

WELL PLUGGING RECORD

Give All Information Completely
Make Required Affidavit
Mail or Deliver Report to:
Conservation Division
State Corporation Commission
800 Bittling Building
Wichita, Kansas

Barton County, Sec. 32 Twp. 20S Rge. (E) 13 (W)

Location as "NE/CNW/SW" or footage from lines SE NE NE; 720 FNL 330 FEL of NE/4

Lease Owner Magnolia Petroleum Company

Lease Name HARTMAN ESTATE Well No. 2

Office Address Box 900, Dallas, Texas

Character of Well (completed as Oil, Gas or Dry Hole) Oil

Date well completed 4-6 19 53

Application for plugging filed 8-3 19 56

Application for plugging approved 8-6 19 56

Plugging commenced 8-11 19 56

Plugging completed 8-17 19 56

Reason for abandonment of well or producing formation Uneconomical to produce

If a producing well is abandoned, date of last production 8-10 19 56

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 R. M. Brundage

Producing formation Lans-KC Depth to top 3270 Bottom 3526 Total Depth of Well 3639 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
<u>Lans-KC</u>	<u>Oil & Wtr</u>	<u>3270</u>	<u>3526</u>	<u>8 5/8</u>	<u>327</u>	<u>None</u>
				<u>5 1/2</u>	<u>3570</u>	<u>2540</u>

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.

Plugged back w/sd fr 3476' FBTD to 3405',
dumped 5 sx cmnt, loaded csg w/wtr, shot
5 1/2" csg @ 2640', could not pull, shot 5 1/2"
csg @ 2560', pull 5 1/2" csg, cut off BH,
welded on 8 5/8" collar, pumped in 20 sx
mud, pumped 100 sx cmnt to 10', cmntd to
base of cellar.

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STATE CORPORATION COMMISSION
SEP 21 1956
CONSERVATION DIVISION
Wichita, Kansas

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

Name of Plugging Contractor R & D Casing Pulling Company
Address Box 569, Ellinwood, Kansas

STATE OF KANSAS, COUNTY OF BARTON, ss.
R. C. Brannin (employee of owner) or (owner or operator) 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) [Signature]
Box 770, Great Bend, Kansas
(Address)

SUBSCRIBED AND SWORN TO before me this 20th day of September, 19 56
Barrett L. Kaiser

My commission expires 1-14-57 Notary Public.

Orig: State Corp Comm ✓
cc: W. B. Powers
File

PLUGGING
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HARTMAN ESTATE #2 P & A
SE NE NE
Sec 32-20S-13W
Barton County, Kansas
Hiss East Field

Elevation: 1899' KB

Total Depth: 3560' RTD
3639' DD w/CT
3476' FB

Location Staked	3-2-53	Joe Alcott, MFCo Civil Engr
Spud Date	3-5-53	Mallonee Drlg Co., Wichita, Kansas
Drilling Completed	3-27-53	" "
Company Completion Date	4-6-53	
Plugging Commenced	8-11-56	R & D Casing Pulling Co., Ellinwood, Kansas
Plugging Completed	8-17-56	" "

Casing Record:

8 5/8" 24.0# 8RT J-55 Smls	Put In: 327	Pulled: None	Left In: 327
5 1/2" 15.5# 8RT J-55 LS	Put In: 3570	Pulled: 2540	Left In: 1030
8 5/8" csg set @ 320' w/300 sx cmnt circ	3-6-53		
5 1/2" csg set @ 3558' w/150 sx cmnt	3-18-53	(approx 896.5' cmntd)	

Potential and Production Tests:

Single Oil Well Completion - Pumping: Potential test dated 4-14-53 in the Lansing-Kansas City zone, top 3270 bottom 3526, perforations 3469-73, 3448-54, 3432-36, 3416-20 w/108 Jet shots, well pumped on 24 hr test, rate per day 11 bbl oil & 1 bbl water, no GOR, pump set @ 3456' w/1 3/4" pump, 2" tubing, 3/4" sucker rods, 14-34" strokes per min. Corrected Gravity 24°, allowable 25 bbl oil per day - minimum

Formation Summary:

Sand & Shale	0	135
Gravel & Iron Strks	135	169
Iron Strks	169	170
Blue Shale & Shells	170	320
Red Bed	320	785
Anhydrite	785	830
Shale & Shells	830	1320
Anhydrite	1320	1345
Shale & Lime Shells	1345	1620
Lime & Shale	1620	1670
Lime	1670	1750
Lime & Shale	1750	2185
Shale & Shells	2185	2260
Shale & Lime Shells	2260	2620
Shale & Shells	2620	2650
Lime	2650	2705
Shale & Lime	2705	2940
Lime	2940	3215
Lime & Shale	3215	3275
Lime	3275	3639 TD

Formation Record:

Heebner	3155 DF	-1259	Samples MAF
Brown Lime	3273 "	-1377	"
Lansing-Kansas City	3282 "	-1386	"
Conglomerate	3529 "	-1633	"
Arbuckle	3557 "	-1664	"
Rotary Total Depth	3560		
Total Depth	3639		
Plug Back	3476		
Heebner	3152	-1256	Schlumberger
Brown Lime	3270	-1374	"
Lansing-Kansas City	3283	-1387	"
Conglomerate	3526	-1630	"
Arbuckle		Not recorded	-
Total Depth	3556		

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Drill Stem Tests:

3-15-53 #1, 3415-3434, Op hole test w/tool @ 3415', chokes 1/2" & 1/2", op 1 hr, rec 3' vy heavily oil cut mud & 58' oil & gas cut mud, SIBHP 0# Initial Mud Press 1800# Final Mud Press 1780# shut in 15 min

3-16-53 #2, 3434-3458, Op hole test w/tool @ 3434', chokes 1/2" & 1/2", op 1 1/2 hrs, rec 20' mud, SIBHP 0#, IMP 1840# FMP 1890# shut in 1 hr

Perforation Record:

3469-3473' w/24 1/2" Jet, tool @ 3469, plug @ 3480 - bailed 2 GO & 2 GWFH for 4 hrs

3448-3454' w/36 1/2" Jet, tool @ 3448, plug @ 3462, drld plug to 3480' - tested no show oil in 1 hr

3432-3436' w/24 1/2" Jet, tool @ 3432, plug @ 3442, -

3416-3420', w/24 1/2" Jet, plug @ 3442, drld plug to 3480 - bailed 6 GOFH

PLUGGING

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Core Record: Rotary Samples Only

Top Lansing-Kansas City 3282 (-1386), 5' lower than east and southeast offsets.
 3325-30, rotary samples cir @ 3333, cr-tna, f xlyn, semi dense ls w/poor to fair vug por & some spotty vy drk oil stn, drlg break about 5' lower than in east offset (Kiowa) deemed not worth testing.
 3326-28, and 3348-50, good por but only a trace of dead oil stn, deemed not worth testing.
 3324-25, c & f xlyn lime w/gd colocastic por & spotty stn. Deemed not worth testing.
 3428-33, cr to tan f xlyn lime w/gd colocastic & some vug por, spotty stn & some sat stn 3' lower than corresponding zones in east & southeast offsets. One of the prod zones in the southeast offset (Phillips #1 Hiss). This zone should be tested.
 3442-49, crm f xlyn lime in part colocastic, some vug por spotty stn, fair odor with a little free oil in wet samples, 1' lower than in east offset. Included in one of the prod zones in southeast offset (Phillips). This zone should be tested.
 3464-69, crm to tan f xlyn lime, part colocastic, fair vug por spotty stn & trace of sat stn, 6' lower than east offset and 4' lower than southeast offset. Corresponds to one of the prod zones in the southeast offset. This zone should be tested.
 3472-74, similar to above zone. 2' lower than corresponding zone in southeast offset (Phillips) Phillips made 30% wtr in this zone but in our well it is the btm zone to be tested & could be plugged back easily in the event that it produces a high water %.

Top Conglomerate 3529 (-1633)
 Top Arbuckle 3557 (-1664) cr to gry med to fine xlyn dol, poor to fair vug & interxlyn por w/trace of dk heavy oil stn & asphalt stn.

Acidizing or other Completion Operations:

Treat op hole w/1000 gal 15% acid thru csg, MP 2000# held for 15 min, would not take swbd & C/O
 Treat op hole w/2000 gal 15% acid thru 2" tub (bridge plug @ 3580') 2000#-1800#, dropped 300# in 10 min after pumps shut down, 89 BLW, swbd load back, no test. Ran GR-N, tested 15 GO & 36 GWPH for 4 hrs, last 2 hrs 7½ GO & 35 GWPH
 Treat perf 3469-73' w/2000 gal 15% acid, 1850#-1000# up 1300#, dropped 950# in 15 min after pump shut down, 131 BLW, swbd load back, swbd 50 BO in 17 hrs, fell off to 1 BOPH last 6 hrs
 Treat perf 3469-73' w/3000 gal 15% acid, 900# to vac, 73 BLW, swbd load back, tested 19 BOPH for 2 hrs.
 Treat perf 3448-54' w/3000 gal 15% acid, 1100#-1000#, dropped 200# in 10 min after pumps shut down, tested 9 BOPH for 2 hrs
 Treat perf 3432-36 & 3416-20 w/4000 gal 15% acid, 100#-0#, 84 BLW flush & 194 bbl flush & acid wtr, swbd load back, 4 hr test - 1st hr 7 BO 40% wtr, 2d hr 6 BO 40% wtr, 3d hr 6 BO 40% wtr, 4th hr 5 BO & 40% wtr, 9 hr test 42 BO & 18 BW (mostly acid).

Acid Treatment 8-10-55: acidized w/2000 gal 15% reg acid thru 2" tub under press, 500#-vac.
 Prod Before: 4 BO & 3 BWFD Prod After: 5 BO & 3 BWFD

PLUGGING COMMENCED: 8-11-56 R & D Casing Pulling Co.,
 PLUGGING COMPLETED: 8-17-56 Ellinwood, Kansas
 HISTORY OF PLUGGING: Moved in Casing Pulling Unit & rigged up; plug back w/sd fr 3476' to 3405', dumped 5 sx cmnt, loaded csg w/wtr, shot 5½" csg @ 2640', could not pull, shot 5½" csg @ 2560', pull 5½" csg, cut off BH, welded on 8 5/8" collar, pumped in 20 sx mud, pumped 100 sx cmnt to 10', cmntd to base of cellar. Supervised by R. M. Brundage, State Corp Comm District Plugging Supervisor.

SUPERVISED BY: R. M. Capps, MPCo Production Foreman

Prod Before Plugging: 1 BO & 1 BWFD

gr

Orig: State Corp Comm
 cc: File

