

ORIGINAL

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

Designate Type of Completion

New Well  Re-Entry  Workover

Oil  SWD  Temp. Abd.

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

10-02-90 10-10-90 10-27-90

Spud Date Date Reached TD Completion Date

API NO. 15- 077-21,215-0000

County Harper

Approx. \_\_\_\_\_ East

C W/2 SE Sec. 19 Twp. 31 Rge. 8  West

1350 Ft. North from Southeast Corner of Section

1850 Ft. West from Southeast Corner of Section

(NOTE: Locate well in section plat below.)

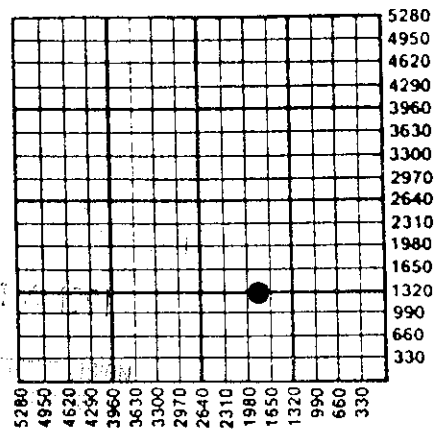
Lease Name Sanders Well # 1-19

Field Name Spivey-Grabs

Producing Formation Mississippi

Elevation: Ground 1611 KB 1620

Total Depth 4420 PBDT \_\_\_\_\_



Amount of Surface Pipe Set and Cemented at 205 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

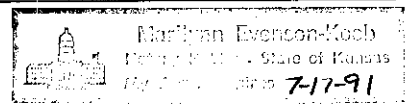
Title President Date 11-1-90

Subscribed and sworn to before me this 1st day of November, 19 90.

Notary Public Marilyn Evenson-Koob

Marilyn Evenson-Koob

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



**K.C.C. OFFICE USE ONLY**

Letter of Confidentiality Attached

Wireline Log Received

Drillers Time Log Received

**Distribution**

KCC  SWD/Rep  NGPA

KGS  Plug  Other (Specify)

**SIDE TWO**

Operator Name Bison Energy Corp. Lease Name Sanders Well # 1-19  
 Sec. 19 Twp. 31 Rge. 8  East  
 County Harper  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.)

Formation Description		
Name	Top	Bottom
Heebner Sh	3438	-1818
Toronto LS	3458	-1838
Douglas Gp	3478	-1858
Haskell LS	3653	-2033
Stalnaker Fm	3660	-2040
Lansing Gp	3675	-2055
Kansas City GP	3910	-2290
Stark Sh	4077	-2457
Hushpuckney Sh	4107	-2487
Base KC Group	4187	-2567

CASING RECORD <input 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 1/2"	8-5/8"	20#	205'	60/40poz	185	2% gel 3% cc.
Production	7-7/8"	5 1/4"	15#	4419'	Surfill	125	300gal Mud Sweep

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth
4	4414-4415'	unable to pump into perf	
4	4400'-4403'	10,250 gal. 10# gel, 11,000 gal. 35# gel, 10,500# 100 mesh, 20-40 mesh, 4000# 12/20 mesh	6,750#

TUBING RECORD	Size	Set At	Packer At	Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No
	2 7/8"	4380		

Date of First Production 10-31-90 Producing Method  Flowing  Pumping  Gas Lift  Other (Explain)

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
	6	150,000			

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.  
 Sanders #1-19  
 C W/2 SE, Sec. 19-319-8W  
 Harper County, Kansas  
 ACO-1 cont'd

LOG TOPS Cont'd

Pawnee LS	4276	-2656
LAbette Sh	4303	-2683
Cherokee Gp	4316	-2696
Mississippi Osage	4396	-2776

DST #1

Test Interval:	4400'-4410'
Formation:	Mississippian Osage
Tool Interval:	30-60-60-90
IHP:	2177#
IFP:	100-100#
ISIP:	1125#
FFP:	134-95#
FSIP:	1084#
FHP:	2148#

Preflow: Very strong off bottom of bucket immediately. GTS: 4". Ga: 197-311 mcf/d  
 Final flow: Strong, gas throughout. Ga: 368-278 mcf/d

Recovery: 150' DM

DST #2

Test Interval:	4410'-4420'
Formation:	Mississippian Osage
Tool Interval:	30-60-60-90
IHP:	2204#
IFP:	54-50#
ISIP:	958#
FFP:	71-93#
FSIP:	915#
FHP:	2188#

Preflow: Strong, off bottom in 30". GTS: 15", Ga: 17.2-25.1 mcf/d  
 Final flow: Strong. Gas throughout. Ga: 30.7-20 mcf/d

Recovery: 210' froggy oil. 15% g, 30% o, 15% m, 40%w  
 60' O&GCW 5% g, 10% o, 80% w

1-7-91



P.O. Box 4442  
Houston, Tx. 77212

15-077-21215-0000  
**ORIGINAL**

**SERVICES OPERATIONS CONTRACT**  
TERMS: NET 30 DAYS FROM DATE OF CONTRACT

REMIT TO: P.O. Box 100806, Houston, Tx. 77212

DATE 10-10-90		SERVICE CONTRACT NO. 611089	
CUSTOMER ACCOUNT NO.	DIST NAME WED. TONGUE W.	NEW WELL <input checked="" type="checkbox"/> OLD WELL <input type="checkbox"/>	WELL TYPE 0
CUSTOMER BITSON ENERGY CORP.	DIST NUMBER 3320	WELL NO. 1-19	LEASE NAME & FEDERAL OFFSHORE LEASE NO. SANDER
ADDRESS P.O. Box 732317	CITY WICHITA	STATE KANSAS	ZIP 67278
CITY WICHITA	STATE KANSAS	ZIP 67278	FIELD NAME SILVER - CHARLES
AUTHORIZED BY: C.J. LEA	ORDER NO.	WELL OWNER BITSON ENERGY CORP.	MTA CODE
STAGE NO.	JOB CODE 0106	WORKING DEPTH 4419	FT
TOTAL PREV. GALS.	1 SURFACE <input type="checkbox"/> 2 INTERMEDIATE <input type="checkbox"/> 3 PRODUCTION <input checked="" type="checkbox"/> 4 REMEDIAL <input type="checkbox"/>	PUMPING EQUIPMENT	TIME (A OR P)
TOTAL MEAS. DEPTH FT.	SIZE HOLE 7 7/8"	DEPTH 4420	FT
PACKER DEPTH	FLUID PUMPED	TRUCK CALLED	9:00 A
AVG PSI	MAX PSI 1400	ARRIVED AT JOB	6:00 P
MAX. BPM 7.4	CUSTOMER INSTRUCTIONS FOR DISPOSAL OF RETURNED CEMENT	START OPERATION	11:00 A
S/S EMPLOYEE NUMBER 666454		FINISH OPERATION	11:30 P
		TIME RELEASED	12:30 A
		MILES FROM STATION TO WELL	60
		SALESMAN NUMBER	

REMARKS

CONTRACT CONDITIONS: (This contract must be signed before the job is commenced or merchandise is delivered)  
The undersigned is authorized to execute this contract as an agent of the customer. As such, the undersigned agrees and acknowledges that this contract for services, materials, products, and/or supplies includes all of and only those terms and conditions appearing on the front and back of this document. No additional or substitute terms and/or conditions shall become a part of this contract without the written consent of an officer of BJ SERVICES.

PRICE BOOK	01	SIGNED: X [Signature]	(WELL OWNER, OPERATOR, CONTRACT OR AGENT)		
PRICE BOOK REF. NO.	QUANTITY	DESCRIPTION	UNIT PRICE	U/M	PRICE EXTENSION
1011003134	1	4,001' - 4,500' TUMP CHARGE	1200.00	E	1200.00
101109005	30	MILEAGE, ONE WAY	2.35	F	70.50
10410504	125	CLASS A	5.50	Q	687.50
104230210	705	A-10	.22	L	155.10
10415049	235	A-7P	.46	L	108.10
10420145	117	BJ GEL	1.13	L	15.21
104251010	300	REGULAR MUD SWEEP	1.45	Q	435.00
103210001	140	MIXING SERVICE	1.10	Q	154.00
109401011	192	DRYDRY 6.4 X 30	.75	E	144.00
104310529	1	5 1/2" TOP RUBBER PLUG	55.00	E	55.00
SERVICE REPRESENTATIVE	THE ABOVE MATERIAL AND SERVICE ORDERED BY CUSTOMER AND RECEIVED BY: X [Signature]				

✓ CHECK IF CONTINUATION IS USED (WELL OWNER, OPERATOR, CONTRACTOR OR AGENT)

CUSTOMER: This is not an invoice - This Service Operations Contract is subject to review and correction by our Accounting Department.



P.O. Box 4442  
Houston, Texas

15-077-2125-0000

# CEMENTING LOG

STAGE NO.

Date 10-10-90 District MED LOOSE Ticket No. 611089  
 Company BISON ENERGY CORP. Rig LOBO #1  
 Lease SANDERS Well No. 1-19  
 County HARPER State KANSAS  
 Location ATICA 6N, W5 Field SPICELY-CRABS

CEMENT DATA:  
 Spacer Type: 300 GAC. Mud Sweep  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

CASING DATA PTA  Squeeze   
 Surface  Intermediate  Production  Liner   
 Size 5 1/2" Type USFI Weight 14# Collar ST-6

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PPG

BURST = 3110#  
COLLAPSE = 2630#

TAIL: Pump Time \_\_\_\_\_ hrs. Type SURE-FILL  
 Amt. 125 Sks Yield 1.33 ft<sup>3</sup>/sk Density 15.0 PPG

Casing Depths: Top \_\_\_\_\_ Bottom \_\_\_\_\_  
3 7/8" BL - 205'  
5 1/2" KB - 4419'

WATER: Lead \_\_\_\_\_ gals/sk Tail 6.3 gals/sk Total 20 1/4 Bbls.

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

Pump Trucks Used 1492 CARRY DRETLING  
 Bulk Equip. 3903-6433 JOHN KELLEY

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. .0244 Lin. ft./Bbl. 40.98  
 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  
 Perforations: From \_\_\_\_\_ ft to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

Float Equip. Manufacturer BAKER  
 Shoe: Type CEMENT Depth 4419'  
 Float: Type AFU INSERT Depth 4331'  
 Centralizers: Quantity 5 Plugs Top RUBBER Btm. RUBBER  
 Stage Collars \_\_\_\_\_  
 Special Equip. \_\_\_\_\_  
 Disp. Fluid Type FRESH H<sub>2</sub>O Amt. 104 Bbls. Weight 8.34 PPG  
 Mud Type CHEMICAL Weight 9.2 PPG

COMPANY REPRESENTATIVE C. J. GRIFFIN

CEMENTER KEVIN BRUNOLOT

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
						RUN 5 1/2" CASING TO TD, ROTATE CASING WHILE CIRCULATING
11:00	250 400		7	7	3 1/2 4 1/2	RIG UP TO CEMENT PUMP START MUD SWEEP MUD SWEEP IN - STOP PUMP DROP BOTTOMAL PLUG
	300 1000				7 7 1/2	START CEMENT INCREASE RATE CEMENT IN - STOP PUMPS CHANGE VALVES - FLEM TUNING CHANGE VALVES - RELEASE TOP PLUG
	175 200 200 300 300		23 29 103 115 116	1 1 69 7 1	4 1/2 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		151 152	25 2	4	SLOW RATE PUMP PLUG

1-7-91

