

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 Company
Address P.O. Box 400
City/State/Zip Duncan, OK 73534

Purchaser *Juana*
Kansas Gas Supply

Operator Contact Person O.D. Mellott
Phone 228-6230

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

Wellsite Geologist Tim Hanson
Phone (405) 252-5580

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

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

WELL HISTORY

Drilling Method:
 Mud Rotary Air Rotary Cable
8-31-87 9-9-87 9-18-87
Spud Date Date Reached TD Completion Date
4251' 4180'
Total Depth PBTD
Amount of Surface Pipe Set and Cemented at 255 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 Halliburton Services
Invoice #

API NO. 15-095-21,573-00-00
County Kingman
NE SW NW Sec 5 Twp 30S Rge 7 East
3630 Ft North from Southeast Corner of Section
4290 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

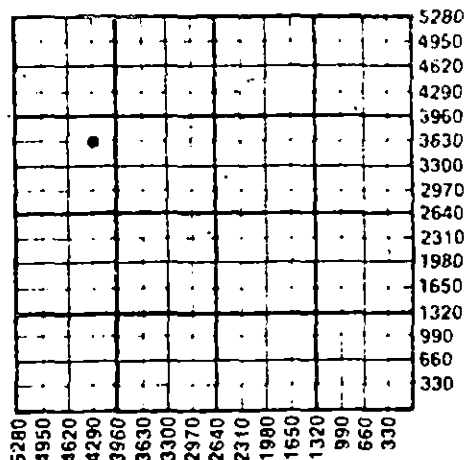
Lease Name RENDER "C" Well # 2

Field Name SPIVEY-GRABS

Producing Formation Miss. Chat

Elevation: Ground 1500 KB 1508

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) 256-3717
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.....Ft North from Southeast Corner
(Stream, pond etc).....Ft West from Southeast Corner
Sec Twp Rge East West
Other (explain).....Farm Pond.....
(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 *Tim L. Hanson*

Title Geologist Date 10-14-87

Subscribed and sworn to before me this 30th day of October 1987

Notary Public *Fran Edwards*

Date Commission Expires July 22, 1989 NOV. 2 1987

K.C.C. OFFICE USE ONLY
F Letter of Confidentiality Attached
C Wireline Log Received
C Drillers Time Log Received
Distribution
 KCC SWD/Rep NGPA
 KGS Other
STATE CORPORATION COMMISSION (Specify)
RECEIVED
OCT 13 1987

Sec. 5, Twp 30S, Rge. 7E

Operator Name **Mack Energy Company** Lease Name **RENDER "C"** Well # **2**

Sec. **5** Twp. **30S** 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 <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples Sent to Geological Survey <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Cores Taken <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Formation Description <input checked="" type="checkbox"/> Log <input type="checkbox"/> Sample																								
DST- #1 4160'-77' (Miss. Chat) 30" - 60" - 60" - 120" IHP 2070# IFP 30-47# ISIP 880# FFP 59-59# FSIP 1063# FHP 2032# BHT 125°F REC: 2100' GIP + 65' GCM (10% Gas; 1% Oil; 89% Mud) Sampler: 1200 cc. mud + 8.9 Ft ³	<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:60%;">Name</th> <th style="width:20%;">Top</th> <th style="width:20%;">Bottom</th> </tr> </thead> <tbody> <tr> <td>Tonganoxie</td> <td>3263'</td> <td>3344'</td> </tr> <tr> <td>Lansing/K.C.</td> <td>3361'</td> <td>3869'</td> </tr> <tr> <td>Swope</td> <td>3786'</td> <td>3813'</td> </tr> <tr> <td>Hertha</td> <td>3816'</td> <td>3842'</td> </tr> <tr> <td>Miss Chat</td> <td>4152'</td> <td>T.D.</td> </tr> <tr> <td>DTD</td> <td>4251'</td> <td></td> </tr> <tr> <td>LTD</td> <td>4250'</td> <td></td> </tr> </tbody> </table>	Name	Top	Bottom	Tonganoxie	3263'	3344'	Lansing/K.C.	3361'	3869'	Swope	3786'	3813'	Hertha	3816'	3842'	Miss Chat	4152'	T.D.	DTD	4251'		LTD	4250'	
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CASING RECORD <input type="checkbox"/> New <input checked="" 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"	23#	255'	60-40 po2	1.75	3% cc
Production	7 7/8"	4 1/2"	9.5#	4249'	50-50 po2	1.25	18% salt
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	4154' - 62'			500 gals. 7-1/2% mca.		Perfs.	
				360 Bbls. of .30% x-linked gel.			
				9500# .20/40 sd.			
TUBING RECORD				Liner Run <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
Size	Set At	Packer at					
2 3/8"	4120'	NONE					
Date of First Production	Producing Method						
10-1-87	<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		
	4 Bbls	26 MCF	2 Bbls	6500:1	34°		

METHOD OF COMPLETION Production Interval

Disposition of gas: Vented Sold Used on Lease

Open Hole Perforation Other (Specify)

Dually Completed Conmingled

4154'-62'

DRILLER'S LOG

COMPANY: Mack Energy Company SEC. 5 T. 30S R. 7W
 WELL NAME: RENDER "C" #2 LOC. NE SW NW
 RIG NO. #3 COUNTY: Kingman
 TOTAL DEPTH 4251' ELEVATION
 COMMENCED: 8-31-87 COMPLETED: 9-9-87
 CONTRACTOR: Rains & Williamson Oil Co., Inc.
 CASING RECORD:
 SURFACE: 8 5/8" @ 255' w/175 sx. 60-40 poz., 3% cc.
 PRODUCTION: 4 1/2" @ 4249' w/125 sx. 50-50 poz., 18% salt

LOG

(Figures Indicate Bottom of Formations)

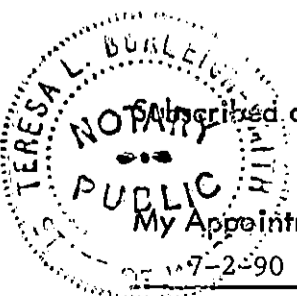
Shale and Lime	2125
Shale	2639
Shale and Lime	3725
Lime and Shale	4076
Lime	4251
Rotary Total Depth	4251

STATE OF KANSAS)
 COUNTY OF SEDGWICK) SS:

I, WILSON RAINS, PRESIDENT of RAINS & WILLIAMSON OIL CO., INC.
 upon oath state that the above and foregoing is a true and correct copy of the log of the
 RENDER "C" #2 well.

RECEIVED
 STATE CORPORATION COMMISSION
 OCT 16 1987
 WILSON RAINS
 CONSERVATION DIVISION
 Wichita, Kansas

Wilson Rains



RECEIVED
 STATE CORPORATION COMMISSION
 NOV 2 1987
 CONSERVATION DIVISION
 Wichita, Kansas

Subscribed and sworn to before me this 11 day of September , 19 87 .

Teresa L. Burleigh-Smith
 Teresa L. Burleigh-Smith - Notary Public