

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

Operator: License # 5063  
Name: Energy Exploration, Inc.  
Address 1002 S. Broadway  
City/State/Zip Wichita, KS 67211  
Purchaser: N/A  
Operator Contact Person: Kenneth Dean  
Phone (316) -267-7336

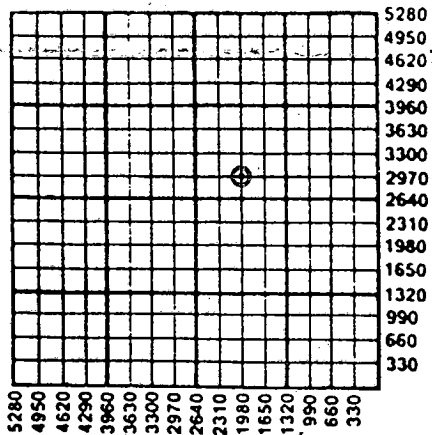
Contractor: Name: Emphasis Oil Operations  
License: 8241  
Wellsite Geologist: Ken Dean

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: N/A  
Operator: \_\_\_\_\_  
Well Name: \_\_\_\_\_  
Comp. Date \_\_\_\_\_ Old Total Depth \_\_\_\_\_

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
4/25/91 5/1/91 5-1-91  
Spud Date Date Reached TD Completion Date

API NO. 15- 179-21,001 4000  
County Sheridan  
S/2 SW NE Sec. 11 Twp. 10S Rge. 26  East  West  
2970 Ft. North from Southeast Corner of Section  
1980 Ft. West from Southeast Corner of Section  
(NOTE: Locate well in section plat below.)  
Lease Name W. E. Bittel Well # 1  
Field Name wildcat  
Producing Formation N/A  
Elevation: Ground 2542' KB 2547'  
Total Depth 4150' PBTD \_\_\_\_\_



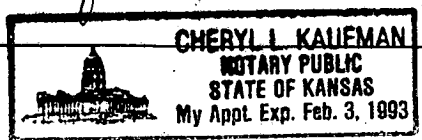
5280  
4950  
4620  
4290  
3960  
3630  
3300  
2970  
2640  
2310  
1980  
1650  
1320  
990  
660  
330  
A I- II D + D

Amount of Surface Pipe Set and Cemented at 208 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 mt.

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 2 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 Joseph D. Mace  
Title President Date 5-9-91  
Subscribed and sworn to before me this 9th day of May, 19 91.  
Notary Public Cheryl L. Kaufman  
Date Commission Expires 2-3-93



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)

PI

**SIDE TWO**

Operator Name Energy Exploration, Inc. Lease Name W. E. Bittel Well # 1  
 Sec. 11 Twp. 10S Rge. 26  East County Sheridan  
 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**  
 Log  Sample  
 Name Top Bottom

SEE ATTACHED SHEET

CASING RECORD <input checked="" 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 1/4"	8 5/8"	20#	208'	60/40 poz.	165	2% gel, 3% dc
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			Amount and Kind of Material Used			Depth
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input type="checkbox"/> No			
	Size	Set At	Packer At				
Date of First Production	Producing Method <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (Explain)						
Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	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 \_\_\_\_\_

KENTUCKY STATE DEPARTMENT OF REVENUE  
 SHERIDAN COUNTY  
 SHERIDAN, KY



PO. Box 4442, 15-179-21001-02-00  
Houston, Texas 77210

# CEMENTING LOG

STAGE NO. \_\_\_\_\_

Date 5-1-91 District Oak Hills Ticket No. 609857  
 Company Energy Corporation Rig Emphasis 6  
 Lease W.C.B. No. 1 Well No. 11  
 County Shannon State Ks  
 Location Quartz 3C 9N 12W Field \_\_\_\_\_

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 \_\_\_\_\_  
 Open Hole Size 7 7/8 T.D. 4150 ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Open Holes: Bbls/Lin. ft. .0602 Lin. ft./Bbl. 16.59  
 Drill Pipe: Bbls/Lin. ft. .01422 Lin. ft./Bbl. 70.32  
 Annulus: Bbls/Lin. ft. .0426 Lin. ft./Bbl. 24.64  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

CEMENT DATA  
 Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sk. Yield \_\_\_\_\_ ft<sup>3</sup>/sk. Density \_\_\_\_\_

LEAD: Pump Time \_\_\_\_\_ hrs. Type 60/140 pro  
6420 cc 390 cc Excess \_\_\_\_\_

Amt. 190 Sk. Yield 141 ft<sup>3</sup>/sk. Density 153.8

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Sk. Yield \_\_\_\_\_ ft<sup>3</sup>/sk. Density \_\_\_\_\_

WATER: Lead \_\_\_\_\_ gals/sk. Tail \_\_\_\_\_ gals/sk. Total \_\_\_\_\_

Pump Trucks Used A50 6459  
 Bulk Equip. B50 2552 B50 6457

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 \_\_\_\_\_  
 Mud Type \_\_\_\_\_ Weight \_\_\_\_\_

COMPANY REPRESENTATIVE \_\_\_\_\_

CEMENTER Ron McCullik

TIME	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls/Min	
4:30						Acc. to log
4:35						Start of cement
5:30 P						5' pump take
6:00 P						Pump 1st plug @ 4235 w/ 2500 lbs
6:45 P						Pump 2nd plug @ 1320 w/ 6000 lbs
7:30 P						Pump 3rd plug @ 270 w/ 4000 lbs
						Pump 40' R.H.
						190 w/ 60/140 pro @ 6420 cc
						390 cc @ 1320 w/ 6000 lbs
						To be completed @ 7:45 pm

STATE RECEIVED  
 CONSERVATION COMMISSION

MAY 24 1991

CONSERVATION DIVISION  
 Wichita, Kansas

# BJ-TITAN SERVICES

P.O. BOX 4442 HOUSTON, TX 77210

# CEMENTING LOG

ORIGINAL  
STAGE NO.

Date 4-24-91 District HAYC Ticket No. 627710  
 Company Energy Explorator Rig Emphasis  
 Lease Bittel Well No. \_\_\_\_\_  
 County Shepherd State KW  
 Location \_\_\_\_\_ Field \_\_\_\_\_

CASING DATA: PTA  Squeeze   
 Surface 7 Intermediate  Production  Liner   
 Size 8 1/2 Type 20 Weight \_\_\_\_\_ Collar \_\_\_\_\_

Casing Depths: Top \_\_\_\_\_ Bottom \_\_\_\_\_

Drill Pipe: Size 4 1/2 Weight \_\_\_\_\_ Collars \_\_\_\_\_  
 Open Hole: Size 12 1/4 T.D. \_\_\_\_\_ ft. P.B. to \_\_\_\_\_ ft.

CAPACITY FACTORS:  
 Casing: Bbls/Lin. ft. 0650 Lin. ft./Bbl. \_\_\_\_\_  
 Open Holes: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Drill Pipe: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Annulus: Bbls/Lin. ft. \_\_\_\_\_ Lin. ft./Bbl. \_\_\_\_\_  
 Perforations: From \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Amt. \_\_\_\_\_

### CEMENT DATA:

Spacer Type: \_\_\_\_\_  
 Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PP

LEAD: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
60/40 3-2 Excess \_\_\_\_\_

Amt. 165 Sks Yield 1.25 ft<sup>3</sup>/sk Density 14+ PP

TAIL: Pump Time \_\_\_\_\_ hrs. Type \_\_\_\_\_  
 Excess \_\_\_\_\_

Amt. \_\_\_\_\_ Sks Yield \_\_\_\_\_ ft<sup>3</sup>/sk Density \_\_\_\_\_ PP

WATER: Lead \_\_\_\_\_ gals/sk Tail \_\_\_\_\_ gals/sk Total \_\_\_\_\_ Bbl

Pump Trucks Used 10629 - Deep  
 Bulk Equip. 2030 - Carl

Float Equip: Manufacturer \_\_\_\_\_

Shoe: Type \_\_\_\_\_ Depth \_\_\_\_\_

Float: Type \_\_\_\_\_ Depth \_\_\_\_\_

Centralizers: Quantity \_\_\_\_\_ Plugs Top \_\_\_\_\_ Btm. \_\_\_\_\_

Stage Collars \_\_\_\_\_

Special Equip. \_\_\_\_\_

Disp. Fluid Type \_\_\_\_\_ Amt. \_\_\_\_\_ Bbls. Weight \_\_\_\_\_ PP

Mud Type \_\_\_\_\_ Weight \_\_\_\_\_ PP

COMPANY REPRESENTATIVE Jack Foy

CEMENTER Bill R. R. Kan

TIME AM/PM	PRESSURES PSI		FLUID PUMPED DATA			REMARKS
	DRILL PIPE CASING	ANNULUS	TOTAL FLUID	Pumped Per Time Period	RATE Bbls Min	
						Run 5 Jt 8 1/2"
						Pipe set at 209'
						Cement w/ 165 lbs 60/40
						por 3% CC 2% bet
						pump plug w/ 12.6 bbls water
						Cement did circulate
						Job Complete at 5:45P
RECEIVED STATE CORPORATION COMMISSION MAY 24 1991 CONSERVATION DIVISION Wichita, Kansas						

FINAL DISP. PRESS: \_\_\_\_\_ PSI BUMP PLUG TO \_\_\_\_\_ PSI BLEEDBACK \_\_\_\_\_ BBLs. THANK YOU

Form No. SR 0502 (Rev. 7/85)

Note: Must accompany job ticket.