

ORIGINAL

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

API NO. 15- 077-21289 0000

County Harper County, Kansas

SE-NE-NE- Sec. 18 Twp. 31S Rge. 9 XX ^E _W

990 Feet from S (circle one) Line of Section

330 Feet from E (circle one) Line of Section

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

Lease Name COX Well # 1-18

Field Name Spivoy-Grabe

Producing Formation None

Elevation: Ground 1699 KB 1708

Total Depth 4575' PBDT

Amount of Surface Pipe Set and Cemented at 230 217 Feet

Multiple Stage Cementing Collar Used? XX Yes XX No

If yes, show depth set _____ Feet

If Alternate II completion, cement circulated from _____

feet depth to _____ w/ _____ sx cmt.

Drilling Fluid Management Plan D&A JH 12-26-95
(Data must be collected from the Reserve Pit)

Chloride content 58,000 ppm Fluid volume 1360 bbls

Dewatering method used Evaporation

Location of fluid disposal if hauled offsite:

Operator Name _____

Lease Name _____ License No. _____

Quarter _____ Sec. _____ Twp. _____ S Rng. _____ E/W

County _____ Docket No. _____

Operator: License # 31532

Name: Bison Production Company

Address 9320 East Central

City/State/Zip Wichita, Kansas 67206

Purchaser: N/A

Operator Contact Person: C.J. Lett

Phone (316) 636-1801

Contractor: Name: Duke Drilling Co., Inc.

License: 5929

Wellsite Geologist: Dean Pattison

Designate Type of Completion
 New Well Re-Entry Workover

Oil SWD S10W Temp. Abd.
 Gas ENHR SIGW
 Dry Other (Core, MSW, 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 PBDT
 Commingled Docket No. _____
 Dual Completion Docket No. _____
 Other (SWD or Inj?) Docket No. _____

04-21-95 04-28-95 04-29-95
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 _____

Title Vice President, Production Date 5-26-95

Subscribed and sworn to before me this 26th day of May 19 95.

Notary Public Sondra J. Boyd

Date Commission Expires May 13, 1999

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Geologist Report Received
Distribution
 KCC SWD/Rep NGPA
 KGS Plug Other
(Specify)
MAY 30 1995
COMMISSION

SONDRA J. BOYD
Notary Public - State of Kansas
My Appt. Expires 5-13-99

ORIGINAL
Operator Name Bison Production Company

SIDE TWO
Lease Name Cox Well # 1-18
County Harper County, Kansas

Sec. 18 Twp. 31S Rge. 9
 East
 West

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
(Attach Additional Sheets.)
Samples Sent to Geological Survey Yes No
Cores Taken Yes No
Electric Log Run Yes No
(Submit Copy.)

Log Formation (Top), Depth and Datums Sample
Name Top Datum

See Attached

List All E.Logs Run:
DIL/CNL/CDE/CAL

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 $\frac{1}{2}$	8-5/8"	20#	217'	60/40 Poz	160	3%cc 2%gel

ADDITIONAL CEMENTING/SQUEEZE RECORD

Purpose:	Depth		Type of Cement	#Sacks Used	Type and Percent Additives
	Top	Bottom			
<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	Acid, Fracture, Shot, Cement Squeeze Record
	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used) Depth

TUBING RECORD Size Set At Packer At Liner Run Yes No

Date of First, Resumed Production, SWD or Inj. D&A Producing Method Flowing Pumping Gas Lift Other (Explain)
Estimated Production Per 24 Hours Oil N/A Bbls. Gas N/A Mcf Water N/A Bbls. Gas-Oil Ratio Gravity

Disposition of Gas: Vented Sold Used on Lease (If vented, submit ACD-18.)
METHOD OF COMPLETION: Open Hole Perf. Dually Comp. Commingled Other (Specify) _____
Production Interval _____

ORIGINAL

COX #1-18

API #15-077-21289

DRILL STEM TESTS				
No.	Test Interval-	Tool Intervals-	Formation Pressures-	Recovery-
1	4430- 4489 Formation:	IFP- 30" ISIP- 60" FFP- 15" FSIP- 60"	IHP- IFP- Not Valid, ISIP- Mis-Run FFP- FSIP- FHP-	IFP: Weak, dead in 28" FFP: Dead
	Miss.		Temp- 113 °F 30' DM; GSO in tool	
2	4477- 4489 Formation:	IFP- 25" ISIP- 30" FFP- 60" FSIP- 90"	IHP- 2273# IFP- not valid ISIP- not valid FFP- 74-50# FSIP- 1456# FHP- 2214#	IFP: Weak, dead in 23" FFP: Weak, dead in 15" flushed tool, fair, building.
	Miss.		Temp- 113 °F 225' GIP 40' TM w/SSO	
3	4477- 4505 Formation:	IFP- 30" ISIP- 60" FFP- 60" FSIP- 120"	IHP- 2221# IFP- 62-41# ISIP- 1497# FFP- 73-61# FSIP- 1550# FHP- 2224#	IFP: Fair, building FFP: Weak, building
	Miss.		Temp- 117 °F 250' GIP 40' WM w/SSO 60' MW w/SSO	

RECEIVED
STATE COMMISSION

MAY 3 1995

COMMISSIONER
MICHIGAN DEPARTMENT OF
NATURAL RESOURCES

ORIGINAL

COX 1-18
API #15-077-21289

FORMATION	SAMPLE TOP	ELECTRIC LOG TOP	SUB-SEA DATUM
Topeka LS	3169	3168	-1460
Heebner Sh.	3566	3566	-1858
Douglas Gp.	3609	3610	-1902
Lansing Gp.	3776	3776	-2068
Kansas City Gp.	n/c	4014	-2306
Stark Sh.	4184	4186	-2478
Hushpuckney Sh.	4215	4214	-2506
Base KC Gp.	4270	4282	-2574
Marmaton LS.	n/c	4303	-2595
Altamont LS.	4334	4332	-2624
Bandera Sh.	4361	4360	-2652
Labette Sh.	4391	4394	-2686
Cherokee Gp.	4415	4414	-2706
Mississippi Osage	4475	4478	-2770

RECEIVED
STATE COMMISSION

MAY 3 1995

CONVICTED
MONTA: 11/19/95



well
#4
Cox 1-18

CEMENTING LOG

STAGE NO.

ORIGINAL

Date 4-29-95 District Med Lodge Ticket No. 1327
 Company Bison Energy Rig DW 25
 Lease Cox Well No. 1-18
 County Harper State KS
 Location BA/AP Coline Ridge DD Field 18-315-9w
1E-1/4S

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size _____ Type _____ Weight _____ Collar _____

Casing Depths: Top _____ Bottom _____

Drill Pipe Size 4 1/2 Weight 16.60 Collars X Hole
 Open Hole Size 7 7/8 T.D. _____ ft. P.B. to _____ ft.

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. 0.637 Lin. ft./Bbl. 15.70
 Open Holes: Bbls/Lin. ft. 0.602 Lin. ft./Bbl. 16.5993
 Drill Pipe: Bbls/Lin. ft. 0.142 Lin. ft./Bbl. 70.32
 Annulus: Bbls/Lin. ft. 0.440 Lin. ft./Bbl. 22.72
 Bbls/Lin. ft. 0.106 Lin. ft./Bbl. 24.6474
 Perforations: From _____ ft. to _____ ft. Amt. _____

CEMENT DATA:

Spacer Type: _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

LEAD: Pump Time _____ hrs. Type _____
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

TAIL: Pump Time _____ hrs. Type 60/40/40/60
 Amt. _____ Skys Yield _____ ft³/sk Density _____ PPG

WATER: Lead 6.7 gals/sk Tail _____ gals/sk Total 24 Bbls

Pump Trucks Used 237 Justin H.

Bulk Equip. 227 Tim S.

Float Equip: Manufacturer _____
 Shoe: Type _____ Depth _____
 Float: Type _____ Depth _____
 Centralizers: Quantity _____ Plugs: Top _____ Btm _____
 Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type mud Amt. _____ Bbls. Weight 9.2 PPG
 Mud Type Chemical Weight 9.2 PPG

COMPANY REPRESENTATIVE Joe Hampton

CEMENTER Larry A. Duesling

TIME	PRESSURES PSI.		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
11:00	300		8 1/2	2	5	Pipe set @ 1525' Start Fresh H ₂ O
11:02	250		9	2	5	H ₂ O In start Cement, Cement
11:04	150		9 1/6	2	5	In. Start mud, mud In
11:31	150		8 1/2	2	5	Pipe set @ 1050' Fresh H ₂ O
11:33	150		9	2	5	Start Cement
11:35	100		3	2	5	Start H ₂ O
11:40	100		9	2	5	Mud In
12:13	75		9	2	5	Pipe set @ 580' Fresh H ₂ O
12:15	75		9	2	5	Start Cement
12:20	50		13/4	2	3	Start mud
12:30	50		4	1	4	Pipe set @ 60' Start Cement
12:32						Start Cement In
12:38	50		1 1/2	1	3	10 sks mouse hole
12:43	50		1 1/2	1	3	10 sks RAT hole

STATE OF KANSAS
 MAILED
 APR 29 1995
 CURTIS