Drill Stem Test No. 8 - Took DST No. 8 from 6633 to 6704 feet with Johnston double wall packer and double bomb assembly less trip valve. Bottom hole choke 5/8 inch. Top choke adjustable. Tool open 3 hours. Sweet gas to surface in 2 minutes and distillate to surface in 40 minutes. Flowed into test tank a total of 4.80 barrels of distillate in 2-1/3 hours. Distillate was water white with a gravity of 79 degrees corrected. Gas metered at rate of 1800 M.C.F. per day. Gas oil ratio 24,000. Flowing surface pressure 1900 p.s.i. Pulled tool and recovered 475 feet (7.16 barrels) distillate and 258 feet (2.58 barrels) distillate cut mud.

Drill Stem Test No. 9 - Took DST No. 9 from 6700 to 6752 feet with Johnston double wall packer and double bomb assembly and with 5/8 inch B.H.C. and 1" open top choke. Tool open 3 hours. Sweet gas to surface in 16 minutes and gas flow during remainder of test at rate of 30 M.C.F. per day. Took 15 minute B.H.P. buildup test, pulled up 3 stands and waited for daylight. Pulled DST No. 9 and recovered 850 feet (11.4 barrels) slightly oil and gas cut drilling mud. Mud probably entered drill pipe while going in hole as tool was run less trip valve. Flowing B.H.P. 400 p.s.i. and 15 minute shut in B.H.P. 2400 p.s.i. Titrations: Pit mud 1200 p.p.m., top of mud column 1500 p.p.m., middle of mud column 38,600 p.p.m. and bottom of mud column 39,200 p.p.m. total chlorides.

Drill Stem Test No. 10 - Took DST No. 10 from 7511 to 7611 feet with Halliburton full hole, double packer, double bomb assembly with 5/8 inch bottom choke and 1 inch top choke. Tool was open one hour. Received good blow of air immediately diminishing to fair blow in one hour. Recovered 150 feet (1.5 barrels) of gas and mud cut sulphur water. Titrations: Pit mud 1800, top of mud column 11,500 p.p.m. chlorides. Flowing B.H.P. 200 p.s.i. After 15 minute buildup shut in B.H.P. 300 p.s.i. Hydrostatic mud head 3825 p.s.i.

Drill Stem Test No. 11 - Took DST No. 11 from 8059 to 8125 feet with Halliburton full hole, double packer, double bomb assembly with 5/8 inch bottom choke and 1 inch top choke. Tool was open 120 minutes. Received fair air blow immediately, increasing to strong blow in 2 minutes. Air blow diminished to very poor after 75 minutes. Closed tool after 75 minutes to take buildup and received sweet gas to surface. Reopened tool and received poor gas blow for 45 minutes. Closed tool and took 15 minute buildup. Recovered 90 feet (1.8 barrels) drilling mud, 310 feet (6.2 barrels) heavily oil and gas cut mud and 50 feet (1 barrel) salt water. Titrations (p.p.m. chlorides): Pit mud 8000, middle fluid column 16,000, bottom fluid column 120,500. Hydrostatic mud head 4200 p.s.i. Shut in B.H.P. 500 p.s.i.

Drill Stem Test No. 12 - Took DST No. 12 from 8417 to 8487 feet (corrected depths) with Halliburton double bomb, double packer assembly with 5/8 inch bottom hole choke and 1-1/4 inch open top. Tool was open 30 minutes. Received faint air blow immediately, diminishing to nil in 15 minutes. Recovered 160 feet (3.2 barrels) drilling mud with no shows. Flowing B.H.P. less than 100 p.s.i. Titrations (p.p.m. chlorides): Pit mud 6,500; top and bottom of fluid column 6,500.

Drill Stem Test No. 13 - Took DST No. 13from 8486 to 8537 feet with Halliburton double packer, double bomb assembly with 5/8 inch bottom choke and 1 inch top choke. Tool was open 40 minutes. Received faint air blow which diminished to nil in 15 minutes. Recovered 50 feet (1 barrel) drilling mud with no shows. Titrations (p.p.m. chlorides); pit mud 7,750; bottom of fluid column 14,500.

Drill Stem Test No. 14 - Took DST No. 14 from 8536 to 8572 feet with Halliburton double bomb, double packer assembly with 5/8 inch bottom choke and 1 inch top choke. Tool was open one hour. Received faint air blow immediately, diminishing to nil in 5 minutes. Took 15 minute buildup. Recovered 46 feet (1 barrel) of drilling fluid with no show. Titrations(p.p.m. chlorides)Pit mud 8000; top of fluid column 11,000; Middle of fluid column 10,500; bottom of fluid column 9000. Flowing B.H.P. 40 p.s.i. Shut in B.H.P. 2000 p.s.i. in 15 minutes.Hydrostatic mud head 4320 p.s.i. Mud apparently leaked by packers during buildup test. Positive test.

TAYLOR GLENN NO. 1
DRILL STEM TEST RECORD

Drill Stem Test No. 1 - Took DST No. 1 from 3915 to 3990 feet with Johnston double wall packer and double bomb assembly with 5/8" bottom hole choke and 1¼ inch open top. Tool open one hour. Fair blow throughout. Recovered 215 feet (1.93 barrels) oil and gas cut drilling mud with slight amount of free oil. Flowing bottom hole pressure too low to measure. Titrations: Pit mud 1500 p.p.m. Top of fluid column 1000 p.p.m. Bottom of fluid column 2500 p.p.m. total chlorides.

Drill Stem Test No. 2 - Took DST No. 2 from 3985 to 4085 feet with Johnston double wall packer assembly and two bombs. Tool open one hour. Sour gas to surface in 20 minutes. Flowed gas during remainder of test at estimated rate of 25 M.C.F. per day. Recovered 200 feet (1.8 barrels) oil and gas cut sulphur water and 100 (0.9 barrels) heavily oil and gas cut sulphur water with good show of free oil. Flowing bottom hole pressure too low to register. Shut in bottom hole pressure after 15 minutes 1000 p.s.i. Titrations: Pit mud 1500 p.p.m. Top of fluid column 1400 p.p.m. Bottom of fluid column 3000 p.p.m. total chlorides.

Drill Stem Test No. 3 - Took DST No. 3 from 5289 to 5312 feet with same assembly. Tool open 45 minutes. Weak air blow diminishing to nil in 25 minutes. Recovered one gallon free oil and 84 feet (0.32 barrels) slightly oil cut and slightly salty drilling mud. Titrations: Pit mud 1000 p.p.m. and bottom of fluid column 13,000 p.p.m. chlorides. Flowing B.H.P. and 15 minute shut in B.H.P. too low to register.

Drill Stem Test No. 4 - Took DST No. 4 from 5342 to 5376 feet with Johnston double wall packer and double bomb assembly and with 5/8 inch B.H.C. and 1¼ inch open top. Tool open 12 hours. Gas to surface in 1½ hours. Took 30 minute shut in B.H.P. Recovered 135 feet (1.2 barrels) slightly mud cut oil, 225 feet (1.83 barrels) oil and gas cut mud and 180 feet (1.47 barrels) slightly oil and gas cut salt water which titrated 97000 p.p.m. chlorides. Pit mud 1000 p.p.m. chlorides. Gravity of oil 30° API corrected.

Drill Stem Test No. 5 - Went in with same assembly less trip valve to take DST No. 5 from 6463 to 6524 feet. Tool open 90 minutes. Sweet gas to surface in 45 minutes. Gauged gas at stabilized rate of 50 M.C.F. per day. Estimated flowing surface pressure 25 p.s.i. Recovered 135 feet (1.41 barrels) drilling mud and 420 feet (4.40 barrels) gas cut drilling mud. Flowing B.H.P. too low to register. Shut in B.H.P. after 15 minutes 2400 p.s.i. Titrations: Pit mud 2000 p.p.m., bottom of fluid column 2000 p.p.m. chlorides.

Drill Stem Test No. 6 - Took DST No. 6 from 6526 to 6615 feet with Johnston double wall packer assembly and two bombs. B.H.C. 5/8 inch and top choke 1¼ inch. Tool open 4 hours. Sweet gas to surface in 12 minutes. Initial flow rate 120 M.C.F. per day and final rate 105 M.C.F. per day. Recovered 1000 feet (22.6 barrels) slightly oil cut and heavily gas cut drilling mud. Titrations: Pit mud 2000 p.p.m., top and bottom of fluid column 2000 p.p.m. total chlorides. Flowing B.H.P. 350 p.s.i. throughout test. B.H.P. after 20 minute shut in time was 2400 p.s.i. As tool was run less trip valve mud entered drill pipe while going in hole. Positive test.

Drill Stem Test No. 7 - Took DST No. 7 from 6613 to 6684 feet with Johnston double wall packer and double bomb assembly less trip valve and with 5/8 inch B.H.C. and adjustable top choke. Tool open 4½ hours. Sweet gas to surface in 2 minutes. Mud in 10 minutes and small amount of dark oil followed by distillate in 20 minutes. Flowed a total of 15 barrels distillate into tank. Last 2 hours flowed 8.86 barrels distillate with gas at the rate of 1800 M.C.F. per day through adjustable surface choke with a surface pressure of 1800 p.s.i. Gas Oil ratio 18,000. Distillate was light amber in color and had a corrected API gravity of 74 degrees. Circulated drill pipe before pulling tool. Flowing B.H.P. 2500 p.s.i. and 3 minute shut in B.H.P. 2600 p.s.i.

ATTACHMENT TO FORM NO. G-105

STRAIGHT HOLE SURVEYS
TAKEN BY TOTCO

HARDY AREA (WILDCAT)
TAYLOR-GLENN NO. 1

DEPTH	INCLINATION	DATE
100	1 degree	9-30-47
250	50 minutes	9-30-47
480	1 degree	10-1-47
650	1/2 degree	10-2-47
850	1/2 degree	10-2-47
1150	1/2 degree	10-3-47
1351	0	10-3-47
1550	0	10-4-47
1750	0	10-4-47
1950	0	10-5-47
2150	1 degree	10-5-47
2250	3/4 degree	10-6-47
2350	3/4 degree	10-6-47
2450	3/4 degree	10-6-47
2575	1/2 degree	10-7-47
2650	1/2 degree	10-7-47
2850	1/2 degree	10-9-47
3135	3/4 degree	10-11-47
3410	1 1/4 degree	10-15-47
3560	3/4 degree	10-16-47
3700	15 minutes	10-18-47
3780	1 degree	10-19-47
4465	1 1/4 degree	10-29-47
4590	1 degree	10-30-47
4823	1 1/2 degree	10-31-47
4970	1/2 degree	11-1-47
5750	1/2 degree	11-12-47
6120	1 degree	11-14-47
6315	1 degree	11-16-47
6450	3/4 degree	11-17-47
6800	1 degree	11-27-47
7040	1/2 degree	11-30-47
7087	1 degree	12-1-47
7377	1 1/4 degree	12-5-47
7490	1 1/4 degree	12-7-47
7769	1 3/4 degree	12-12-47
7875	1 1/4 degree	12-14-47
8080	1 1/4 degree	12-20-47
8350	1 1/2 degree	12-24-47
8568	1 1/4 degree	12-30-47

SHELL

COPY

FORM 0850 (7-21-39)