

19- 175- 31W

Imperial Drilling Co. -- No. 1 See; SW NE NW Section 19, 17S-31W, Scott County, Kansas

Date Commenced: Sept. 2, 1952; Date Completed: Nov. 17, 1952.

Surface Pipe: 296' of 8 5/8" with 225 Sax.

Oil String Casing: 5 1/2" at 4685' with 250 sax, on Sept. 27, 1952

Amerada Farmout;

Elev. Req. 8-25-52

Elev. 2969' KB

Herrington 2760 -209
Heebner 3898 -929
Lansang 3900 -931
Marmaton 4321 -1352
Miss 4584 -1615
TD 4685 -1716

Notify: Reiser
Baur
Barrell

Stone (Amerada)

92X

- 9-2 MIRT
9-3 Set surface-WOC
9-5 Drlg at 1220'
9-6 Drlg at 2450'; DST #1 - 2744-70 open 1/2 hr -about 10' mud, no show; BHP 0#; weak blow 6 1/2".
9-8 Drlg at 2995';
9-9 Drlg at 3220'
9-10 Drlg at 3370'
9-11 Drlg at 3570'
9-12 Drlg at 3765'
9-13 DST #2 - 3833-63; open 1 hr, light blow; rec'd 150' SW; BHP 900#; Drlg at 3863.
9-15 DST #3 - 3878-3903; open 1 hr, Strong blow; Gas to surface in 23"; rec'd 558' SW; BHP 960#, FFP 270#.
9-15 DST #4 - 3968-80; Open 1 hr, light blow; Rec'd 60' heavily O & G cut mud; BHP 1000#,
DST #5 - 3986-95; open 1 1/2 hrs, weak blow - increased in 20" to strong blow, trace of gas in 80"; rec'd 490' SW; FFP 190#; BHP 1110#.
9-16 DST #6 - 4017-35; open 1 hr; rec'd 125' oil and oil cut mud (50% each); BHP 0#; drlg at 4045'.
9-17 DST #7 - 4126-44; open 1 hr; weak blow; rec'd 25' oil cut mud; BHP 0#; drlg ahead.
9-18 DST #8 - 4173-81; open 1 hr; weak blow 28"; rec'd 30' mud; BHP 1050#; Good to excellent show in samples.
DST #9 - 4192-4201; open 1 hr; strong blow, trace gas in 35"; rec'd 200' mud, salt water plus 500' sulphur water; FFP 300#, BHP 1110#; drlg ahead.
9-19 DST #10 - 4221-25; open 1 hr; weak blow in 16"; rec'd 30' mud; BHP 800#.
9-20 DST #11 - 4228-70; open 45"; Very strong blow, declining to fair blow in 45"; rec'd 189' SW plus 2151' sulphur water; FFP-1140#; BHP 1170#; drlg at 4320'.
9221 DST #12 - 4362-85; open 45"; weak blow; rec'd 10' mud; BHP 100#.
9-22 DST #13 - 4385-4433; Strong blow, rec'd 365' gas, 130' fluid (30' heavily oil-cut mud and 100' oil and slightly muddy and gas-cut oil); BHP 960#. Open 30".
9-23 DST #14 - 4473-85; open 1 hr; weak blow for 9"; Rec'd 10' mud; BHP 0#.
9-24 DST #15 - 4525-53; open 45"; weak blow for 12"; rec'd 10' mud; BHP 0# (maybe upper Miss. Terrific free oil in samples - Bryozoan Lime (reef-type). Looks like spaghetti full of oil.
9-25 DST #16 - 4566-74; open 1 hr; weak blow; rec'd 8' mud; BHP 0#.
9-26 Drlg at 4645'.
9-27 Set 5 1/2" at 4685'
9-30 MICT - TO. top cement 4633'
10-2 Perf. with 16 shots 4619-23 (4' section). No fluid, will acidize with 500 gal; Could not displace acid in formation.

***** See Completion report for rest of details *****

OWLL

19-175-31W
PRODUCTION DEPT. - FIELD REPORT

LEASE NAME See WELL NO. 1
OPERATOR Imperial Drilling Company, Inc.
LOCATION SW NE NW SEC. 19 TWP. 17 RGE. 31W
Scott COUNTY, KANSAS

DATE September 28, 1952

INITIAL COMPLETION DATA:

~~REWORKED~~

OWLL

299.40' surface casing set. Rotary TD 4685. 5½" casing set
at 4685 cemented with 250 sacks pozmix cement.

September 30, 1952

Drilling in unit of Shamrock Drilling Co., moved in.

October 1, 1952

Finished moving rig in. Rigged up. Swabbed well dry.

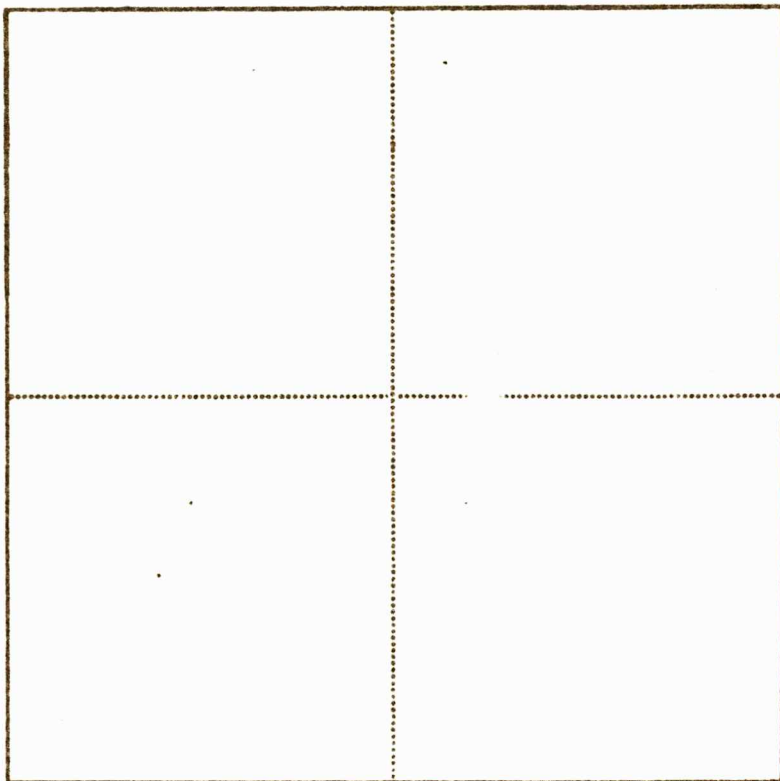
October 2, 1952

Ran collar log by Schlumberger. Perforated 4 shots to foot
from 4619 to 4623. No fluid. Attempted to treat zone with
500 gallon J type acid using 1200# pressure. Was not able
to displace acid so swabbed acid back out.

October 3, 1952

OWLL

Perforated 2 bullets per foot from 4402 to 4412. Well stayed
dry. Used 3 cone shots per foot from 4402 to 4412. Washed



MISCELLANEOUS INFORMATION

October 3, 1952 continued

perforations with J type acid. Swabbed down hole. No shows of oil or water. Treated well with 500 gallon J type acid. Formation started feeding at 1175# pressure. Pressure dropped to 300# so speeded pump and completed job at 500# pressure. 5 minute pressure drop from 500# to 325#. Swabbed well down. Well making 2 BOPH - no water.

PRODUCTION DEPT. - FIELD REPORT

2

LEASE NAME See WELL NO. 1

OPERATOR Imperial Drilling Company, Inc.

LOCATION SW NE NW SEC. 19 TWP. 17 RGE. 31E

Scott COUNTY, KANSAS

DATE September 28, 1952

INITIAL COMPLETION DATA:

~~NO PRODUCTION DATA~~

October 4, 1952

Swab test fell off to 1 BOPH - no water. Treated with 5000 gallon J type acid. 2 pumps used displacing acid at rate of 6 bbl. per minute. Had slow break while pumping from 500# to 450#. 5 minute pressure drop 450# to 350#. Swabbed well down and tested.

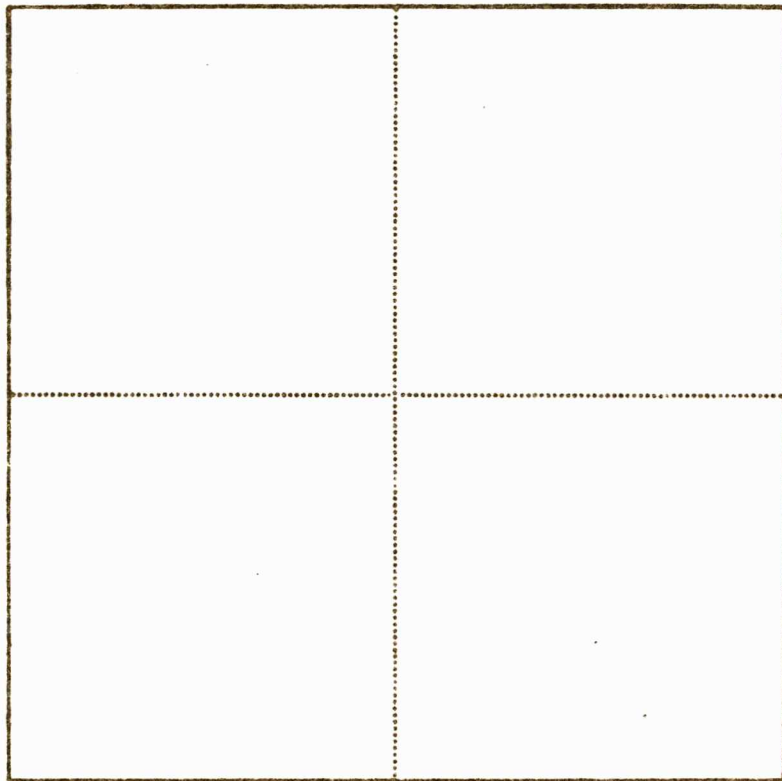
October 5, 1952

16 hour swab test showed well making 2 1/2 BOPH - no water. Set Baker plug at 4330. Perforated 4 holes per foot from 4316 to 4320. No shows of oil or water. Acidized with 500 gallon J type acid. Highest pressure used 300#. 5 minute pressure drop from 300# to 150#.

October 6, 1952

Well swabbing 2 1/2 B waterPH, show of oil. Set Baker plug at

OWLL



MISCELLANEOUS INFORMATION

October 6, 1952 continued

4200. Perforated 16 cone holes from 4176 to 4180. Treated well
with 250 gallon J type acid. Hole loaded and pressure built up
to 125# and then treated on vacuum. Snabbed well down.

October 7, 1952

Zone swabbing 8 B waterPH - no oil. Set Baker plug at 4150.
Perforated from 4027 to 4032 with 20 bullets, no show of water or
oil. Treated well with 500 gallon J type acid. Formation
treated on vacuum. Well swabbed 30 B water PH, 1600 foot off
bottom.

LEASE NAME See WELL NO. 1

OPERATOR Imperial Drilling Company, Inc.

LOCATION SW NE NW SEC. 19 TWP. 17 RGE. 31W

Scott COUNTY. KANSAS

DATE September 28, 1952

INITIAL COMPLETION DATA:

~~WORKOVER DATA~~

October 8, 1952

Perforated 8 holes from 3971 to 3973. Perforated 8 holes from
3968 to 3990. Drilled out plug at 4050. Drilled out plug at
4200. Checked TD on top of plug at 4330.

October 9, 1952

Run tubing with Halliburton drillable retainer set at 3941.
Squeezed well with 460 sacks of pozmix cement, used 4000#
pressure. Pulled tubing.

October 10, 1952

Swabbed well down. Drilled retainer and cement to 3961.

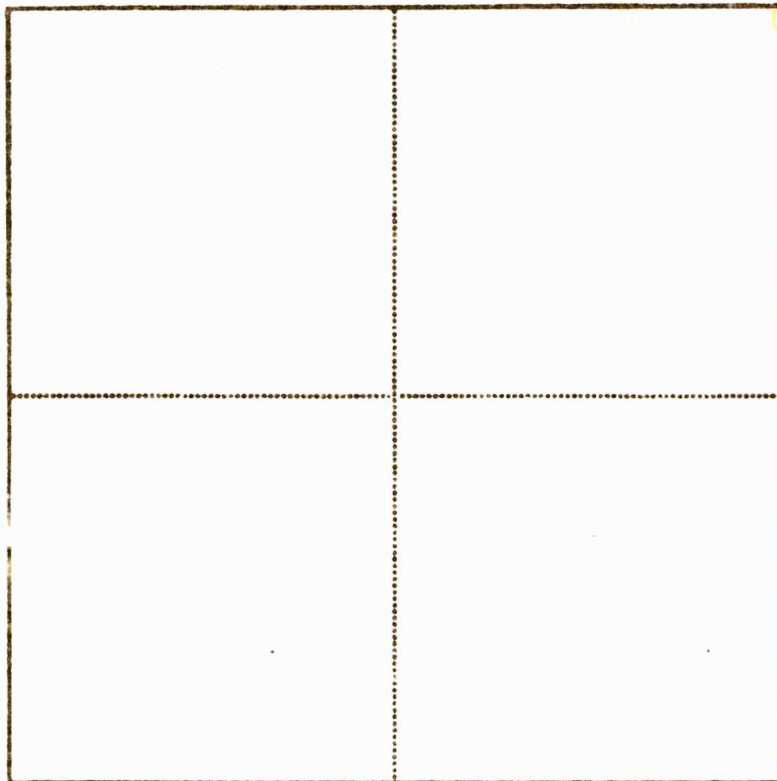
October 11, 1952

Perforated 14 holes with bullets from 3974 to 3977, no shows.
Acidized with 500 gallon J type acid. Highest pressure used
400#. Speeded pump and acid fed in at 300# pressure and pressure
dropped from 300# to vacuum in 20 seconds. Zone swabbed 60 B

O W L L

SCALE

3-A



MISCELLANEOUS INFORMATION

October 11, 1952 continued

water PH, 1800 foot off bottom.

October 12, 1952

Run tubing with Halliburton drillable retainer set at 3941. Mixed 200 sacks pozmix cement and displaced 165 sacks. Highest pressure used 3500#. Pulled tubing.

October 13, 1952

Swabbed well dry. Drilling on cement retainer.

October 14, 1952

Drilling cement.

4

LEASE NAME See WELL NO. 1

OPERATOR Imperial Drilling Company, Inc.

LOCATION SW NE NW SEC 19 TWP 17 RGE 31W

Scott COUNTY. KANSAS

DATE September 28, 1952

INITIAL COMPLETION DATA:

Oct. 15, 1952

~~REWORK OVER DECK~~

Drilling Cement.

October 16, 1952

Drilling Cement.

October 17, 1952

Drilling Cement.

October 18, 1952

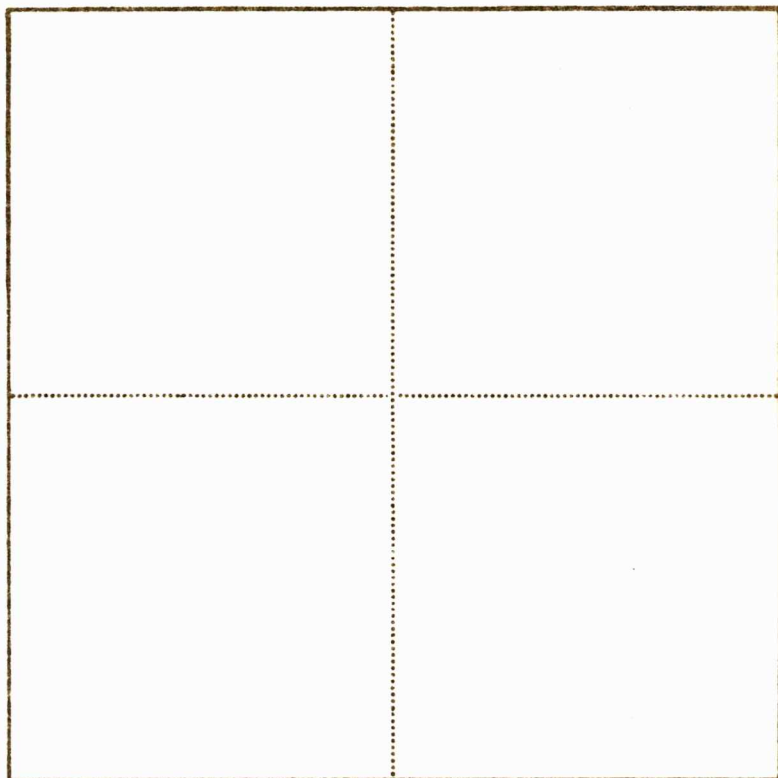
Drilling cement and testing for water at depth of 4330. Well
making 30 gal water per hour, which started in hole after
drilling through perforations at 4316 - 4320. After 18 hour
test water had decreased to 2 gal water per hour. Drove
plugs from 4330 to 4633.

October 19, 1952

Ran tubing and rods and started well to pumping at 12:00AM.

SCALE _____

4-A



MISCELLANEOUS INFORMATION

October 20, 1952

After well had pumped 24 hours, test showed amount oil pumped was 66 bbl plus 5% water. During last 7 hours of pumping time well made .83 BOPH. Tore down unit and moved out.

19-175-31W

Company Imperial Drilling Co.
 Farm See Well No. 1
 Contractor Imperial

Location SW NE NW
19-175-31W
 County Scott
 State Ki.

Date Commenced 9/2/52 Date Completed 10-17-52

Surface Pipe 2 7/8" 7874" w/ 225' pay

Oil String Casing 5 1/2" @ 4685' w/ 250' pay on 9/27/52

TOPS Amerada Turn out ELBV. REQ. 8-25-52

Elevation: 2969 A

NOTIFY:

REISER
BAUR
BARRELL

AMERADA 37254
M. Stone

HOBART	2760	-209	-209
HOBART	3158	-929	-929
LANSING	3900	-931	-931
MADISON	4321	-1352	-1352
MID.	4544	-1615	-1615
T.D.	4685	-1716	-1716

9-2	MRT	
9-3	Set Surface - W. a. c.	
9-5	Dry @ 1220'	(1)
9-6	Dry @ 2450'	DST 3744-70 op 1/4 hr. - No Show - Weak Blow 62'
9-8	Dry @ 2995'	BHP - 0*
9-9	Dry @ 3220'	
9-10	Dry @ 3370'	
9-11	Dry @ 3570'	
9-12	Dry @ 3765'	
9-13	(2) DST 3833-63 op 1 hr. Light Blow at 150' Salt Water 900# BHP Dry @ 3863'	
9-15	DST (3) 3878-3903 op 1 hr. Strong Blow Gas to Surface in 23" Red 58' salt water PFP 270# BHP 960*	

O.W.L.

9/15⁶ DST-3968-80 Op 1 hr - *Light Blow*
 Peril 60' heavily O+S cut mud
 BHP-1000* DST-3986-3995
 Op 1 hr weak blow - *Drill* in 20" to strong
 blow, trace of gas in 10" Peril 490'
 Salt Water FFP-190* BHP-1110*

9/16 DST-4017-35 Op 1 hr. Peril 125'
 oil of O+S cut mud BHP-0* Dry 40x5'

9/17 DST-4126-44 Op 1 hr. weak blow - Peril
 25' oil cut mud - BHP-0* Dry 40x5'

9/18 DST-4173-81 Op 1 hr. weak blow 28" Peril
 30' mud BHP 1050* *to excellent* Good excellent down sample

DST-4192-4201 Op 1 hr. strong blow trace gas
 in 35". Peril 200' mud. Salt water + 500' sulphur
 water PFP-300* BHP-1110* Dry 40x5'

9/19 DST-4221-4225 Op 1 hr weak blow 16"
 Peril 30' mud BHP-800*

9/20 DST-4228-70 Op 45" *declining* Very strong blow - *water*
 fair blow in 45" Peril 189' salt water + 2151' sulphur water
 FFP-1140* BHP-1170* Dry @ 4320"

9/21 DST-4362-4385 Op 45" weak blow - Peril
 10' mud - BHP 100*

9/22 DST-4395-4433 - strong blow - Peril 365' gas
 130' fluid (30' heavy oil-cut mud - 100' oil of
 slightly muddy + gas - cut oil) BHP-960* Op 30"

min
 4400-4450
 min
 4450-4600

min

Drill
 low 10' mud
 194

Company _____ Location _____
 Farm _____ Well No. _____ County _____
 Contractor _____ State _____
 Date Commenced ##/##/## Date Completed _____
 Surface Pipe _____
 Oil String Casing _____

Continued

*Washoe
exp*

TOPS

Elevation: _____

Crust - 1497

DAILY DRILLING REPORT

Date	
9/23	DST 4473-85 Op 1 hr. Wash blow for 9" Per 10' mud BHP - 0 #
9/24	DST 4525-53 Op. 45" Wash blow 12" Per 10' mud BHP 0 # (Type upper Mine.) <i>Trig. free oil is sample Bryozoa</i> <i>looks like spaghetti full of oil</i> <i>spaghetti</i>
9/25	DST 4566-74 Op 1 hr. Wash Blow - Per 8' mud BHP - 0 #
9/26	Run 4685'
9/27	Set 5 1/2" 4685'
9/30	MdCT - F.R. 7m cement 4633
10/1	Per 16 shots 4619-22 (4 sections). No fluid will air w/foam. - Could not displace acid in formation

OWLL

Date	Work
10/3	250 lbs set Perf. 4402-4412 w/20 shots - no fluid Perf again w/30 Bore shots - no fluid Acidize w/500 gal - Swabbed ^{worked} to 1000' thickens , then swabbed 400' High gravity gang oil (10 BOPH)
10/4	Swabbed to same level → Swabbed 16 BOPH oil in 10 hrs. Re-acidizing with 5000 gal. last night 2 1/2 BOPH
10/5	Swabbed 21 BOPH oil 10 hrs. Perf 4288-4302 of 4316-4320 w/32 bullets, Acidize 500 gal Swabbed 2 B.W.P.H. w/ this oil. ^{Perf @ 4339'}
10/6	Perf 4176-80 of 4339' ^{Perf @ 4339'} 10 BOPH oil - 250 gal. Swabbed 8 B.W.P.H. 10 hrs.
10/7	Perf 4027-32 - Swabbed ^{Perf @ 4045'} oil 500 gal
10/8	→ Swabbed 140 BOPH - 2300' off bottom. Est. 30 B.W.P.H. Will cement squeeze after Perf
10/9	3984-90 w/8 shots of Perf 3971 to 73 w/8 shots.
10/9	Drilled out plugs 4045 & 4200 leaving only 1 plug @ 4320'. Re-cementing - not drilled to retain @ 3941 Squeezed w/4000 psi cement - Max Press 4000 psi
10/10	Drilling out cement to 3984 approx. Perf. 3974 to 77 ^{20' fluid} thickens w/500 gal - Max Press 4000 Swabbed to 1100' thickens - made 10 B.W.P.H. - A.C.O. 13.
10/11	Squeezed 1000 psi cement - retain @ 3950'
10/13	Drilled out to Produce for 4402 to 4412 Drilled to 4310 1/2 plugs Started Pumping @ 8 AM - Pumping 13 BOPH.
11-10	Pumped 13 bbls in 15 hrs
11-11	pumped 28 bbls in 24 hrs
11-12	pumped 26 bbls in 24 hrs 64 bbls 63 hrs } Includes 2% water

10/11
10/12
Cement
to 4000
psi