

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 # 7185
name Luff Exploration Company
address 1580 Lincoln Street
Suite 850
City/State/Zip Denver, Colorado 80203

Operator Contact Person R. A. Ferris
Phone (303) 861-2468

Contractor: license # 5929
name Duke Drilling company

Wellsite Geologist Greg Magruder
Phone (303) 861-2468

Designate Type of Completion

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

OWWO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method: Mud Rotary Air Rotary Cable
1/23/89 2/1/89 2-1-89
Spud Date Date Reached TD Completion Date

4548' Surface
Total Depth PBSD

Amount of Surface Pipe Set and Cemented at 8-5/8" @ 311 feet

Multiple Stage Cementing Collar Used? Yes No

If Yes, Show Depth Set feet

alternate 2 completion, cement circulated
from feet depth to w/ SX cmt

OTD OFD

API NO. 15 - 135-23,314-6000

County Ness

N/2 SW SE Sec 33 Twp 16S Rge 23W East West

1250 Ft North from Southeast Corner of Section
1900 Ft West from Southeast Corner of Section
(Note: locate well in section plat below)

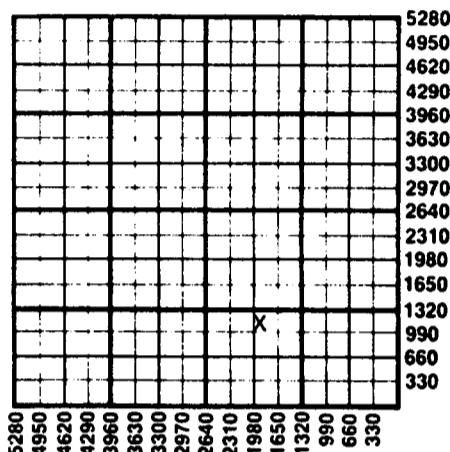
Lease Name Sargent Well# 0-30

Field Name

Producing Formation

Elevation: Ground 2466' KB 2473'

Section Plat



WATER SUPPLY INFORMATION

Source of Water:
Division of Water Resources Permit #

Groundwater Ft North From Southeast Corner and
(Well) Ft. West From Southeast Corner of
Sec Twp Rge East West

Surface Water Ft North From Southeast Corner and
(Stream, Pond etc.) Ft West From Southeast Corner
Sec Twp Rge East West

Other (explain) Recycled Water Plant
(purchased from city, R.W.D.#)

Disposition of Produced Water: Disposal Repressuring

Docket #

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. Rules 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 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 Richard A. Ferris

Title Operations Engineering Supervisor Date 2/17/89

Subscribed and sworn to before me this 17th day of February 19 89

Notary Public Sally J. Srook
Notary Commission Expires 4/8/91

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)
2-21-89

Form ACO-1
(This form supercedes
previous forms
ACO-1 & C-10)

Sec. 33 Twp. 16 Rge. 23W

Operator Name Luff Exploration Company Lease Name Sargent Well# 0-30 SEC. 33 TWP. 16S RGE. 23 East West

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

DST #1 - 4369'-4416' Times 20-60-20-60
 Recovery: 2' Mud
 Pressures: IHP 2224 FFP 22-22
 IFP 22-22 FSIP 33
 ISIP 33 FHP 2191
 BHT 120° F

DST #2 - 4489'-4518' Times 30-60-60-120
 Recovery: 200' Muddy Water
 Pressures: IHP 2286 FH 2145
 IFP 54-64 FFP 80-108
 ISIP 1323 FSI 1323
 BHT 122° F

DST #3 - 4469'-4495' Times 15-60-30-60
 Recovery: 2' Mud with oil spots
 Pressures: IHP 2264 FFP 21-21
 IFP 21-21 FSIP 54
 ISIP 75 FHP 2253
 BHT 122° F

Name	Top	Bottom
Stone Corral	1808'	1839'
Heebner	3866'	3898'
Lansing	3899'	4189'
Base Kansas City	4190'	4199'
Marmaton	4200'	4292'
Pawnee	4293'	4385'
Fort Scott	4386'	4405'
Cherokee	4406'	4480'
Cherokee Sand	4481'	4505'
Mississippian	4506'	

CASING RECORD <input checked="" 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"	24#	311'	60/40 Poz	165	2% gel 3% co.
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
shots per foot	specify footage of each interval perforated			(amount and kind of material used)			Depth
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
Date of First Production	Producing method <input type="checkbox"/> flowing <input 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		
	Bbls	MCF	Bbls	CFPB			

Disposition of gas: vented sold used on lease

METHOD OF COMPLETION open hole perforation other (specify)

PRODUCTION INTERVAL Dually Completed. Commingled