/4 inch casing and setting it at about 5,000 ft. and swabbed the gas that accumulated in the water several months previously, would burn 2 to 3 ft. out of the casing while the swab was coming up. The water should have been shut off as soon as the first live gas was entered at 4695, but we had no casing to do it with, and the 6 inch casing being light and second hand was not safe to run down after underreaming.

S. W. Funk, Trustee
Walter W. Tuttle, Supt. & Driller.

This copy of the log was done by one of our members, and is no doubt practically correct. The first paragraph above does not give full particulars.

The heaviest part of the oil bearing sandy lime was from 5662 to 5669 and especially the last 18 inches, but there was very oil bearing formation for 50 or 60 feet above the bottom at that time at 5669 feet.

This sand at the bottom has been tested by some different experts by cutting it with ether, and estimated it should produce at least 1500 barrels.

Since the thin mud was forced into the oil pores and sealed it off so that it could not be swabbed back, rather than cut the walls off with acid or shoot them off, we were advised by some oil experts to drill on a ways for the real "pay sands" or mother sands. We did not anticipate going but a short distance, possibly a hundred feet at most, but after going on we continued until we reached 6250, where we believe we just tapped the mother sands, in the white fossolized lime.

S.W.F.

Vic Pierce

LOG OF FUNK WELL, SAN SIMON, ARIZONA
27-23S-30E
COCHISE COUNTY

0	95	clay and gypsum
95	125	water and gravel
125	175	clay and gypsum
175	180	water and gravel
180	394	blue clay and shale
394	400	yellow clay
400	630	blue shale and soapstone
630	695	brown shale, possibly little water
695	700	water and break
700	710	water sand
710	735	light brown shale
735	742	water sand, water filled hole
742	767	brown shale
767	837	blue soapstone shale
837	895	brown shale
895	905	light brown shale
905	1015	brown shale caved badly
1015	1065	water sand artesian flow
1065	1105	stickly red shale
1105	1128	water sand
1128	1200	sticky red shale
1200	1260	red sandy shale with traces of oil
1260	1290	water sand artesian flow 14,000 B. day
1290	1305	red clay
1305	1320	water sand, artesian
1320	1340	red sandy shale
1340	1355	red sticky shale
1355	1395	red sandy shale
1395	1415	red clay
1415	1460	red sandy shale
1460	1512	red sticky clay
1512	1517	sandy shale
1517	1525	brown sandy shale
1525	1550	brown shale
1550	1598	red shale
1598	1618	water sandy, artesian
1618	1675	red sandy shale, showing oil
1675	1678	water sand
1678	1723	red shale
1723	1747	red sand, considerable oil & gas
1747	1830	brown shale mixed
1830	1865	red shale caved badly
1865	1980	red shale mixed gravel
1980	1996	sand carrying some water
1996	2010	red sand oil colors
2010	2014	sand
2014	2020	red shale
2020	2030	red sand heavy oil sand at bottom
2030	2033	gravel seemed to carry some water
2033	2040	red sandy shale carrying black oil
2040	2044	small gravel
2044	2052	red shale mixed gravel
2052	2068	sand last 11 ft. carrying much black oil
2068	2103	tough hard brown and pink shale oil & gas

8 inch casing set formation shut off, all water 2080 ft., some gas and oil flowing continually from well between 10 & 12 inch casing, from 1720 ft. sand. 10 in. casing cemented at 2026 ft.

2103	2130	red shale, some gravel showing some oil and gas
2130	2140	red soapstone shale
2140	2181	red sandy shale
2181	2187	conglomerate shale
2187	2232	red sandy shale
2232	2244	red sandstone, some shale
2244	2284	red shale
2284	2295	red sand more oil & gas small
2295	2297	red hard sand, little water traces of oil
2297	2310	brown shale oil trace
2310	2353	red sticky sandy shale, oil & gas trace

LOG OF FUNK WELL, SAN SIMON, ARIZONA COCHISE COUNTY

2333	2353	red sticky shale, slight water, oil trace
2353	2367	red shale sand conglomerate
2367	2370	blue soapstone shale
2370	2407	red sand, more oil showing, gas smell
2407	2414	brownish red shale, oil & gas trace
2414	2424	red oil sand showing more oil and gas
2424	2430	sand little water apparently trace gas
2430	2460	red sand some shale, hard, oil trace
2460	2475	red sand some shale, hard, oil trace
2475	2494	red sandstone & shale
2494	2532	hard red sandstone
2532	2550	red sandy shale, oil & gas showing
2550	2595	brown shale " " "
2595	2650	hard brown sandy lime
2650	2664	red sand slight water " "
2664	2673	brown sandy lime oil and gas showing
2673	2685	brown shale " " "
2685	2692	brown lime " " "
2692	2698	brown shale " " "
2698	2704	brown lime " " "
2704	2730	brown shale " " "
2730	2754	brown sandstone " " "
2754	2766	brown shale " " "
2766	2784	brown shale 8" casing set at 2772'
2784	2798	brown shale, sandy lime, oil & gas show
2798	2805	lime " " "
2805	2812	brown shale " " "
2812	2849	brown lime some shale " " "
2849	2851	hard shell " " "
2851	2857	brown sandy lime more " " "
2857	3061	red sandstone, red lime, shale more oil & gas " "
3061	3065	brown lime showing " "
3065	3075	hard red sandy shale " "
3075	3077	hard red sandy lime " "
3077	3082	hard brown lime " "
3082	3090	hard red sandy lime " "
3090	3098	hard brown lime " "
3098	3100	hard brown sandy lime " "
3100	3104	red sandy lime showing oil & gas
3104	3115	red sandy lime more oil & gas
3115	3120	" " " " " "
3120	3125	red sandy shale " " "
3125	3127	" " " " " "
3127	3145	" " " " " "
3145	3158	brown sandy lime " "
3158	3165	hard red sandstone " "
3165	3195	" " " " "
3195	3215	" " " " "
3215	3220	hard red sandy lime " "
3220	3224	brown lime showing oil & gas, hard
3224	3227	hard light sandy brown lime showing oil & gas
3227	3232	" " " " " " " " "
3232	3236	hard brown lime " " "
3236	3240	pink soapstone shale " " "
3240	3265	pink sandy shale " " "
3265	3285	brown lime shale " " "
3285	3310	mixed brown & blue shale " " "
3310	3370	red sandy shale " " "
3370	3392	brown sandy shale " " "
3392	3438	hard gray lime " " "
3438	3448	red sandstone " " "
3448	3460	brown gray shale " " "
3460	3471	hard gray sandy lime heavily saturated
3471	3477	red sandstone softer "
3477	3488	red sandy lime " "
3488	3507	hard red sandy lime " "
3507	3547	hard red sandstone " "
3547	3572	very tough rubbery brown shale "
3572	3586	" " " " " "
3586	3815	Report mislayed, formation brown shale lime
3815	3865	reddish brown shale
3865	3872	hard brown lime

LOG OF FUNK WELL, SAN SIMON, ARIZONA COCHISE COUNTY

3872	3879	red sandstone little water break
3879	3990	red shale
3990	4050	red sandy shale
4050	4060	red water sand break
4060	4102	hard brown grayish sandy lime
4102	4106	brown shale
4106	4109	red sandstone
4109	4130	light brown sandy shale
4130	4152	brown sandstone
4152	4160	red sandstone some water
4160	4170	red sandy shale ($6\frac{1}{2}$" casing set)
4170	4195	hard brownish gray sandstone showing oil
4195	4207	brown shale
4207	4210	hard brown sandstone
4210	4325	broken sandstone
4325	4500	daily report mislayed
4500	4570	light brown sandstone
4570	4692	light broken sandstone
4692	4700	gray broken sandstone, showing more oil, gas blew slush out of bailer & burned
4700	4727	brown broken sandstone
4727	4743	brown sandstone, gas burns, more gas & oil
4743	4765	broken brown sandstone, gas burns
4765	4798	red sandy shale, more oil & gas
4798	4820	brown sandstone " " "
4820	4855	hard brown sandy lime, gas burns
4855	4890	reddish brown sandstone " "
4890	4922	red broken sandstone " "
4922	4950	brown mixed shale, caves badly
4950	4960	gray sandy lime
4960	4986	blue & gray mixed shale gas burns more
4986	4990	gray sandy lime broken, some shale, gas burns
4990	5016	broken lime shale, mixed, hard to tell, caving in

CASING RECORD

SIZE	DEPTH
15"	50-60 ft.
12"	650 ft.
10"	2026 ft.
8"	2772 ft.
6"	4170 ft.
4-3/4"	5000 (Out now and drilling with 6")

4-3/4 casing 5187
sluffing place 5483
bottom 5628

5016	5030	shale and conglomerate caved badly
5030	5080	light brown lime
5080	5093	brown shale
5093	5096	hard shell
5096	5110	brown and gray sandy lime shale, carrying oil and live gas
5110	5126	hard grey sandy lime, showing heavy oil and live gas burned
5126	5210	sandy light brown shale carrying oil and live gas
5210	5214	sand, heavy oil and gas and burned all live gas
5214	5250	sand and shale mixed oil and live gas
5250	5255	lime with salt water that raised about 350' in hole but in a few days it disappeared as they drilled and bailed.
5255	5374	broken lime shale
5374	5400	sandy lime, some oil and gas
5400	5410	brown shale
5410	5418	gray lime " " "
5418	5432	sandy lime " " "
5432	5464	brown shale slaked some
5464	5480	gray broken lime carrying oil and live gas
5480	5608	gray broken lime " " " "
5608	5662	gray broken hard lime carrying some oil and live gas

LOG OF FUNK WELL, SAN SIMON, ARIZONA COCHISE COUNTY

5662	5667	hard gray lime carrying oil and live gas
5667	5669	reddish gray sand, heavy oil and live gas & burned
5669	5680	gray broken lime shale " " " "
5680	5695	brown lime and shale slaking some, running in
5695	5738	gray lime broken a little
5738	5780	gray reddish sand mixed showing some oil
5780	5795	hard gray sandy lime
5795	5830	broken sandy lime shale
5830	5832	light brown, sandy lime. April 21st (some harder)
5852	5905	hard sandy lime
5905	5908	gray water sand with gas and good oil showing
5908	5996	hard sandy lime 18 in a day
5996	6000	broken streak of shale
6000	6012	hard sandy lime 18 in a day
6012	6014	broken streak, soft streak of shale carrying some live gas
6014	6040	hard brown sandy lime
6040	6042	softer, carrying live gas
6042	6050	hard sandy lime, one foot a day
6050	6052	softer, carrying little live gas and little oil showing
6052	6060	hard sandy lime one ft. a day
6060	6062	softer streak carrying a little live gas
6062	6066	hard sandy lime
6066	6068	softer, carrying little live gas
6068	6073	hard sandy lime
6073	6075	softer with more gas and oil showing
6075	6085½	hard sandy lime
6085½	6087½	softer, gas burned 2 min. out of bailer
6087½	6099½	hard sandy lime
6099½	6100½	softer streak, live gas
6100½	6135	hard sandy lime
6135	6147	broken formation, shale and live started coring
6147	6184	hard sandy lime and conglomerate
6184	6186	hard gray sandy lime, some live gas
6186	6197	hard sandy lime and conglomerate
6197	6200	brown shale
6200	6212	hard sandy lime and conglomerate
6212	6214	hard sandy lime, little live gas in core barrel tube
6214	6248	hard gray sandy lime, some conglomerate, just started into white fossilized lime with gas increasing.
6248	6400	hard fossilized sandy lime, showing frequent little leaders of live gas and oil.
6400	6492	gas wouldn't burn, but more gas foam and more oil showing all hard sandy fossilized sandy lime, and would not blow water out of bailer as before.
6492	6527	gas again became alive and burned strong out of bailer, and blew 15 to 20 ft. of water out of bailer, as above 6400 ft. hard sandy fossilized lime.
6527	6585	gas would not burn again nor blow out of bailer, hard fossilized lime.
6585	6643	hard fossilized sandy lime with more frequent streaks of live gas and oil, heavier or more oil and gas.
6643	6645	quite hard sandy lime, somewhat fossilized
6645	6646	heavy gas & oil bearing gas & oil, interlaid with streaks of hard sandy fossilized lime
6646 - close to	6650	of very heavy gas and oil in porous sandy lime, oil flowing freely, little over.
6650 - little over	6651	porous sandy formation carrying salty water very hard fossilized lime capping carrying little gas & oil.

February 21, 1949

Mr. George H. Ebsen
San Simon, Arizona

Dear Mr. Ebsen:

A copy of the Funk well drilling log is enclosed.

I wish to again thank you for the very splendid cooperation and the amount of information that you gave me and the State Land Department on my visit last Thursday.

Very truly yours,

L. A. HEINDL
Geologist

LAHkb
encl.

No permit

January 24, 1949

Mr. George F. Sicks
San Simon, Arizona

Dear Mr. Sicks:

The enclosed log of the Funk well is being returned to you with many thanks. A copy has been made and placed in our files and we are very glad to have this information as it seems to be the only reliable data we have on this well.

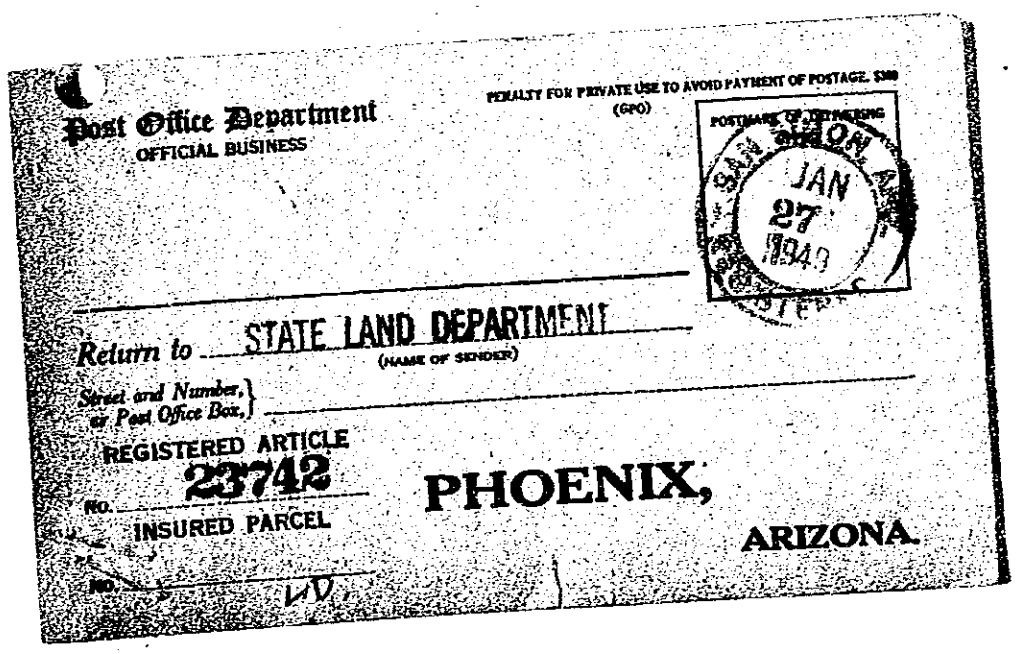
With best wishes,

Very truly yours,

L. A. Heindi
Geologist

Enc.
LAH:ld

No permit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January 13, 1949

Mr. George F. Sicks
San Simon, Arizona

Dear Mr. Sicks:

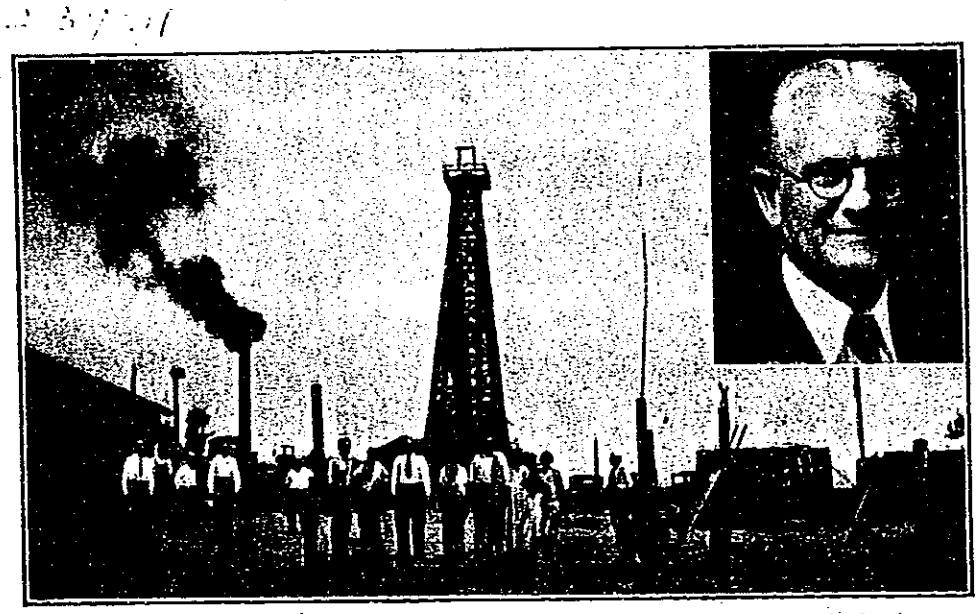
Thank you very much for the copy of the driller's log of the Funk well. As soon as I have a copy of it made, it will be returned to you.

Very truly yours,

L. A. Heindl

LAH:ld

Yopermit



TO MEMBERS OF THE MUTUAL ESCROW AGREE-MENT:

This is Your Oil Well No. 1 at San Simon, Arizona, taken Sept. 3rd, 1933, in operation.

Hole 5191 feet the 9th, making about three feet a day in hard, light brown shale, getting sandy, and heavier oil saturation and live gas. Mr. Funk in upper corner. More of these cards sent on request.

Sincerely, S. W. FUNK, Trustee, Charter Oak, Calif.

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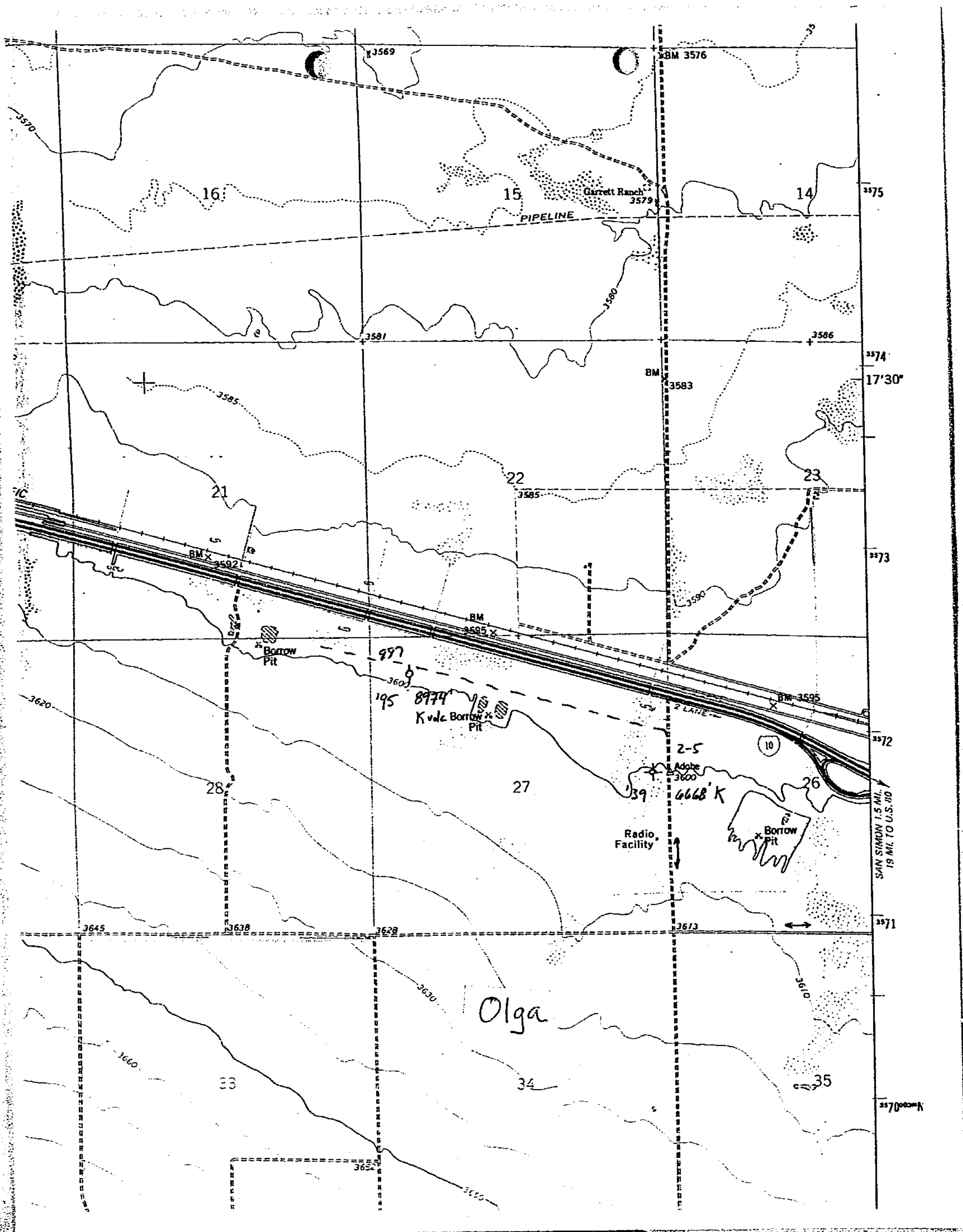

3569
BM 3576
3570
16
15
Garrett Ranch
3579
PIPELINE
14
3575
3580
3581
3586
3574
17'30"
BM
3583
3585
21
22
23
BM
3592
3573
3590
BM
3595
Borrow Pit
997
195
8974'
Borrow Pit
3620
2 LANE
BM 3595
10
3572
2-5
Adobe
3600
39
6668' K
27
26
28
Radio Facility
Borrow Pit
SAN SIMON 1.5 MI.
19 MI. TO U.S. 80
3645
3638
3628
3613
3571
3630
Olga
3610
3660
33
34
35
3570000m N