

ORIGINAL

RELEASED
CONFIDENTIAL
APR 09 1992

SIDE ONE

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

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 STATE COMMISSIONER

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

If OWMO: 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

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

County Harper FROM CONFIDENTIAL

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

660 Ft. North from Southeast Corner of Section

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

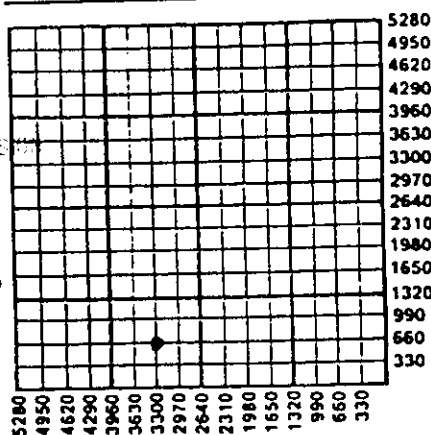
Lease Name Sanders Well # 2-19

Field Name Spivey-Grabs

Producing Formation Mississippi

Elevation: Ground 1569 KB 1578

Total Depth 4425 PBTD _____



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.

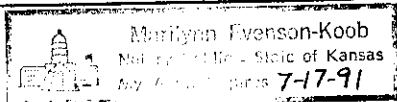
Signature C. J. Lett, III

Title President Date 2-27-91

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)

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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.)

Name	Formation Description	
	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 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"	20#	225'	60/40poz	150	2%gel 3% cc.
Production	7-7/8"	5 1/2"		4419	Surfill	125	

Shots Per Foot	PERFORATION RECORD Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record (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 _____

Bison Energy Corp.
#2-19 Sanders
ACO-1 Page Two

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Formation Description, cont'd

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#	

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#

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MAR 13 1991

3-13-91

STATE COMMISSION

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)



P.O. Box 4442
Houston, Texas 7

15-077-21238-0000

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ORIGINAL CEMENTING LOG

STAGE NO.

CONFIDENTIAL

Date 10-10-90 District MED LODGE Ticket No. 611089
 Company BISON ENERGY CORP. Rig LOD #1
 Lease SANDERS Well No. 1-19
 County HARPER State KANSAS
 Location ANICA 6N, 41S Field SPELBY-CRABS

CEMENT DATA: FROM CONFIDENTIAL
 Spacer Type: 300 GAL. Mud Sweep
 Amt. _____ Sks Yield _____ ft³/sk Density _____ PPG

CASING DATA: PTA Squeeze
 Surface Intermediate Production Liner
 Size 5 1/2" Type USE1 Weight 14# Collar ST-0

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

BURST = 3110#
COLLAPSE = 2630#

TAIL: Pump Time _____ hrs. Type SURE-FILL
(6-2-1) Excess _____
 Amt. 125 Sks Yield 1.33 ft³/sk Density 15.0 PPG
 WATER: Lead _____ gals/sk Tail 6.8 gals/sk Total 20 1/4 Bbls.

Casing Depths: Top _____ Bottom _____
3 3/8" BL - 205'
5 1/2" KB - 4419'

Pump Trucks Used 1492 CARRY DREILING
 Bulk Equip. 2903-6433 JOHN KELLEY

Drill Pipe: Size 4 1/2" Weight 16.6# Collars XH
 Open Hole: Size 7 1/8" T.D. 4420 ft. P.B. to _____ ft.

Float Equip: Manufacturer BAKER
 Shoe: Type CEMENT Depth 4419'
 Float: Type AFU INSERT Depth 4391'
 Centralizers: Quantity 5 Plugs Top RUBBER Btm. RUBBER

CAPACITY FACTORS:
 Casing: Bbls/Lin. ft. .0244 Lin. ft./Bbl. 40.93
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.59
 Drill Pipe: Bbls/Lin. ft. _____ Lin. ft./Bbl. _____
 Annulus: Bbls/Lin. ft. .0309 Lin. ft./Bbl. 32.4
 Bbls/Lin. ft. _____ Lin. ft./Bbl. _____

Stage Collars _____
 Special Equip. _____
 Disp. Fluid Type FRESH H₂O Amt. 104 Bbls Weight 8.34 PPG
 Mud Type CHEMICAL Weight 9.2 PPG

Perforations: From _____ ft. to _____ ft. Amt. _____

COMPANY REPRESENTATIVE C.J. LEH

CEMENTER KEVIN BRUNGALOT

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min.	
6:00						ON LOCATION, RIG UP TOBI SAFETY PROCEDURE
						STATE DEPARTMENT OF REVENUE PERMISSION 3-13-91 MAR 13 1991
11:00	250 400 — 300 1000 —		7	7	3 1/2 4 1/2	RUN 5 1/2" CASING TO TD, ROTATE CASING WHILE CIRCULATING RIG UP TO CEMENT PUMP START MUD SWEEP MUD SWEEP IN - STOP PUMP DROP BOTTOM PLUG START CEMENT INCREASE RATE CEMENT IN - STOP PUMPS CHANGE VALVES - FILL M TUBING CHANGE VALVES - RELEASE TOP PLUG
	175 200 200 300 300 300	23 29 103 115 116 126	1 1 69 7 1 10	1 1 69 7 1 10	4 1/2 6 6 6 6 6	START DISPLACEMENT INCREASE RATE MUD SWEEP TURNS SHOE CEMENT TURNS SHOE - SLOW RATE STOP ROTATING CASING GRADUAL PRESSURE INCREASE
11:30	1400	153	2	2	4	SLOW RATE BUMP PLUG

FINAL DISP. PRESS. 300 PSI BUMP PLUG TO 1400 PSI BLEEDBACK 1/4 BBLs

THANK YOU