[redacted]

FORM MUST BE TYPED SIDE ONE

ORIGINAL

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

RECEIVED
KANSAS CORP
1997 OCT 20 P 1:43

API NO. 15- 155-21414 0000

County Reno County, Kansas

C-W/2 NE NW Sec. 13 Twp. 23S Rge. 4 E/W

660 Feet from S/N (circle one) Line of Section

1650 Feet from E/W (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or SW (circle one)

Lease Name Sabin "B" Well # 9

Field Name Burrton

Producing Formation Mississippi

Elevation: Ground 1468' KB 1476'

Total Depth 3641' PBTD 3510

Amount of Surface Pipe Set and Cemented at 280' Feet

Multiple Stage Cementing Collar Used? ____ Yes X No

If yes, show depth set ____ Feet

If Alternate II completion, cement circulated from ____

feet depth to ____ w/ ____ sx cmt.

Drilling Fluid Management Plan Alt. I, 3-13-98 KC
(Data must be collected from the Reserve Pit)

Chloride content 3700 ppm Fluid volume 570 bbls

Dewatering method used Vacuum truck

Location of fluid disposal if hauled offsite:

Operator Name Howell Oil Company

Lease Name Pizinger #1 SWD License No. 5091

NW Quarter Sec. 18 Twp. 23 S Rng. 3 E/W

County Harvey Docket No. E-26, 100

Operator: License # 5091 10-20-97

Name: Howell Oil Company, Inc.

Address RR 1 Box 22

City/State/Zip Burrton, Kansas 67202-2091

Purchaser: Conoco

Operator Contact Person: Steve Howell

Phone (316) 463-2609

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Kris Kennedy

Designate Type of Completion
X New Well ____ Re-Entry ____ Workover

X Oil ____ SWD ____ SIOW ____ Temp. Abd.
____ Gas ____ ENHR ____ SIGW
____ Dry ____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: ____

Well Name: ____

Comp. Date ____ Old Total Depth ____

____ Deepening ____ Re-perf. ____ Conv. to Inj/SWD
____ Plug Back ____ PBTD
____ Commingled Docket No. ____
____ Dual Completion Docket No. ____
____ Other (SWD or Inj?) Docket No. ____

06-19-97 Spud Date
06-24-97 Date Reached TD
06-24-97 Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 and 82-3-107 apply. Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form (see rule 82-3-107 for confidentiality in excess of 12 months). One copy of all wireline logs and geologist well report shall be attached with this form. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature [signature]

Title Pres. Date 10-17-97

Subscribed and sworn to before me this 17 day of Oct
19 97

Notary Public [signature]

Date Commission Expires 4-30 2001

NOTARY PUBLIC - State of Kansas
BEVERLY D. GREBEL
My Appt. Exp. 4-30-2001

K.C.C. OFFICE USE ONLY
F ✓ Letter of Confidentiality Attached
C ✓ Wireline Log Received
C ____ Geologist Report Received

Distribution
✓ KCC ____ SWD/Rep ____ NGPA
____ KGS ____ Plug ____ Other (Specify)

Form ACO-1 (7-91)

SIDE TWO

ORIGINAL

Operator [redacted] Oil Company, Inc. Lease Name Sabin "B" Well # 9

Sec. 13 Twp. 23S Rge. 4 ☐ East ☒ West County Reno County, Kansas

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken (Attach Additional Sheets.)	☒ Yes	☐ No
Samples Sent to Geological Survey	☒ Yes	☐ No
Cores Taken	☐ Yes	☒ No
Electric Log Run (Submit Copy.)	☒ Yes	☐ No

List All E.Logs Run:

Gamma Ray Neutron

☐ Log Formation (Top), Depth and Datums ☐ Sample

Name	Top	Datum
Mississippi	3271	-1781

*See attached Drill Stem Report

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	17-1/2"	13-3/8"	45#	280'	60/40 Poz	250	3%cc 2%gel
Production	7-7/8"	5-1/2"	14#	3638'	60/40 Poz	200	Latex in last80

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top	Depth Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
___ Perforate					
___ Protect Casing					
___ Plug Back TD					
___ Plug Off Zone					

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
2	3383.5 - 3393.5	1000 gal. 15% NE	3383.5-3393.5

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2-7/8"	3398		☐ Yes ☒ No

Date of First, Resumed Production, SWD or Inj.	Producing Method
9-3-97	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	0	—	450		—

Disposition of Gas: None

☐ Vented ☐ Sold ☐ Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION

☐ Open Hole ☒ Perf. ☐ Dually Comp. ☐ Commingled

☐ Other (Specify) _____

Production Interval 3383.5-3393.5

Ricketts Testing, Inc.

15-155-21414

ORIGINAL

Company HOWELL OIL COMPANY, INC. | Lease & Well No. SABIN #9

Elevation 1473 K.B. | Formation MEISNER SAND | Effective Pay ____ ft. | Ticket No. 1860

Date 6-24-97 | Sec. 13 | Twp. 23S | Range 4W | County RENO | State KANSAS

Test Approved by KRIS KENNEDY | Ricketts Representative JIM RICKETTS

Formation Test No. 1 | Interval Tested from 3538 ft. to 3641 ft. | Total Depth 3641

Packer Depth 3538 ft. | Size 6 3/4 in. | Packer Depth ____ ft. | Size ____ in.

Packer Depth 3535 ft. | Size 6 3/4 in. | Packer Depth ____ ft. | Size ____ in.

Depth of Selective Zone Set ____

Top Recorder Depth (Inside) 3543 ft. | Recorder Number 13307 | Cap. 4650

Bottom Recorder Depth (Outside) 3638 ft. | Recorder Number 13306 | Cap. 4625

Below Straddle Recorder Depth ____ ft. | Recorder Number ____ | Cap. ____

Drilling Contractor Duke Drilling Rig #2 | Drill Collar Length ____ | I.D. ____

Mud Type Chemical | Viscosity 44 | Weight Pipe Length ____ | I.D. ____

Weight 9.6 | Water Loss 11.2 cc. | Drill Pipe Length 3516 | I.D. 3.25

Chlorides 2,000 P.P.M. | Test Tool Length 22 ft. | Tool Size 5½

Jars: Make ____ Serial Number ____ | Anchor Length 103 ft. | Size 5½

Did Well Flow? No | Reversed Out No | Surface Choke Size 3/4 in. | Bottom Choke Size 3/

Gravity Oil ____ | Main Hole Size 7 7/8 in. | Tool Joint Size 4½xh

Blow: Weak blow, 1" in water Initial Flow Period. No blow Final Flow Period.

Recovered 15 ft. of Mud

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Recovered ____ ft. of ____

Remarks: ____

Time Set Packer (s) 9:57 A M. | Time Started Off Bottom 11:52 A M. | Maximum Temperature 108

Initial Hydrostatic Pressure		(A) 1804	P.S.I.
Initial Flow Period	Minutes 30	(B) 37	P.S.I. to
		(C) 37	P.S.I.
Initial Closed In Period	Minutes 30	(D) 412	P.S.I.
Final Flow Period	Minutes 30	(E) 37	P.S.I. to
		(F) 37	P.S.I.
Final Closed In Period	Minutes 33	(G) 257	P.S.I.
Final Hydrostatic Pressure		(H) 1804	P.S.I.

[redacted]

Test Ticket No. 1860

Capacity 4650 Location 3543 Ft.

Elevation 1473 K.B. Well Temperature 108 °F

Pressure			Time Given	Time Computed
Hydrostatic Mud	1804 P.S.I.	Open Tool	9:52 AM	
Initial Flow Pressure	37 P.S.I.	First Flow Pressure	30 Mins.	30 Mins.
Final Flow Pressure	37 P.S.I.	Initial Closed-in Pressure	30 Mins.	30 Mins.
Closed-in Pressure	412 P.S.I.	Second Flow Pressure	30 Mins.	30 Mins.
Initial Flow Pressure	37 P.S.I.	Final Closed-in Pressure	30 Mins.	30 Mins.
Final Flow Pressure	37 P.S.I.			
Closed-in Pressure	257 P.S.I.			
Hydrostatic Mud	1804 P.S.I.			

PRESSURE BREAKDOWN

irst Flow Pressure
akdown: 6 Inc.
5 mins. and a
al inc. of Min.

	Press.
	37
	37
0	37
5	37
20	37
25	37
30	37
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	

Initial Shut-In
Breakdown: 10 Inc.
of 3 mins. and a
final inc. of Min.

Point Minutes	Press.
0	37
3	40
6	44
9	53
12	83
15	139
18	201
21	261
24	317
27	359
30	412
33	
36	
39	
42	
45	
48	
51	

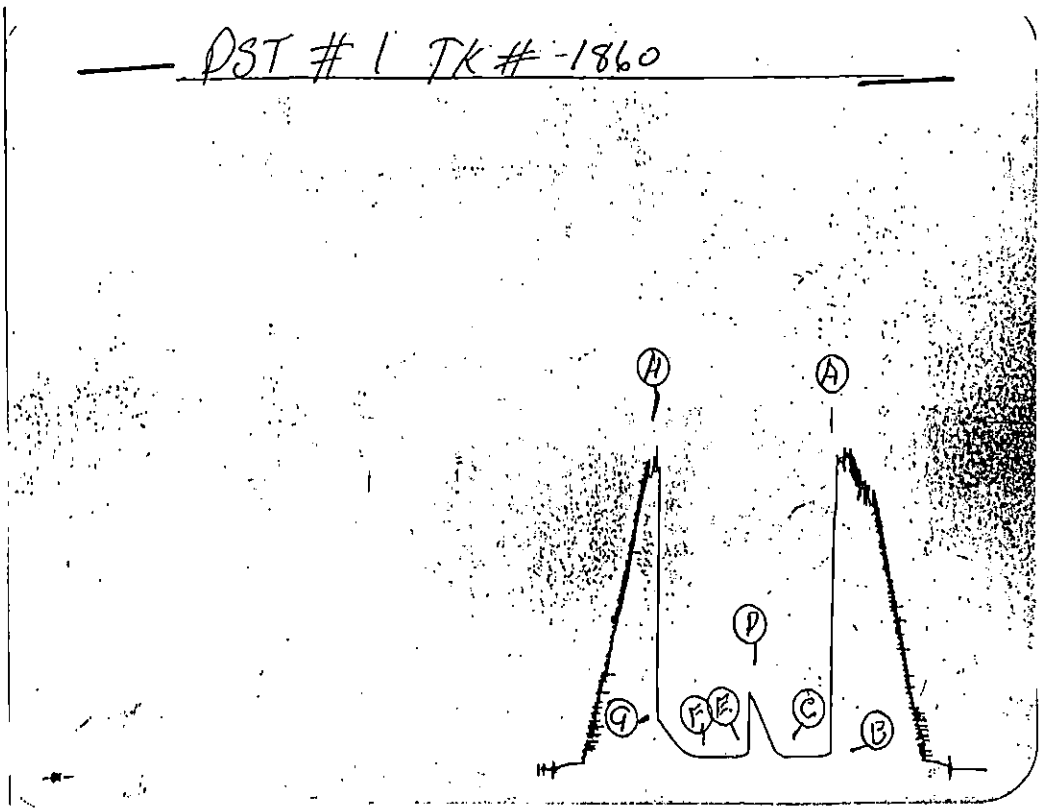
Second Flow Pressure
Breakdown: 6 Inc.
of 5 mins. and a
final inc. of Min.

Point Minutes	Press.
0	37
5	37
10	37
15	37
20	37
25	37
30	37
35	
40	
45	
50	
55	
60	
65	
70	
75	
80	
85	

Final Shut-In
Breakdown: 11 Inc.
of 3 mins. and a
final inc. of Min.

Point Minutes	Press.
0	37
3	40
6	46
9	52
12	62
15	74
18	98
21	127
24	164
27	197
30	229
33	257
36	
39	
42	
45	
48	
51	

COMPANY [illegible] LEASE AND WELL NO. [illegible] SEC. [illegible] TWP. [illegible] RGE. [illegible] TEST NO. [illegible] DATE [illegible]



This is an actual photograph of recorder chart.

POINT		PRESSURE Field Reading	Office Reading	
(A)	Initial Hydrostatic Mud	1825	1804	PSI
(B)	First Initial Flow Pressure	46	37	PSI
(C)	First Final Flow Pressure	46	37	PSI
(D)	Initial Closed-in Pressure	440	412	PSI
(E)	Second Initial Flow Pressure	46	37	PSI
(F)	Second Final Flow Pressure	46	37	PSI
(G)	Final Closed-in Pressure	313	257	PSI
(H)	Final Hydrostatic Mud	1825	1804	PSI