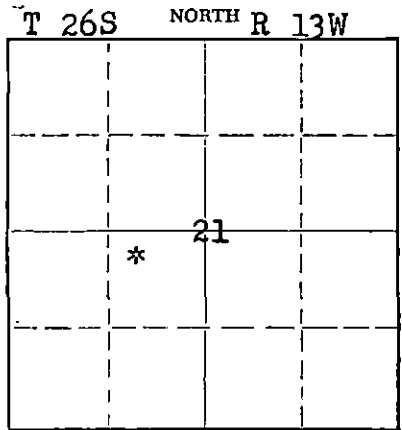


STATE OF KANSAS
STATE CORPORATION COMMISSION

WELL PLUGGING RECORD

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
211 No. Broadway
Wichita, Kansas

Pratt County. Sec. 21 Twp. 26S Rge. 13W(E)____(W)
Location as "NE/CNW/SW" or footage from lines NW NE SW
Lease Owner A. G. Hill
Lease Name Frisbie Well No. 1
Office Address 101 Wagstaff Bldg. - Abilene, Texas
Character of Well (completed as Oil, Gas or Dry Hole) Abandoned
Date well completed May 25, 1954
Application for plugging filed March 4, 1957
Application for plugging approved March 5, 1957
Plugging commenced March 20 1957
Plugging completed March 29 1957
Reason for abandonment of well or producing formation Dry



Locate well correctly on above Section Plat

If a producing well is abandoned, date of last production February 20, 19 57
Was permission obtained from the Conservation Division or its agents before plugging was commenced? Yes

Name of Conservation Agent who supervised plugging of this well Merle Rives
Producing formation _____ Depth to top _____ Bottom _____ Total Depth of Well 4484 Feet
Show depth and thickness of all water, oil and gas formations.

OIL, GAS OR WATER RECORDS

CASING RECORD

FORMATION	CONTENT	FROM	TO	SIZE	PUT IN	PULLED OUT
				8-5/8"	520'	None
				5-1/2"	4473'	2496'

Describe in detail the manner in which the well was plugged, indicating where the mud fluid was placed and the method or methods used in introducing it into the hole. If cement or other plugs were used, state the character of same and depth placed, from _____ feet to _____ feet for each plug set.

Filled the hole with sand from 4484' to 4460' and ran 5 sacks of cement which filled to 4425'. Pulled casing up to 1600' and circulated the hole with 43 sacks of Aquagel mud. Pulled rest of casing and bailed the hole to 310'. Set a 10' rock bridge at 310' and ran 20 sacks of cement which filled from 300' to 230'. Mudded the hole to 40', set a 5' rock bridge and ran 10 sacks of cement which filled to the base of the cellar. Plugging completed.

(If additional description is necessary, use BACK of this sheet)

Name of Plugging Contractor West Supply Co., Inc.
Address Chase, Kansas

STATE OF Texas COUNTY OF Taylor, ss.
E. L. Corley (employee of owner) or (~~owner~~) of the above-described well, being first duly sworn on oath, says: That I have knowledge of the facts, statements, and matters herein contained and the log of the above-described well as filed and that the same are true and correct. So help me God.

(Signature) E. L. Corley
101 Wagstaff Bldg., Abilene, Texas
(Address)

SUBSCRIBED AND SWORN TO before me this 2 day of April, 19 57

My commission expires June 1, 1957 Jessette Munn Notary Public.

PLUGGING
FILE SEC. 21 T. 26 R. 13W
BOOK PAGE 145 LINE 24

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STATE CORPORATION COMMISSION
4-4-57
APR 4 - 1957
CONSERVATION DIVISION
Wichita, Kansas

JOHNS AND MAGATHAN
CONSULTING GEOLOGISTS

WENDELL S. JOHNS
WILLIS JACK MAGATHAN

501 BITTING BUILDING
WICHITA 2, KANSAS

TELEPHONE 3-1540

July 7, 1954

A. G. Hill
101 Wagstaff Building
Abilene, Texas

Geological Report: A.G. Hill #1 Frisbie
NW NE SW: 21-26S-13W
Pratt County, Kansas
Elevation: 1938 derrick floor
1941 rotary bushing
Contractor: Reserve Drilling Co.

Gentlemen:

The #1 Frisbie was spudded May 9, 1954 and was drilled from the surface to a total depth of 4484 with rotary tools. Samples were saved and a time log was kept from 3500' to the total depth.

A Schlumberger Salt Mud Survey was run on this well and the electric log measurements agreed with drilling measurements to within a foot or so. The Drilling measurements have been used throughout this report.

The following is a list of formation tops and other data of interest. Unless otherwise noted, all information is from my sample log which has been corrected for sample lag by use of the time log. All measurements are taken from the top of the rotary bushing which is three feet above the derrick floor. The rotary bushing elevation has been used to compute all distances from sea level.

<u>Formation Name</u>	<u>Depth Below Surface</u>	<u>Distance from Sea Level</u>	<u>Remarks</u>
8 5/8" surface casing	520'		300 sacks cement 42% gel & 150# Flocele Drillers top
Stone corral Anhydrite	890 - 910	1051 to 1031	
Heebner Shale	3606 - 10	-1665 to -1669	
Top Brown Lime	3775	-1834	
Top Lansing	3803	-1862	
(1) Porous zone	3832 - 43		Slight stain
(2) Porous zone	4256 - 59		Very slight stain
(2a) Porous zone	4263 - 66		Very slight stain
(2b) Porous zone	4268 - 70		Very slight stain
(3) Porous zone	3910 - 16		No show
(4) Porous zone	3923 - 32		No show
(5) Porous zone	3935 - 45		Slight trace stain
(6) Porous zone	3971 - 75		Slight to fair stain
(7) Porous zone	3991 - 95		Fair stain
(8) Porous zone	4004 - 12		No show
(9) Porous zone	4022 - 28		Slight stain

PLUGGING			
FILE	SEC. 21	T. 26	R. 13W
BOOK	PAGE 145	LINE	24

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MAR 5 - 1957

CONSERVATION DIVISION
Wichita, Kansas

(2) Geological Report: A. G. Hill
#1 Frisbie

<u>Formation Name</u>	<u>Depth Below Surface</u>	<u>Distance from Sea Level</u>	<u>Remarks</u>
Base Kansas City	4117	-2176	
Top Marmaton	4117	-2176	
(1) Porous zone	4156 - 67		Slight show free oil, D.S.T.
(2) Porous zone	4181 - 92		Slight show free oil, D.S.T.
Possible Top Mississippi	4236	-2295	
Probable Top Mississippi	4265	-2324	
(1) Chert zone	4265 - 78		Slight odor: D.S.T.
Top Kinderhook	4278	-2337	
Top Viola	4306	-2365	
(1) Porous zone	4326 - 68		Spotted very slight show of free oil: D.S.T.
Top Simpson	4409	-2468	
(1) Sand zone	4415 - 34		Slight show free oil, good odor: D.S.T.
(2) Shaley sand zone	4439 - 46		Spotted slight show free oil; D.S.T.
(3) Sand zone	4446 - 50		Slight show free oil; D.S.T.
Rotary Total Depth	4484	-2543	
5 1/2" Casing	4473		125 sacks cement

Drill Stem Test Data:

<u>Marmaton:</u>	D.S.T. #1	4158 - 95; open 1 hour-weak blow which increased to fair blow at end test. Recovered 25' mud Bottom Hole Pressure 350# (20 min. still building up rapidly)
<u>Mississippi:</u>	D.S.T. #2	4262 - 82; open 1 hour - strong blow throughout test, gas to surface in 45 minutes. Recovered 35' gas cut mud Bottom Hole Pressure 1370# (20 Min.)
<u>Viola:</u>	D.S.T. #3	4321 - 55; open 45 minutes - weak blow for 1 minute opened bypass at 30 minutes and had weak blow for 1 minute after closing. Recovered 40' mud Bottom Hole Pressure 40# (20 min.)
<u>Simpson</u>	D.S.T. #4	4414 - 60; open 1 hour, weak intermittent blow for 10 minutes, closed and re-opened tool at 30 minutes and had weak blow for 8 minutes. Recovered 15' mud with distinct rainbow Bottom Hole Pressure 342# (20 min. still building up rapidly)

(3) Geological Report: A. G. Hill
#1 Frisbie

Completion Data:

Perf. 113 holes 4415 - 34

Spotted 250 gal. acid / 250 gal. mud acid

Swabbed back all but 6 barrels of load.

Ran bailer every hour for 3 hours. Had about 3 gal. water & about a pint of oil each time the bailer was run.

Swab /3 gal. oil / trace water /2 hrs.

Ran tubing and Petrofraced with:

5000# sand / 4000 gal. oil followed by

250 gal. XEJ 850 jel, followed by

5000# sand / 4000 gal. oil.

Swab back 186 barrels load in 4 hours.

Next morning had 2200' oil in hole

Swabbed 80 barrels load oil in 10 hours.

Next morning had 900' fluid in hole.

Swabbed 48 barrels oil / 12 barrels water in 10 hours.

Next morning had 900' fluid in hole.

Ran tubing and rods and installed pumping equipment.

Structural Position:

On top of the Lansing, the #1 Frisbie was 3' higher than the #1 Dodson and 12' higher than the Iron #1 Frisbie, a dry hole in SW SW SE section 21-26S-13W. On top of the Simpson the #1 Frisbie was 5' higher than the #1 Dodson and 33' higher than the Iron Frisbie

Future Prospects - Additional Producing Horizons:

Lansing - Kansas City:

All of the zones in the Lansing - Kansas City appear, on examination of the electric log, either too tight or to carry water. None of the zones looked very prospective in the samples.

Marmaton:

Two zones (4156 - 67 and 4181 - 92) had slight shows of free oil in the samples. However a drill stem test covering both zones failed to recover anything more than a few feet of drilling mud. Since neither zone looks particularly prospective on the electric log, it is doubtful that they are deserving of further tests.

Mississippi:

It is possible that the chert zone (4265 - 78) might make a small gas well if treated with sand-oil frac. Whether such a well would have commercial possibilities would depend on the availability of a market when production from the present producing zone is exhausted and recompletion in another zone becomes necessary.

(4) Geological Report: A.G. Hill
#1 Frisbie

Future Prospects - Additional Producing Horizons:

Viola:

The resistivity on the electric log, in the chert zone (4326 - 68) is a little higher than normal for a Viola well in this area. This coupled with the fact that a drill stem test covering this zone failed to recover even a small amount of oil, would indicate that the zone is probably not worthy of further tests.

Simpson:

The well is now producing through perforations in sand zone #1 (4415 - 34)

There is a possibility that the shaly sand zone from 4439 - 63 might make a small well. It should be tested before the well is abandoned.

Very truly yours
JOHNS & MAGATHAN

By 
Willis Jack Magathan

A. G. Hill #1 Frisbie
 NW NE SW; 21-26S-13W
 Pratt County, Kansas
 Elevation; 1938 Derrick Floor

8 5/8" surface casing; 520'
 5 1/2" casing; 4473'
 Comm: 5-9-54
 Comp:

Note: All measurements are from the top of the rotary bushing
 which is 3" above the derrick floor.

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
0	170 Sand and gravel	Drillers log 0-3500'
170	525 Red bed and shells	
525	890 Red bed and shale	
890	910 Anhydrite	Stone corral (Drillers top)
910	1570 Shale and red bed	
1570	1770 Shale and shells	
1770	2035 Limestone and shale	
2035	2185 Limestone	
2185	2340 Limestone and shale	
2340	2460 Shale and limestone	
2460	2615 Limestone and shale	
2615	3060 Shale and limestone	
3060	3190 Limestone and shale	
3190	3325 Shale and limestone	
3325	3450 Limestone and shale	
3450	3500 Sandy limestone and shale	
3500	24 Limestone, cream, sub crystalline, oolitic, spotted oolitic porosity	Sample log 3500 to T.D. No show
3524	27 Limestone; gray shale streaks	
3527	34 Porous limestone, as above	No show
3534	47 Limestone, gray, finely crystalline	
3547	54 Limestone, porous, as above	No show
3554	68 Limestone, tan, sub-crystalline	
3568	78 Limestone, tan, finely sucrose, dolomitic, spotted fine vugular porosity	Possible trace spotted stain
3578	3606 Limestone, tan to cream, sub-crystalline to finely crystalline; streaks gray shale	
3606	10 Shale, brown-black, soft, micaceous	Heebner
3610	17 Limestone, brown-gray, sub-crystalline to dense	Leavenworth
3617	25 Shale, gray and gray-green	Snyderville
3625	39 Limestone, cream to white, finely crystalline to sub-crystalline, chalky	Toronto
3639	67 Shale, gray and gray-green, finely micaceous; some fine gray micaceous siltstone; trace fine gray, vugular, argillaceous sand.	Top Douglas 3639
3667	3712 Sand, fine to medium, gray to white sub-angular, dolomitic, micaceous glauconitic	No show
3712	75 Shale, as above; streaks sand, as above	

(2) Formation Log
 A. G. Hill #1 Frisbie

<u>Depth</u>		<u>Formation Description</u>	<u>Remarks</u>
3775	80	Limestone, dark brown, dense, resinous	Top Brown Lime 3775
3780	3803	Shale, gray; streak brown, dense limestone 3795 - 99	
3803	32	Limestone, cream to gray, finely crystalline some earthy, streak brown shale 3822 - 26	Top Lansing 3803
3832	43	Limestone, tan to gray, sub-crystalline; spotted vugular porosity	Slight stain
3843	56	Limestone, brown, sub-crystalline to dense; gray and brown shale streaks	
3856	70	Limestone, tan finely crystalline to sub-crystalline; spotted vugular porosity 3856-59, 3863-66 and 3868-70	Very slight stain
3870	3910	Limestone, tan to brown and brown-black, dense, fossiliferous; chert, gray to brown, earthy, opaque; streaks gray and brown shale	
3910	16	Limestone, buff to brown, finely sucrose; poor spotted vugular porosity; No show much gray, opaque chert.	
3916	23	Limestone and chert, as above, no porosity	
3923	35	Limestone, brown, finely crystalline, resinous; spotted fair vugular, porosity 3923-32; chert as above	No show
3935	45	Limestone, light tan to buff, finely sucrose, oolitic; good oolitic porosity	Slight trace stain
3945	71	Limestone, tan to cream, sub-crystalline to dense, some oolitic; chert, gray, figured to brown, opaque; streaks brown and gray shale.	
3971	75	Limestone, tan, sub-crystalline, oolitic; good oolitic porosity.	Slight to fair stain
3975	91	Limestone, tan to cream, sub-crystalline; streak gray-brown shale 3986-88	
3991	95	Limestone, brown, medium crystalline, oolitic, good oolitic and vugular porosity	Fair stain
3995	4004	Limestone, tan, dense	
4004	12	Limestone, tan to gray, finely crystalline oolitic; good oolitic porosity	No show

(5) Formation Log:
A.G. Hill #1 Frisbie

<u>Depth</u>	<u>Formation Description</u>	<u>Remarks</u>
4012 22	Limestone, light gray to tan, sub-crystalline to dense; trace dark gray, opaque chert	
4022 28	Limestone, gray, finely crystalline, oolitic; fair vugular and oolitic porosity	Slight stain
4028 4117	Limestone, tan to brown, finely crystalline to dense, resinous; streaks brown and gray-black shale	Base Kansas City 4117
4117 30	Shale, gray, gray-green and brown maroon	Top Marmaton 4117
4130 34	Limestone, tan to gray, sub-crystalline	
4134 52	Shale, as above; streaks limestone	
4152 67	Limestone, gray, sub-crystalline, fossiliferous; chert, amber to brown to salmon, translucent; porous 4156-67	Slight show free oil; D.S.T.
4167 76	Shale, as above	
4176- 92	Limestone, as above; much gray to brown, porous, devitrified chert, much flesh-colored opaque chert; limestone, gray, silicified; porous 4181 - 92	Slight show free oil D.S.T.
4192 4219	Shale, gray-black to gray-green and brown	
4219 30	Limestone, gray sub-crystalline with orange and gray oolites; some silicified limestone; as above	
4230 36	Shale as above	
4236 65	Mostly limestone, as above, some dark forrest green limestone; chert, as above; white to black semi-devitrified to devitrified, shale streak from 4254 - 56	Possible Mississippi
4265 78	Chert, cream to salmon, vitreous to sub-vitreous, semi-translucent; chert, white, devitrified, oolitic	Probable Top Mississippi 4265; much gilsonite slight odor; D.S.T.
4278 82	Shale, gray to pale gray-green to gray-black	Top Kinderhook 4278
4282 4301	Limestone, gray-green and brown sub-crystalline, earthy; probably some chert, as above	
4301 06	Shale, as above	
4306 15	Limestone, white to pink to cream medium to coarsely crystalline; chert, white, opaque, some figured; chert, salmon, semi-translucent.	Top Viola 4306
4315 19	Shale, pale gray-green to gray	
4319 26	Limestone, as above	

(4) Formation Log:
A. G. Hill #1 Frisbie

<u>Depth</u>		<u>Formation Description</u>	<u>Remarks</u>
4326	68	Chert, as above; much white silicified limestone; much white to brown, devitrified porous chert with slight show free oil; Dolomite, gray to cream, finely sucrose; limestone white, chalky, dolomitic.	Very slight show free oil; fair odor D.S.T.
4368	88	Limestone, cream, sub-crystalline. dolomitic, limestone, white, very finely sucrose; less chert, as above; thin streaks pale green shale	
4388	4409	Limestone, gray to white, medium to coarsely crystalline; some white to tan, finely crystalline, sandy limestone	
4409	15	Shale, dark green, sandy; some sand, white, sub-rounded, poorly sorted	Top Simpson 4415
4415	32	Dand, gray to tan to white, glassy, dolomitic, sub-angular to sub-rounded, fairly well sorted	Slight show free oil, good odor; D.S.T
4432	39	Dolomite, brown, finely crystalline resinous, sandy	
4439	46	Sand, as above, very shaly	
4446	50	Sand, as above, coarse; some fine brown, dirty sand.	Slight show free oil good odor, D.S.T.
4450	63	Sand, gray to white, angular, coarse, poorly sorted, quartzitic; streaks pale green sandy shale.	
4463	84	Mostly shale, gray-green, dark green and gray-black, some sandy streaks sand, as above; streaks coarse, well rounded, frosted sand, streaks brown, finely crystalline to dense, sandy dolomite.	
4484		Rotary Total depth	

Drill Stem Test Data:

<u>Marmaton:</u>	D.S.T. #1	4158 - 95; open 1 hour-weak blow which increased to fair blow at end test. Recovered 25' mud Bottom Hole Pressure 350# (20 min. still building up rapidly)
<u>Mississippi:</u>	D.S.T. #2	4262 - 82; open 1 hour- strong blow throughout test, gas to surface in 45 minutes. Recovered 35' gas cut mud Bottom Hole Pressure 1370# (20 min.)
<u>Viola:</u>	D.S.T. #3	4321 - 55; open 45 minutes-weak blow for 1 minute opened bypass at 30 minutes and had weak blow for 1 minute after closing. Recovered 40' mud Bottom Hole Pressure 40# (20 min.)

(5) Formation Log: A.G. Hill #1 Frisbie

Drill Stem Test Data:

Simpson

D. S.T. #4 Hill - 60; open 1 hour, weak intermittent blow for 10 minutes, closed and re-opened tool at 30 minutes and had weak blow for 8 minutes.
Recovered 15' mud with distinct rainbow.
Bottom Hole Pressure 342# (20 min. still building up rapidly)

Samples examined and log compiled by Willis Jack Magathan

TIME LOG

A. G. Hill #1 Frisbie
 NW NE SW, 21-26S-13W
 Pratt County, Kansas
 Elevation: 1938 derrick floor

Note: All measurements are from the top of the rotary bushing which is 3' above the derrick floor.

<u>Depth</u>	<u>Time</u>	<u>Remarks</u>
3500	10	2-1-1-2-3-2-1-1-3-3
	20	3-2-3-2-2-3-2-3-2-3
	30	2-2-2-2-3-2-4-3-2-2
	40	3-2-3-2-2-2-3-3-3-3
	50	3-3-4-3-3-3-4-3-3-3
	60	3-3-3-3-4-3-3-4-3-3
	70	3-4-4-5-4-4-3-3-2-2
	80	2-2-2-1-2-3-3-4-4
	90	4-4-5-4-4-4-4-3-4-5
90 3600		4-4-5-4-4-4-4-3-2-4
3600	10	5-5-5-5-5-5-4-3-3-2
	20	2-2-2-5-5-5-6-5-5-4
	30	4-3-4-5-5-4-3-3-3-3
	40	5-4-5-5-5-4-5-5-4-5
	50	5-5-4-4-4-3-3-4-4-4
	60	3-4-3-3-4-4-4-4-4-4
	70	4-4-4-5-4-5-5-4-3-3
	80	3-2-2-2-2-1-1-1-1-2
	90	2-2-2-1-1-3-2-2-3-2
90 3700		2-1-2-2-1-2-1-2-2-2
3700	10	3-2-2-2-2-2-1-6-4-3
	20	3-5-5-5-4-4-4-7-5-4
	30	4-4-4-4-4-4-6-5-5-5
	40	6-6-6-6-6-5-5-5-5-5
	50	5-6-6-6-5-5-4-4-6-5
	60	5-5-5-5-5-6-5-5-6-6
	70	4-6-5-6-6-5-5-5-6-6
	80	4-5-6-6-6-6-6-6-6-7
	90	7-7-8-8-7-7-7-7-7-8
90 3800		6-7-7-6-8-7-8-7-6-6
3800	10	7-7-6-8-6-6-7-7-7-7
	20	9-8-8-7-7-8-8-8-9-9
	30	9-10-4-5-6-5-7-6-7-6
	40	6-6-4-4-5-4-4-4-4-4
	50	4-5-4-5-5-6-6-7-6-7
	60	6-7-7-4-3-2-3-3-4-3
	70	3-2-2-2-2-3-4-4-3-4
	80	6-7-6-6-7-7-6-6-5-8
	90	7-8-8-7-7-6-9-10-11-11
90 3900		9-8-9-8-8-10-7-8-7-6
3900	10	6-5-5-5-3-6-7-6-5-4
	20	4-4-3-3-4-6-10-10-10-12
	30	11-15-7-6-8-6-6-7-6-7
	40	7-7-9-11-12-10-12-10-7-9
	50	12-15-8-6-7-9-10-9-7-5
	60	6-6-7-7-5-6-2-1-2-7
	70	9-7-6-8-7-7-7-7-5-5

Top Heebner 3606

Top Brown Lime 3775

Top Lansing 3803

Trip @ 3822

Circ. 1 1/2 hours @ 3915

Trip @ 3942

(2) Time Log: A. G. Hill #1 Frisbie

Depth	Time	Remarks
80	3-3-1-2-3-8-7-6-8-7	
90	8-7-4-5-6-4-5-5-8-6	
90 4000	8-3-2-2-3-5-7-6-7-6	
4000 10	6-5-3-2-1-4-1-2-3-2	
4000 20	2-3-4-6-6-6-7-7-6-8	Circ. 1 1/2 hr. @ 4015
30	8-7-6-4-3-3-5-7-8-8	
40	8-5-5-4-4-5-5-5-6-8	
50	9-8-7-8-8-7-7-7-10-8	
60	9-8-7-8-9-9-10-10-10-10	Trip @ 4060
70	7-11-8-6-10-5-10-7-8-8	
80	6-5-8-8-9-10-8-9-8-8	
90	9-8-7-8-10-10-7-7-7-7	
90 4100	8-6-5-6-7-7-7-8-8-9	
4100 10	8-8-7-7-7-7-4-5-8-8	
20	8-7-8-7-9-9-9-7-6-7	Base Kansas City 4117
30	7-7-7-5-4-6-4-6-5-6	Top Manhattan 4117
40	8-8-9-6-7-6-6-6-6-7	
50	8-8-10-11-11-10-10-10-9-8	
60	11-9-11-10-10-11-10-12-10-7	Trip @ 4159
70	5-7-10-7-7-9-9-7-8-7	
80	4-2-2-3-5-3-11-11-7-8	
90	8-9-10-7-7-5-6-7-5-6	
90 4200	6-6-8-8-8-7-7-7-6-9	
4200 10	11-12-12-8-8-5-6-6-5-6	Circ. 1 1/2 hr @ 4195; D.S.T. New bit @ 4195
20	8-12-12-7-5-7-5-8-5-5	
30	4-5-7-9-12-12-12-12-8-11	
40	9-11-11-9-8-7-7-7-7-10	Possible top Mississippi
50	9-7-6-7-6-6-5-7-7-6	
60	8-8-8-7-11-11-15-11-11-13	
70	11-11-15-13-7-5-5-5-5-5	Probable Top Mississippi 4265
80	5-5-5-5-6-4-7-11-6-11	Top Kinderhook 4278
90	16-30-10-12-19-11-19-17-17-16	Circ 1 1/2 hr @ 4282 D.S.T.
90 4300	16-11-15-15-15-11-12-16-12-13	New bit @ 4282
4300 10	16-9-10-7-7-7-10-11-8-11	Top Viola 4306
20	10-12-10-10-10-4-6-8-12-18	
30	20-17-20-15-17-18-18-11-10-11	
40	11-15-11-9-5-11-11-9-10-13	
50	15-15-15-13-18-16-18-15-15-11	
60	8-12-9-10-11-7-9-6-10-10-	
70	10-10-13-12-10-10-13-13-13-11	Circ. 1 1/2 hr @ 4355; D.S.T. New bit @ 4355
80	11-18-15-12-13-11-15-13-18-13	
90	12-13-15-12-10-9-12-12-9-11	Circ. 2 hr @ 4390
90 4400	10-9-8-8-8-8-7-9-7-9	Trip @ 4390
4400 10	8-10-8-7-7-7-9-9-8-6	Circ. 1 1/2 hr @ 4405
20	6-9-7-7-7-4-5-4-3-4	Top Simpson 4409
30	4-4-5-4-4-4-6-6-4-6	Circ. 1 1/2 hr @ 4420
40	5-6-9-8-12-11-11-11-12-5	
50	7-6-6-6-5-7-7-6-11-7	
60	12-11-11-10-11-11-12-12-11-10	Circ. 1 1/2 hr @ 4460; D.S.T.; New bit @ 4460
70	8-8-7-8-8-8-8-7-8-9	
80	8-8-9-8-9-9-8-9-7-9	
90	10-8-9-7	Circ. 1 1/2 hr @ 4485 R.T.D. 4485