

# COPY

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APR 09 1992

## CONFIDENTIAL

SIDE ONE

FROM CONFIDENTIAL

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

API NO. 15- 077-21,230-0000

County Harper

C SE SW Sec. 19 Twp. 31 Rge. 8 East  
 660 \_\_\_\_\_ West

\_\_\_\_\_ Ft. North from Southeast Corner of Section  
 3300 \_\_\_\_\_ Ft. West from Southeast Corner of Section  
 (NOTE: Locate well in section plat below.)

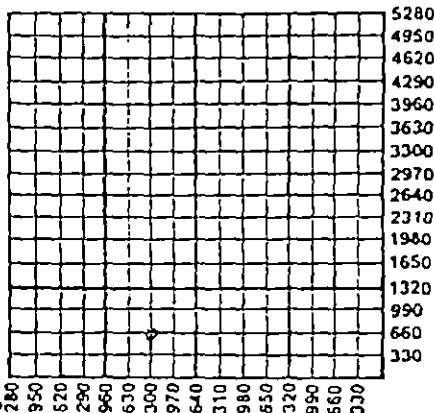
Lease Name Sanders Well # 2-19

Field Name Spivey-Grabs

Producing Formation Mississippi

Elevation: Ground 1569 KB 1578

Total Depth 4425 PBD \_\_\_\_\_



Operator: License # 6581

Name: Bison Energy Corp.

Address P.O. Box 782317

City/State/Zip Wichita, KS 67278

Purchaser: Koch Oil

Operator Contact Person: C. J. Lett, III

Phone (316) 689-8393

Contractor: Name: Lobo Drilling Company

License: 5864

Wellsite Geologist: Dean Pattisson

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

Gas  Inj  Delayed Comp.

Dry  Other (Core, Water Supply, etc.)

If OWN: old well info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:

Mud Rotary  Air Rotary  Cable

12-27-90 01-03-91 1-22-91

Spud Date Date Reached TD Completion Date

Amount of Surface Pipe Set and Cemented at 225 Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from \_\_\_\_\_

feet depth to \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

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. ALL CEMENTING TICKETS MUST BE ATTACHED. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells. Any recompletion, workover or conversion of a well requires filing of ACO-2 within 120 days from commencement date of such work.

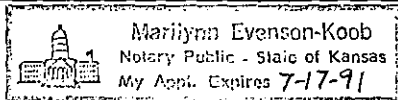
All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature: [Signature]  
 Title: C. J. Lett, III Date: 2-27-91  
President

Subscribed and sworn to before me this 27th day of February, 19 91.

Notary Public Marilynn Evenson-Koob

Date Commission Expires \_\_\_\_\_



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)

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SIDE TWO

Operator Name Bison Energy Corp. Lease Name Sanders Well # 2-19  
 Sec. 19 Twp. 31 Rge. 8  East  West  
 County Harper

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.)

Formation Description		
Name	Top	Bottom
Heebner Shale	3390	-1812
Toronto Limestone	3416	-1838
Douglas Group	3437	-1859
Haskell Limestone	3614	-2036
Kansas City Group	3879	-2301
Stark Shale	4046	-2468
Hushpuckney Shale	4076	-2498
Base KC Group	4150	-2572
Altamont Limestone	4195	-2657
Bandera Shale	4236	-2658

CASING RECORD <input checked="" type="checkbox"/> New <input checked="" 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#	225'	60/40poz	150	2%gel 3% cc.
Production	7-7/8"	5 1/2"		4419	Surfill	125	

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	4397'-4399'	250 gal. MCA	4416'
4	4385'-4389'	acid	4389'
		frac w/12,000 gal pad, 10,500 gal gel, 9000# 100 mesh, 7875# 20-40 mesh	

TUBING RECORD  
 Size 2 7/8" Set At 4215' Packer At \_\_\_\_\_  
 Liner Run  Yes  No

Date of First Production 2-14-91 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain) \_\_\_\_\_  
 Estimated Production Per 24 Hours  
 Oil 30 Bbls. Gas 360 Mcf Water 250 Bbls. Gas-Oil Ratio 8-1 Gravity \_\_\_\_\_

Disposition of Gas:  Vented  Sold  Used on Lease (If vented, submit ACO-18.)  
 METHOD OF COMPLETION:  Open Hole  Perforation  Dually Completed  Commingled  
 Other (Specify) \_\_\_\_\_

Production Interval \_\_\_\_\_

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Formation Description, cont'd

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Name	Top	Bottom
Pawnee Limestone	4242	-2664
Labette Shale	4267	-2689
Cherokee Group	4282	-2704
Mississippi Chert	4357	-2779

DST #1

Test Interval: 4360'-4370'  
 Formation: Mississippi (all pressures are office readings)  
 Tool Interval: 30-60-60-90  
 IHP: 2280#  
 IFP: 34-47#  
 ISIP: 919#  
 FFP: 80-96#  
 FSIP: 935#  
 FHP: 2140#

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STATE CORPORATION COMMISSION

MAR 13 1991

CONSERVATION DIVISION  
Wichita, Kansas

Preflow: Strong, off bottom immediately. GTS: 22" Ga: 23.1-21.3 mcf/d

Final flow: Strong, gas throughout. Ga: 18.1-17.4 mcf/d.

Recovery: 120' VSO&GCM  
120' VSO&GCMW

BHT: 119°F.

DST #2 (straddle packer)

Test Interval: 4370'-4394'  
 Formation: Mississippi  
 Tool Interval: 30-60-60-90  
 IHP: 2242#  
 IFP: 98-120#  
 ISP: 960#  
 FFP: 154-189#  
 FSIP: 990#  
 FHP: 2221#

Preflow: Strong, off bottom immediately. GTS: 16" Ga: 22.5-28.0 mcf/d

Final flow: Strong, gas throughout. Ga: 25.7-21.3 mcf/d.

Recovery: 40' VSO&GCM (1% G, 1% O, 98% M)  
 60' SO&GCM (3% G, 7% O, 90% M)  
 60' HO&GCM (18% G, 44% O, 28% M, 10% W)  
 60' HO&GC thin mud (25% G, 38% O, 15% M, 22% W)  
 60' VHO&GCWM (26% G, 45% O, 4% M, 25% W)  
 60' HO&GCWM (25% G, 20% O, 5% M, 50% W)  
 60' SO&GCMW (1% G, 8% O, 4% M, 87% W)  
 120' VSO&GCW (1% G, 1% O, 0% M, 98% W)