

Operator Name National Petroleum Reserves, Inc Lease Name Miller Trust Well # 1

Sec 32 Twp 10 Rge 31 ☐ 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

D.S.T. # 1 LKC 4088-4130
30-60-30-60
rec: 3' oil, 60' mud, 540' s.w.
IFP 74-212 FFP 255-319
ISIP 1204 FSIP 1194

D.S.T. # 2 Cher. 4540-4640
30-30-30-30
rec: 114' mud, and 700' s.w.
IFP 127-329 FFP 351-393
ISIP 1109 FSIP 1099

Name	Top	Bottom
Topeka	3762 (-766)	
Heebner	3992 (-996)	
Toronto	4010 (-1014)	
Lansing	4029 (-1033)	
Base/K.C.	4311 (-1315)	
Marmaton	4339 (-1343)	
Pawnee	4435 (-1439)	
Ft. Scott	4502 (-1506)	
Cherokee	4533 (-1537)	
Mississippian	4616 (-1620)	

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CONSERVATION DIVISION
Wichita, Kansas

CASING RECORD ☒ New ☐ 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"	20#	305'	60/40 poz.	180	2% gel 3% cc.
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		Size	Set At	Packer at	Liner Run	☐ Yes ☐ No	
Date of First Production		Producing Method					
		☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain)					
Estimated Production Per 24 Hours	Oil	Gas	Water	Gas-Oil Ratio	Gravity		
	Bbls	MCF	Bbls	CFPB			

METHOD OF COMPLETION

Production Interval

Disposition of gas: ☐ Vented
☐ Sold
☐ Used on Lease

☐ Open Hole ☐ Perforation
☐ Other (Specify)

☐ Dually Completed
☐ Conmingle

DRILLER'S WELL LOG

DATE COMMENCED: October 13, 1988

DATE COMPLETED: October 19, 1988

National Petroleum Reserves, I
MILLER TRUST #1
NE SW NW
Sec. 32, T10S, R31W
Thomas County, KS

0 - 1207' Sand, Clay, Shale
1207 - 2054' Shale, Lime
2054 - 2460' Lime, Shale, Red Bed
2460 - 2536' Shale, Lime
2536 - 2565' Anhydrite
2565 - 3147' Lime, Shales
3147 - 3450' Lime, Shales, Red Bed
3450 - 4130' Shale, Lime
4130 - 4312' Lime
4312 - 4640' Lime & Shale
4640' RTD

Elevation: 2996 K.B.

Surface Pipe: Set 8 5/8",
20# pipe at 305' w/180
sacks 60/40 Pozmix, 2% gel,
2% C.C.

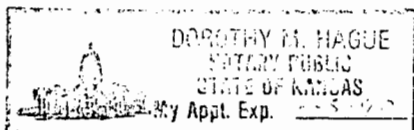
A F F I D A V I T

STATE OF KANSAS
COUNTY OF BARTON) ss

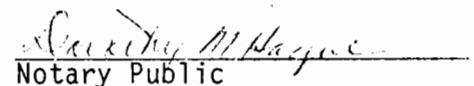
ERVIN NEIGHBORS of lawful age, does swear and state that the
facts and statements herein are true and correct to the best of his knowledge.


Ervin Neighbors

SUBSCRIBED AND SWORN to before me this 20 day of October, 1988.



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STATE CORPORATION COMMISSION


Notary Public

NOV 3 1988

CONSERVATION DIVISION
Wichita, Kansas