

ORIGINAL

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

Operator: License # 5091

Name: Howell Oil Company, Inc.

Address RR 1 Box 22

City/State/Zip Burrton, Kansas 67020-2091

Purchaser: Conoco

Operator Contact Person: Steve Howell

Phone ( 316 ) 463-2609

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Arden Ratzlaff

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  SIOW  Temp. Abd.  
 Gas  EMHR  SIGW  
 Dry  Other (Core, WSV, 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  PBTB  
 Commingled  Docket No. \_\_\_\_\_  
 Dual Completion  Docket No. \_\_\_\_\_  
 Other (SWD or Inj?)  Docket No. \_\_\_\_\_

08-01-96 08-06-96 08-07-96  
Spud Date Date Reached TD Completion Date

API NO. 15- 155-21395 0000

County Reno County, Kansas

NW - NW - SE - Sec. 13 Twp. 23S Rgo. 4 XX<sup>E</sup>

2310 Feet from (S) (circle one) Line of Section

2310 Feet from (E) (circle one) Line of Section

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

Lease Name Dole Well # 2

Field Name Burrton

Producing Formation Mississippi

Elevation: Ground 1468 KB 1476

Total Depth 3643' PBTB 3750'

Amount of Surface Pipe Set and Cemented at 260 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan AH-1, 3-4-98 U.C.  
(Data must be collected from the Reserve Pit)

Chloride content 19,000 ppm Fluid volume 2300 bbls

Dewatering method used Vacuum truck

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name Howell Oil Co.

Lease Name Pizinger #1 SWD License No. 5091

NW Quarter Sec. 18 Twp. 23S S Rgo. 3 X/<sub>W</sub>

County Harvey Docket No. E-26, 100

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.

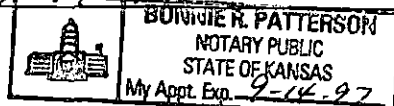
Signature Steve Howell

Title President, Howell Oil Co. Date \_\_\_\_\_

Subscribed and sworn to before me this 19<sup>th</sup> day of November, 19 96.

Notary Public Bonnie R. Patterson

Date Commission Expires 9-14-97



11-22-96

K.C.C. OFFICE USE ONLY  
F  Letter of Confidentiality Attached  
C  Wireline Log Received  
C  Geologist Report Received  
Distribution  
 KCC  SWD/Rep  NEPA  
 KGS  Plug  Other (Specify)  
NOV 22 1996  
KANSAS CORPORATION COMMISSION

Operator Name Howell Oil Company, Inc.

Lease Name Dole

Well # 2

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  Yes  No  
(Attach Additional Sheets.)

Samples Sent to Geological Survey  Yes  No

Cores Taken  Yes  No

Electric Log Run  Yes  No  
(Submit Copy.)

List All E.Logs Run:

Gamma Ray Neutron

Log Formation (Top), Depth and Datum  Sample

Name	Top	Datum
Mississippian	3272	(-1799)
Hunton	3632	(-2155)

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	17-1/4"	13-3/8"	48#	260'	60/40 Poz	250	3%cc 2%gel
Production	7-7/8"	5-1/2"	14#	3605'	60/40 Poz	150	2%gel

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> 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	3314 -18	750 gallons 15% NE	3314-18

TUBING RECORD Size 2 7/8" Set At 3320' Packer At None Liner Run  Yes  No

Date of First, Resumed Production, SWD or Inj. 9-1-96 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours Oil 13 Bbls. Gas — Mcf Water 365 Bbls. Gas-Oil Ratio None Gravity 39.5

Disposition of Gas: None

METHOD OF COMPLETION

Production Interval

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

Open Hole  Perf.  Dually Comp.  Commingled  
 Other (Specify)

3314-18

SERVICE TICKET

UNITED CEMENTING & ACID CO., INC.

NO 3327

BOX 712

EL DORADO, KANSAS 67042

PHONE AC 316-321-4680

DATE 8-2-99 COUNTY Lawrence

CHG. TO: Steve Noland ADDRESS ORIGINAL

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

LEASE & WELL NO. Dob #2 SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RNG. \_\_\_\_\_

CONTRACTOR Cable #12 TIME ON LOCATION 6:30

KIND OF JOB Cementing LS

SERVICE CHARGE: 837.60

QUANTITY	MATERIAL USED	TYPE	
120	50# 60-40 Dodsmit	@	4.25 510.00 *
75	50# 60-40 Dodsmit hotep	@	10.50 797.50 *
4	30# steel	@	8.25 33.00 *
1	5/8" Hard Steel Std		95.00 *
1	5/8" A.F. Insulat Flat Valve Std		110.00 *
5	5/8" Centralizer	@	3000 each 150.00 *
179	BULK CHARGE 50#	@	84 150.36 *
59	BULK TRK. MILES (9 hrs x 6.5 x 59 miles)		329.22 *
	PUMP TRK. MILES		
1	PLUGS 5/8" top Rubber plug	@	50.00 *
	SALES TAX		130.69 *
	TOTAL		3,183.37

T. D. 3693 CSG. SET AT 36.05 VOLUME \_\_\_\_\_

SIZE HOLE 2 7/8" TBG SET AT \_\_\_\_\_ VOLUME \_\_\_\_\_

MAX. PRESS. 1000 SIZE PIPE 5 1/2

PLUG DEPTH 3577' PKER DEPTH \_\_\_\_\_

PLUG USED Rubber TIME FINISHED 11:30 AM

REMARKS: 125 lbs to 1000 ppg bar 29' hole 55' sand of bottom 1" 3/4" steel 1" 5/8" A.F. Insulat V. Valve 5" - 1/2" Centralizer

EQUIPMENT USED

NAME	UNIT NO.	NAME	UNIT NO.
<u>Shot</u>			

CEMENTER OR TREATER

OWNER'S REP.

## GENERAL TERMS AND CONDITIONS

All prices are exclusive of any Federal, State or Special Taxes for the sale or use of merchandise or service listed. The amount of taxes required to be paid by the seller shall be added to the quoted prices payable by the buyer.

Unless satisfactory credit has been established, cash payment will be required in advance.

We will make reasonable attempt to get to and from the well under our own power. Should we be unable to do so because of poor or inadequate road conditions, and it becomes necessary to employ a tractor or other pulling equipment, such equipment will be supplied by the customer, or if furnished by us, the cost will be charged to the customer.

We endeavor to design and maintain our equipment to safely service properly drilled and conditioned wells. We carry public liability and property damage insurance, but as there are so many uncertain and unknown conditions not subject to control, we can neither be liable for injuries to property or persons nor for loss or damage arising from the performance of our services or resulting therefrom.

In the event equipment or tools are lost in rendering our services, the customer agrees to make reasonable attempt to recover same. If not recovered, customer agrees to reimburse us for their value.

If a material service is ordered and the customer cancels same after the solution has been prepared, a charge will be made to the customer for the expenses incurred.

Unless otherwise specified, a dead haul charge of \$1.25 per mile, one way, will be made for each service unit ordered but not used.

All prices are subject to change without notice.

All unpaid bills are subject to interest after 60 days from date of invoice.

SERVICE TICKET

UNITED CEMENTING & ACID CO., INC.

№ 3326

BOX 712

EL DORADO, KANSAS 67042

PHONE AC 316-321-4680

DATE 8-1-56 COUNTY Reed

CHG TO: Household oil ADDRESS ORIGINAL

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP \_\_\_\_\_

LEASE & WELL NO. Dale #2 SEC \_\_\_\_\_ TWP \_\_\_\_\_ RNG \_\_\_\_\_

CONTRACTOR Duke #2 TIME ON LOCATION 5:01 pm

KIND OF JOB Cementing SPAW

SERVICE CHARGE: \_\_\_\_\_ 375.00

QUANTITY	MATERIAL USED	TYPE		
250	5% 60-110 Pelmin	(a)	4.25	1,062.50 *
7	5% Chloride	(a)	24.00	168.00 *
5	5% Gel	(a)	8.75	43.75 *
262	BULK CHARGE 5% (a)		.84	220.68 *
59	BULK TRK. MILES (137013 x 162 x 59700 lbs)			1175.54 *
	PUMP TRK. MILES			
1-13 3/8	PLUGS top wooden plug (a)			63.00 *
	SALES TAX			119.94
	TOTAL			2,527.81

T. D. 260' CSG. SET AT 260' VOLUME \_\_\_\_\_

SIZE HOLE 17" TBG SET AT \_\_\_\_\_ VOLUME \_\_\_\_\_

MAX. PRESS. \_\_\_\_\_ SIZE PIPE 15 3/8

PLUG DEPTH \_\_\_\_\_ PKER DEPTH \_\_\_\_\_

PLUG USED Wood & Rubber TIME FINISHED 10:30 pm

REMARKS: 250 lb. cement per mile  
5% gel  
5% oil  
1 cement pad

EQUIPMENT USED

NAME	UNIT NO.	NAME	UNIT NO.
<u>Unit</u>		<u>Tracy</u>	<u>Phillip</u>

CEMENTER OR TREATER

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**DRILL-STEM TEST DATA**

**ORIGINAL**

Well Name	Dole	15-155-21395	Test No.	1
Well Number	2		Zone Tested	Hunton
Company	Howell Oil Co Inc		Date	8/6/96
Comp. Rep.	A Ratzlaff		Tester	Don Fabricius
Contractor	Duke Drlg		Ticket No.	3228
Location	13-23-4		Elevation	

Recorder No. 3088 Clock Range 12 Recorder No. 4377 Clock Range 12  
Depth 3634 Depth 3638  
Initial Hydro Mud Press. 1842 Initial Hydro Mud Press. 1842  
Initial Shut-in Press. 70 Initial Shut-in Press. 50  
Initial Flow Press. 50-50 Initial Flow Press. 50-50  
Final Flow Press. 50-50 Final Flow Press. 50-50  
Final Shut-in Press. 50 Final Shut-in Press. 50  
Final Hydro Mud Press. 1842 Final Hydro Mud Press. 1842  
Temperature \_\_\_\_\_ Tool Open Before I. S. I. 30 Mins.  
Mud Weight 9.4 Viscosity 43 Initial Shut-in 30 Mins.  
Fluid Loss 10.4 Flow Period 30 Mins.  
Interval Tested 3524-3638 Final Shut-in 30 Mins.  
Top Packer Depth 3519 Surface Choke Size 1  
Bottom Packer Depth 3524 Bottom Choke Size 3/4  
Total Depth 3638 Main Hole Size 7 7/8  
Drill Pipe Size 4 1/2 X.Wt. 16.60 Rubber Size 6 3/4  
Drill Collar I. D. \_\_\_\_\_ Ft. Run \_\_\_\_\_  
Recovery—Total Feet \_\_\_\_\_  
Recovered 5 Feet Of Mud  
Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_  
Remarks  
Very weak blow dead in 10 min

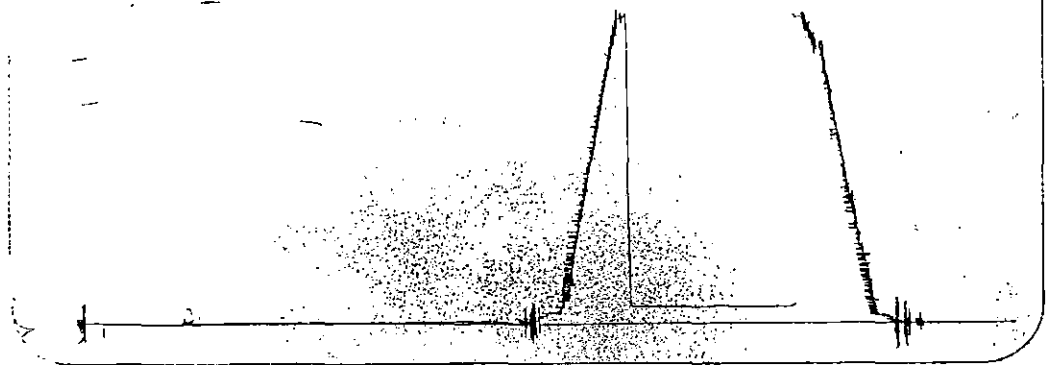
**THIS ORDER MUST BE SIGNED BEFORE WORK IS COMMENCED. CONDITIONS:** It is expressly understood and agreed that the above described work shall be done under the exclusive control, direction and supervision of the owner or contractor. As a part of the consideration for this agreement, it is expressly understood and agreed that Arrow Testing Company shall not be responsible for damages or losses of any kind whatsoever occasioned by or incident to the use of the above described Tools, whether run or operated by customer, or by anyone employed directly or indirectly by Arrow Testing Company, nor whether resulting from the acts or omissions of Arrow Testing Company, or any of its agents, servants or employees in any way connected with or related to the use of such Tools.

It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

By \_\_\_\_\_  
Owner, Operator or his Agent

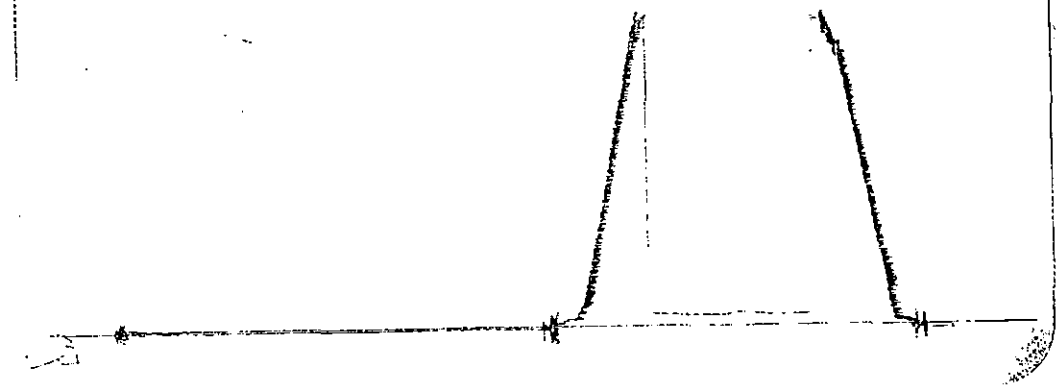
4277

2288



3088

2288





**DRILL-STEM TEST DATA**

ORIGINAL

Well Name <u>Dole</u> <u>15-155-21395</u>	Test No. <u>2</u>
Well Number <u>2</u>	Zone Tested <u>Hunton</u>
Company <u>Howell Oil Co Inc</u>	Date <u>8/7/96</u>
Comp. Rep. <u>A Ratzlaft</u>	Tester <u>Don Fabricius</u>
Contractor <u>Duke Drlg</u>	Ticket No. <u>3229</u>
Location <u>13-23-4</u>	Elevation

Recorder No. <u>3088</u> Clock Range <u>12</u>	Recorder No. <u>4377</u> Clock Range <u>12</u>
Depth <u>3635</u>	Depth <u>3639</u>
Initial Hydro Mud Press. <u>1900</u>	Initial Hydro Mud Press. <u>1900</u>
Initial Shut-in Press. <u>1347</u>	Initial Shut-in Press. <u>1347</u>
Initial Flow Press. <u>223-1036</u>	Initial Flow Press. <u>223-1036</u>
Final Flow Press. <u>1082-1209</u>	Final Flow Press. <u>1082-1209</u>
Final Shut-in Press. <u>1347</u>	Final Shut-in Press. <u>1347</u>
Final Hydro Mud Press. <u>1900</u>	Final Hydro Mud Press. <u>1900</u>
Temperature _____	Tool Open Before I. S. I. <u>30</u> Mins.
Mud Weight <u>9.4</u> Viscosity <u>48</u>	Initial Shut-in <u>30</u> Mins.
Fluid Loss <u>10.4</u>	Flow Period <u>30</u> Mins.
Interval Tested <u>3524-3643</u>	Final Shut-in <u>30</u> Mins.
Top Packer Depth <u>3519</u>	Surface Choke Size <u>1</u>
Bottom Packer Depth <u>3524</u>	Bottom Choke Size <u>3/4</u>
Total Depth <u>3643</u>	Main Hole Size <u>7 7/8</u>
Drill Pipe Size <u>4 1/2 X Hwt. 16.60</u>	Rubber Size <u>6 3/4</u>
Drill Collar I. D. _____ Ft. Run _____	

Recovery—Total Feet \_\_\_\_\_

Recovered 2610 Feet Of Muddy water

Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_

Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_

Recovered \_\_\_\_\_ Feet Of \_\_\_\_\_

Remarks

Strong blow thru-test

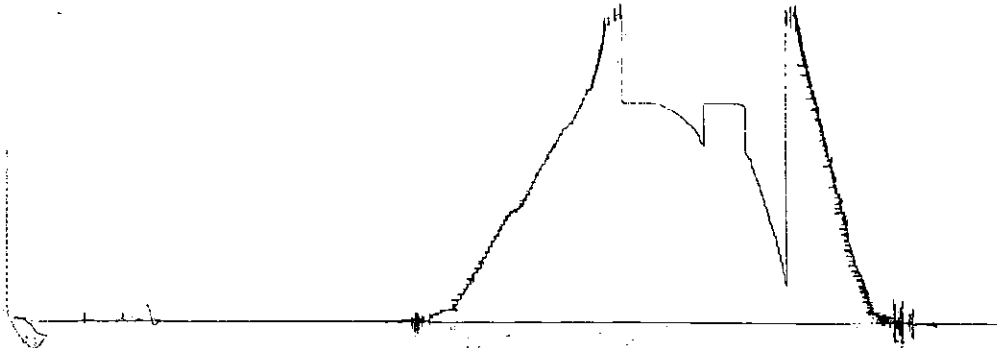
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It is expressly understood and agreed that Arrow Testing Company, shall not be bound by any agreement, not herein contained, and no agent or representative connected with or employed by Arrow Testing Company has authority to alter or extend the terms of this agreement. I have read and understand the terms of this agreement and represent that I am authorized to sign the same as agent of customer.

By \_\_\_\_\_  
*Owner, Operator or his Agent*

4399

3229



3088

3229

