

SIDE ONE

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

Operator: License # 3384
Name: R.J. SULLIVAN d/b/a
SULLIVAN & COMPANY
Address
320 South Boston - Suite 1700
City/State/Zip Tulsa, Oklahoma 74103

Purchaser: DRY P & A
Operator Contact Person: Dale E. Dawson
Phone (918) 584-4288

Contractor: Name: DUKE DRILLING CO., INC.
License: 5929
Wellsite Geologist: David Sullivan

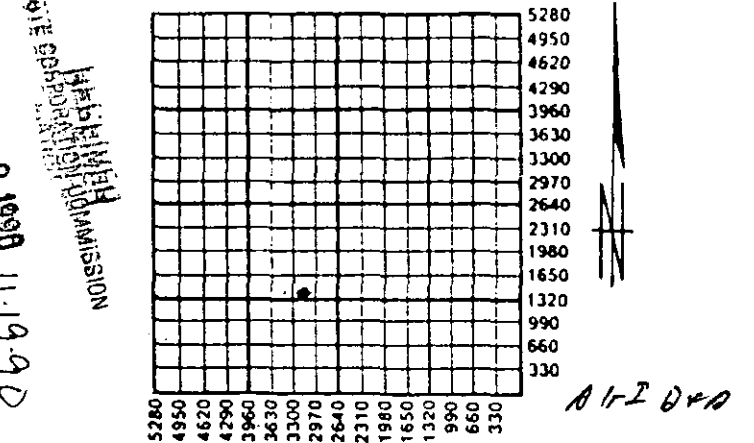
Designate Type of Completion
 New Well Re-Entry Workover
 Oil SWD Temp. Abd.
 Gas Inj Delayed Comp.
 Dry Other (Core, Water Supply, etc.)

If OWMO: old well info as follows:
Operator: _____
Well Name: _____
Comp. Date _____ Old Total Depth _____

Drilling Method:
 Mud Rotary Air Rotary Cable
10/6/90 10/13/90 10/13/90
Spud Date Date Reached TD Completion Date

API NO. 15- 007
077-22,331-00-00
County Barber
C - E/2 SW Sec. 14 Twp. 33S Rge. 12 East West
1350 Ft. North from Southeast Corner of Section
3200 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

Lease Name M. HARBAUGH Well # 1
Field Name Rhodes
Producing Formation dry hole
Elevation: Ground 1439' KB 1447'
Total Depth 3897' PBDT ---



Amount of Surface Pipe Set and Cemented at 313 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.

INSTRUCTIONS: This form shall be completed in triplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date of any well. Rule 82-3-130, 82-3-107 and 82-3-106 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 drillers time log 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. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

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 Dale E. Dawson
Title Production & Operations Date 11/15/90
Manager
Subscribed and sworn to before me this 16th day of November,
19 90.
Notary Public Faye V. ...
Date Commission Expires December 7, 1992

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Timelog Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)

JAN 20 1970

SIDE TWO

Operator Name R.J. Sullivan d/b/a SULLIVAN AND COMPANY Lease Name M. HARBAUGH Well # 1
 Sec. 14 Twp. 33S Rge. 12 East West
 County Barber

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.)

Formation Description		
Name	Top	Bottom
Base Red Beds	1754'	
Indian Cave	2612'	
Stotler Lime	2788'	
Topeka Lime	3080'	

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"	23#	313'	Common	205	2% gel, 3% cc

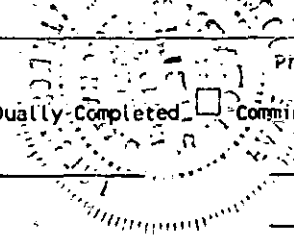
Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
none	none	none	

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First Production Dry P & A Producing Method Flowing Pumping Gas Lift Other (Explain)

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

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)
 METHOD OF COMPLETION: Open Hole Perforation Dually Completed Commingled Other (Specify) _____
 Production Interval: none



ORIGINAL

DRILLER'S WELL LOG

M. HARBAUGH #1
C-E/2 SW
Section 14-33S-12W
Barber County, Kansas

SULLIVAN AND COMPANY

COMMENCED: October 6, 1990
COMPLETED: October 13, 1990

ELEVATIONS: 1439' Gr. 1447' KB

0' - 316' Surface Soil
316' - 980' Shale
980' - 1935' Shale
1935' - 2335' Shale & Lime
2335' - 2940' Lime & Shale
2940' - 3405' Shale & Lime
3405' - 3897' Shale & Lime
3897' Total Depth

SURFACE CASING: Set 7 jts. 8-5/8"
23# at 313 feet. Cemented with
205 sacks Common, 2% gel, 3% cc.

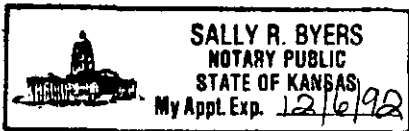
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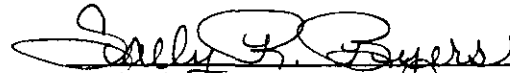
STATE OF KANSAS)
) ss:
COUNTY OF SEDGWICK)

James B. Phillips, of lawful age, does swear and state that the facts and statements herein are true and correct to the best of his knowledge.


James B. Phillips

Subscribed and sworn to me this 31st day of October, 1990.




Sally R. Byers NOTARY PUBLIC

My Commission Expires: December 6, 1992.

RECEIVED
STATE CORPORATION COMMISSION

NOV 19 1990

CONSERVATION DIVISION
Wichita, Kansas

EFFECTIVE DATE: 9-15-90

FORM MUST BE TYPED
FORM C-1 4/90

State of Kansas 15-007-22, 331-00-00

FORM MUST BE SIGNED
ALL BLANKS MUST BE FILLED

Must be approved by the K.C. five (5) days prior to commencing well

Expected Spud Date October 5 1990
month day year

- E2 SW Sec 14 Twp 33 S, Rg 12 East
West

OPERATOR: License # 03384 R.J. Sullivan d/b/a
Name: Sullivan and Company
Address: Suite 1700, 320 S. Boston
City/State/Zip: Tulsa, OK 74103
Contact Person: Dale E. Dawson
Phone: (918) 584-4288

1350 feet from South line of Section
3200 feet from East line of Section
(Note: Locate well on Section Plat on Reverse Side)

CONTRACTOR: License #: Unknown
Name: Not selected
Trans Por -

County: Barber
Lease Name: M. Harbaugh Well #: 1
Field Name: The Rhodes

Is this a Prorated Field? yes no
Target Formation(s): Douglas Sand
Nearest lease or unit boundary: 1350'
Ground Surface Elevation: 1439 feet MSL
Domestic well within 330 feet: yes no
Municipal well within one mile: yes no
Depth to bottom of fresh water: 100'
Depth to bottom of usable water: 150'
Surface Pipe by Alternate:
Length of Surface Pipe Planned to be set: 300'
Length of Conductor pipe required: as required
Projected Total Depth: 3900'
Formation at Total Depth: Douglas Sand

Well Drilled For: Well Class: Type Equipment:
Oil Inj Infield Mud Rotary
 Gas Storage Pool Ext. Air rotary
OAWO Disposal Wildcat Ccbl
Seismic # of Holes

Water Source for Drilling Operations:
well farm pond other
O&G Permit #:
Will Cores Be Taken?: yes no
If yes, proposed zone:

If OAWO: old well information as follows:
Operator:
Well Name:
Comp. Date: Old Total Depth:

Directional, Deviated or Horizontal wellbore? yes no
If yes, total depth location:

Exp. 3/10/91

AFFIDAVIT

200' RECEIVED
STATE CORPORATION COMMISSION

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55-101, et. seq.

OCT 17 1990

Pusher Gary Pugh
 SPUD DATE 10-6-90 INIT.
 LENGTH SURFACE PLANNED 313
 RESERVE PIT STATUS- REMOVE FLUID LINED
 after salt sect. bbls. when done bbls.
 RATHOLED AHEAD? Y N SIZE HOLE
 SURFACE PIPE 8 3/4 @ 313 CONDUCTOR
 ANHYDRITE T- WA B-WA ELEVATION
 TD 3870 FORMATION Douglas Sand
 RAN PIPE @ DV TOOL ALT II DONE
 @ SX Y N
 Arbuckle Plug @ Ft. W/ SX
 Eng./Council @ Ft. W/ SX
 Anhydrite Base @ 690 Ft. W/ SD SX ok
 1/2 Base Anyh. @ Ft. W/ SX
 1/2, 1/2 Plug @ Ft. W/ SX
 Bottom Surface @ 330 Ft. W/ SD SX ok
 40' Plug @ 40-0 Ft. W/ 1d SX ok
 RAT HOLE CIRC/W/ 5 SX MOUSE HOLE W/ 16 SX
 WATER WELL SX (Irr. Well) Pond Hauling
 TECHNICIAN SD DATE 10-12-90
 TYPE OF CEMENT 60/40 Por 60%
 STARTING TIME (AM/PM) DATE
 COMPLETION TIME 9: (AM/PM) DATE 10-13-90
 CEMENT COMPANY PJ

CONSERVATION DIVISION
Wichita, Kansas