Ken LeBlanc Petroleum Geologist

GEOLOGICAL REPORT

2349 North Stoneybrook Court
Wichita, Kansas 67226-3604
(316)-630-0195

COMPANY	McGinness Energy Co. (31434)
LEASE	Woydziak 1-26
FIELD	Stoltenberg - Heiken
LOCATION	1460 FSL & 1725 FEL
SECTION	26 TOWNSHIP 17S RANGE 10W
COUNTY	Ellsworth STATE Kansas
CONTRACTOR	Duke Drlg Rig 2 (5929)
COMMENCED DRILLING	Mon. Nov. 8, 2021
COMPLETED DRILLING	Sun. Nov. 14, 2021
RTD	3280 FEET LTD 3279 FEET
MUD UP AT	2500± FEET MUD TYPE Chemical

API: 15-053-21377

ELEVATIONS: KB 1799 FEET, DF 1797 FEET, GL 1791 FEET

MEASUREMENTS ARE ALL FROM: KB

CASING: 8⅝" at 284', 5½" at 3270'

ELOG SUITES: CNCD (no PE), DIL, Microlog, No Sonic

SAMPLES SAVED FROM 2606 FEET TO 3280 FEET
DRILLING TIME KEPT FROM 2600 FEET TO 3280 FEET
SAMPLES EXAMINED FROM 2600 FEET TO 3280 FEET
GEOLOGICAL SUPERVISION FROM 2355 FEET TO 3280 FEET

NOTES: Mud system - Mud Co, Surf csg cmt - Hurricane Svc., Water-well, Fuel-Bestvern O/G, Gas detector - MBC Logging and Leasing, DSTs - Trilobite Tstg, Logging - Eli WL Svc, Prod csg cmt - Hurricane Svc.

CORES - NONE

Remarks: The MEC Woydziak 1-26 was drilled as an in-fill well in the Stoltenberg-Heiken Field in western Ellsworth County KS. 3D seismic helped to provide the drillsite in this mature area. Four (4) DSTs were taken covering the LSG G ZN and Arbuckle. 5½" prod csg was set at 3270 ft to further evaluate the Arbuckle formation based on DST 4.

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Daily Penetration (7 am)

Date	Depth
11-6-21	MIRT, rig up
11-7-21	No activity
11-8-21	Spud 9:30am set 8⅝" at 284'
11-9-21	Drlg 574'
11-10-21	Drlg 1940'
11-11-21	Drlg 2740'
11-12-21	3020-DST1, DST2
11-13-21	3170-CFS, DST3
	DST 4
	RTD 3280-1481
	at 4:45am 11-14-21
11-14-21	3280, taking DST 4, TIH A/DST 4, CTCH 60", TOOH f/logs, Eli WL svc, finished logging at 1:20am 11-15-21
11-15-21	3280 - preparing to run 5½" prod csg

Bit Record

Number	Size	Make	Type	Depth Out	Feet	Hours
1	12¼	JZ	PDC	284	284	2
2	7⅞	JZ	HR20N	3280	2996	59
		Total bit hours →		3280		61

Avg. penetration rate: 0-RTD 53.77 FPH

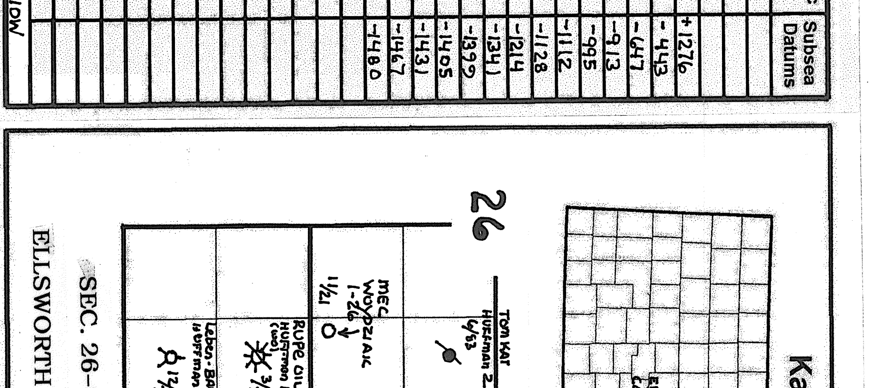
GENERAL INFORMATION

Ran 7 jts new 23# 8⅝" surf csg, tallied at 273.76', set at 284' w/195sxs 60/40 (3% cc + 2% gel), plug down at 4pm 11-8-21, cmt did circ. by Hurricane Svc.
Rig make: IDECO H35, DBL, [illegible] pits
Pwr: CAT C15
Pump: EMSCO D300 stroke: 14", liners 6"
Pwr: CAT C16
Rig pwr: CAT 3406
DP: 4½" XH, wt 16.6#/ft, OD: 6⅛" ID: 2¼"
DC: #16 - Length 467.51', OD: 6⅛" ID: 2¼"
Tool pusher: Dion Vasquez

Formation Tops

Formation	Sample Tops	Corrected Sample Tops	Electric Log Tops	Subsea Datums
B/Surface Casing	284		284	
T/Stone Corral			523	+1276
Stotler			2242	-443
Howard			2446	-647
Queen Hill Shale	2712		2712	-913
Heebner Shale	2796		2794	-995
Brn LS	2914		2912	-1112
Lansing	2931		2926	-1128
Lansing "G" ZN	3014		3013	-1214
Stark Shale	3140		3140	-1341
B/KC	3203		3198	-1399
Marmaton			3204	-1405
B/Penn Conglomerate			3230	-1431
Arbuckle	3267		3266	-1467
RTD LTD	3280		3280	-1480

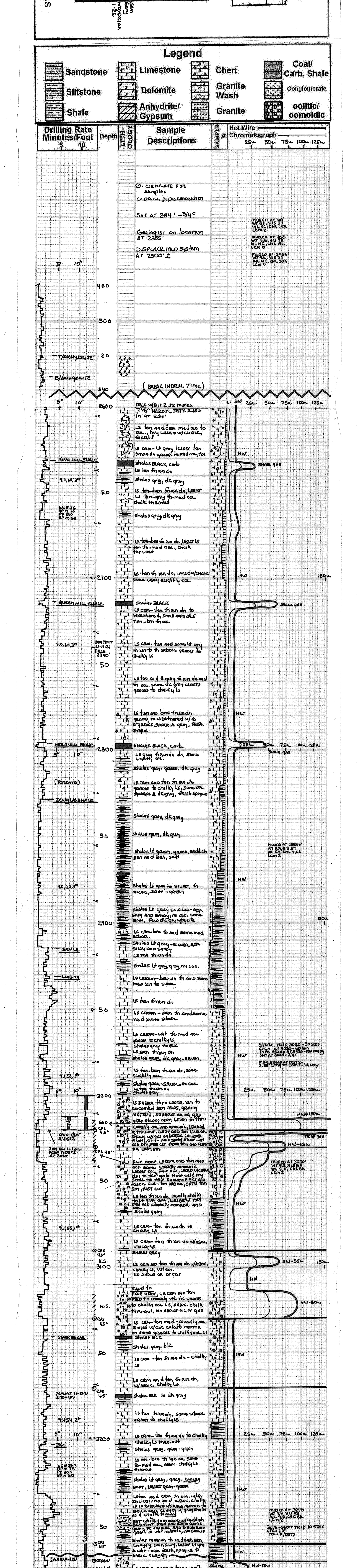
Reference Well: Tom Kat Huffman 2, NE NW SE 26-17S-10W



SEC. 26-T17S-R10W
ELLSWORTH COUNTY, KANSAS

Legend

Sandstone, Siltstone, Shale, Limestone, Dolomite, Anhydrite/Gypsum, Chert, Granite Wash, Granite, Coal/Carb. Shale, Conglomerate, oolitic/oomoldic



DST 1) 3000- 3020 [Lansing G Zn]
MIS-RUN

Slid Tool Fourteen (14) feet - TOOL OPENED
Needed to add another joint of pipe - decision made to condition hole and retry DST

DST 2) 3012-3020
(Lansing G Zone)
Times: 30-60-45-90

Slid Tool Six (6) to Bottom

1st open: BOBOB in 30 seconds, built to 752.44 inches - GTS as tool was being shut-in - NO GAUGES
(weak surface blowback - died)

2nd open: BOBOB immediately gauging gas

time	orfice	Inches of H20	volume
10"	3/8"	9.07	79.76 MCFG
20"	3/8"	10.51	84.65 MCFG
30"	3/8"	11.16	86.85 MCFG
40"	3/8"	11.92	89.44 MCFG
++ ** 45"	3/8"	12.24	90.52 MCFG

(NO Blowback)

++ - took gas sample
** - DID NOT Flare or Burn Gas at hose in bucket

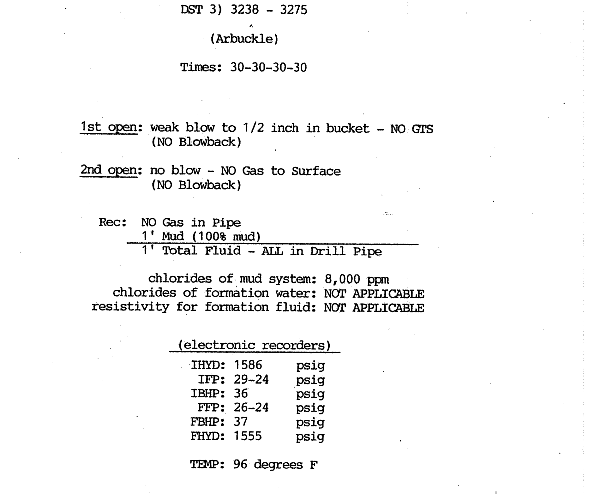
Rec: 41' Gassy Oil Specked Mud
(5% gas, 95% mud)
41' Total Fluid - ALL in Drill Pipe

chlorides of mud system: 4,600 ppm
chlorides of formation fluid: NOT APPLICABLE
resistivity of formation water: NOT APPLICABLE

(electronic recorders)
IHYD: 1445 psig
IFP: 26-52 psig
IBHP: 943 psig
FFP: 34-38 psig
FBHP: 943 psig
FHYD: 1421 psig
TEMP: 94 degrees F

Tester: Matt Smith: Trilobite Testing, LLC, Pratt Kansas District
NOTE: Conventional DST (dual packers, safety joint, electronic recorders circulating sub, jars, shale packer, portal)

NO bottom sampler



DST 2 - Chart

DST 3) 3238 - 3275
(Arbuckle)
Times: 30-30-30-30

1st open: weak blow to 1/2 inch in bucket - NO GTS
(NO Blowback)

2nd open: no blow - NO Gas to Surface
(NO Blowback)

Rec: NO Gas in Pipe
1' Mud (100% mud)
1' Total Fluid - ALL in Drill Pipe

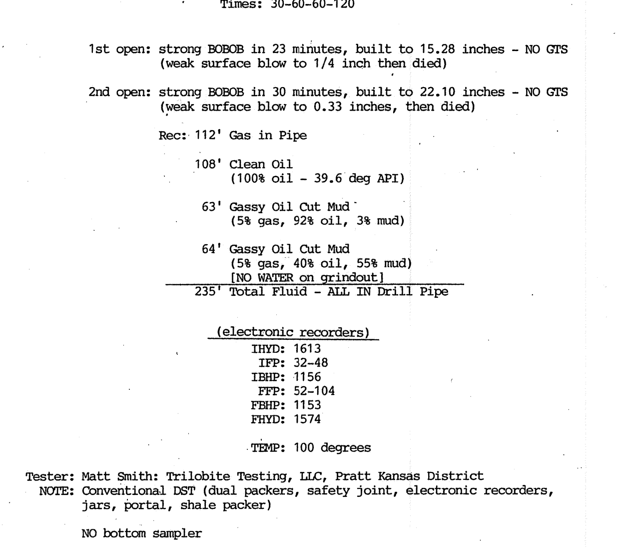
chlorides of mud system: 8,000 ppm
chlorides of formation water: NOT APPLICABLE
resistivity for formation fluid: NOT APPLICABLE

(electronic recorders)
IHYD: 1586 psig
IFP: 29-24 psig
IBHP: 36 psig
FFP: 26-24 psig
FBHP: 37 psig
FHYD: 1555 psig

TEMP: 96 degrees F

Tester: Matt Smith: Trilobite Testing, LLC, Pratt Kansas District
NOTE: Conventional DST (dual packers, electronic recorders, safety joint, Portal, jars, shale packer)

NO bottom sampler



DST 3 - Chart

DST 4) 3274 - 3280
(Arbuckle)
Times: 30-60-60-120

1st open: strong BOBOB in 23 minutes, built to 15.28 inches - NO GTS
(weak surface blow to 1/4 inch then died)

2nd open: strong BOBOB in 30 minutes, built to 22.10 inches - NO GTS
(weak surface blow to 0.33 inches, then died)

Rec: 112' Gas in Pipe

108' Clean Oil
(100% oil - 39.6 deg API)

63' Gassy Oil Cut Mud
(5% gas, 92% oil, 3% mud)

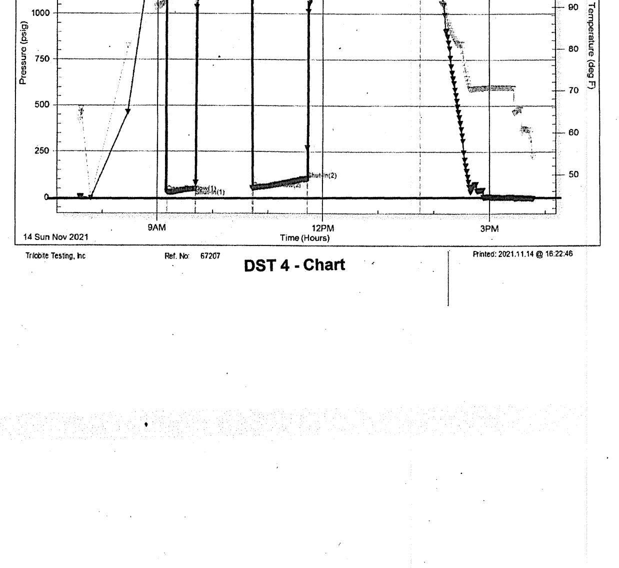
64' Gassy Oil Cut Mud
(5% gas, 40% oil, 55% mud)
[NO WATER on grindout]
235' Total Fluid - ALL IN Drill Pipe

(electronic recorders)
IHYD: 1613
IFP: 32-48
IBHP: 1156
FFP: 52-104
FBHP: 1153
FHYD: 1574

TEMP: 100 degrees

Tester: Matt Smith: Trilobite Testing, LLC, Pratt Kansas District
NOTE: Conventional DST (dual packers, safety joint, electronic recorders, jars, portal, shale packer)

NO bottom sampler



DST 4 - Chart