

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 # 9783
Name Santa Fe Minerals, Inc.
Address Two Galleria Tower
13455 Noel Rd., Suite 1100
City/State/Zip Dallas, TX 75240

Purchaser Oklahoma Gas Pipeline Co.

Operator Contact Person Jim LaFevers
Phone (214) 701-7588

Contractor: License # 05382
Name Cheyenne Drilling Co.

Wellsite Geologist Hershel Hinkle
Phone (918) 561-7215

Designate Type of Completion

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

If OMWO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:

☒ Mud Rotary ☐ Air Rotary ☐ Cable

7-15-87 7-19-87 8-14-87
Spud Date Date Reached TD Completion Date
3,050' 3,008'
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 583 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

SIDE ONE

API NO. 15-175-20957

County Seward

NE Sec. 5 Twp. 32 S Rge. 34 ☐ East ☒ West

3,970 Ft North from Southeast Corner of Section
1,415 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

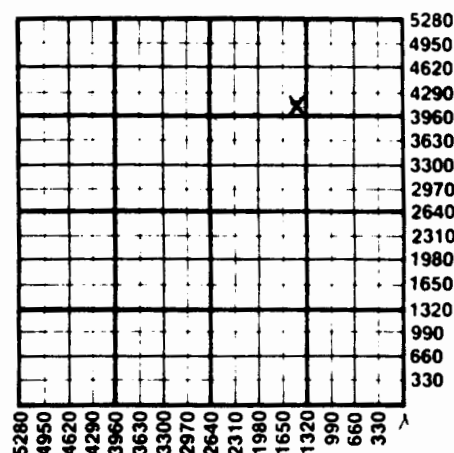
Lease Name B. F. Jerman Well # 1-A

Field Name Hugoton

Producing Formation Chase

Elevation: Ground 2,820 KB 2,829

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: ☒ Disposal ☐ Repressuring
Docket #

Questions on this portion of the ACO-1 call:

Water Resources Board (913) 296-3717

Source of Water:

Division of Water Resources Permit #

☐ Groundwater.....Ft North from Southeast Corner
(Well)Ft West from Southeast Corner of
Sec Twp Rge ☐ East ☐ West

☐ Surface Water.....Ft North from Southeast Corner
(Stream, pond etc).....Ft West from Southeast Corner
Sec Twp Rge ☐ East ☐ West

☒ Other (explain) Hauled in
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 apply.

Information on side two of this form will be held confidential for a period of 12 months if requested and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months.

Copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all wells. Submit CP-111 form with all temporarily abandoned wells.

SIDE TWO

Operator Name Santa Fe Minerals, Inc. Lease Name B. F. Jerman Well # 1-A

Sec. 5	Twp. 32 S	Roe. 34	☐ East ☒ West	County Seward
Estimated Production Per 24 Hours	Oil 0 Bbls	Gas 176 MCF	Water 28 Bbls	Gas-Oil Ratio 0 CFPB
				Gravity N/A

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented ☐ Open Hole ☒ Perforation
☒ Sold ☐ Other (Specify) 2,502'-2,634'

Drill Stem Tests Taken ☐ Yes ☒ No
 Samples Sent to Geological Survey ☒ Yes ☐ No
 Cores Taken ☐ Yes ☒ No

Formation Description

☒ Log ☐ Sample

Name	Top	Bottom
Blaine Gypsum	982'	
Glorietta	1,123'	
Base Glorietta	1,278'	
Tubb (Stone Corral)	1,624'	
Red Cave	1,686'	
Wellington	2,157'	
Hollenberg	2,451'	
Chase	2,495'	
Herington	2,502'	
Upper Krider	2,528'	
Lower Krider	2,559'	
Odell	2,594'	
Winfield	2,606'	
Cage	2,635'	
Towanda	2,648'	
Holmesville	2,703'	
Fort Riley	2,707'	
Oketa	2,762'	

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#	583'	Light "C"	200	2% CaCl
					Class "C"	100	2% CaCl
Production	7-7/8	5-1/2	15.5#	3,050'	Light "C"	280	2% CaCl
					Thickset	230	5% KCL

PERFORATION RECORD

Shots Per Foot | Specify Footage of Each Interval Perforated

2	Herington	2516'-2502'
2	U. Krider	2546'-2534'
1	L. Krider	2592'-2553'
2	Winfield	2634'-2606'

Acid, Fracture, Shot, Cement Squeeze Record

(Amount and Kind of Material Used) | Depth

2250 gals. 15% HCL acid	2516-2502
7700 gals. 15% HCL acid	2546-2534
(used for both U. & L. Krider)	2592-2553
4200 gals. 15% HCL acid	2634-2606

TUBING RECORD Size 2-3/8" Set At 2689' Packer at NONE

Liner Run ☐ Yes ☒ No

Date of First Production | Producing Method

8-14-87

☐ Flowing ☒ Pumping ☐ Gas Lift ☐ Other (explain)...

5-32-34W

DRILLERS LOG

SANTA FE MINERALS
JERMAN #1A
SECTION 5-32S-34W
SEWARD COUNTY, KANSAS

COMMENCED: 7-15-87
COMPLETED: 7-18-87

SURFACE CASING: 583' OF 8 5/8"
CMTD. W/300 SX PREM PLUS 2% C.C.
1/4# FLOCEL, TAILED IN W/100
SX C, 2% C.C., 1/4# FLOCEL

FORMATION	DEPTH
CONDUCTOR CASING	0- 60
SURFACE HOLE	60- 583
RED BED	583-1653
SHALE	1653-1990
SHALE & ANHYDRITE	1990-2440
LIME & SHALE	2440-2770
SHALE	2770-3050 RTD

KANSAS GEOLOGICAL SURVEY
WICHITA BRANCH

AUG 03 1987

I DO HEREBY CERTIFY THAT THE FOREGOING STATEMENTS ARE TRUE AND CORRECT
TO THE BEST OF MY KNOWLEDGE AND BELIEF.

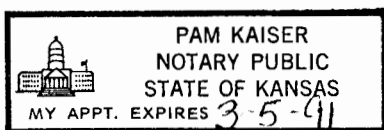
CHEYENNE DRILLING, INC.

A. J. Jacques

A. J. JACQUES

STATE OF KANSAS :ss:

SUBSCRIBED AND SWORN TO BEFORE ME THIS 28TH DAY OF JULY, 1987.



Pam Kaiser

PAM KAISER, NOTARY PUBLIC

JUL 31 1987