

State Geological Survey

WICHITA BRANCH

KANSAS DRILLERS LOG

15-077-20398

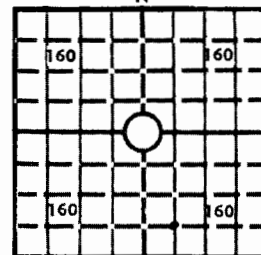
API No. 15 — 077 — 20,398
County Number

S. 36 T.33S R.6W E W

Loc. C SW SE

County Harper

640 Acres
N



Locate well correctly

Elev.: Gr. 1276

DF 1284 KB 1286

Operator

National Oil Company

Address

200 W. Douglas, Suite 550, Wichita, KS 67202

Well No.

1

Lease Name

Burgmeier

Footage Location

660 feet from (N) (S) line 1980 feet from (E) (W) line

Principal Contractor

Graves Drilling Co., Inc.

Geologist

Bob Gebhart

Spud Date

February 7, 1977

Total Depth

4917

P.B.T.D.

Date Completed

February 19, 1977

Oil Purchaser

Herndon Oil & Gas

CASING RECORD

Report of all strings set — surface, intermediate, production, etc.

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	12 $\frac{1}{4}$	8-5/8	28#	207		225	2% gel, 3% cc
Production		5 $\frac{1}{2}$	15 $\frac{1}{2}$ #	4916	60-40 Poz	175	18% salt, 10#/sx gils, 3/4% CFR2
		5 $\frac{1}{2}$	14#	3890	60-40 Poz	200	18% salt

LINER RECORD

Top, ft.	Bottom, ft.	Sacks cement

PERFORATION RECORD

Shots per ft.	Size & type	Depth interval

TUBING RECORD

Size	Setting depth	Packer set at
2-7/8	4873	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
250 gal MCA	
250 gal 15% mud acid	

INITIAL PRODUCTION

Date of first production

March 19, 1977

Producing method (flowing, pumping, gas lift, etc.)

Flowing

RATE OF PRODUCTION
PER 24 HOURS

Oil

125

bbls.

Gas

MCF

Water

Gas-oil ratio

bbls.

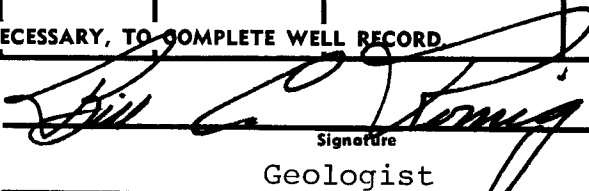
CFPB

Disposition of gas (vented, used on lease or sold)

Producing interval (s)

4916-18'

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody is desired, please note Rule 82-2-125. Drillers Logs will be on open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas 66044.

Operator National Oil Company		DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.: Oil	
Well No. 1	Lease Name Burgmeier		
S 36 T 33S R 6W ^E _W C SW SE			
WELL LOG		SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.	
Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.			
FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME
DST #1, 3481-3557'; 30-30-20-60; GTS in 4", gauged 311 MCF immediately, 291 MCF in 10', flowed mud in 12", oil in 30" (51 grav). SI DST until daylight. Reversed out oil w/no wtr; Rec 110' SW below the circulating sub (½ bbl SW); Chlor of SW 126,000 PPM, mud 53,000 PPM; ISIP 1485; FSIP 1485; IFP 789- 1194; FFP 987-1184; IHP 1747; FHP 1705; T 124°.			Log Tops Indian Cave 2092 -806 Stotler 2343 -1057 Howard 2746 -1460 Topeka 2807 -1521 Heebner 3118 -1832 Iatan 3481 -2195 Stalnaker Sd 3538 -2252 B/Stalnaker 3570 -2284 Kansas City 3776 -2490 Black Shale 3991 -2705 B/Kansas City 4038 -2752 Marmaton 4106 -2820 Cherokee 4251 -2965 Mississippi 4455 -3169 Miss Poros 4462 -3176 Kinderhook 4817 -3531 Viola 4905 -3619 Simpson 4915 -3629
USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.			
Date Received	 Signature Geologist Title April 14, 1977 Date		

ROTARY DRILLERS' LOG

OPERATOR: National Oil Company
200 West Douglas, Suite 550
Wichita, Kansas 67202

DRILLING COMMENCED: 7 Feb. 1977

CONTRACTOR: Graves Drilling Co., Inc.
910 Union Center
Wichita, Kansas 67202

DRILLING COMPLETED: 20 Feb. 1977

CASING RECORD: 5 Jts. 207' of used 8-5/8"
cemented with 225 sacks;
126 Jts. 4919' of new 5-1/2"
cemented with 175 sacks

LOCATION: Burgmeier No. 1
C SW SE
Section 36-33S-6W
Harper County, Kansas

0 - 395	Red bed
395 - 1108	Red bed & shale
1108 - 1716	Shale & lime
1716 - 2364	Lime & shale
2364 - 2748	Shale
2748 - 3557	Shale & lime
3557 - 3570	Sand
3570 - 3734	Sand & shale & lime
3734 - 3834	Shale & lime
3834 - 4288	Lime & shale
4288 - 4384	Shale & lime & chert
4384 - 4485	Lime & shale
4485 - 4450	Lime
4450 - 4629	Lime & shale
4629 - 4778	Lime
4778 - 4829	Shale & lime & chert
4829 - 4914	Shale & lime
4914	Rotary Total Depth

I hereby certify the foregoing statements to be true and correct to the best of my knowledge.

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION
WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY
DESCRIPTION OF WELL AND LEASE

Operator: License # 5701
Name NATIONAL OIL COMPANY
Address Suite 810
1675 Larimer Street
City/State/Zip Denver, Colorado 80202

Purchaser Inland Purchasing & Transportation
Wichita, Kansas 67202

Operator Contact Person Jack P. Epley
Phone (405) 949-2183

Contractor: License #
Name Graves Drilling Co., Inc.

Wellsite Geologist R. B. Gebhart, Jr.
Phone

Designate Type of Completion

☐ New Well ☐ Re-Entry ☒ Workover

☒ Oil ☐ SWD ☐ Temp Abd
☒ Gas ☐ Inj ☐ Delayed Comp.
☐ Dry ☐ Other (Core, Water Supply etc.)

If OWN: old well info as follows:

Operator National Oil Company
Well Name Burgmeier #1
Comp. Date 3/18/77 Old Total Depth 4480'

WELL HISTORY

Drilling Method:

☒ Mud Rotary ☐ Air Rotary ☐ Cable

2/07/77 2/18/77 3/18/77

Spud Date Date Reached TD Completion Date

4918' 4550'

Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 207 feet
Multiple Stage Cementing Collar Used? ☐ Yes ☒ No

If yes, show depth set feet

If alternate 2 completion, cement circulated

from feet depth to w/ SX cmt

Cement Company Name

Invoice #

API NO. 15-077-20,398

County Harper

C SW SE 36 33S 6 East
Sec Twp Rge X West

660
1,980 Ft North from Southeast Corner of Section
Ft West from Southeast Corner of Section

(Note: Locate well in section plat below)

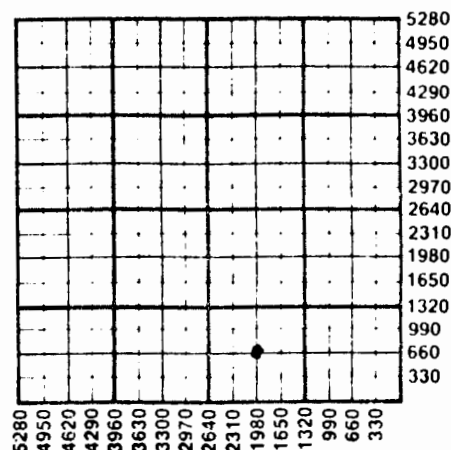
Lease Name Burgmeier Well # 1

Field Name

Producing Formation Stalnaker

Elevation: Ground 1,276' KB 1,286'

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: ☐ Disposal
Docket # ☐ Repressuring

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:

Division of Water Resources Permit #

Groundwater Ft North from Southeast Corner
(Well) Ft West from Southeast Corner of

Sec Twp Rge East West

Surface Water Ft North from Southeast Corner
(Stream, pond etc) Ft West from Southeast Corner

Sec Twp Rge East West

Other (explain)

(purchased from other P.W.D. #)

METHOD OF COMPLETION

Disposition of gas: ☐ Vented
☐ Sold
☒ Used on Lease

☐ Open Hole ☒ Perforation
☐ Other (Specify)

☐ Dually Completed
☐ Commingled

Production Interval

4,906 - 4905

SIDE TWO

Operator Name NATIONAL OIL COMPANY Lease Name Burgmeier Well # 1

Sec. 36 Twp. 33S Rge. 6 ☐ East ☒ West County Harper

WELL LOG

Estimated Production Per 24 Hours	Oil Bbls	Gas MCF	Water Bbls	Gas-Oil Ratio CFPB	Gravity
	NO INFORMATION IN OUR FILES				

Drill Stem Tests Taken ☒ Yes ☐ No
 Samples Sent to Geological Survey ☐ Yes ☐ No
 Cores Taken ☐ Yes ☐ No

Formation Description
☒ Log ☐ Sample

DST#1, 3,481-3,557'; 30-30-20-60; GTS in 4",
 guaged 311 MCF immed., 291 MCF in 10", flowed
 mud in 12", oil in 30" (51 grav).
 SI DST until daylight. Reversed out oil w/no
 water; Rec 110' SW below the circulating sub
 (1/2 bbl SW); chlor of SW 126,000 ppm, mud
 53,000 ppm; ISIP 1,485; FSIP 1,485;
 IFP 789-1,194; FFP 987-1,184; IHP 1,747;
 FHP 1,705; Temp. 124°.

SEE ATTACHED FOR RECOMPLETION RECORD
 in VIOLA ZONE on 3/21/78

Name	Top	Subsea
Indian Cave	2,092	- 806
Stotler	2,343	-1,057
Howard	2,746	-1,460
Topeka	2,807	-1,521
Heebner	3,118	-1,832
Iatan	3,481	-2,195
Stalnaker Sand	3,538	-2,252
B/Stalnaker	3,570	-2,284
Kansas City	3,776	-2,490
Black Shale	3,991	-2,705
B/Kansas City	4,038	-2,752
Marmaton	4,106	-2,820
Cherokee	4,251	-2,965
Mississippian	4,455	-3,169
Miss. Poros.	4,462	-3,176
Kinderhook	4,817	-3,531
Viola	4,905	-3,619
Simpson	4,915	-3,629

CASING RECORD ☒ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (in O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives
Surface	12 1/4"	8 5/8"	28#	207'		225	2%Gel, 3%cc
Production		5 1/2"	15 1/2#	4,916'	60-40Poz	175	18%Salt, 10#Gul, 3/4%CFRZ
Set DV Tool		5 1/2"	14#	3,890'	60-40Poz	200	18% Salt

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
4	4,906 - 4,908	150 Gals. 7 1/2% MCA	4,906-08

TUBING RECORD	Size 2 7/8	Set At 4,888	Packer at	Liner Run	☐ Yes ☒ No
Date of First Production	3/21/78	Producing Method	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain).....		

C. E. (ED) LEITH
OPERATIONS
427 UNION CENTER BLDG.
WICHITA, KANSAS 67202
TELEPHONE 316-265-3491

36-33-6W

NATIONAL OIL COMPANY
200 West Douglas - Suite 550
Wichita, Kansas 67202

BURGEMEIER LEASE WELL NO. 1
C SW SE Sec. 36-33S-6W
Harper County, Kansas

RE-COMPLETION RECORD

SUMMARY:

Plug Back Total Depth 4910'
Casing Perforations: 4906'-08' (Viola)
Stimulation: 200 Gal. Mud Acid
Tubing: 157 jts. 4888' 2-7/8" OD
Seating Nipple: 2-7/8" x 12"
Mud Anchor" 2-7/8" x 14' w/ 4' perf.

DETAIL:

3-15-78

Move in and rig up double drum well service unit - Rig broke down - repair rig - Pull rods.

3-16-78

Pull 2-7/8" tubing - Install master gate - Well start flow through casing - Unload 33 bbls oil - Ran Gamma-Collar Correlation Log - Perforate 5 1/2" casing 4906'-07' w/ 4-DP jets - Set Baker CI Bridge plug @ 4910' - Ran 50 jts. 2-7/8" tubing.

3-17-78

Ran balance of tubing - total 157 jts. + 1-2-7/8" x 6' Sub - 4888' - 2-7/8" OD EUE 8rd. Tubing w/ 2-7/8" x 12" Seating Nipple = 2-7/8" x 4' perf. Sub - 2-7/8" x 10' Sub w/ plug on bottom - Set 6 1/2' off TD. = Swab thru tubing to bottom - test dry -

3-18-78

Ran swab - No fillup - Acidize w/ 150 gal. 7 1/2% MCA Acid - Load hole & stage pressure to 200# - Did not break - let set over Sunday.

3-20-78

Hole full - did not take acid - Pressure to maximum 500# - Did not break - Circulate acid from hole - Spot 200 gal. 7 1/2% Acid on perf's. - Stage pressure to maximum 1600# - Did not break - Circulate acid in pit. - Pull tubing

3-21-78

Reperforate 5 1/2" casing 4906' - 08' w/ 9 DP jets - Check plug - still @ 4910' Ran 2-7/8" tubing - Spot 200 gal. 15% Acid on perf's. - Let set - 13 minutes = take 3 bbls acid on vacuum - Ran 2 1/2" x 2" x 14' RWTC Insert pump w/ dbl. valves - on 116 - 3/4" type 78 Rods + 78 - 7/8" type 78 Rods = 3/4" x 2' pony rod on pump - 7/8" x 2' & 4' pony rods on top. - Start well pumping = Tear down tools.

Supervised by:

Lloyd Clothier

SEP 04 1987
KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

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SEP 4 1987

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