

**WELL COMPLETION OR RE-COMPLETION REPORT**

**Instructions:** Within thirty days following the completion or re-completion of any well, the owner or operator shall submit this form in duplicate for wells on patented or Federal lands, and in triplicate for wells on State lands. Geological information will be held confidential for a period of twelve months if requested in writing. If multiple completion, submit separate report for each completion.

DESIGNATE TYPE OF COMPLETION

New Well  Work-Over  Deepen  Plug Back  Same Reservoir   
 Different Reservoir  Oil  Gas  Unsuccessful

#68800

DESCRIPTION OF WELL AND LEASE

Operator: **EMPIRE DRILLING COMPANY**  
 Address: **650 Fourth National Bank Building  
Wichita, Kansas 67202**  
 Well No: **4** Lease Name: **NICHOLSON** Field and Reservoir (if well on state land): **MIDWAY**  
 Location: **C SW NW** Sec: **15** Twp: **1N** Range: **27W** County: **REDWILLOW, NEBRASKA**  
 Footage Location: **1,980** feet from ~~the~~  line **660** feet from ~~the~~  line of **NW**  $\frac{1}{4}$   
 Spud Date: **7-6-74** Date reached T.D.: **7-11-74** Date Completed: **7-18-74** Elevation: **2,478'** Reference (indicate) (KB)    
 Total Depth: **3,274'** P.E.T.D.: **3,241'** Single or multiple completion: **single** Was well directionally drilled? **No**  
 Producing intervals for this completion: **3,204' - 3,241'** **3,211 - 3,217'** Type of logs run in well: **WELLEX GAMA NEUTRON**  
 Rotary tools used (interval): **0 - 3,274'** Cable tools used (interval): **completion** Principal Contractor: **Murfin Drilling Company**

CASING RECORD

Report all strings set—surface, intermediate, production, etc.

Purpose of String	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting Depth	Sacks Cement
Surface	12 1/2"	8 5/8"	28#	161	120
Production	7 7/8"	4 1/2"	9.5#	3,274'	225

LINER RECORD

PERFORATION RECORD

Top ft.	Bottom ft.	Sacks Cement	Shots per Ft.	Size & Type	Depth Interval
			4	jet	3,204' - 3,208'
			4	jet	3,211' - 3,217'

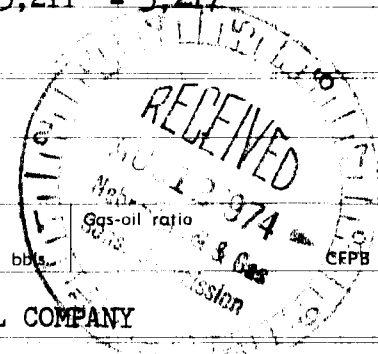
Size	Setting Depth	Packer set at
2 3/8"	3236	

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and Kind of Material Used	Depth Interval Treated
4,000 Jell acid	3,204' - 3,208'
1,000 reg. acid	3,211' - 3,217'

INITIAL PRODUCTION

Date of first production: **3-6-74** Producing method (flowing, pumping, gas lift, etc.): **pump**  
 RATE OF PRODUCTION PER 24 HOURS: Oil **15** bbls. Gas **none** MCF Water **none** bbls.  
 Disposition of gas (vented, used on lease or sold): **vented** Oil Purchaser: **KOCH OIL COMPANY**



We hereby swear or affirm that the statements herein made are complete and correct.

*Robert White*  
Signature

**Production Superintendent**  
Title

**8-8-74**  
Date

110	Sand & Clay	Anhydrite	1921	+557
161	Shale	Base Anhydrite	1946	+532
1921	Shale & sand	Topeka	3028	-550
1946	Anhydrite	Deer Creek	3068	-590
2110	Shale	Oread	3127	-649
2370	Shale-shells	Base Leavenworth	3146	-668
3050	Lime & Shale	Douglas Sand	3149	-671
3200	Lime	Lansing	3166	-688
3226	Core	"B" Zone	3202	-724
3280	Lime	"C" Zone	3256	-778
3280	TD	TD	3280	

DST #1 3174-3226  
30-30-60-60

Weak blow for 30 min. Rec. 70' oil cut mud (Est. 20-25% oil)  
ISIP 916#, FSIP 986#, IFP 11#, FFP 47# BH Temp. 105