

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

Operator: License # 4335
Name Terrol Energy, Inc.
Address 309 Hyland Drive
City/State/Zip Evergreen, CO 80439

Purchaser

Operator Contact Person Terry D. Enright
Phone 303 830-2755

Contractor: License # 8241
Name Emphasis Oil Operations

Wellsite Geologist Ron Nelson
Phone (913) 628-3449

Designate Type of Completion

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

If ONWO: old well info as follows:

Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:

X Mud Rotary Air Rotary Cable

3/4/86 3/15/86 4/10/86
Spud Date Date Reached TD Completion Date
5197 LTD 4675
Total Depth PBDT

Amount of Surface Pipe Set and Cemented at 347 feet
Multiple Stage Cementing Collar Used? X Yes No
If yes, show depth set 2651 feet
If alternate 2 completion, cement circulated from 2651 feet depth to surface 425 SX cmt
Cement Company Name BJ-Titan Services
Invoice # 281388

API NO. 15-193-20,397-00-00
County Thomas
N/2 SW SW Sec. 19 Twp 9 Rge 32 East West

990 Ft North from Southeast Corner of Section
4620 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

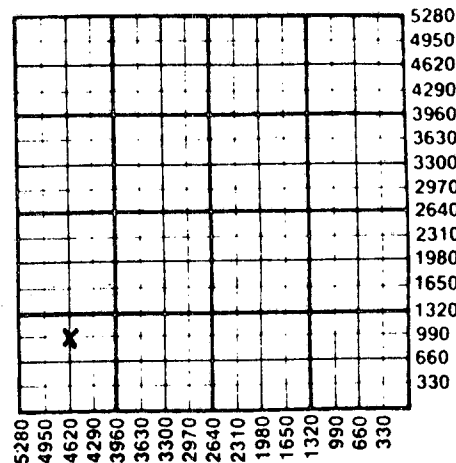
Lease Name Keller Well # 1-19

Field Name Mingo

Producing Formation Pawnee - Johnson - Cherokee

Elevation: Ground 3104 3109 KB

Section Plat



WATER SUPPLY INFORMATION N/A

Disposition of Produced Water: Disposal
Docket # Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #

Groundwater Ft North from Southeast Corner (Well) Ft West from Southeast Corner of Sec Twp Rge East West

X Surface Water 1240 Ft North from Southeast Corner (Stream, pond etc) 4620 Ft West from Southeast Corner Sec 19 Twp 9 Rge 32 East West

Other (explain) (purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 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 drillers time log shall be attached with this form. 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 Terry D. Enright
Title President Date 5/12/86

Subscribed and sworn to before me this 12th day of May 1986.
Notary Public Earl R. Larson

Date Commission Expires 2-22-90

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)

STATE CORPORATION COMMISSION

MAY 16 1986
05-16-1986
CONSERVATION DIVISION
Wichita, Kansas

Sec. 19 Twp. 9 Rge. 32 E

Operator Name Terrol Energy, Inc. Lease Name..... Keller..... Well #... 1-19.....

Sec. 19..... Twp. 9..... Rge. 32..... East West County..... Thomas.....

WELL LOG

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
 Samples Sent to Geological Survey Yes No
 Cores Taken Yes No

Formation Description
 Log Sample

DST#1: 4234'-4283' LKC "I" & "J" 30"-30"-30"-30"
 1st open-wk. blow - died 18" 2nd open - no blow
 flush tool-surge. IFP 18-18#, FFP 21-21#
 ISIP 43#, FSIP 36#, IHP 2087#, FHP 2087#
 REC. - 10' M/W S.O. in tool.

Name	Top	Bottom
Anhydrite	2639	2666
Heebner	4038	
Toronto	4050	
Lansing/ Kansas City	4069	4346
Marmaton	4370	
Pawnee	4470	
Myrick Station	4512	
Fort Scott	4582	
Cherokee Shale	4562	
Johnson Zone	4603	
Mississippi Lime	4650	
Warsaw Dolomite	4694	

DST#2: 4466'-4500' Pawnee 45"-60"-45"-60"
 1st open-strong blow-BTM. BKT. in 12"
 IFP 95-285#, FFP 338-422#, ISIP 644#, FSIP 634#
 HP 2256-2203#, REC. 180' GIP, 200" CGO, 120' WO
 (10% G-40% O-50% H₂O), 480' MW, 10' HM.

DST#3: 4496'-4530' Myrick Station 45"-45"-45"-45"
 1st open-wk. blow Bldg. to 3", 2nd open-v. wk. blow
 throughout. IFP 52-52#, FFP 63-63#, ISIP 634#,
 FSIP 634#, HP 2256-2214#, REC. 70' SOCGM,
 15% G, 10% O, 75% M.

DST#4: 4459'-4625' Johnson zone 30"-30"-30"-30"
 1st open-wk. blow bldg. 1 1/2", 2nd open- dead-
 flush v. wk. blow 7" IFP 49-49#, FFP 49-49#,
 ISIP 344#, FSIP 88#, HP 2309-2279#, Rec.-25'M
 w/ S.O. in tool.

RELEASED

AUG 13 1987

CASING RECORD <input checked="" type="checkbox"/> New <input type="checkbox"/> Used				FROM CONFIDENTIAL			
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	347	60/40POZ	200	3%cc, 2%gel
Production	7-7/8	5-1/2	14 1/2	4710	Surefill	170	
					Light	425	
PERFORATION RECORD				Acid, Fracture, Shot, Cement Squeeze Record			
Shots Per Foot	Specify Footage of Each Interval Perforated			(Amount and Kind of Material Used)			Depth
1 SPF	4612 1/2 - 4614 1/2			50 Gal. DEM & 300 GAL. 15% MCA			Same
2 SPF	4613 - 4615			2000 Gal. 15% DEM			Same
2 SPF	4477 1/2 - 4480 1/2			350 Gal. 15% MCA			Same
	"			1500 Gal. 15% DEM			Same
2 SPF	4627 - 4629						
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
N/A							
Date of First Production		Producing Method					
N/A		N/A <input type="checkbox"/> Flowing <input type="checkbox"/> Pumping <input type="checkbox"/> Gas Lift <input type="checkbox"/> Other (explain).....					
Estimated Production Per 24 Hours		Oil	Gas	Water	Gas-Oil Ratio	Gravity	
N/A							
		Bbls	MCF	Bbls	CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas: Vented Open Hole Perforation
 Sold Other (Specify) 4477 1/2 - 4480 1/2
 Used on Lease Dually Completed Commingled 4612 1/2 - 4615
 4627 - 4629

15-193-20397-00-00

EMPHASIS OIL OPERATIONS

P. O. Box 506

Russell, KS 67665

DRILLERS LOG

OPERATOR: Terrol Energy, Inc.
309 Hyland Drive
Evergreen, CO 80439

CONTRACTOR: Emphasis Oil Operations
Box 506
Russell, KS 67665

LEASE: Keller

WELL #1-15

LOCATION: N/2 SW SW
Section 19-9S-32W
Thomas County, Kansas

CONFIDENTIAL

Log Total Depth: 5197'

Rotary Total Depth: 5200'

Elevation:

Commenced: 3/4/86

Completed: 3/15/86

Casing: 8-5/8" @ 347' w/200 sks cement
5-1/2" @ 4710' w/595 sks cement

Status: Oil Well

DEPTHS & FORMATIONS

(All measurements from K.B.)

Clay, Sand & Shale	350'	Shale	4326'
Shale	2346'	Lime & Shale	4565'
Sand	2634'	Shale & Lime	4625'
Anhydrite	2675'	Lime & Shale	4673'
Shale	3962'	Shale & Lime	4725'
Shale & Lime	4120'	Lime & Shale (R.T.D.)	5200'

RELEASED

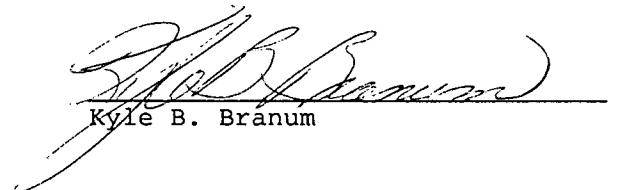
AUG 13 1987

FROM CONFIDENTIAL

MAY 18 1986
FEDERAL SURVEY

STATE OF KANSAS)
 ss
COUNTY OF RUSSELL)

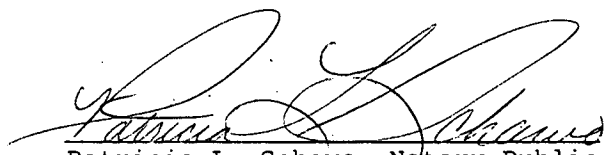
Kyle B. Branum, of Emphasis Oil Operations, states that the above and foregoing is a true and correct log of the above captioned well, to the best of his knowledge.


Kyle B. Branum

Subscribed and sworn to before me this 20th of March, 1986.

My Commission Expires: July 29, 1989.

PATRICIA L. SCHAWO
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 7/29/89


Patricia L. Schawo, Notary Public
RECEIVED
STATE CORPORATION COMMISSION
MAY 16 1986
CONSERVATION DIVISION
Wichita, Kansas