

SIDE ONE

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

API No. 15-15-185-22-559-0000  
County... Stafford  
..SE. SE. NE... Sec. 12. Twp. 22. Rge. 12. East  
X West

Operator: License # 6988  
Name SMITH OIL OPERATIONS  
Address P.O. Box 550  
City/State/Zip Hutchinson, KS 67504

2970 Ft North from Southeast Corner of Section  
330 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

Purchaser Alpine Petroleum

Lease Name Willinger "A" Well # 1  
Field Name MAX

Operator Contact Person Dale Ohl  
Phone (316) 663-6622

Producing Formation Simpson  
Elevation: Ground 1783 KB 1788

Contractor: License # 5929  
Name Duke Drilling Co., Inc.

Wellsite Geologist Robert Lewellyn  
Phone (316) 744-2567

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Designate Type of Completion  
X New Well Re-Entry Workover

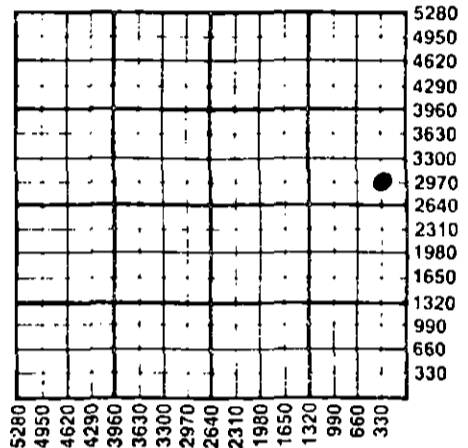
APR 13 1989

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

4-3-89  
CONSERVATION DIVISION  
Wichita, Kansas

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

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 # T 88-592

X Groundwater 2970 Ft North from Southeast Corner  
(Well) 330 Ft West from Southeast Corner of  
Sec 12 Twp 22 Rge 12 East X 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 city, R.W.D. #)

WELL HISTORY

Drilling Method:  
X Mud Rotary Air Rotary Cable

12-02-88 12-08-88 01-09-89  
Spud Date Date Reached TD Completion Date

3625' 3597'  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 303 feet  
Multiple Stage Cementing Collar Used? Yes XX No  
If yes, show depth set  
If alternate 2 completion, cement circulated  
from feet depth to w/ SX cmt  
Cement Company Name  
Invoice #

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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. 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.

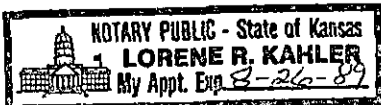
Signature Dale R. Ohl  
Title Controller Date 3/30/89

Subscribed and sworn to before me this 30th day of March 1989  
Notary Public Lorene R. Kahler

Date Commission Expires August 26 1989

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)  
4-3-89

Sec. 12 Twp. 22 Rge. 12 W



Operator Name SMITH OIL OPERATIONS Lease Name Willinger "A" Well # 1

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

WELL LOG

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  
 Samples Sent to Geological Survey  Yes  No  
 Cores Taken  Yes  No

DST #1 - 3252-3299 LKC, 30/45/60/45, IHP 1635, IFP 58-58, ISIP 1094, FFP 70-82, FSIP 1036, FHP 1635. Recovered 135' Gas, 105' VSO&GCM. Weak building to strong blow thru test.

DST #2 - 3410-3481 LKC, 30/30/30/30, IHP 1727, IFP 82-82, ISIP 105, FFP 82-82, FSIP 94, FHP 1727. Recovered 20' mud with spots of oil on top. Very weak blow dead in 15 min.

DST #3 - 3518-3608 Simpson, 30/45/60/60, IHP 1854, IFP 105-235, ISIP 1151, FFP 282-424, FSIP 1059, FHP 1854. Recovered 1160 clean gassy oil. Strong blow thru test. Gas to surface in 45 min. on second opening, TSTM.

Formation Description		DATUM	
Name	Top	<del>XXXXX</del>	
Anhydrite	534	(+1254)	
Base Anhydrite	553	(+1235)	
Howard	2672	(- 884)	
Severy	2726	(- 938)	
Topeka	2767	(- 979)	
Heebner Shale	3066	(-1278)	
Toronto Limestone	3083	(-1295)	
Douglas Shale	3098	(-1310)	
Brown Limestone	3198	(-1410)	
Lansing-KS City	3223	(-1435)	
Base Kansas City	3489	(-1701)	
Viola	3499	(-1711)	
Simpson Shale	3549	(-1761)	
Simpson Sand	3576	(-1788)	
ROTARY TOTAL			
DEPTH	3625	(-1837)	

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" type="checkbox"/> 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"....	...20#.....	...303'....	60/40 noz.	175...	2% gel. 3% cc.
..Production...	7-7/8"....	5 1/2"....	14.8 15.5#	3620...	Surfill..	165...	5# Gilsomite
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)		Depth	
4	3577-3581			300 GAL. 7 1/2% mud acid		3581	
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size		Set At		Packer at			
2 7/8		3591		None			
Date of First Production		Producing Method					
01/11/89		<input type="checkbox"/> Flowing <input checked="" type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
28 Bbls		-0- MCF	-0- Bbls	-0- CFPB	44°		

METHOD OF COMPLETION Production Interval

Disposition of gas:  Vented  Open Hole  Perforation  
 Sold  Other (Specify) ..... 3577-3581  
 Used on Lease  Dually Completed .....  
 Commingled

DRILLER'S WELL LOG

DATE COMMENCED: December 2, 1988  
DATE COMPLETED: December 8, 1988

SMITH OIL OPERATIONS  
WILLINGER "A" #1  
SE SE NE  
Sec. 12, T22S, R12W  
Stafford County, Ks.

ELEVATION: 1788 K.B.

0 - 535'	Surface Soil, Red Bed, Sand
535 - 557'	Anhydrite
557 - 1400'	Shale
1400 - 2672'	Lime & Shale
2672 - 2748'	Lime
2748 - 2763'	Shale & Sand
2763 - 3063'	Lime
3063 - 3083'	Shale & Lime
3083 - 3097'	Lime
3097 - 3195'	Shale
3195 - 3219'	Lime & Shale
3219 - 3473'	Lime
3473 - 3502'	Shale, Lime
3502 - 3548'	Chert
3548 - 3625'	Sand
3625'	RTD

Surface Pipe: Set new  
8-5/8", 20# pipe @ 303'  
w/175 sacks 60/40 pozmix  
2% gel 3% cc.

Production Pipe: Set used  
5 1/2", 14 & 15.5# @3620'  
w/165 sacks Surfll, w/5#  
Gilsonite per sacks, w/500  
gal. Mud Flush.

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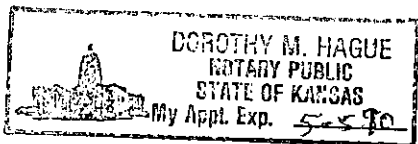
A F F I D A V I T

STATE OF KANSAS  
COUNTY OF BARTON) ss

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

*Leonard Williamson*

Subscribed and sworn to before me this 12 day of December 1988.



*Dorothy M Hague*  
Notary Public

## ROBERT C. LEWELLYN

petroleum geologist



(316) 744-2567

P. O. Box 2608  
Wichita, Kansas 67201

## GEOLOGICAL REPORT

RICHARD E. SMITH OIL PROPERTIES  
No. A-1 Willinger  
SE SE NE Section 12-22S-12W  
Stafford County, Kansas

SPUDDED: December 02, 1988  
DRILLING COMPLETED: December 09, 1988  
DRILLING CONTRACTOR: Duke Drilling Co., Inc.  
SURFACE CASING: 8 5/8" @ 303/KBM  
ELECTRIC LOGS: Wire Tech RAG, CDL, II Ind.  
ELEVATIONS: 1788 KB 1785 DF 1783 GL

## FORMATION TOPS: (Electric Log)

Anhydrite	534 (+1254)
Base Anhydrite	553 (+1235)
Howard	2672 (- 884)
Severy	2726 (- 938)
Topeka	2767 (- 979)
Heebner Shale	3066 (-1278)
Toronto Limestone	3083 (-1295)
Douglas Shale	3098 (-1310)
Brown Limestone	3198 (-1410)
Lansing-Kansas City Group	3223 (-1435)
Base Kansas City	3489 (-1701)
Viola	3499 (-1711)
Simpson Shale	3549 (-1761)
Simpson Sand	3550 (-1762)
Simpson Sand	3576 (-1788)
Log Total Depth	3621 (-1833)
ROTARY TOTAL DEPTH	3625 (-1837)

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Samples were examined from 2600 feet to Rotary Total Depth, and all zones having shows of sufficient quality for evaluation were drill stem tested. Following is a description of zones of interest, shows, drill stem tests, etc.

## HOWARD ZONES:

- 2674-2677 Limestone, buff, some tan, finely crystalline and chalky, scattered very poor intercrystalline and vugular porosity, no show of oil.
- 2681-2683 Limestone, buff to tan, finely crystalline and chalky, scattered poor vugular and intercrystalline porosity, no show of oil.
- 2700-2702 Limestone, buff, some tan, some cream chalky, finely crystalline and slightly fossiliferous, scattered  
&  
2705-2707 ed poor interfossil and intercrystalline porosity, no show of oil.

## TOPEKA ZONES:

- 2767-3066 The Topeka section consists of cream to buff, chalky and finely crystalline limestones, interbedded with thin layers of shale. Portions of the limestones are partly fossiliferous and numerous sections of poor to fair intercrystalline, interfossil, pinpoint and vugular porosity are present within the Topeka interval. No shows of oil were observed in the Topeka, and none of the porosity zones carried more than six ohms of resistivity, thus calculating non-productive on the Electric log.

## TORONTO ZONES:

- 3083-3098 Limestone, cream to buff, finely crystalline and chalky, partly fossiliferous, scattered poor intercrystalline porosity, no show of oil.

## DOUGLAS ZONES:

- 3098-3223 The Douglas section consisted of gray to greenish gray shales. Thin sections of the Stranger sand were present just below the Brown lime at 3203-3207 and 3213-3217. The sand had just a trace of very poor light spotted stain with no free oil and no odor. No other sand sections were present in the Douglas interval.

## LANSING-KANSAS CITY ZONES:

- 3223-3243 Limestone, cream to buff, finely crystalline and  
A zone slightly fossiliferous, partly chalky, scattered very poor intercrystalline porosity, no show of oil.
- 3245-3259 Limestone, buff, some tan, dense to finely crystalline, some slightly fossiliferous, zone mostly  
B zone no show of oil.

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- 3260-3263 C zone Limestone, cream to buff, chalky and finely crystalline, mostly tight with trace of very poor intercrystalline porosity, no show of oil.
- 3265-3268 D zone Limestone, cream to buff, finely crystalline, slightly fossiliferous, fair vugular and intercrystalline porosity, fair spotted stain, fair to good show of gassy free oil, faint odor.
- 3286-3290 E zone Limestone, buff, finely crystalline and slightly fossiliferous, scattered poor to fair intercrystalline porosity, scattered poor to fair spotted stain, slight show of free oil, questionable odor.
- 3293-3302 F zone Limestone, cream to buff, dense to finely crystalline, partly fossiliferous, fair vugular and intercrystalline porosity, some interfossil porosity, fair to good spotted stain, fair to good show of gassy free oil, faint to fair odor.

Note: In comparing Electric log measurements with drilling time measurements, it appears that depths on all drill stem tests should be corrected downhole four feet to correlate with electric log measurements.

- DST No. 1 30-45-60-45; weak blow, building to strong blow on  
3252-3299 both flow periods; recovered 135 feet of gas in pipe, 105 feet of very slightly to slightly oil and gas cut mud; ISIP 1094# FSIP 1036# IFP 58-58# FFP 70-82#.
- 3312-3318 G zone Limestone, cream to buff, finely crystalline and chalky, mostly tight, some scattered oolitic with isolated oolitic casts, no show of oil.
- 3058-3065 H zone Limestone, buff, some tan, some gray, finely crystalline and partly fossiliferous, partly oolitic, scattered poor to fair oolitic and interfossil porosity, scattered gilsonite, no show of oil. As is typical of many oolitic zones, zone calculates 19-20% porosity and 15-18% water saturation, but samples indicate the zone to be non-productive.
- 3374-3389 I zone Limestone, buff to tan, dense to finely crystalline, zone is mostly tight with trace of very poor intercrystalline porosity, no show of oil.
- 3399-3405 J zone Limestone, cream to buff, finely crystalline and oolitic, fair oolitic porosity in this zone and in upper section at 3392-3394, scattered gilsonite, no show of oil.
- 3420-3426 K zone Limestone, cream, finely crystalline and oolitic, scattered fair interoolitic and intercrystalline porosity, fair spotted stain, slight to fair show of oil.

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Richard E. Smith Oil Properties - A-1 Willinger

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free oil, faint to fair odor, trace of vugular porosity with show of oil as above.

3466-3471  
L zone

Limestone, buff, some tan, dense to finely crystalline, scattered poor to fair intercrystalline porosity with poor to fair spotted stain, some dense fragments with stain on possible fracture faces, trace of free oil, faint odor.

3472-3489  
M zone

Limestone, cream to buff, dense to finely crystalline, scattered fair intercrystalline and vugular porosity, poor spotted stain, slight show of free oil, questionable odor.

DST No. 2  
3410-3483

30-30-30-30; weak blow, died in 15 minutes; recovered 20 feet of mud with spots of oil on top; ISIP 105# FSIP 94# IFP 82-82# FFP 82-82#.

VIOLA ZONES:

3499-3516

Chert, white to cream, mostly fresh, no visible porosity, considerable scattered gilsonite, rare trace of poor spotted live oil stain, no free oil, no odor.

3516-3549

Chert, white to cream, mostly fresh, some tripolitic with very poor weathered vugular porosity, much scattered gilsonite, trace of poor scattered live oil stain, no free oil, no odor.

SIMPSON ZONES:

3550-3554

Sand, dolomitic, fine to medium grained, fairly well cemented, subround to subangular, fairly well sorted, poor to fair porosity, poor to fair spotted stain, trace of free oil, faint questionable odor.

3576-3582

Sand, slightly dolomitic, medium grained, subangular, fairly well cemented to friable, fairly well sorted, fair porosity, good show of gassy free oil, fair to good spotted stain, faint odor to no odor.

DST No. 3  
3518-3608

30-45-60-60; strong blow throughout test, gas to surface in 75 minutes; recovered 1160 feet of clean gassy oil, no water; ISIP 1151# FSIP 1059# IFP 105-235# FFP 282-424#

3582-3625

Shale, green to greenish gray, drab.

3625

ROTARY TOTAL DEPTH

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RECOMMENDATIONS:

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After drilling to a depth of 3625 (-1837) the Arbuckle dolomite had not been reached, so it was decided to suspend drilling at this point.

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It is recommended that the Simpson sand be perforated from 3577 to 3580, and treated as necessary to facilitate production.

After depletion of the above sand, the Simpson sand at 3550 should be perforated from 3550-3552 and evaluated for possible production.

Drill Stem test No. 3 covered the lower portion of the Viola, which exhibits some very high porosity readings on the log. It is possible that some of the fluid recovery from DST No. 3 came from the Viola, but I consider this highly unlikely. Nothing on the test charts indicates fluid flow from more than one zone; the oil is too high gravity to be Viola oil; even though the oil is black, contrary to some observations, Simpson oil is black in much of Kansas, as opposed to the green or straw colored oil found further South. The Viola has a history of being non-permeable in this area. If the Viola is perforated, treatment would be effective only if the Viola will give up at least a few gallons of fluid per hour; otherwise, acid or fracture treatment has not normally resulted in commercial production from the Viola in this area.

Prior to abandonment of this well, the following Lansing-Kansas City zones should be perforated and evaluated for production with acid treatment:

F zone	Perforate 3295-3302
E zone	Perforate 3287-3289
D zone	Perforate <del>3276-3279</del> & 3266-3269

Respectfully submitted



Robert C. Lewellyn  
Petroleum Geologist

RCL:cd

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