

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 # 8759  
Name Mack Energy Co.  
Address P.O. Box 400  
City/State/Zip Duncan, OK 73534

Purchaser Oil - Texaco Trad. & Transp.  
Gas - Kansas Gas Supply

Operator Contact Person Chris Cain  
Phone (405) 252-5580

Contractor License # 5146  
Name Rains & Willaimson Oil Co., Inc.

Wellsite Geologist Bob Douglass  
Phone (316) 263-7135

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

If OHWO: old well info as follows:  
Operator  
Well Name  
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:  
 Mud Rotary  Air Rotary  Cable  
12-23-87 1-5-88 2-12-88  
Spud Date Date Reached TD Completion Date  
4285' 4251'  
Total Depth PBTD

Amount of Surface Pipe Set and Cemented at 273 feet  
Multiple Stage Cementing Collar Used? Yes  No  
If yes, show depth set feet  
If alternate 2 completion, cement circulated from feet depth to w/ SX cmt  
Cement Company Name  
Invoice #

API NO. 15-095-21,575-00-00  
County Kingman  
SW NW Sec 31 Twp 29S Rge 7 East West

3300 Ft North from Southeast Corner of Section  
4620 Ft West from Southeast Corner of Section  
(Note: Locate well in section plat below)

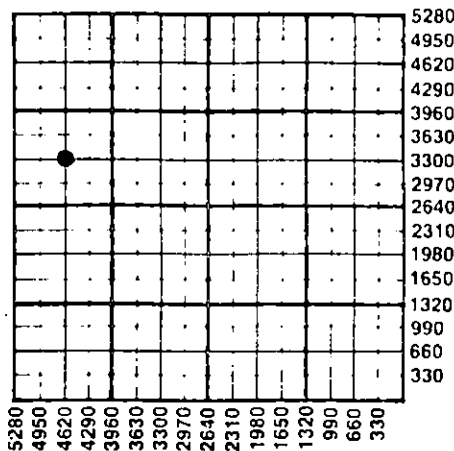
Lease Name CALKIN Well # 3

Field Name Spivey-Grabs

Producing Formation Miss.

Elevation: Ground 1556 KB 1565

Section Plat



WATER SUPPLY INFORMATION

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

Surface Water 3300 Ft North from Southeast Corner (XXXXX, pond etc) 3720 Ft West from Southeast Corner Sec 31 Twp 29S Rge 7 East West

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

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. 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 [Signature]

Title Geologist Date 3-04-88

Subscribed and sworn to before me this 7th day of March 1988.

Notary Public Jackie M. Cannon

Date Commission Expires 7-22-89

K.C.C. OFFICE USE ONLY  
F Letter of Confidentiality Attached  
C [checked] Wireline Log Received  
C Drillers Timelog Received  
Distribution  
KCC SWD/Rep NGPA  
KGS Plug Other  
COMMISSION (Specify)  
1988

CONSERVATION DIVISION  
Wichita, Kansas

3-9-88

Sec. 31, Twp. 29S, Rge. 7, W

SIDE TWO

Operator Name Mack Energy Co Lease Name CALKIN Well # 3

Sec. 31 Twp. 29 S Rge. 7  East  West County Kingman

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

Name	Top	Bottom
Heebner	3167'	3171'
Toronto	3180'	3200'
Douglas Shale	3200'	3294'
Douglass Sand	3294'	3396'
Lansing/K.C.	3396'	
Stark	3802'	3806'
Swope	3806'	3836'
Hertha	3839'	3876'
B/K.C.		3902'
Miss	4177'	T.D.

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	1 7/8"	8 5/8"	23#	273'	60-40 poz	200 sx	3% cc
Production	7 7/8"	4 1/2"	9 1/2#	4284'	50-50 poz	125 sx	
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/ft.	4180-86', 4194-4207' & 4226-31'			2000 gals. 7-1/2% MCA			
				63,000 gals. & 19500 #20/40 sd.			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size 2-3/8"		Set At 4183'		Packer at None			
Date of First Production		Producing Method					
2-12-88		<input type="checkbox"/> Flowing <input checked="" 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	
6 Bbls		15 MCF	3 Bbls	2500	CFPB		

METHOD OF COMPLETION

Production Interval

Disposition of gas:  Vented  Sold  Used on Lease  
 Open Hole  Perforation  Other (Specify) ..... 4180-4231'  
 Dually Completed  Commingled