

MEDALLION PETROLEUM INCORPORATED
GRUND NO. 34-1
SE ~~SW~~ NE SEC. 34-T12S-R39W
WALLACE Co., KANSAS

WELLSITE GEOLOGY
by
RSAY ENTERPRISES
RANDY SAY - INDEPENDENT GEOLOGIST
WHEAT RIDGE, COLORADO

RECEIVED
STATE CORPORATION COMMISSION

AUG 21 1989

CONSERVATION DIVISION
Wichita, Kansas

JULY 23, 1989

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WELL DATA

OPERATOR: Medallion Petroleum Incorporated, Tulsa, OK
WELL NAME: Grund NO.34-1
FIELD NAME/PROSPECT: WILDCAT
LOCATION: 1980'fml 660'fel SE NE SEC.34-T12S-R39W, Wallace, Kansas
ELEVATION: 3414'-Ground; 3424'-KB.
SPUD DATE: 7/13/89.
COMPLETION DATE: 7/22/89.
STATUS: Plugged and abandoned, 7/22/89.
HOLE SIZE: 12.250"-390'- Surface; 7.825"- TD[5000'].
CASING: 8.625"-390'-Surface; No production casing run.
DRILL COLLARS/PIPE: 6.25"/4.50"
TOTAL DEPTH: 5000'(-1576')-Driller; 4998'(-1574')-Electric Log.
CONTRACTOR: Murfin Drilling Co., Rig NO.24, Wichita, KS
GEOLOGIST: Randy Say - RSay Enterprises.
ENGINEER: Mike Bassett, Consultant, Tulsa, OK
MUD COMPANY: MILPARK Drilling Fluids, Liberal, KS
MUD TYPE: NATIVE(SURFACE-4000'); GEL-CHEM[4000'-TD(5000')].
MUDLOGGING: Hotwire-Chromatograph, Monitored by Geologist.
DRILL STEM TEST: None
CORE: None
ELECTRIC LOGS: Halliburton Logging Services, Great Bend, KS
Engineer: Evans

LOGS RUN	INTERVAL
DIL-GR-SP	388'-4995'
AVL-GR	388'-4996'
SDL-DSNII-CAL-GR	3000'-4996'
MICROLOG	3000'-4996'

BIT RECORD

NO	MAKE	TYPE	SIZE	DEPTH OUT	FOOTAGE	HOURS	FT/HR	DEVIATION/DEPTH
1	STC	S33	12.250"	390	390	4.50	86.67	1.0 - 390"
2	HTC	ATJ05	7.825"	2700	2310	22.75	101.54	1.5 - 2700"
3	HTC	ATJ22	"	5000	2300	87.00	26.44	MIS RUN-5000"

ELECTRIC LOG FORMATION AND ZONE TOPS

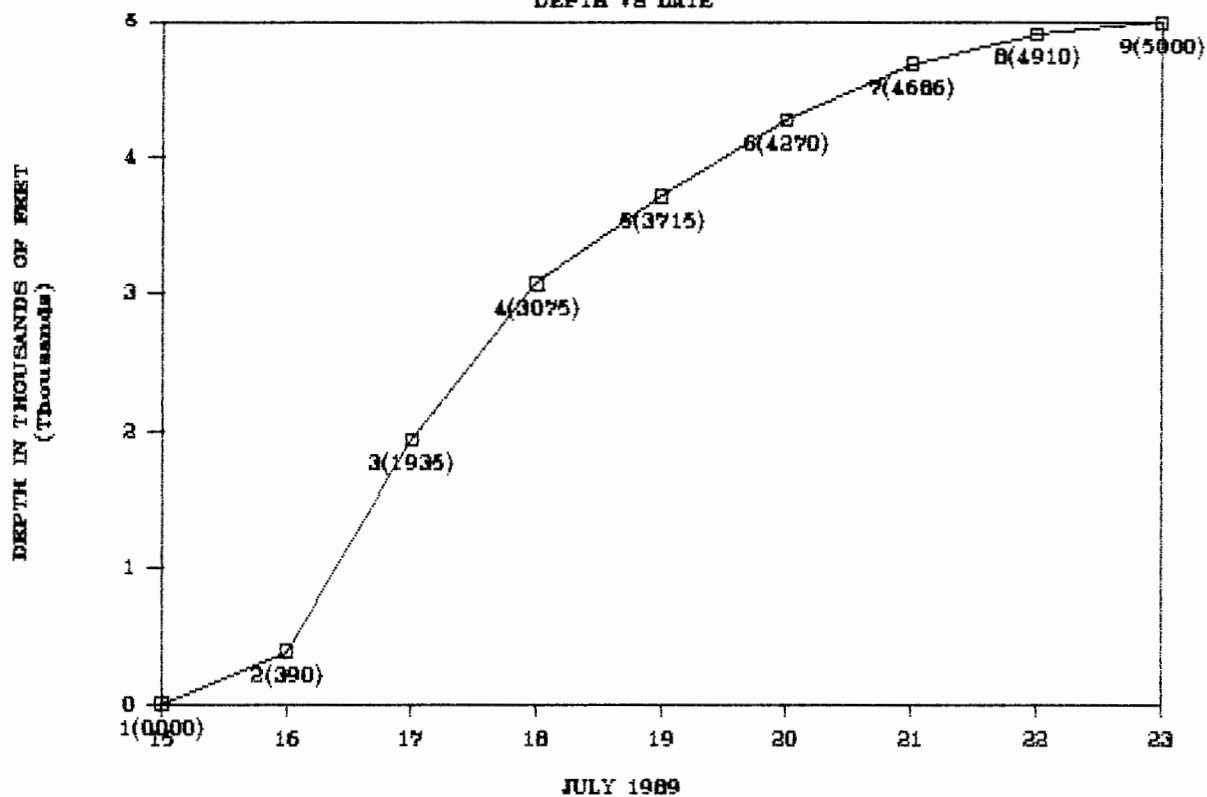
FORMATION/ZONE	DEPTH (FEET)	DATUM (KB-4446')
Quaternary Eolian Sand	Surface	----
Niobrara		
Fort Hays		
CodeII		
Dakota		
Morrison		
PERMIAN		
Day Creek		
Blaine		
Cedar Hills		
Stone Corral	2682	742
Stone Corral(BASE)	2710	714
Wellington Sand	NOT DEV	3424
Neva	3290	134
Foraker	3382	42
Virgil	3432	-8
Shawnee/Topeka	3758	-334
Heebner Shale	3986	-562
Toronto Limestone	4010	-586
Lansing Kansas City	4034	-610
Marmaton	4386	-962
-Pawnee Member	4410	-986
-Fort Scott Member	4492	-1068
Cherokee	4534	-1110
Atoka	4630	-1206
Morrow Shale(SONIC)	4740	-1316
Morrow Shale(STRAT)	4748	-1324
Morrow SS UPPER "A"	4748	-1324
Morrow SS "A"-BASE	4753	-1329
Morrow SS FUNK	NOT DEV	
Morrow SS (Arapahoe)	4836	-1412
Morrow SS (Arapahoe)BASE	4842	-1418
Lower Morrow/Keyes Lime	4858	-1434
MISSISSIPPIAN		
-St. Genevieve		
-St. Louis	4898	-1474
-Spergen		
TOTAL DEPTH(DRILLER)	5000	-1576
TOTAL DEPTH(STRAP)	5002	-1578
TOTAL DEPTH ELECTRIC LOG	4998	-1574

DAILY DRILLING CHRONOLOGY

DATE	DEPTH	24HR FOOTAGE	DRILLING ACTIVITIES
7/15	0000	0000	RIG up, Spud well w/NB1, Drlg Surf hole to 390', Circ & cond hole, Trip out, Run surf csg to 390' Cmt Csg, WOC.
16	390	390	Trip in w/NB2, Drlg, DS, Drlg.
17	1935	1545	Drlg. DS, Drlg.
18	3075	1140	Drlg, Trip for NB3 @ 2760, Drlg.
19	3715	640	Drlg. DS, Drlg.
20	4270	555	Drlg.
21	4685	415	Drlg. DS, Drlg.
22	4910	225	Drlg, CIRC FOR SMPLS, DRLG.
23	5000	90	Drlg, Reach TD[5000'] @ 8:30M; CIRC & COND Hole Trip out for ELOGS, Run ELOGS, W.O.O.

DAILY DRILLING CHRONOLOGY

DEPTH VS DATE



SHOW EVALUATION

The Medallion Petroleum, Inc. Grund NO.34-1 ESE NE SEC.34-T12S-R39W, Wallace Co., KSJ was drilled as a wildcat well with a primary objective of the Lower Morrow Arapahoe sand and secondary objectives of the Upper "A" Sand and the Middle Funk Sand. None of the Morrow Sands developed any shows of oil, gas, nor fluorescence and cut in the samples. The Upper "A" Sand was 5 feet thick [4748' (-1324') to 4753' (-1329')] and was very poorly developed and was observed in the samples mostly as un-

-----lited sand grains. See MORROW UPPER "A" SAND description given

ELECTRIC LOG OFFSET/CONTROL--WELL CORRELATION CHART

SUBJECT WELL

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API8815 RSHSG 1989-13		Medallion Petroleum Inc. Grund NO.1 34-1 1980'fml 660'fel SE NE SEC.34-T12S-R39W Wallace County, Kansas W/C Search II Prospect 7/23/89					
TIME STRAT	ROCK STRATIGRAPHIC	PROG	SAFL	DATH-RB 3424	E-LOG	DATH-RB 3424	THICK
	Quaternary Eolian Sand						
CRETACEOUS	Niobrara						
	Fort Hays						
	Codeill						
	Dakota						
JURASSIC	Morrison						
PERMIAN	PERMIAN						
	Day Creek						
	Blaine						
	Cedar Hills						
	Stone Corral				2682	742	
	Stone Corral (BASE)				2710	714	
	Wellington Sand				NOT DEU	3424	
	Neva				5230	154	
	Foraker				5582	42	
PENNSYLVANIAN	Difgii (STAGE)				5432	0	
	Shawnee/Topeka				5758	-554	
	Reedner (SH)				5886	-562	
	Toronto (CS)				4010	-585	
	Lansing Kansas City				4034	-610	
	Harnston				4586	-962	
	-Pawnee Member				4410	-985	
	-Fort Scott Member				4432	-1068	
	Cherokee				4534	-1110	
	Atoka				4630	-1206	
	Morrow Shale (SONIC)	4680			4740	-1316	
	Morrow Shale (STRAT)				4748	-1324	
	Morrow SS UPPER "A"				4748	-1324	5
	Morrow SS "A" BASE				4753	-1329	
	Morrow SS FUNK				NOT DEU		
	Morrow SS (Arapahoe)	4750			4856	-1412	6
	Morrow SS (Arapahoe) BASE				4842	-1418	
	Lower Morrow/Reyes Line	4810			4858	-1454	
MISSISSIPPIAN	St. Genevieve						
	St. Louis	4880			4898	-1474	
	Spergen						
	TOTAL DEPTH (DRILLER)	5000			5000	-1576	
	TOTAL DEPTH (STRAT)				5002	-1578	
	TOTAL DEPTH (ELECTRIC LOG)				4998	-1574	

SHOW EVALUATION

LANSING KANSAS CITY 4034' (-610').SHOW NO.3 4344'-4354' (10') (-920').

LITHOLOGY:LS mot brn-mgy-bf xfxl-litho fri-mfir mfos w/chk mtrx occ
dolo strgs pyr.

POROSITY: P-FR(occastic).

OIL STAIN:None.

FLOR: 10-20% myel.

CUT: tr-10% mot myel.

RESIDUE: None.

MARMATON 4386' (-962').SHOW NO.4 4394'-4404' (10') (-970').

LITHOLOGY:LS brn-mgy mot firm-mfri vfos w/sl chky mtrx pyr dolo ls strgs
shly.

POROSITY: Fr-occ G(oomold).

OIL STAIN:None.

FLOR: 10% myel.

CUT: TR-10% myel mot.

RESIDUE: None.

MORROW SHALE (SONIC) 4740' (-1316').MORROW "A" SAND 4748' (-1324') TO 4753' (-1329') [5' THICK].

LITHOLOGY:SS clr-wh uncon-occ rare tr clus firm cmted; f-uvfg sbd occ
wert sxn vshly occ pyr on clus; scat carb mat on uncon
grs, very poorly dev, no good sand body developed.

POROSITY: Good to very tight to unknown(uncon grs).

OIL STAIN:None.

FLOR: None.

CUT: None.

RESIDUE: None.

ARAPAHOE SAND ZONE 4836' (-1412') TO 4842' (-1418') [6' THICK].

LITHOLOGY:SS mlky-wh-occ pale yel gra; f-m-occ cq; uncon-occ fri-firm
clus cmted w/ls & calc; sbd-ang; pert; vvshly sxn & occ
lmy ss intbd w/in zone; occ scat glau grs; scat vf dissem
pyr w/in mtrx.

POROSITY: Nil to vtt w/occ tr fr Ø.

OIL STAIN:None.

FLOR: Very rare tr pale yel flor, probably mineral flor.

CUT: None.

RESIDUE: None.

LITHOLOGY

3500-3560 SH mot mgy-mar-ltgy vvsft-mushy plty arg slty occ bent sl
calc, w/occ LS strgs crm-mgy gran vvhky slpyr, tr pyr &
occ anhy.

3560-3620 SH aa incr vvelty sldolo w/intbd slty LS aa, tr calc & anhy.

3620-3670 SH mot ltgy-mar-pale tan sft-mushy blk-pty arg slcalc w/
LS strgs crm-mgy gran vvhky pyr, tr calc & anhy.

3670-3758 SH aa w/LS mot bf-ltgy gran-litho vvfri vchky slfos w/chk
mtrx slpyr sldolo Ø-p nsfoc w/occ tr pyr & anhy.

SHAWNEE/TOPEKA 3758' (-334').

3758-3800 LS tan-mgy fri arg vvcarb cal cmted w/SH strgs mgy-mar sft
blk bent slcalc, tr calc anhy.

3800-3856 SHOW NO.1 DOL mot tan-bf-crm fri-firm pred gran text w/occ
xfxl mtrx sl lmy dolo w/occ scat carb mat; Ø-fr-occ g;
oilstn-none; flcr-10% myel; cut-tr-10% mlky cut.

3856-3890 LS mot mgy-bf-crm litho-gran fri-firm slfos w/chk mtrx
occ pyr slchky incr dolo strgs intbd Ø-fr-tt nsfoc w/
SH lgy-mar sft carb slty slcalc, tr calc.

3890-3930 LS aa slty sldolo pyr w/SH strgs aa, tr calc & pyr.

3930-3986 LS tan-bf xfxl fos w/calc infill slpyr nsfoc w/SH lt-dkgy
firm blk arg slcarb slcalc, tr pyr & calc.

HEEBNER SHALE 3986' (-562').

3986-4010 LS tan-bf aa vvhky slpyr w/SH strgs aa, tr pyr & calc.

TORONTO LIMESTONE 4010' (-586').

4010-4034 LS mot bf-ltgy-gybrn xfxl-litho fri-firm mfos w/chk mtrx sl
dolo w/occ scat pyr Ø-p nsfoc w/SH lt-dkgy sft plty arg
slcalc, tr pyr & calc.

LANSING KANSAS CITY 4034' (-610').

4034-4046 SHOW NO.2 LS atn-ltgy gran-litho vfri-mfirm mfos w/calc in-
fill & occ tr ool text; Ø-p-fr; oilstn-none; flcr-10% pale
yel; cut-10% mlky slow diffuse; res-none.

4046-4110 LS tan-occ dkgy microxl-litho occ hd text dolo nsfoc w/SH
bk-ltgy-gybrn sft plty arg vcarb slcalc, tr pyr & calc.

4110-4170 LS aa w/SH strgs aa, tr pyr.

4170-4190 LS tan-mgy-bf xfxl-litho fri arg vvhky slpyr fos w/chk mtrx
sldolo ls nod Ø-p nsfoc w/SH bk-ltgy firm blk slty slcalc.

LITHOLOGY

4190-4240 LS mot ltgy-bf xfxl firm mfos w/chk mtrx w/pyr w/in mtrx Ø-p
nsfoc w/SH strgs bk-gybrn sft plty carb slcalc, tr pyr.

4240-4280 LS aa mfos chky mtrx slpyr nsfoc w/SH strgs aa, tr pyr.

4280-4344 LS mot tan-dkgy litho-xfxl fos w/chk mtrx slpyr nsfoc w/SH
bk-ltgy firm bkly slty sldolo, tr calc.

4344-4356 SHOW NO.3 LS mot brn-mgy-bf xfxl-litho fri-mfirm mfos w/chk
mtrx occ dolo strgs pyr; Ø-p-fr; oilstn-none; flor-10-20%
myel; cut-10% immed slow strm; res-none.

4356-4386 LS aa incr fos w/calc infill slpyr occ scat carb mat nsfoc w/
SH strgs lt-mgy sft bkly carb slcalc, tr calc.

MARMATON 4386' (-962').

4386-4394 LS mot tan-brn-mgy xfxl-litho fri-firm mfos w/chk mtrx slpyr
Ø-fr-p nsfoc w/SH strgs aa, tr pyr.

4394-4410 SHOW NO.4 LS brn-mgy mot firm-mfri vfos w/ sl chky mtrx occ
shly; Ø-fr-occ q; oilstn-none; flor-10% myel; cut-tr-10%
myel mot; res-none.

PAWNEE MEMBER 4410' (-986').

4410-4492 LS mot tan-mgy-brn xfxl-litho fri-firm mfos w/chk mtrx slpyr
& occ tr cht Ø-fr-tt SH bk-ltgy sft carb slcalc.

FORT SCOTT MEMBER 4492' (-1068').

4492-4534 LS mot brn-tan microxl-litho fri-firm mfos w/chk mtrx slpyr
nsfoc w/SH strgs bk-gybrn sft plty arg vvcarb slcalc.

CHEROKEE 4534' (-1110').

4534-4560 LS aa incr dolo slsly Ø-fr-p nsfoc w/SH strgs aa, tr pyr &
tr cht.

4560-4590 LS mot crm-brn-mgy xfxl-litho fri-mhd dns pyr w/intbd dolo
strgs and SH bk-gybrn sft carb slcalc.

4590-4630 LS tan-ltgy occ brn fos w/calc infill slpyr dolo w/intbd
dolo strgs w/SH strgs aa, tr pyr & cht.

ATOKA 4630' (-1206').

4630-4680 LS mot tan-brn-mgy xfxl-microxl mhd dns-fri fos w/chk mtrx sl
pyr chty w/intbd SH bk-gybrn vvcarb slcalc, tr pyr & cht.

4680-4740 LS aa incr shly fos w/calc infill pyr w/SH strgs bk-ltgy sft
carb slty slcalc, tr pyr & cht.

LITHOLOGY

MORROW SHALE (SONIC) 4740' (-1316').

4740-4748 SH ltgy-bk-mgy sft plty arg vvcarb occ sldolo w/occ ls and abnt pyr.

MORROW SHALE (STRAT) AND UPPER "A" SAND 4748' (-1324').

4748-4753 "A" SAND SS clr-wh vf-fg uncon-occ fri clus sbrd wst calc cmted clus Ø-p-tt nsfoc w/SH strgs aa, abnt pyr.

BASE "A" SAND 4753' (-1329').

4753-4836 SH incr gygn-pale gn-mot dkgy-bk sft-firm plty-splin occ fis arg carb slty slcalc w/occ ls strgs, abnt pyr in fos casts, occ tr uncon ss grs.

ARAPAHOE SAND 4836' (-1412').

4836-4842 SS mlky-wh-occ pale yel grs uncon-occ fri-firm clus cmted w/ calc & occ sil cmt; sbrd-ang pert vshly exn occ scat glau grs in zone; scat vf dissem pyr in mtrx; Ø-tt-occ fr; nsfoc.

4842-4858 SH gybrn-mgy-ltgy sft-firm plty fis arg vvcarb slty slpyr occ w/sltst strgs tr pyr & calc w/occ sdy LS and thin ss strgs, abnt pyr.

LOWER MORROW 4858' (-1434').

4858-4898 LS mot brn-mgy-bf xfxl-litho fri-firm mfos w/chk mtrx slpyr occ dolo nsfoc w/intbd Sh strgs aa, LS occ vvedy.

MISS (ST. LOUIS) 4898' (-1474').

4898-4930 LS mot brn-mgy-crm xfxl-litho fri-mfirm mfos w/calc infill slpyr calc infill tr ool zones Ø-p nsfoc w/intbd DOL incr brn gran fri suc pyr and Sh strgs bk-ltgy sft plty carb slcalc, abnt pyr tr cht.

4930-5000 LS aa incr slty fos w/chk mtrx slpyr w/incr amt DOL strgs aa suc tan pyr and SH strgs bk-ltgy sft vvcarb simica occ slty, abnt pyr tr cht.

TOTAL DEPTH (DRILLER) 5000' (-1576').
