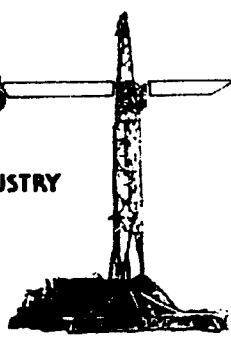


35-22-23W

Original (handwritten)

**GOOLSBY BROTHERS**
and associates, Inc.
CONSULTING GEOLOGISTS TO THE ENERGY INDUSTRY
Oil & Gas - Coal
1645 Court Place, Suite 303
Denver, CO 80202
(303) 893-1718



CONFIDENTIAL

ORIGINAL

GEOLOGICAL WELLSITE REPORT

MAXX PETROLEUM, LTD
BURIED HILLS PRODUCTION COMPANY

Oppy S. Billings #1

15-083-21453

SE-SE-NE Sec. 35, T22S, R23W
NW-NE-SE-NE
Hodgeman County, Kansas

KCC

MAR 3

CONFIDENTIAL

Mathew D. Goolsby
Consulting Geologist

RECEIVED
KANSAS CORPORATION COMMISSION

RELEASED

MAR 06 1998

APR 20 2001

CONSERVATION DIVISION
WICHITA, KS

FROM CONFIDENTIAL

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WELL DATA

ORIGINAL

OPERATOR: Maxx Petroleum LTD
(Buried Hills Production Co.)

WELL NAME: Oppy S. Billings #1

LOCATION: 1680' FNL, 430' FEL
Section 35, T22S, R23W
Hodgeman County, Kansas

FIELD: Oppy South (Mississippian Osage)
ELEVATION: G.L. 2231' K.B. 2241'

ROAD DIRECTIONS: From Jetmore, 5 miles east on Kansas 156, north 1/4 mile,
west 1/8 mile into location.

DRILLING CONTRACTOR: Duke Drilling, rig #4
TOOLPUSHER: Rich Wheeler

GEOLOGICAL WELLSITE SUPERVISION: Goolsby Brothers & Assoc., Inc.
GEOLOGIST: Mathew D. Goolsby Brothers & Assoc.

MUD ENGINEERING: Baroid, Ken Doehm
PROGRAM: Chemical-Gel

GEOPHYSICAL LOGGING: Logtech: DIL, CDL/CNL, BHV

HOLE SIZE: 12 1/4" to 1422'. 7 7/8" to total depth.
SURFACE CASING: 8 5/8" to 1423' w/ 265 sx.

SPUD DATE: 9 November 1997
DATE TD REACHED: 18 November 1997
TOTAL DEPTH: 5400' Driller

SAMPLE PROGRAM: 10 ft intervals 4350' to total depth.

BOTTOM HOLE FORMATION: Ordovician - Arbuckle
WELL STATUS: Water disposal well.

REMARKS: Ran 5 1/2" csg to 4950 for open hole Arbuckle disposal.

KCC

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MUD RECORD

DEPTH	WT	VIS	WL	PV	GEL	YP	pH	CHLOR
3833	8.7	40	12.8	--	--	--	11.1	1600
4174	9.1	42	12.8	14	8/16	10	10.5	4500
4627	9.3	52	11.2	16	10/22	14	10.0	2600
4822	8.7	93	11.2	20	15/20	25	10.5	4500
5300	8.7	64	11.2	20	6/24	17	10.0	3800

BIT DATA

<u>NO.</u>	<u>MAKE</u>	<u>TYPE</u>	<u>SIZE</u>	<u>DEPTH</u> <u>OUT</u>	<u>FEET</u> <u>MADE</u>	<u>HOURS</u> <u>RUN</u>	<u>REMARKS</u>
1	--	SM	12 1/4	784	784	9.5	RR
2	--	SM	12 1/4	1422	638	11.75	RR
3	WMC	52CHF	7 7/8	4885	3463	116.25	NEW
4	WMC	62CF	7 7/8	5400	515	21.5	

FORMATION TOPS

Elevations calculated using a KB elevation of 2241 feet.

FORMATION	LOG DEPTH	SUB-SEA
<u>PENNSYLVANIAN</u>		
Lansing Group	3831	-1590
Base Kansas City	4138	-1897
Marmaton Group	4220	-1979
Ft. Scott	4312	-2071
Cherokee Shale	4368	-2127
<u>MISSISSIPPIAN</u>		
Warsaw	4462	-2221
Osage porosity	4476	-2235
Gilmore City	4581	-2340
Viola	4701	-2460
<u>ORDIVICIAN</u>		
Arbuckle	4938	-2697

SAMPLE DESCRIPTIONS

SAMPLES DESCRIBED FROM LAGGED SAMPLES CAUGHT BY RIG HANDS
SAMPLE QUALITY FAIR. INITIAL LAG = 40 MINUTES.

Depth - Lagged

4360 - 4348 LS (60%) crm-lt gy, mudst-wkst, ip v foss, cln-arg, frm-hd, tite, n shows w/ SH (40%) lt-m gy, plty-blky, gen v lmy, ip slty

(4370) 4356 LS (70%) crm-occ lt gybrn, pred mudst, ip wkst, sl foss, gen cln & hd, tite, n shows; SH (30%) lt-m gy, blky-plty, lmy

(4380) 4364 LS (60%) crm-lt gy, mudst-wkst, bcmg sl-v arg, brit-frm, rr pin pt vugs, n shows w/ SH (40%) lt-m gy, blky, sl-v arg, rthy

Cherokee Shale

(4390) 4380 SH (50%) gy-dk gy, blky, ip lmy, occ blk & carb w/ LS (50%) aa

(4400) 4390 SH(60%) gy-dk gy, v dk gy, blky, sl-v lmy, ip slty, ip carb w/ LS (40%) offwh-gy, mudst, freq wkst, ip chky, ip mot w/ arg, brit, scat foss frags, brit, tt, n shows

(4410) 4399 SH (60%) gy-v dk gy, freq vdk gy & carb, ip lmy, blky; LS (40%) lt gybrn, gen mudst, p wkst, most hd & dns, ip arg, few foss frags, tt, n shows

(4420) 4409 aa, LS (40%) gy, mudst-wkst, pred v arg, ip slty, brit, tt, nsoc

(4430) 4419 LS (60%) crm, pred wkst, ip mudst, foss, occ intxl & vug por, n shows w/ SH aa

(4440) 4430 LS (50%) aa w/ SH (50%) gy, gybrn, blky, sl-v lmy

(4450) 4441 SH (50%) gy, occ dk gygn, lmy, rthy, blky w/ LS (50%) lt gy-gybrn, wkst, sl-v arg, ip slty, scat foss frags, tt, nsoc

(4460) 4450 LS (60%) crm-tan-gybrn, mudst, ip wkst, sl arg, few foss frags, tt, n shows w/ SH (40%) lt-m gy, occ mar-rdbm, ip slty

(4470) 4457 LS (60%) crm-gy, inc wkst, inc arg, tr dolie, brit, tt, n shows; SH (40%) lt-m gy, occ mot mar-rdbm, blky, gen v lmy

"Terra Rosa Sh"

(4480) 4462 SH (60%) lt gy-gygn, mar, blky, rthy, frm, ip lmy w/ LS aa

(4490) 4466 SH (70%) aa, inc mar w/ LS aa

Mississippian Warsaw

(4500) 4472 DOL (30%) lt tn, lmy, mic-vfxln, tr sdy, tr suc, rr cht, occ spots m brn stn, pred tt w/ n shows; SH (50%) aa & LS (20%)

(4510) 4476 aa, DOL inc chty, occ mot w/ lt-m brn stn, bri m y flor, slow hd strmg cuts

(4519) 4485 DOL (40%) crm, lt gy, sl-v lmy, sl chty, ip sdy, gen tt but scat suc w/ spots stn; SH (40%) & LS (20%) aa

Circulate samples @ 4519

Osage

- (20") 4499 DOL (50%) crm-tn, vf-fxln, s-v suc, v chty w/ clr-mlk wh cht, p-occ gd intxl & vug por, ptchy lt-m brn stn, sl ptchy bri m y flor, hd fast strmg cuts w/ 10% CHT mlk wh; 40% SH & LS
- (40") 4519 DOL (50%) crm, vf-fxln, pred suc, v chty, p-fr-occ gd intxl/vug por, ptchy lt brn stn, ptchy bri m y flor, mod strmg y cuts; CHT (30%) mlk wh; SH (tr) lt bri gn, plty, v dolie; 20% LS & SH aa
- (60%) 4519 aa w/ inc cavings & tr tripolitic CHT
- (4560) 4524 DOL (60%) crm-tn, vf-f-occ medxln, suc, ip v chty, fr-gd intxl & f vug por, rr sptty stn & cut, pred n shows, tr mot w/ gn SH; CHT (30%) mlk wh-lt gy & cavings (10%)
- (4570) 4529 aa, DOL (60%) inc vuggy, pred gd intxl/vug por
- (4580) 4541 DOL (70%) crm-tn, f-medxln, pred gd intxl & freq vug por, n shows, ip chty; CHT (20%) mlky wh, occ lt gy, tr tripolitic; cavings (10%)
- (4590) 4579 DOL (60%) crm-dk tn, f-medxln, gen suc, gd intxl por, freq vugs, most chty w/ CHT (40%) mlky wh, tr tripolitic

Gilmore City

- (4600) 4589 DOL (40%) aa w/ DOL (30%) lt tn, crm, vfxln, ip suc, v shty, few oolites, scat por, n shows w/ CHT (30%) mlk wh, ip tripolitic
- (4610) 4595 CHT (50%) mlky wh, ip foss, ip dolie; DOL (50%) aa
- (4620) 4608 DOL (50%) tn-gy, fxln, suc, scat foss "ghosts", fr-gd intxl & f-med vug por, good perm, n shows; CHT (50%)mlk wh, hd, tr foss & dolie
- (4630) 4618 DOL (60%) crm-v lt gy, vf-fxln, suc, ip sl arg, fr intxl por, nsoc w/ CHT (40%) aa
- (4640) 4623 CHT (50%) mlk wh, occ clr w/ DOL (40%) aa
- (4650) 4629 DOL (50%) crm, vf-fxln, freq suc, ip dns, occ intxl por, gen v chty w/ CHT (50%) mlky wh, clr, ip dolie
- (4660) 4633 aa, DOL freq mot w/ wh tripolitic CHT
- (4670) 4640 LS (40%) wh-crm, mudst-wackst, dolie, ip packst, v foss, sl chty, ip chky & arg, tr intxl/vug por, n shows; CHT (40%) aa & DOL (20%) aa
- (4680) 4647 LS (50%) gen aa, sl oolitic; CHT (30%) mlky wh, sl lmy/dolie; DOL (20%) crm, vfxln, occ fxln, chty, p suc por, n shows
- (4690) 4664 DOL (50%) clr gy-tn, f-medxln, fr-gd intxl por, looks perm, nsoc; LS (30%) aa & CHT (20%) mlky wh, occ clr
- (4700) 4678 DOL (70%) crm-tn, vfxln, gen suc w/ p-fr intxl por, ip sl arg; 30% LS & CHT
- (4710) 4699 DOL (70%) crm-dk tn, vf-inc fxln, suc, fr intxl por, occ vuggy, ip arg, nsoc w/ SH (10%) gybrn-gy, ip lt dull gn, v dolie, blk, rthy; LS & CHT (20%)

Viola

- (4720) 4706 DOL (70%) lt tn, vf-med xln, chty, scat intxl por, pred tt, nsoc; CHT (20%) mlky wh, sl dolie; 10% cavings
- (4730) 4710 DOL (70%) inc chty w/ CHT aa
- (4740) 4713 same
- (4750) 4721 DOL (60%) lt clrgy-tn, vf-freq medxln, v chty w/ clr-wh cht, p-fr intxl por, nsoc; CHT (30%) lt mlky gy-wh, hd; cavings (10%)
- (4760) 4730 DOL (70%) lt clr gy-lt tn, f-medxln, occ cxln, tr pyr incl, p-gd intxl por, nsoc, chty; CHT (30%) mlky wh, clr, dolie; tr cavings
- (4770) 4739 DOL (80%) lt clr gy-crm, f-cxln, sl chty, freq gd intxl/vug por, nsoc; CHT (20%)
- (4780) 4756 DOL (80%) lt clr gy-crm, f-cxln, ip vfxln, suc, tr chty, p-gd intxl/vug por, n shows; CHT (20%) wh, occ clr
- (4790) 4769 DOL (80%) crm-lt tn, vf-f-medxln, ip suc, freq chty, p-gd intxl & vug por, n shows; CHT (20%) wh, ip dolie

Lost Returns @ 4790, sample gap 4769 to 4790. Sample quality poor 4790 4830.

- (4820) 4799 DOL (60%) crm-lt gy, vf-fxln, ip suc, ip arg, p-fr intxl por, tr vugs, nsoc w/ SH (40%) vcol, pred lt gn, v dolie, frm (ip cavings)
- (4830) 4807 SH (60%) vcol, pred lt gn, blk, rthy, gen v dolie w/ DOL (40%) lt gybrn, mic-fxln, sl-v arg, gen tt, frm, n shows
- (4840) 4821 DOL (70%) lt tn, fxln, ip medxln, gen cln, fr intxl & scat vug por, n shows SH (30%) lt gn, sb splty-blky, sm-rthy, gen v dolie
- (4850) 4827 DOL (70%) gen aa, p-gd por, minor DOL lt gy, vf-fxln, sl arg, frm, tt, n shows; SH (30%) aa
- (4860) 4832 DOL (90%) tn-tngy, f-medxln, tr cxi, por varies p-v gd, intxl & vug por, few large vugs, some xln qtz lining & free dihedral qtz clumps, n shows; SH (10%)
- (4870) 4840 DOL (90%) lt tngy-tn, f-cxln, sl chty, p-v gd intxl & vuggy por, tr free qtz, nsoc; SH (10%) aa
- (4880) 4854 DOL (90%) lt tngy-tn, vf-medxln, p-gd intxl por, ip vuggy, ip chty, nsoc; 10% SH & CHT
- (4890) 4867 DOL (80%) tngy, tn, vf-fxln, occ medxln, ip arg, p por, ip tt, sl chty w/ CHT (10%) mlk wh-lt gy, dolie; SH (10%) *Sample lagged after trip!*
- (4900) 4875 DOL (90%) tngy-tn, vf-fxln, occ medxln, sl arg, ttgd intxl por, fw vugs, ip chty, n shows; CHT (10%) mlky wh *Sample lagged after trip!*
- (4910) 4883 DOL (90%) lt tn, vf-fxln, pred suc w/ p-gd intxl por, some arg & dns, nsoc w/ CHT (10%)
- (4920) 4901 DOL (90%) tn-tngy, vf-vcxln, p-gd intxl & vug por, ip arg, ip tt, n shows; CHT (10%) lt gy-wh

(4930) 4922 DOL (90%) lt tn gy, f-cxln, ip suc, freq fr-gd intxl & vug por, scat xln pyr, n shows w/ CHT (10%) aa

Simpson
(4940) 4930 DOL & CHT aa w/ SS (1%) lt-m gy, qtz, vf-fg, m-p srt, sbang-rd, v pyritic, carb incl, lmy mtrx, n vis por, frm, n shows

(4950) 4935 SS (2%) aa, occ mg, arg, tr frost grns; SH (1%) dk olive gn, tab, wxy; 95% DOL w/ CHT aa

(4960) 4939 same aa

Arbuckle
(4970) 4949 DOL (90%) lt tn, vf-fxln, scat medxln, p-fr intxl por, gen suc, occ vuggy, ip tt, ip gd por, nsoc; 10% CHT & SS

(4980) 4959 DOL (90%) lt tn-tn, f-medxln, scat vfxln, p-fr intxl por, tr gd por, ip tt, n shows; 10% cavings

(4990) 4970 DOL (90%) lt tn, occ pnk tn, f-med xln, p-fr intxl por, ip tt, patches wh cly mtrx fl, n shows

(5000) 4985 DOL (90%) lt tn-pnk tn, vf-f-medxln, p-fr intxl por, scat vugs, scat wh cly fl, n shows

(5010) 4994 DOL (90%) lt tn, pnk tn, f-medxln, p-fr intxl por, ip tt, nsoc

(5020) 5004 DOL (90%) bf-tn, f-medxln, p-gd intxl por, occ wh cly mtrx fl, nsoc

(5030) 5011 DOL (90%) aa, inc gd por

(5040) 5021 DOL bf-tn, dk tn, f-medxln, p-gd intxl por, fw vugs, occ arg incl, n shows

(5050) 5034 DOL bf-dk tn, f-med xln, pred p intxl por, occ fr-gd por, ip arg, nsoc

(5060) 5043 DOL bf-dk tn, most f-medxln, ip vfxln, p-gd intxl por, ptchy wh cly mtrx, n shows

(5070) 5050 DOL bf-tn, occ dk tn, f-medxln, ip vfxln, p-fr intxl por, scat gd intxl pot, fw vugs, nsoc

(5080) 5062 DOL bf-lt tn, f-medxln, inc fr-gd intxl por, ip p por, occ vugs, ip wh cly mtrx, nsoc

(5090) 5072 DOL bf, lt tn, fxln, ip medxln, p-gd intxl & vug por, ip arg, n shows

(5100) 5081 DOL crm-bf-tn, fxln, ip medxln, gen suc, p-fr-gd intxl por, fw vugs, some arg, nsoc

(5110) 5090 DOL bf-dk tn, f-medxln, p-gd intxl & vug por, ptches wh cly mtrx fl, occ tt, n shows

(5120) 5099 DOL bf-brn, f-medxln, ip suc, tt-gd intxl por, occ vugs, freq wh cly mtrx, nsoc

(5130) 5110 DOL bf-brn, f-medxln, p-gd intxl por, fw vugs, ip oolitic w/ occ gd oolicast por, n shows

(5140) 5125 DOL bf-dk tn, f-medxln, p-gd intxl por, scat vugs, ip oolitic & occ gd oolicast por, nsoc

(5150) 5134 DOL bf-brn, vf-medxln, ip suc, ip oolitic, p-gd intxl & vug por, some oolicast por, nsoc

(5160) 5143 DOL lt-dk tn, brn, f-med-cxln, p-fr intxl por, scat vugs, ptchy wh cly fl, n shows

(5170) 5153 DOL bf-tn, f-cxln, inc intxl & vug por, some oolicast por, nsoc

(5180) 5165 DOL bf-gybrn-brn, f-medxln, ip cxln, p-gd intxl/vug/oolicast por, n shows

(5190) 5173 DOL tn-gybrn, f-medxln, ip vf & cxln, fr-gd intxl & vug por, ip tt-p por, ip arg, nsoc

(5200) 5181 DOL aa, sl decr por

(5210) 5192 DOL bf-tn-brn, f-medxln, freq cxln, scat oolites, p-gd intxl & vug por, tr oolicast por, few large calcite xtals, n shows

(5220) 5201 DOL aa, freq v gd oolicast por

(5230) 5208 DOL bf-tn, gybrn, vf-medxln, p-fr-gd intxl por, fw vugs, scat wh cly fl, nsoc

(5240) 5217 DOL crm-tn, vf-f-medxln, occ vf-f oolitecasts, p-fr por, occ gd intxl por, nsoc

(5250) 5234 DOL crm-tn, vf-f-medxln, pred p intxl/vug por, occ fr por, tr chty, tr vugs, nsoc

(5260) 5243 DOL gen aa, scat oolicast por

(5270) 5257 DOL bf-brn, f-cxln, freq intxl & large vug por, some large rhombic calc xtals, n shows

(5280) 5264 DOL bf-tn-brn, vf-cxln, p-gd intxl por, com large vugs, ip tt, n shows

(5290) 5278 DOL bf-tn, f-medxln, ip cxln, fr-gd intxl por, freq vugs, occ large rhombic calc xtals

(5300) 5289 DOL bf-tn-gybrn, vf-cxln, p-gd intxl & vug por, ip vfxln & tt, ip w/ gd oolicast por, nsoc

(5310) 5396 DOL lt-dk tn, f-medxln, ip cxln, some intxl por, occ vugs & free calt xtals, freq tt mtrx, nsoc

(5320) 5308 DOL bf-dk tn, f-medxln, occ cxln, p-gd intxl & vug por, freq evidencx open vugs/fracs, n shows

(5330) 5319 DOL aa

(5340) 5329 DOL bf-tn, f-medxln, fr-gd intxl por, freq vugs, occ large rhombic calc xtals, n shows

(5350) 5337 DOL bf-tn, occ rose tn, f-cxln, p-gd intxl por, freq rhombic calc lining fr/ pores/fracs, nsoc

(5360) 5347 DOL bf-tn-gybrn, f-cxln, fr-gd intxl por, freq vugs, tr wh cly mtrx fl, nsoc

(5370) 5355 DOL bf-tn-brn, f-med-cxln, p-gd intxl por, freq pore/frac lining calc, n shows

(5380) 5365 DOL, aa, inc vuggy

(5390) 5376 DOL bf-tn, occ brn, f-cxln, p-fr-gd intxl por, com vugs & frac/pore lining calc xtals, n shows

(5400) 5387 DOL crm-tn, lt brn, vf-f-medxln, ip cxln, p-gd intxl por, freq vugs, tr oolicast por, nsoc

— Driller's TD @ 5400', last sample caught at total depth —