

released 1-79
CONFIDENTIAL

WICHITA BRANCH
KANSAS DRILLERS LOG

S. 9 T. 16S R. 6E W. 4

API No. 15 — 127 — 20263
County Number

Loc. SE SE SE

County Morris

Operator
Benson Mineral Group, Inc.

Address
1400 Metro Bank Building, Denver, Colorado 80202

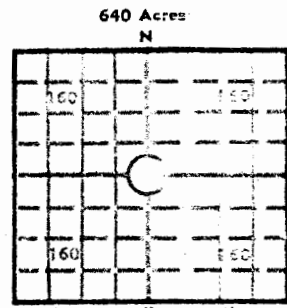
Well No. 1-9 Lease Name Harkness

Footage Location
feet from (N) (S) line feet from (E) (W) line

Principal Contractor R & N Drilling Geologist Dave Williams

Spud Date 11-21-77 Total Depth 2178 P.B.T.D.

Date Completed 11-29/77 Oil Purchaser



Elev.: Gr.

DF K3

CASING RECORD

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

Purpose of string	Size hole drilled	Size casing set (in O.D.)	Weight lbs/ft.	Setting depth	Type cement	Sacks	Type and percent additives
Surface	9-7/8	7"		126'			
Production	6 1/2						

Radiation-Guard Log forwarded herewith.

LINER RECORD

PERFORATION RECORD

Top, ft.	Bottom, ft.	Sacks cement	Shots per ft.	Size & type	Depth interval

Size	Setting depth	Packer set at

ACID, FRACTURE, SHOT, CEMENT SQUEEZE RECORD

Amount and kind of material used	Depth interval treated
Plugged & Abandon 11/30/77	

INITIAL PRODUCTION

Date of first production None	Producing method (flowing, pumping, gas lift, etc.)
RATE OF PRODUCTION PER 24 HOURS	Oil Gas Water Gas-oil ratio
Disposition of gas (vented, used on lease or sold)	Producing interval (s)

INSTRUCTIONS: As provided in KCC Rule 82-2-125, within 90 days after completion of a well, one completed copy of this Drillers Log shall be transmitted to the State Geological Survey of Kansas, 4150 Monroe Street, Wichita, Kansas 67209. Copies of this form are available from the Conservation Division, State Corporation Commission, 3830 So. Meridian (P.O. Box 17027), Wichita, Kansas 66217. Phone AC 316-522-2206. If confidential custody desired, please note Rule 82-2-125. Drillers Logs will be on an open file in the Oil and Gas Division, State Geological Survey of Kansas, Lawrence, Kansas

9-165-6E

DESIGNATE TYPE OF COMP.: OIL, GAS, DRY HOLE, SWDW, ETC.:

Benson Mineral Group, Inc.

Well No. 1-9	Lease Name Harkness	P&A
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S 9 T 16SR 6E W

WELL LOG

Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

SHOW GEOLOGICAL MARKERS, LOGS RUN, OR OTHER DESCRIPTIVE INFORMATION.

FORMATION DESCRIPTION, CONTENTS, ETC.	TOP	BOTTOM	NAME	DEPTH
topsoil	0	10		
lime	10	23		
shale	23	40		
clay	40	57		
lime	57	107		
shale	107	115		
lime	115	134		
shale	134	146		
lime	146	162		
shale	162	218		
lime	218	222		
lime w/ shale	222	227		
shale	227	287		
lime	287	293		
shale & lime	293	327		
shale	327	335		
lime	335	338		
shale	338	428		
lime	443	443		
shale	443	453		
lime	453	468		
shale	468	475		
shale & lime	475	571		
lime	571	573		
shale	573	644		
lime	644	687		
shale	687	734		
lime	734	736		
shale	736	807		
lime	807	810		
lime w/shale	810	878		
lime	878	880		
lime w/shale	880	1015		
shale	1015	1027		
lime & shale	1027	1053		
shale	1053	1066		
lime	1066	1078		
lime & shale	1078	1127		
lime	1127	1153		
lime & shale	1153	1159		

USE ADDITIONAL SHEETS, IF NECESSARY, TO COMPLETE WELL RECORD.

Date Received	<i>Courtney E Cook</i> Signature
	Production Manager Title
	12/12/77 Date

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Benson Mineral Group, Inc.
Drillers Log
Harkness 1-9
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lime	1159	1179
lime & shale	1179	1186
shale	1186	1204
lime	1204	1208
lime & shale	1208	1221
lime	1221	1239
lime & shale	1239	1245
lime	1245	1247
lime & shale	1247	1253
shale	1253	1296
lime	1296	1330
shale w/lime	1330	1372
lime	1372	1385
shale w/lime	1385	1394
shale	1394	1430
lime	1430	1452
shale	1452	1496
lime w/shale	1496	1525
shale	1525	1530
lime w/shale	1530	1592
lime	1592	1595
shale & lime	1595	1620
lime	1620	1624
lime w/ shale	1624	1637
lime	1637	1671
shale & lime	1671	1676
lime	1676	1686
lime & shale	1686	1690
lime	1690	1710
lime & shale	1710	1731
lime	1731	1742
shale	1742	1750
lime & shale	1750	1753
lime	1753	1754
lime & shale	1754	1766
lime	1766	1806
shale	1806	1817
lime	1817	1819
shale & lime	1819	1830
lime	1830	1833
shale	1833	1839
lime	1839	1869
shale	1869	1881
lime	1881	1908
shale	1908	1915
lime	1915	1936
shale	1936	1937
lime	1937	1960
lime & shale	1960	1969
shale	1969	2012
lime	2012	2014
shale	2014	2024
lime	2024	2027

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shale & lime	2027	2040
lime	2040	2060
lime & shale	2060	2090
lime	2090	2121
shale w/lime	2121	2158
lime	2158	2178