

SIDE ONE

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

Operator: License # 08887
Name Kachina Oil Co., Inc.
Address 200 W. Douglas Suite 510
City/State/Zip Wichita, Kansas 67202

Purchaser N/A

Operator Contact Person Chas. W. Sanders
Phone 316-262-2531

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

Wellsite Geologist Marvin Douglass
Phone 316-262-2742

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

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

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
01-12-88 01-22-88
Spud Date Date Reached TD Completion Date
4716'
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 267 feet
Multiple Stage Cementing Collar Used? Yes No
If yes, show depth set feet
If alternate 2 completion, cement circulated from feet depth to w/ SX cmt
Cement Company Name
Invoice #

API NO. 15-151-21,871 0000
County Pratt
C NW SW 32 29S 12W East
..... Sec..... Twp..... Rge..... X West

* 1980
420-500 Ft North from Southeast Corner of Section
..... Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

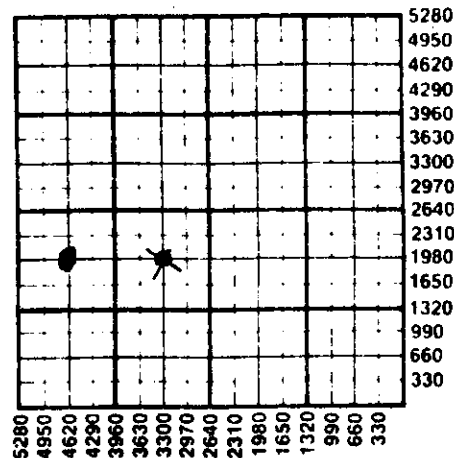
Lease Name Brubaker Well # 1

Field Name WC

Producing Formation Mississippian/Viola

Elevation: Ground 1850' KB 1858'

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-88-30

Groundwater 1980 Ft North from Southeast Corner
(Well) 3300 Ft West from Southeast Corner of
Sec 32 Twp 29 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. #)

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-111 form with all temporarily abandoned wells.

STATE CORPORATION COMMISSION
JUL 29 1988
CONSERVATION DIVISION
Wichita, Kansas
RWB
07-29-88

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 (Chas. W. Sanders)
Title President Date 07/28/88

Subscribed and sworn to before me this 28th day of July
Notary Public Otis H. Collingwood
Date Commission Expires November 30, 1988

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)
7-29-88

SIDE TWO

Operator Name Kachina Oil Co., Inc. Lease Name Brubaker Well # 1

Sec. 32 Twp. 29 So. 80 Rge. 12 W. East West County Pratt

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

Formation Description
 Log Sample

Name Top Bottom

(See attachment)

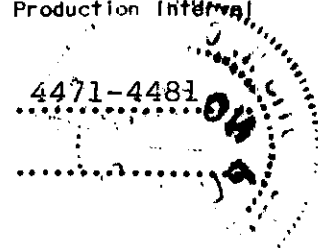
(See attachment)

CASING RECORD <input type="checkbox"/> New <input 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# new	266'	60/40 poz	=175	2% gel, 3% c.c.
Production..		5 1/2	used	4711'	surfill	200	20bbl mud flush
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			Amount and Kind of Material Used			Depth
2 shots/ft.	4620'-4624'			500 gallons of 15% Demud			
4 shots/ft.	4475'-4481'			500 gallons of 15% Demud			
4 shots/ft.	4471'-4475'			750 gallons of 22% N.E.			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size		Set At	Packer at				
2-7/8"		8rd	4496' 4432'				
Date of First Production	Producing Method						
Shut-in	<input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input checked="" type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....						
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity		
	60BOPD	800mcf					
	Bbls	MCF	Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify)
 Used on Lease
 Shut-in Dually Completed Conningled



DRILL STEM TESTSFORMATION DESCRIPTION

DST#1: 2748-2803/60"
 Times 30/30/30/45
 Strong Blow in 3 mins. on Initial Open
 2nd Open good blow (2/3rds in bucket) to
 Strong Blow (off bottom of bucket)
 No gas to surface.
 Rec. 90' water cut mud & 300'
 gas cut water (chlorids 70,000 PPM)
 IFP: 89-112# (30")
 FFP: 168-168# (30")
 ISIP: 836# (30")
 FSIP: 869# (45")
 BHT: 98 °
 HP: 1389-1367#

DST#2: 4280-4332/90"
 Marmaton & Mississippian (52' Anchor)
 Times 30/30/60/60
 Gas to surface in 15 mins. on Initial Open
 GA: 24,500 CFGPD (20")
 GA: 28,000 CFGPD (30")
 GA: 30,700 CFGPD 10 mins. 2nd open
 GA: 28,000 CFGPD (20")
 GA: 28,000 CFGPD (30")
 GA: 24,500 CFGPD (40")
 GA: 22,800 CFGPD (50")
 GA: 22,800 CFGPD (60")
 Rec. 510' Fluid: 480' clean gassy oil
 (35 ° Grav. @ 40° Corrected 30' HGC muddy
 oil (55 % Gas, 25% Oil, 20% Mud)
 IFP: 89-67# (30")
 FFP: 112-134# (60")
 ISIP: 1444# (30")
 FSIP: 1444# (60")
 HP: 2147-2114#
 BHT: 123 °

DST#3: 4460-4467/90"
 Viola
 Time, 30/30/60/60
 Gas to surface in 2 mins.-1st open
 GA: 687,000 CFGPD in 10 mins.-1st open
 GA: 725,000 CFGPD in 20 mins.-1st open
 773,000 CFGPD in 10 mins., 20", 30", 40", 50" & 60"

DST#4 4468-4490/90" (2nd Test in Viola)
 Times 30/30/60/60
 1st Open: Strong blow off bottom of bucket 5 mins.
 but wouldn't maintain blow w/2" line open
 blow continued after shut in for Initial BHP
 (No gas to surface during 1st open)
 2nd Open: Strong blow gas to surface 55 mins. into
 2nd open TSTM (est. 1000 CFGPD)
 (Rich smell to gas & gas will burn)
 Rec. 50' Gas Cut Mud
 IFP: 112-112# (30")
 FFP: 112-112# (60")
 ISIP: 1168# (30")
 FSIP: 1444# (60")
 HP: 2226-2226#
 BHT: 128 °

Chase (Herington-Krider): 2014(-156)
 Indian Cave Sand: 2786(-928)
 Wabaunsee: 2822(-964)
 Tarkio: 3029(-1171)
 Toronto: 3717(-1859)
 BrownLime: 3857(-1999)
 Lansing: 3870(-2012)
 Marmaton: 4274(-2416)
 Mississippian: 4337(-2479)
 Viola: 4459(-2601)
 Simpson Sand: 4577(-2719)
 Simpson Sand: 4609(-2751)
 Arbuckle: 4690(-2832)

DST#5: 4574-4585/90" (11' Anchor)
 Time 30/30/60/60
 Strong Blow in 7 mins.
 on Initial Open, Strong
 Blow on final Open-would
 not maintain 2" Line
 Rec. 960' Water 68,000 PPM
 Chlorids
 IFP: 89-168# (30")
 FFP: 257-426# (60")
 ISIP: 1168# (30")
 FSIP: 1168# (60")
 HP: 2226-2170#
 BHT: 140 °

STATE CORPORATION COMMISSION

JUL 29 1988

CONSERVATION DIVISION
Wichita, Kansas

DRILLER'S WELL LOG

DATE COMMENCED: January 12, 1988
DATE COMPLETED: January 23, 1988

KACHINA OIL COMPANY, INC.
Brubaker #1
C NW SE
Sec. 32-T29S-R12W
Pratt County, KS

ELEVATION: 1858 K.B.

0 - 3319' Surface Soil, Sand, Shale
3319 - 3699' Lime
3699 - 3704' Shale
3704 - 3873' Lime, Shale
3873 - 4255' Lime
4255 - 4313' Shale, Lime
4313 - 4338' Lime, Chert, Shale
4338 - 4381' Chert, Lime
4381 - 4575' Chert, Lime
4575 - 4577' Shale
4577 - 4690' Sand, Lime
4690 - 4716' Dolomite
4716' RTD

Formation Data:

Topeka 3319'
Heebner 3699'
Toronto 3717'
Douglas 3733'
Br. Lime 3857'
Lansing 3873'
Base K.C. 4255'
Marmaton 4273'
Conglomerate 4313'
Mississippi 4338'
Kinder. 4381'
Viola 4459'
Simpson Shale 4575'
Simpson Sand 4577'
Arbuckle 4690'
RTD 4716'

Surface Pipe: Set new 8-5/8" 20#
at 266' with 175 sacks 60/40 pozmix,
2% gel, 3% c.c.

Production Pipe: Set 5 1/2" used
casing at 4711' with 200 sacks Surefill
and 20 bbls mud flush

AFFIDAVIT

STATE OF KANSAS
COUNTY OF BARTON) ss

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

John Armbruster
John Armbruster

SUBSCRIBED AND SWORN to before me this 30 day of January, 1988.

STATE CORPORATION COMMISSION

JUL 29 1988

CONSERVATION DIVISION
Wichita, Kansas



Dorothy M Hague
Notary Public