ORIGINAL

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 # 6988

Name: Smith Oil Operations

Address P.O. Box 550

City/State/Zip Hutchinson, Ks. 67504-0550

Purchaser: Clear Creek

Operator Contact Person: Dale R. Ohl

Phone (316) 663-6622

Contractor: Name: Duke Drilling co., Inc.

License: 5929

Wellsite Geologist: Robert Lewellyn

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

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

If OWWO: old well info as follows:
Operator:

Well Name:

Comp. Date ____ Old Total Depth ____

Drilling Method:
X Mud Rotary ____ Air Rotary ____ Cable

6/25/90 Spud Date | 7/3/90 Date Reached TD | 7/16/90 Completion Date

API NO. 15- 185-22,675-0000

County Stafford
5' S & 30' E
SW NW SE Sec. 12 Twp. 22 Rge. 12 ____ East X West

1645 Ft. North from Southeast Corner of Section

2280 Ft. West from Southeast Corner of Section
(NOTE: Locate well in section plat below.)

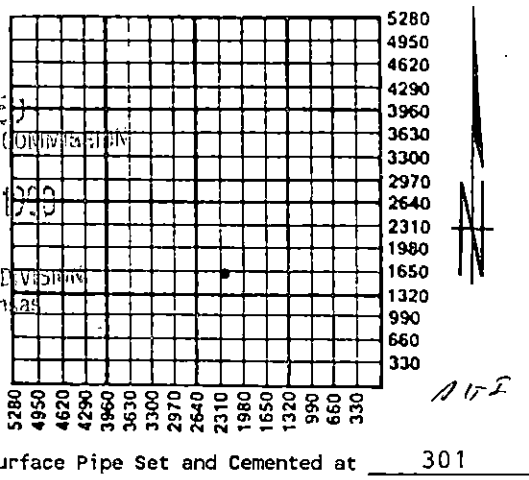
Lease Name Willinger Well # 5

Field Name Max

Producing Formation ARbuckle

Elevation: Ground 1802 KB 1807

Total Depth 3920' PBTD 3600



RECEIVED
STATE CORPORATION COMMISSION
AUG 29 1990
8-29-90
CONSERVATION DIVISION
Wichita, Kansas

Amount of Surface Pipe Set and Cemented at 301 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.

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 R Ohl

Title Dale R. Ohl, Controller Date 8/15/90

Subscribed and sworn to before me this 15th day of August, 19 90

Notary Public Mary Johnson

Date Commission Expires

MARY JOHNSON
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 7-15-90

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)

Form ACO-1 (7-89)

SIDE TWO

Operator Name Smith Oil Operations Lease Name Willinger Well # 5

Sec. 12 Twp. 22 Rge. 12 ☐ East ☒ West County Stafford

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

Formation Description

☒ Log ☐ Sample

Name	Top	Bottom
Anhydrite	562	
Heebner	3074	
Toronto	3091	
Douglas	3106	
Brown Lime	3204	
Lansing	3228	
Base KC	3481	
Arbuckle	3580	

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"	24#	301'	60/40 poz	175	2% gel 3% cc.
Production	7 7/8"	5 1/2"	14 & 15.5#	3919'	60/40 poz	200	18% salt .75% Halid3 5# Gilsonite last

PERFORATION RECORD

Shots Per Foot	Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)	Depth
1	3642	100 gal mud acid	
3	3623 - 25	None	
3	3605 - 07	None	
4	3590 - 92	275 gal mud acid	
4	3584 - 86	275 gal mud acid	
		5 1/2" Elder Bridge Plug	3600

TUBING RECORD	Size	Set At	Packer At	Liner Run
	2 7/8"	3595'	N/A	☐ Yes ☒ No

Date of First Production	Producing Method
07/18/90	☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (Explain)

Estimated Production Per 24 Hours	Oil	Bbls.	Gas	Mcf	Water	Bbls.	Gas-Oil Ratio	Gravity
		20		N/A		400		37

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

_____

_____

15-185-22675-0000

ORIGINAL

DRILL STEM TESTS

DST No. 1
3583-3588

30-30-30-60; Strong blow off bottom of bucket in one minute; good blow back on shut ins; recovered 2681 feet of gas in pipe, 920 feet of total fluid: 114 feet of clean oil (41° gravity), 124 feet of muddy oil (90% oil, 5% mud, 5% water), 62 feet of oil cut gassy muddy water (25% oil, 45% gas, 5% mud, 25% water), 434 feet of slightly oil cut muddy water (5% oil, 5% mud, 90% water), and 186 feet of water with a scum of oil. Chlorides 17,000 ppm.
ISIP 842# FSIP 875# IFP 77-253# FFP 297-385#

DST No. 2
3593-3608

30-45-30-60; Strong blow off bottom of bucket in one minute; no blow back; recovered 110 feet of gas in pipe, 1429 feet of total fluid: 179 feet of oil specked water, 496 feet of slightly oil specked water, 754 feet of water.
ISIP 788# FSIP 799# IFP 202-467# FFP 539-626#

DST No. 3
3610-3625

30-45-60-90; Weak ½" blow, increasing to 6" blow in 30 minutes, then to bottom of bucket by end of test; recovered 403 feet of gas in pipe, 155 feet of total fluid: 31 feet of oil cut mud (17% oil, 51% gas, 23% mud, 9% water), 31 feet of oil cut mud (15% oil, 45% gas, 35% mud, 05% water), 31 feet of oil cut mud (10% oil, 48% gas, 37% mud, 5% water) 31 feet of oil specked water (5% oil, 35% mud, 60% water), 31 feet of water with a scum of oil, chlorides 28,000 ppm.
ISIP 841# FSIP 850# IFP 29-29# FFP 49-97#