



00494831

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## WELL DATA

OPERATOR: Mustang Oil and Gas Corporation, Wichita, KS.

WELL NAME: Bledsoe No.7-12.

FIELD NAME/PROSPECT: Speaker Field- Developmental.

LOCATION: 1500'fml 2300'fel SW NE SEC.12-T12S-R51W,  
Cheyenne Co., CO.

ELEVATION: 5025'-Ground; 5035'-KB.

SPUD DATE: 6/9/93.

COMPLETION DATE: 6/26/93.

STATUS: Production casing run 6/26/93.

HOLE SIZE: 12.250'- 325'(Surface); 7.825"-TD[6670'].

CASING: 8.625"-300'-Surface; 5.50"-TD[6670']-Production casing.

DRILL COLLARS/PIPE: 6.25"/4.50".

TOTAL DEPTH: 6670'(-1635')-Driller; 6670'(-1635')-Electric Log.

CONTRACTOR: Quantum Drilling Co., RIG NO.4, Holdenville, OK.

GEOLOGIST: Randy Say-RSay Enterprises.

ENGINEER: Jerry Pritchard- Mustang- Great Bend, KS.

MUD COMPANY: Johns Mud Service, Holdenville, OK.

MUD TYPE: NATIVE (SURFACE-4000'); GEL-CHEM{4000'TD(6670')}]

MUDLOGGING: Hotwire manned by wellsite geologist.

DRILL STEM TEST: DST NO.1 6320'-6560'(240')-Morrow V11 Sand.

CORE: None.

ELECTRIC LOGS: BPB Wireline Services, Liberal, KS.

Engineer: Mr. Dan.

LOGS RUN	INTERVAL
DSI-PDS-SP	309'-6608'
FDS-FDR-GR-CAL	NOT RUN
PDS-BCA-GR	309'-6577'

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## BIT RECORD

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NO	MAKE	TYPE	SIZE	DEPTH OUT	FOOTAGE	HOURS	FT/HR	DEVIATION/DEPTH
1	REED	HP-11	12.250	325	325	5.00	65.00	0.50-325'
2	HTC	ATJ05	7.825	3547	3222	75.25	42.82	1.00-3547'
3	HTC	ATJ11C	"	5561	2014	113.5	17.74	0.75-5561'
4	HTC	ATJ22S	"	6670	1109	78.75	14.08	1.00-6670'

## ELECTRIC LOG FORMATION AND ZONE TOPS

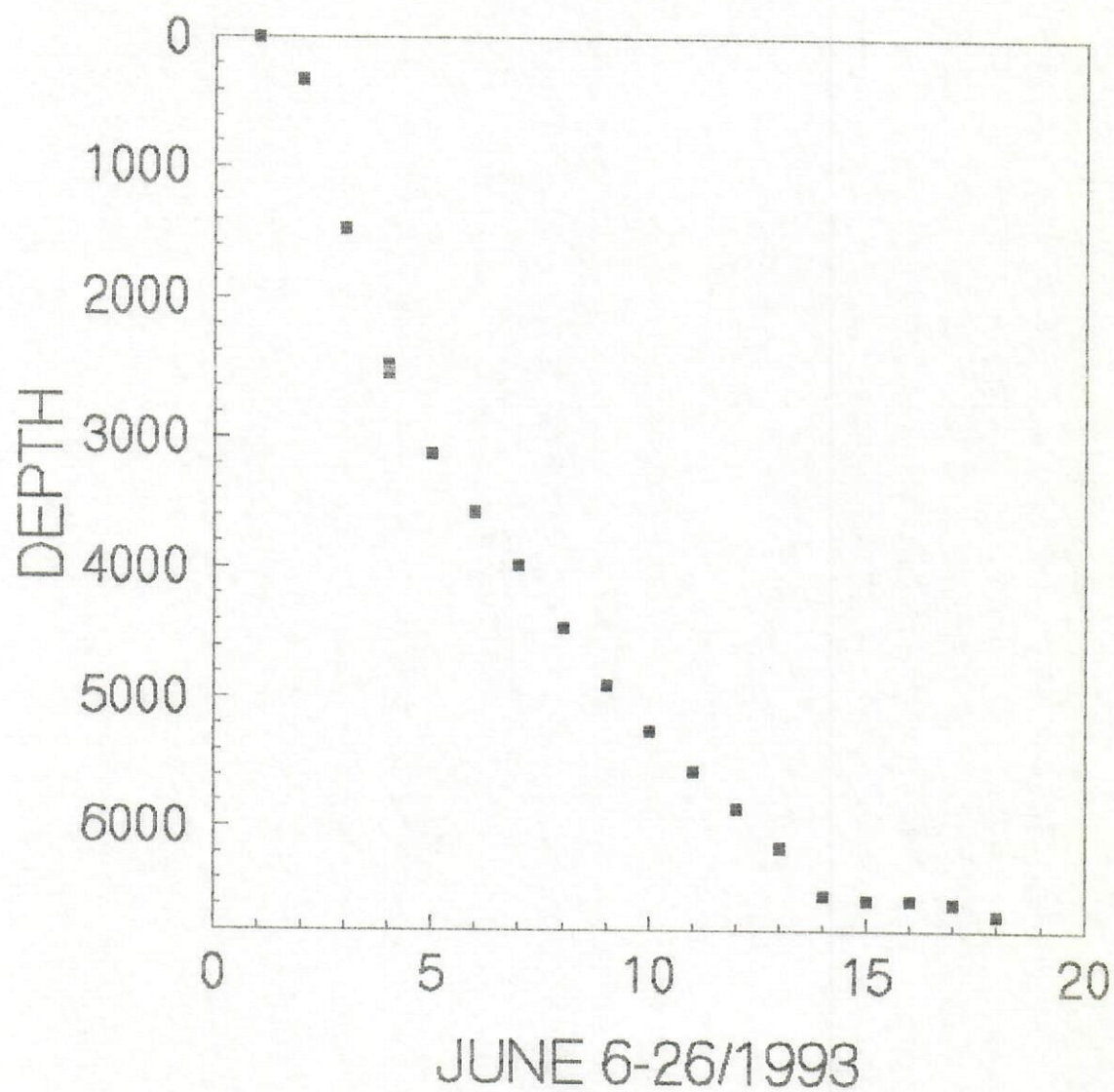
FORMATION/ZONE	DEPTH (FEET)	DATUM (KB-5035')
Fort Hays	2318	+2717
Dakota	2778	+2257
Morrison	3064	+1971
PERMIAN	3594	+1441
Blaine	3868	+1167
Stone Corral	4164	+ 871
Stone Corral-BASE	4195	+ 840
Neva	4794	+ 241
Foraker	4876	+ 159
Virgil	5082	- 47
Shawnee/Topeka	5141	- 106
Heebner Shale	5352	- 317
Toronto Limestone	5380	- 345
Lansing Kansas City	5404	- 369
Marmaton	5644	- 711
-Pawnee Member	5746	- 771
-Fort Scott Member	5806	- 819
Cherokee	5854	- 867
Atokan Marker(SONIC)	6127	-1092
Morrow Shale (SONIC)	6352	-1317
Morrow Shale (STRAT)	6388	-1353
V5 Valley Fill	6443	-1408
V5 Sand	6446	-1411
V5 Sand-BASE	6460	-1425
V11-13 Valley Fill	6546	-1511
V9 Valley Fill	6551	-1516
V11-13 Valley Fill	6560	-1525
Lower Morrow(SONIC)	6576	-1541
Lower Morrow(STRAT)	6592	-1557
MISS-St. Louis-SAMPLE	6630	-1595
TOTAL DEPTH(DRILLER)	6670	-1635
TOTAL DEPTH(ELECTRIC LOG)	6610	-1575



## DAILY DRILLING CHRONOLOGY

DATE	DEPTH	24HR FOOTAGE	DRILLING ACTIVITIES
6/9	0000	0000	RIG Up, Spud well w/NB1[12.250"], Drlg surf hole to 325', Circ and Cond Hole, Run surf csq 8.625" to 300', Cmt csq, W.O.C.
10	325	325	Drlg Cmt w/NB2[7.825"], Drlg, DS, Drlg.
11	1470	1145	Drlg, DS, Drlg.
12	2510	1040	Drlg, DS, Drlg.
13	3120	610	Drlg, DS, Drlg.
14	3575	455	Drlg, TOOH for NB3 @ 3547', TIH, Drlg.
15	3980	405	Drlg.
16	4460	480	Drlg, DS, Drlg.
17	4900	440	Drlg, DS, Drlg.
18	5250	350	Drlg.
19	5561	311	Drlg, TOOH for NB4 @ 5561', TIH, Drlg.
20	5850	289	Drlg, DS, Drlg.
21	6150	290	Drlg.
22	6520	370	Drlg, DS, Drlg.
23	6560	40	Drlg, CFS @ 6560, TOOH for DST No.1[6320-6560] Run DST NO.1, TOOH & Lay Down DST Tools.
24	6560	0000	TIH w/rrNB4, Lost Circ on trip in, Trip out to Regain Circ, Bit plugged, TOOH to unplug bit.
25	6580	20	Unplug Bit and Drill Collars, TIH, Circ & Cond Mud, Regain Circ, Drlg.
26	6670	90	Drlg, Reach TD[6670'] @ 1:30PM, Circ & Cond Mud TOOH for ELOGS, Run ELOGS, W.O.O., Production Casing Run 6/26/93.

# BLEDSOE NO.7-12





RC6936  
RSWSG 1993-6

Mustang Oil and Gas Corporation  
Bledsoe NO. 7-12  
1500' fnl 2300' fe1  
SW NE SEC. 12-T12S-R51W  
Cheyenne Co., CO  
Speaker Field-DEV 6/26/93

TIME STRAT	ROCK STRATIGRAPHIC	PROG	SMPL	DATUM-RB	ELOG	DATUM-R 5035
=====	=====	=====	=====	=====	=====	=====
	QUATERNARY EOLIAN SAND				SURF	
CRETACEOUS	NIobrara					
	FORT HAYS	2336			2316	2717
	COBELL				2396	2645
	DAKOTA	2766			2775	2257
JURASSIC	MORRISON	3676			3664	1671
PERMIAN	PERMIAN	3566			3554	1441
	DAY CREEK				3666	1347
	BLAINE	3676			3666	1167
	CEDAR HILLS				4078	957
	STONE CORRAL	4150			4164	871
	STONE CORRAL (BASE)				4195	846
	WOLFCAMP				4450	585
	NEVA	4756			4754	241
	FORAKER	4876			4876	159
PENNSYLVANIAN	VIRGIL (STAGE)				5082	-47
	SHAWNEE/TOPEKA	5145			5141	-166
	TOPEKA "C"				5318	-263
	REEBNER SHALE	5356			5352	-317
	TORONTO LIMESTONE				5366	-346
	LANSING KANSAS CITY	5395			5404	-369
	DESMOINESIAN MARKER				5644	-609
	MARMATON	5755			5746	-711
	-PAWNEE MEMBER-Zndary				5866	-771
	-FORT SCOTT MEMBER-Zndary				5854	-819
	CHEROKEE	5916			5902	-867
	ATOKAN MARKER (SONIC)	6125			6127	-1092
	ATOKA (13 FINGERST) (STRAT)				6169	-1134
	MORROW SHALE (SONIC)	6366			6352	-1317
	MORROW SHALE (STRAT)	6396			6366	-1353
	(U57) BLED SOE VALLEY FILL				6443	-1468
	(U57) BLED SOE SS				6446	-1411
	(U57) BLED SOE SS-BASE				6466	-1425
	(U57) BLED SOE VAL FILL-BASE				6476	-1435
	(U77) BLED SOE VALLEY FILL					
	(U77) BLED SOE SS	6466				
	(U77) BLED SOE SS-BASE					
	(U77) BLED SOE VAL FILL-BASE					
	(U57) VALLEY FILL					
	(U57) SS	6515				
	(U57) SS-BASE					
	(U57) VALLEY FILL-BASE					
	(U11-13) VALLEY FILL				6546	-1511
	-PILGER "A" SS	6546			6551	-1516
	-PILGER "A" SS-BASE				6566	-1525
	-PILGER "B" SS					
	-PILGER "B" SS-BASE					
	(U11-13) VALLEY FILL-BASE				6562	-1527
	LOWER MORROW LIMESTONE (SONIC)	6576			6576	-1541
	LOWER MORROW LIMESTONE (STRAT)				6592	-1557
MISSISSIPPIAN	ST. LOUIS	6646	6636	-1595		
	SPERGEN-SAMPLE					
	TOTAL DEPTH (DRILLER)	6676			6676	-1635
	TOTAL DEPTH (STRAT)					
	TOTAL DEPTH (ELECTRIC LOG)				6616	-1575



## OFFSET/CONTROL WELL NO. 1

Mustang Oil and Gas Corp  
Bledsoe No. 3-12  
650' x 11 1/2" x 12 1/2"  
NE NW SEC. 12-T12S-R51W  
Cheyenne Co., CO  
Speaker Field-DEV PROD

THICK	ELEV NO. 1	DIFF. NO. 2	E-LOG	DATA	THICK
			SURF		
			1046	0205	
			2004	2005	
			2406	2615	
			2622	2205	
			3606	1954	
			3606	1422	
			3606	1255	
			3604	1155	
			4105	545	
31			4103	855	33
			4225	805	
			4475	574	
			4622	255	
			4604	145	
			5105	-54	
			5105	-114	
			5545	-254	
			5505	-254	
			5407	-355	
			5402	-355	
			5503	-515	
			5575	-725	
			5505	-754	
			5505	-834	
			5502	-855	
			6155	-1154	
			6105	-1124	
224	15		6505	-1355	214
155	17		6422	-1575	155
14					
			6454	-1452	
			6454	-1442	14
			6505	-1455	
			6554	-1512	
5	4		6572	-1535	17
	12		6555	-1537	
			6554	-1542	
	5		6552	-1555	
			6555	-1555	
	5		6555	-1554	
			6574	-1522	
			6555	-1525	
			6555	-1525	



The Mustang Oil and Gas Corporation Bledsoe No.7-12 [SW NE SEC.12-T12S-R51W, Cheyenne Co., CO] was drilled as a wildcat well in the Speaker Field, in the Las Animas Arch, Colorado.. The main offset/control well was Mustang Oil and Gas Bledsoe No.3-12 [NE NW SEC.12-T12S-R51W], a well producing from the V11 Sand, the primary objective. The primary objectives were the Pennsylvanian Morrow Valley Fill Sands, in addition to the Shawnee/Topeka, Lansing Kansas City, Marmaton, and the Mississippian St. Louis Formations. In the primary objective section, a very poorly developed Morrow V5 Sand section was tight with no shows [6446'-6460/14' feet thick]. Production casing was run after testing and evaluation of the V11 Sand [6551'-6560'(-1516')/9 feet thick]. DST NO.1 [6320'-6560'(240')] tested the Bledsoe NO.7-12 V11 Sand and recovered 2084 feet of oil with no water or mud. The test results were similar to the oil recovery of the Bledsoe No.3-12 oil recovery [2220']. Although the Bledsoe No.7-12 V11 Sand was 9 feet thick, versus the 17 feet of the Bledsoe No.3-12, the sands very were similar in lithological/show characteristics. The Bledsoe No.7-12 V11 Sand was a white to clear, medium to coarse grained, subangular, moderatley sorted, and predominately unconsolidated sand [80%-uncon versus 20% clusters]. Because of the 80 percent unconsolidated grains, the sample shows were subtle but still up to 70 percent of the sand in the form of medium to pale yellow, with the clusters increasing in intensity to bright yellow. The Bledsoe No.7-12 V11 Sand porosity was good to excellent [increasing with coarser unconsolidated grains]. It should be noted that the Neutron/Density log was not run due to adverse hole conditions, after the induction and sonic log combination could not reach the driller total depth of 6670 feet. The electric logs reach at depth of 6610 feet and could not get past a bridge at that point. The decision was made not to risk running the Neutron/Density log after it could not get past the 1300 foot depth even after a cleanup run with the pipe. Since DST No.1 recovered a similar amount of oil and pressures were similar, with the samples/shows very similar to the Bledsoe No.3-12, that the decision was made to run production casing without attempting to run the neutron/density log.. For a more detailed description of the V11 Sand, see MORROW V11 SAND below on Page 7.

Structurally, the Bledsoe NO.7-12 [SW NE SEC.12-T12S-R51W] was 4 feet high to the reference offset/control well the Mustang Bledsoe NO.3-12 [NE NW SEC.12-T12S-R51W] at the top of the Morrow V11 Sand. The Bledsoe NO.7-12 Morrow V11 Sand was 6551'(-1516') versus the Bledsoe NO.3-12 V11 Sand top 6572'(-1520'). The other potentially productive zones, the Pennsylvanian Lansing Kansas City, and Marmaton, and Mississippian St. Louis developed three shows. None of the shows were tested either before or after electric logs were run. See shows NO.1-3 listed below.

LANSING KANSAS CITY 5406'(-371')

SHOW NO.1 5522'-5532'(10')(-487').

LITHOLOGY:LS tan-mgy-occ crm xfxl-occ gran vvfri-mfri vfos w/chk mtrx  
slsly & pyr occ ool text; occ sldolo ls intbd.

POROSITY: Pred G-occ EX(gran-ocastic).

OIL STAIN:None.

FLOR: 20% mot myel-occ briyel.

CUT: 20% slow diffuse myel-mlky cut.

RESIDUE: Pale yel flor res.



MARMATON 5750'(-715').

PAWNEE MEMBER 5810'(-775').

SHOW NO.2 5824'-5832'(8')(-789').

LITHOLOGY:LS mdolo ltgy-bf-tan xfxl-gran fri-mfirrm fos chky slslyt pyr.

POROSITY: Pred Fr-occ G.

OIL STAIN:None.

FLOR: 10% mot myel.

CUT: 10% ltyel-mlky diffuse crush cut.

RESIDUE: None.

FORT SCOTT MEMBER 5864'(-829').

SHOW NO.3 5864-5876'(12')(-829').

LITHOLOGY:LS mot tan-brn-mgy xfxl-occ gran vvfri-mfri mfos w.chk mtrx  
slool & occ gran & dolo slslyt pyr.

POROSITY: FR-occ G(gran-oomold).

OIL STAIN:Trace tan saturated oilstn, No "live" oil.

FLOR: 20% myel.

CUT: 20% mlky-myel slow diffuse cut.

RESIDUE: Pale yel flor res.

MORROW SHALE(SONIC) 6358'(-1323').

MORROW V11 SAND 6546'(-1511') to 6566'(-1531')- 20 FEET THICK]- ELOG.

LITHOLOGY:SS wh-clr pred m-cq(base) w/vf-fq strq @ top; pred uncon grs-80%  
w/fri-firm clus(20%); sbang-occ sbrd(fq); msrt; pred silcmt  
in fq clus & cq sand @ base zone; occ tr qtz ovrqths(cq); fq SS  
@ top has tr of calc cmt; MTRX-overall clean w/tr kao & pyr as  
very finely dissem; sh prtgs & carb mat @ very top & bottom of  
zone; the top of the sand has a thin vf-fq lightly cmted strq  
of sand grading into the main m-cq sequence.

POROSITY: Pred G-EX(uncon m-cq sand), decr with fq cmted clus to FR  $\phi$ .

OIL STAIN:No visible oil stain.

FLOR: 70% myel-pale yel flor on uncon grs incr to m-occ briyel in  
clus with occ 2 or 3 grain cluters having briyel flor.

CUT: 70% slow diffuse pale yel flor on uncon grs incr to briyel in  
cmted clus.

RESIDUE: M-pale yel flor res, no visible oil residue stain in dish.



DRILL STEM TEST

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DST NO.1 6320'-6560'(240')-CONVENTIONAL TEST/ MORROW V11 SAND.

Western Testers, Wichita, KS; Mike Shubert-Tester.

TIMES: 10 60 90060.

IO:10min;Open with strong blow to bottom of bucket in 5 MIN.

ISI:60MIN.

FO: 90 MIN-Open with strong blow, gas to surface in 25 MIN.

FSI:60MIN.

RECOVERY:2084'-TOTAL PIPE FLUID RECOVERY; 2084'-Oil, No water or mud.  
31API Gravity Oil, corrected to 60F.

PRESSURES: IHP=3329; IFP=677-697; ISIP=1055; FFP=727-896; FSIP=1045  
FHP=3299; BHT=180F.

SAMPLER: 3150cc-TOTAL SAMPLER VOLUME; 3150cc-OIL, No water or mud.  
80cc-Gas @ 650psi; BHT=180F. Oil API Gravity=35API @ 60F.

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## LITHOLOGY

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LANSING KANSAS CITY 5404'(-369').

5500-5522 LS ltan-qy xfxl-litho fri vvchky slfos occ slty ø-p-tt nsfoc w/SH mqy-bk sft plty carb slcalc.

5522-5532 SHOW NO.1 LS tan-mqy-occ crm xfxl-occ gran vvfri-mfri vfos w/chk mtrx slsly & pyr occ ool text sldolo ls ø-pred G-occ EX gran-oocastic); OILSTN-None; FLOR-20% mot m-occ briyel; CUT-205 slow mlky diffuse myel-mlky cut; RES-Pale yel flor res.

5532-5580 LS aa incr slty & chky ø-p nsfoc w/SH mot bk-lqy-qybrn-mar sft blky vcarb arq slcalc, tr pyr & calc.

5580-5610 LS tan-mqy xfxl firm mfos w/chk mtrx slpyr & occ dolo ø-p-tt nsfoc w/SH aa.

5610-5644 LS aa incr fos w/chk mtrx slfos pyr ø-p-fr nsfoc w/SH aa.

## DESMOINESIAN MARKER 5644'(-609').

5644-5670 LS mot brn-tan-mqy xfxl-litho fri-mfirm fos slty slpyr dolo ø-p-incr fr nsfoc w/SH bk-ltqy sft vcarb slcalc.

5670-5730 LS tan-dkqy-brn microxl-xfxl firm mfos w/calc infill slpyr dolo ø-p-occ fr nsfoc w/SH bk-ltqy sft plty carb, tr pyr.

5730-5746 LS aa nsfoc w/SH aa, tr pyr & calc.

## MARMATON 5746'(-711').

5746-5780 LS mot brn-mqy-tan xfxl-litho firm-fri fos w/chk mtrx shly pyr slty occ dolo ø-fr-p nsfoc w/SH aa, tr pyr.

5780-5806 LS aa incr dolo occ vvfos w/chk mtrx ø-p-occ q nsfoc w/SH bk-ltqy bf sft arq carb slcalc, tr pyr & occ cht.

## PAWNEE MEMBER 5806'(-771').

5806-5824 LS aa occ tr ool øp.nsfoc w/SH aa, tr pyr.

5824-5832 SHOW NO.2 LS mdolo ltqy-bf-tan xfxl-gran fri-mfirm fos w/chk slsly pyr ø-pred fr-occ q; OILSTN-None; FLOR-10% mot myel; CUT-10% ltyel-mlky diffuse crush cut; RES-None.

5832-5854 LS aa nsfoc w/occ dolo strqs w/SH bk-qybrn sft carb, tr pyr.

## FORT SCOTT 5854'(-819').

5854-5864 LS tan-mqy-bf xfxl firm mfos slty sldolo ø-p nsfoc w/SH aa.

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5864-5876 SHOW No.3 LS mot tan-brn-mgy xfxl-occ gran vvfri-mfri mfos w/chk mtrx slool & occ gran slsity pyr; Ø-Fr-occ G(gran-oomold) OILSTN-Tr sat stn , no tr live oil; FLOR-20% myel; CUT-20% slow mlky-myel slow diffuse cut; RES-Pale yel flor res.

5876-5902 LS aa incr fos w/chk mtrx slpyr slty occ dolo Ø-fr nsfoc w/SH bk-qybrn sft plty fis vcarb slcalc, tr pyr & cht.

CHEROKEE 5902'(-867').

5902-5950 LS ltqy-brn-tan xfxl-litho firm-fri vvfos w/chk mtrx slpyr Ø-p nsfoc w/SH bk-qybrn sft plty occ mica carb tr pyr & cht.

5950-5990 LS bk-ltqy-dkqy fri xfxl fos w/chk mtrx sldolo Ø-p nsfoc w/SH.

5990-6040 LS bk-ltqy-bf fri xfxl-litho fri-firm mfos w/chk mtrx slty Ø-p-tt nsfoc w/SH bk-ltqy sft plty fis arq vcarb, tr pyr.

6040-6090 LS aa incr dolo & occ fos w/calc infill slpyr & slty w/SH bk-qybrn-brn sft plty-blky firm slmica slcalc, tr pyr & cht.

6030-6127 LS tan-bk-qybrn xfxl-litho firm dolo occ fos w/chk mtrx slsity Ø-p nsfoc w/SH strqs aa, tr py r& cht.

ATOKAN MARKER(SONIC) 6127'(-1092').

6127-6169 LS aa incr dolo intbd fos strqs Ø-p-fr nsfoc w/SH bk-ltqy sft plty arq vcarb slcalc.

ATOKA THIRTEEN FINGER 6169'(-1134').

6169-6210 LS tan-qy-bk xfxl-microxl firm-fri vfos w/calc infill slpyr slty dolo strqs Ø-p nsfoc w/SH aa, tr cht & pyr.

6210-6270 LS mot brn-mgy-tan xfxl-gran firm-fri arq & pyr dolo nsfoc w/SH bk-qybrn-dkqy sft-firm blky arq vcarb slcalc, tr pyr.

6270-6320 LS tan-brn-mgy xfxl-gran firm-fri arq & pyr intbd dolo strqs w/SH aa, tr pyr & cht.

6320-6352 LS mot ltqy-tan-bf xfxl-litho fri vfos dolo pyr w/SH bk-tan-bf firm-sft blky-plty arq vcarb slcalc, tr pyr & cht.

MORROW SHALE(SONIC) 6352'(-1317').

6352-6388 SH bk-ltqy firm blky arq carb slpyr w/Ls aa, abnt pyr tr cht.

MORROW SHALE(STRAT) 6388'(-1353').

6388-6446 SH mot bk-dkqy-tan-ltqy sft-firm plty-blky occ slfis carb occ slsity w/intbd LS strqs tan-qy mfos vvchky slpyr, tr cht.



## LITHOLOGY

MORROW V5 SAND 6446'(-1411').

6446-6470 SH mot lt-dkgy-occ pale qyqn sft plty-splin fis vvcarb w/intbd strqs strqs and thin poorly dev SS strqs ltgy-wh m-cq uncon-fri shang psrt ø-vtt-nil nsfoc intbd w/in SH aa, abnt pyr as fos.

6470-6520 SH mot ltgy-qyqn-bk-tan sft-firm plty fis occ splin carb varq lmy w/occ ls strqs and thin strqs sltst/ss no good ss dev ø-tt nsfoc w/abnt pyr as fos casts.

6520-6546 SH mot mqy-bk-qyqn-ltgy sft plty arg vcarb aa incr slty & w/intbd qyqn-qy strqs fis pyr w/incr amt sltst & thin ss strqs abnt pyr fos casts.

MORROW V11 VALLEY FILL 6546'(-1511').

6546-6551 SH aa incr abnt slty & pyr w/occ thin strqs strqs SS ltgy-wh fri fq-vfq sbrd msrt slty kao cly infill pyr ø-p-fr nsfoc.

MORROW V11 SAND 6551'(-1516').

6551-6560 SS wh-clr pred m-cq w/vf-fq strqs @ top zone 80%-uncon/20%-clus shang-sbrd; m-psrt; silcmt w/occ tr qtz ovrqths & occ calc cmt at top; mtrx overall very cln; Tr kao cly infill vf dissem pyr ø-Pred G-EX(cln); OILSTN-None; FLOR-70% m-pale yel on uncon qrs occ briyel in clus; CUT-70% slow diffuse pale yel; RES-pale yel flor res.

6560-6576 SH bk-dkgy-occ mot ltgy-qyqn-pale tan vvsft-firm plty-fis arg vvcarb slty w/intbd SLTst strqs ; decr thin SS vfq strqs ø-tt nsfoc, abnt pyr.

LOWER MORROW LIME(SONIC) 6576'(-1541')

6576-6592 SH bk-qybrn-tan xfxl litho firm slmica slcalc w/LS ltgy-tan occ brn xfxl-litho firm-fri mfos w/chk mtrx slpyr w/abnt pyr and tr cht incr.

LOWER MORROW LIME(STRAT) 6592'(-1557').

6592-6630 LS mot bf-ltgy-tan xfxl firm-fri vvfos w/chk mtrx slsly pyr ø-p-occ fr nsfoc w/intbd Sh strqs aa, abnt pyr tr cht.

MISSISSIPPIAN ST. LOUIS 6630'(-1595')- SAMPLE TOP.

6630-6670 LS mot bf-ltgy-brn microxl-xfxl fri-firm mfos w/chk mtrx slpyr occ calc infill slsly incr dolo occ shly ø-p nsfoc w/occ tr intbd dolo strqs and SH bk-qybrn sft vcarb plty occ mica & fis abnt pyr occ tr cht.

TOTAL DEPTH(DRILLER) 6670'(-1635').

NOTE: Electric logs could get past 6610'