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Winfield, Kansas
GC2780

DUBOIS & JOHNS
Consulting Geologists
316-221-0428

RELEASED

GEOLOGISTS REPORT

DRILLING TIME AND SAMPLE LOG

COMPANY: Jennings Drilling Co. & Missouri River Resources
LEASE: #1 City National Bank
FIELD: Wildcat
LOCATION: NE NE SE 3310' FSL & 330' FEL
SEC. 17 TWSP. 54 N RNG. 36 W
COUNTY: Platte STATE: Missouri
CONTRACTOR: Van Drilling Co.
SPUD: 9-20-86 COMP. 9-23-86
RTD: 1386 LTD: 1388
MUD UP: 1006' TYPE MUD: Chemical
SAMPLES SAVED FROM 450' TO TD
DRILLING TIME KEPT FROM 450' TO TD
SAMPLES EXAMINED FROM 450' TO TD
GEOLOGICAL SUPERVISION FROM 900' TO TD
GEOLOGIST ON WELL: Martin K. [illegible]

ELEVATIONS
K.B. ____
D.F. ____
G.L. 947
Measurements Are All From GL

CASING
SURFACE: 7" @ 48' w/ 11 sks
PRODUCTION: ____

ELECTRICAL SURVEYS: Log Tech - DIL, Dual ϕ

RECEIVED
SEP 29 1986
MO Oil & Gas Council
Economic Geology

Structural Relation to JDC #1 Gatschet NW NE NE 18-54N-36W

FORMATION TOPS	LOG	SAMPLES
Ireton	95 (+852)	+34
Lansing	185 (+762)	+27
B. Kansas City	486 (+461)	+32
Cherokee	713 (+234)	+36
Upper Bartlesville	1029 (-82)	+11
Lower Bartlesville	1094 (-147)	+14
McLouth	1237 (-290)	+15
Burgess	1303 (-356)	+16
Miss. St. Louis	1330 (-383)	+33
Spergen	1382 (-435)	+17
Total Depth	1388 (-441)	

SAMPLES
99
188
489
715
1030
1094
1238
1303
1329
1381
1386

REMARKS

Daily Progress:
9-20 Moved on location, rigged up, drilled surf. hole, set 7" surf. csg. at 48', plug down at 8:00 p.m.
9-21 Drilled out beneath surf. csg. at 4:00 a.m., drilling at 7:00 a.m.
9-22 1226', bit trip at 7:00 a.m., RTD 1386 reached at 6:00 p.m.
9-23 Plugged as D&A at appx. 4:00 a.m.

Bits Run: Varel L3SC Rock Bit 48'-1226'
Smith F-3 RR 1226' - TD
(6 1/4" hole)

Despite having better sand development in the Bartlesville and McLouth intervals and good sand development in the Burgess as well as being relatively high to the #1 Gatschet well, no significant hydrocarbon shows were noted in samples nor on E-logs. The well was therefore plugged as D&A.

LEGEND

Anhydrite, Salt, Sandstone, Shale, Carb Sh, Limestone, Ool Lime, Chert, Dolomite

SCALE 1" = 100'

DEPTH	LITHOLOGY	DST's	DRILLING TIME - Minutes Per Foot / Rate of Penetration Decreases → 5" 10" 15" 20"	SAMPLE DESCRIPTIONS	REMARKS
400					
					20' samples 450' to 900'
50					10' samples 900' to TD
				LS, wh to lt tan, much is chlky, some w/ f-mg rnd foss grns, pr intgran & moldic ϕ, NS	
				Sl. shly @ base	
				Sh, blk, fissile	
				Sh, bl-gy	
				LS, wh, fg, rnd foss grns, fr ϕ, NS	
				LS, wh to gy, mostly fxln, dns, sctrd bl-cht	B. KANSAS CITY 489 (+458)
				Sh, blk, fissile	
				Sh, bl-gy, mica, sdy	
				Sh, bl-gy, mica, carb. mat	
				SS, gy, fg, mica, shly, pr ϕ, NS	
				Sh, bl-gy, silty, mica	
				AA	
				Sh gy w/ some dk gy	
				LS, wh to tan-org, fxln, dns	
				Sh, bl-grn to bl-gy w/ sdy lam. thrd-out	
600					
				SS, vfg, grn-gy, mica, tight	
				Sh, gy	
				LS, wh, fxln, dns	
				Sh, blk, fissile	
				LS, AA	
				Sh, grn-gy	
				Thin LS ldg, tan, foss, dns	
				Sh, bl-grn & bl-gy	
				Sh, blk	
				Sh, bl-gy	
				Sh, blk	
700				Intbd LS & Sh, LS is tan to grn-gy, foss, dns; Sh is grn-gy	
				Sh, blk	CHEROKEE 715 (+232)
				SS, grn, vfg, glauc., mica, shly, tight	
				Sh, bl-gy, silty in pt	
				AA	
				tr coal	
				Intbd SS & Sh, SS is vfg, glauc., shly, tight, NS; Sh is grn-gy	
				Sh, v. col., mostly lt grn-gy, some prpl	
800				Coal	
				LS, pink, fxln, dns	
				Sh, blk	
				Intbd Sh & sdy Sh, gy w/ some blk	
				Sh, blk	
				LS, tan, fxln, dns, cht	
				Sh, mostly bl-gy w/ sctrd sdy lam.	
				Sh, blk, carb, lignitic	
				SS, gy, vfg, tight	
				Sh, gy to blk	
				Sh, v. col., mostly lt bl-gy, some prpl & grn	
900				AA w/ some blk	
				Sh, blk	
				Sh, mostly bl-grn, tr grn SS	
				SS, wh to grn, vfg, gd ϕ, NS	
				Sh, gy to grn-gy	
				SS, wh, fg, w. srtd, subrnd, gd ϕ, abdt siderite spheres, NS	
				Sh, grn	
				SS, grn-gy, vfg, shly, pr ϕ, NS	
				LS, tan, fxln, dns	
				Coal	
				Sh, bl-gy & turq.	
				SS, wh, mg, subrnd to subang, w. srtd, mostly loose grns, gd ϕ, NS	
				Sh, gy & dk gy	
1000					← Jet Pits, Mud Up
				tr coal	
				Sh, gy, f. mica & carb. lam	
				SS, wh, fg, subrnd, w. srtd, tr mica & glauc., gd ϕ, NS, no odor	
				Sh, gy	
				SS, wh, fg, subrnd, w. srtd, tr. mica, gd ϕ, tr gas bubbles, no odor or fluor.	
				AA w/ pyr, few gas bubbles	
				Sh, gy, f. mica & carb mat	
1100				SS, mostly cg, subrnd to rnd, all loose grns, mod. srtg, clr qtz grns, v. gd ϕ, NS	
				SS, AA, vcg w/ some crs grn; hard streks are pyr	
				AA	
				SS, AA, cg, fr to w. srtd, sctrd sid cem & pyr	
				AA	
				AA	
1200				Sh, gy & sdy lam	
				AA	← Bit Trip
					McLOUTH 1238 (-291)
				SS, wh, fg, subrnd, w. srtd, mica, minor glauc., some sl lam., mostly gd ϕ, tr gas bubbles at top	
				AA, f-mg, no shale, NS	
				SS, wh, m-cg, subrnd, mod. srtd, mostly loose grns, some pyr., NS	
				Sh, grn-gy, prpl-gy & gy	
				Sh, lt. prpl-gy	
1300				SS, wh, f-mg, w. srtd, subrnd, fr intg ϕ, NS	BURGESS 1303 (-356)
				SS, m-cg, mod. srtd, subrnd, all loose grns, gd ϕ, NS	
					MISS. ST LOUIS 1329 (-382)
				LS, tan, foss, much is fxln, dns; some w/ f-mg oolite & coated grns, tight, NS	
				LS, tan, mg, rnd foss grns, tight, NS & LS, crm, vfxln, dns	
				tr org cht & oolite	
				LS, lt brn, mostly fxln, dns	
					SPERGEN 1381 (-434)
				Silty dol, tan, sucrosic, fxln, dns	RTD 1386 (-439)
1400					