

SIDE TWO

Operator Name White & Ellis Drlg. Lease Name HCR Well# 1 SEC. 23 TWP. 15S RGE. 31 ~~XXXX~~ ~~East~~
~~West~~

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
ANHY	2043 + 565	2004 - 604
B/ANHY	2064	+ 544
HEEB	3634	-1026
TORONTO	3654	-1046
LANS	3672	-1064
MUNCIE CRK	3844	-1236
STARK	3938	-1330
HUSH	3974	-1366
MARM	4050	-1442
ALTAMONT	4074	-1466
PAWNEE	4141	-1533
FT. SCOTT	4192	-1584
CHEROKEE	4217	-1609
JOHNSON ZN	4259	-1651
MISS	4312	-1704

DST #1: 3934'-3965', 30-30-30-30, Wk blow 1st open - died 2nd open. Rec. 10' VS0sptM, IFP 23/23#, FFP 23/23#, ISIP 58#, FSIP 47#

DST #2: 3960'-4003' ("L" Zone), 30-45-30-45, strong blow, Rec. 2376' MCSW, IFP 742/1156#, FFP 1179/1179#, ISIP 1179#, FSIP 1179#

DST #3: (Altamont), 4056'-96', 30-30-30-30, 1st open wk blow dec. - died in 22 min., 2nd open - no blow - flushed tool - good surge - no help, Rec. 5' drlg. mud, IFP 47/47#, FFP 47/47#, ISIP 47#, FSIP 47#

DST #4: 4197'-4286', 30-30-30-30, Rec. 15' M, IFP 93/93#, FFP 116/93#, ISIP 1099#, FSIP 949#

CASING RECORD ☐ new ☐ used

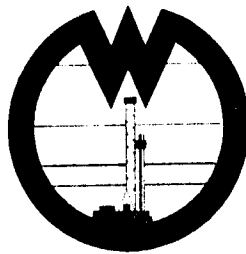
Report all strings set - conductor, surface, intermediate, production, etc.

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. 1/4"	8. 5/8"	24#	374'	60/40poz	225	2% Gel. 3% CC
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PERFORATION RECORD

Acid, Fracture, Shot, Cement Squeeze Record

shots per foot	specify footage of each interval perforated	(amount and kind of material used)	Depth
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23-15-31W
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WHITE

AND ELLIS DRILLING, Inc.

DRILLERS LOG

OPERATOR: White & Ellis Drilling, Inc.
401 E. Douglas, Suite 500
Wichita, Kansas 67202
CONTRACTOR: White & Ellis Drilling, Inc., 401 E. Douglas, Suite 500,
Wichita, Ks. 67202

Lease Name Hell Creek Ranch Well No. #1
Sec. 23 T. 15S R. 31W Spot SW NE SE
County Gove State Kansas Elevation

Casing Record:

Surface: 8 5/8 @ 375' with 225 sx.

Production: @ with sx.

Type Well: D & A Total Depth 4350'

Drilling Commenced 11-20-84 Drilling Completed 12-2-84

Formation	From	To	Tops
Cellar	0	7	
and	7	20	
Shale, Lime	20	2100	
Shale	2100	2502	
Shale, Lime	2502	4350	

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C. J. & S. J. S. Co.
Wichita, Kansas