

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

3-32s-80w SLIDE ONE

API NO. 15- 119-20,943

COPY *and*

County Meade

C - N/2 - SW - Sec. 3 Twp. 32S Rge. 30 X E V

1980 Feet from EN (circle one) Line of Section

1320 Feet from E/2 (circle one) Line of Section

Footages Calculated from Nearest Outside Section Corner:
NE, SE, NW or EN (circle one)

Lease Name Koehn Well # 1-3

Field Name Wildcat

Producing Formation None

Elevation: Ground 2758' KB 2770'

Total Depth 6150' PBTD _____

Amount of Surface Pipe Set and Cemented at 1599 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 cat.

Drilling Fluid Management Plan D&A JPK 5-10-96
(Data must be collected from the Reserve Pit)

Chloride content 2400 ppm Fluid volume 5,551 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite: _____

RELEASED

Operator Name _____

Lease Name MAY 14 1996 License No. _____

Quarter _____ Sec. _____ Twp. _____ Rng. _____ E/V

FROM CONFIDENTIAL
County _____ Docket No. _____

Operator: License # 04782

Name: Ensign Operating Co.

Address P. O. Box 2161

City/State/Zip Liberal, KS. 67905-2161

Purchaser: NA **CONFIDENTIAL**

Operator Contact Person: Reed Wacker

Phone (316) 626-8131

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Duane Moredock

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

_____ Oil _____ SWD _____ SIOW _____ Temp. Abd.

_____ Gas _____ ENHR _____ SIGW

X Dry _____ Other (Core, WSW, Expl., Cathodic, etc)

If Workover/Re-Entry: old well info as follows:

Operator: _____

Well Name: _____

Comp. Date _____ Old Total Depth _____

_____ Deepening _____ Re-perf. _____ Conv. to Inj/SWD

_____ Plug Back _____ PBTD

_____ Commingled _____ Docket No. _____

_____ Dual Completion _____ Docket No. _____

_____ Other (SWD or Inj?) _____ Docket No. _____

02-02-95 02-14-95 02-16-95
Spud Date Date Reached TD Completion Date

INSTRUCTIONS: An original and two copies of this form shall be filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 120 days of the spud date, recompletion, workover or conversion of a well. Rule 82-3-130, 82-3-106 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 geologist well report 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.

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 Reed Wacker

Title Production Supt. Date 03/09/95

Subscribed and sworn to before me this 9th day of March
19 95.

Notary Public William L. Waldorf

Date Commission Expires Sept. 19, 1998

NOTARY PUBLIC - State of Kansas
WILLIAM L. WALDORF
My Appt. Exp. 9/19/98

K.C.C. OFFICE USE ONLY		
F	<input checked="" type="checkbox"/>	Letter of Confidentiality Attached
C	<input checked="" type="checkbox"/>	Wireline Log Received
C	<input checked="" type="checkbox"/>	Geologist Report Received
Distribution		
<input checked="" type="checkbox"/>	KCC	SWD/Rep
<input checked="" type="checkbox"/>	KGS	Plug
		NGPA
		Other (Specify)

W0828-8

Operator Name Ensign Operating Co. Lease Name Koehn Well # 1-3

Sec. 3 Twp. 32S Rge. 30 East West
County Meade

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests showing interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static or 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
(Attach Additional Sheets.)
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No
(Submit Copy.)
List All E.Logs Run:
See attached

Log Formation (Top), Depth and Datum Sample
Name Top Datum
- SEE ATTACHED -
See attached

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#	1599'	Class H Class C	100 150	2% CC
					"C" Lite	550	2% CC, 1/4# X Fluorele

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth Top Bottom	Type of Cement	#Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated		Acid, Fracture, Shot, Cement Squeeze Record (Amount and Kind of Material Used)		Depth

TUBING RECORD

Size	Set At	Pecker At	Liner Run	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Date of First, Resumed Production, SVD or Inj. D & A Producing Method Flowing Pumping Gas Lift Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Grav

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACO-18.)

METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) D & A

Production Interval _____

CONFIDENTIAL

ORIGINAL

GENERAL WELL INFORMATION

Operator: Ensign Operating Co.

Well Name: No. 1-3 Koehn API No. 15-119-20 943

Prospect: Jaguar Prospect

Location: C N/2 SW Sec. 3, T32S, R30W, 1980' FSL, 1320' FWL

County: Meade

State: Kansas

Elevation: G.L. 2758' K.B. 2770'

Spudded: February 2, 1995 @ 9:45 A.M..

Completed Drilling: February 14, 1995 @ 7:10 P.M..

Total Depth: Driller 6150', Logger 6137'

Status: Plug and Abandon

Drill-Stem Tests: Drill-Stem Test No. 1 5562'-5703', Pennsylvanian Morrow. Open hole test.

30-60-60-120

I.O. Surface Blow, Steady throughout, no increase.
F.O. Surface Blow, Steady throughout, no increase.

Recovery: 15' Mud.

Hydrostatic Pressures 2592-2524 psi, Calc. MW 9.1 ppg
Flow Pressures 44-44:44-44 psi
Shut-in Pressures 100-89 psi
Bottom Hole Temperature NR

RELEASED
MAY 14 1996
FROM CONFIDENTIAL

Trilobite Testing Co., L.L.C., Shane McBride, Tester

Drill-Stem Test No. 2 5886'-5994' (Driller) 5872'-5980' (Logger),
Mississippian Ste. Genevieve. Straddle test after logging.

30-60-30-120

I.O. Surface Blow, Built to 1 1/4".

F.O. Bubbled when tool opened, no blow. Tool was plugging (bottom
choke or shut-in tool) during F.O. .

Recovery: 92' Mud.

Sampler: 4000 Ml Mud @ <25 psi

Hydrostatic Pressures 2883-2756 psi, Calc MW 9.3 ppg

Flow Pressures 86-107:269-269 psi

Shut-in Pressures 1594-1721 psi

Bottom Hole Temperature 124° F

Trilobite Testing Co., L.L.C., Shane McBride, Tester

Logging Program:

Run One

AIS/SP/GR 0' - 3276'

CNS/PDS/GR/Cal 1590' - 3249'

MLS/GR/Cal 1590' - 3249'

Run Two

AIS/SP/GR 0' - 6136'

CNS/PDS/GR/Cal 0' - 6110'

MLS/GR/Cal 1590' - 6110'

BCA/GR/Cal 1595' - 6093'

BPB Logging Co., Inc., Tim Hayes, Engineer.

Sample Program:

Ten foot samples from 2500' - 6150'. Samples were examined and
described at the well site. Samples were caught on depth intervals by rig
crews. Samples were lagged by geologist. All depths reported herein are
lagged depths.

Mud Logging:

Holmes Gas Detector Service, Unmanned Unit.

Mud Program:

Cimmeron Mud Co., Jim Reed, Engineer.

Lost Circulation:

None.

FORMATION TOPS

Ensign Operating Co.
 No. 1-3 Koehn
 C N/2 SW Sec. 3, T32S, R30W
 Meade County, Kansas

	G.L. 2758' K.B. 2770'	Comparison Well SWSW 28-31S-30W K.B. 2763'	Drill Time And Samples	Wire Line Logs
Tertiary		Surface +2755'	Surface +2758'	Surface +2758'
Cretaceous		514' +2249'	512' +2258'	504' +2266'
Permian				
Glaudalupian				
Taologra		583' +2180'	543' +2227'	530' +2240'
Day Creek		758' +2005'	755' +2015'	747' +2023'
Leonardian				
Nipewalla Gr.				
Blaine		988' +1775'	966' +1804'	962' +1808'
Cedar Hills		1128' +1635'	1153' +1617'	1156' +1614'
Sumner Gr.				
Stone Corral		1612' +1151'	1645' +1125'	1642' +1128'
Ninnescah		1700' +1063'	1728' +1042'	1744' +1026'
Wellington		1926' +837'	1985' +785'	1976' +794'
Hutchinson		2154' +609'	2215' +565'	2204' +566'
Wolfcampian				
Chase Gr.				
Herington		2624' +139'	2710' +60'	2700' +70'
Krider		2646' +117'	2741' +29'	2729' +41'
Winfield		2732' +31'	2826' -56'	2812' -42'
Towanda		2770' -7'	2869' -99'	2858' -88'
Fort Riley		2842' -79'	2946' -176'	2934' -164'
Wreford		2942' -179'	3044' -274'	3034' -264'
Council Grove Gr.		3038' -275'	3146' -376'	3133' -363'
Neva		3189' -426'	3302' -532'	3291' -521'
Pennsylvanian				
Virgilian				
Wabaunsee Gr.		3538' -775'	3676' -906'	3661' -891'
Shawnee Gr.				
Topeka		3854' -1091'	3928' -1158'	3916' -1146'

G.L. 2758' K.B. 2770'	Comparison Well SWSW 28-31S-30W K.B. 2763'	Drill Time And Samples	Wire Line Logs
Douglas Gr.			
Heebner	4265' -1502'	4367' -1597'	4356' -1586'
Toronto	4286' -1523'	4388' -1618'	4376' -1606'
Missourian			
Lansing Gr.	4378' -1615'	4492' -1722'	4475' -1705'
Kansas City Gr.	4604' -1841'	4711' -1941'	4702' -1932'
Swope	4812' -2049'	4923' -2153'	4909' -2139'
Demoinesian			
Marmaton Gr.	4982' -2219'	5102' -2332'	5096' -2326'
Oswego	5095' -2332'	5219' -2449'	5208' -2438'
Cherokee Gr.	5145' -2382'	5278' -2508'	5264' -2494'
Atokaian	5270' -2507'	5416' -2646'	5392' -2622'
Morrowian	5426' -2663'	5572' -2802'	5566' -2796'
Chester	5470' -2707'	5594' -2824'	5586' -2816'
Terra Rossa	5618' -2855'	5778' -3008'	5766' -2996'
Mississippian			
Meramecian			
Ste. Genevieve	5674' -2911'	5856' -3086'	5847' -3077'
Total Depth	5970' -3207'	6150' -3380'	6137' -3367'