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## RESUME

Operator: Union Pacific Resources Company

Well Name and Number: #1 Colmeno<sup>4</sup> Inc. 14-19

Prospect: North Flathead Area, High Point Field

Location: Section 19 (1200' FWL & 400' FSL), T-11S, R-51W

County and State: Kit Carson, Colorado

Elevation: GL: 5070', KB: 5084'

Spud Date: June 23, 1994

Completion Date: July 3, 1994

Hole Sizes: 12 1/4": 0-525'; 7 7/8": 525-6810'

Casing Data: 8 5/8" set at 524', 5 1/2" set through Morrow

Logging Data: DIL/LDT/CNL/GR/CAL, BHC/GR/CAL, FMS/SHDT; Schlumberger, Ft. Morgan

Development Geologist: Mark P. Germinario

Drilling Foreman: Jack Parrott

Wellsite Geologist: John C. Lamb

Contractor: Cheyenne, Rig 6

Tool Pusher: Phil Loyd

Mud Type: Chem Gel

Mud Company: Service, Tony Maestas

Drilling Days: 11

Rotating Hours: 164 1/4

Bottom Formation: Spergen

Status: To be completed as an oil well in Morrow V7 Ss

# FORMATION TOPS AND CORRELATION

	UPRC #1 Colmeno Inc. 14-19 SW SW 19-11S-50W Kit Carson Co., Colo. KB 5084'	UPRC #1 Colmeno 12-30 SW NW 30-11S-50W Kit Carson Co., Colo. KB 5083'
DAKOTA	2956(2128)	2942(2141)
CHEYENNE	3268(1816)	3248(1835)
BLAINE SALT	Not Present	3978(1105)
STONE CORRAL	4324(760)	4318(765)
NEVA	4935(149)	4923(160)
FORAKER	5017(67)	5005(78)
SHAWNEE	5254(-160)	5239(-156)
HEEBNER	5485(-401)	5468(-385)
TORONTO	5508(-424)	5492(-409)
LANSING	5534(-450)	5516(-433)
MARMATON	5922(-838)	5894(-811)
Pawnee Member	5959(-875)	5929(-846)
Fort Scott Member	5986(-902)	5963(-880)
CHEROKEE	6024(-940)	6009(-926)
ATOKA	6241(-1157)	6228(-1145)
MORROW	6456(-1372)	6451(-1368)
V5 Interval	6529(-1445)	6520(-1437)
V5 Sandstone	6544(-1460)	Not Deposited
V7 Interval	6564(-1480)	6549(-1466)
V7 Sandstone	6593(-1509)	6580(-1497)
V11 Interval	6662(-1578)	6642(-1559)
V11 Sandstone	Not Deposited	6648(-1565)
LOWER MORROW LIMESTONE	6683(-1599)	6670(-1587)
KEYES SANDSTONE	Not Deposited	6728(-1645)
SPERGEN	6762(-1678)	6744(-1661)
TOTAL DEPTH	6817	6797



## BIT RECORD

BIT #	SIZE	TYPE	IN	OUT	FOOTAGE	HOURS	JETS
1	12 1/4"	S33J	0'	520'	520'	4 1/2	14-0-14
2	7 7/8"	HP51XM	520'	5585'	5065'	98 3/4	14-10-14
3	7 7/8"	ATJ11C	5585'	6810'	1225'	61 1/4	15-10-15

## SURVEYS

163 1/4	1036 1	3843 1	5945 1 1/2
257 1/4	1570 1	4374 3/4	6400 2
350 1/2	2162 3/4	4869 1	6810 3/4
440 3/4	2847 1	5366 1	
520 1	3345 1 1/4	5585 1 3/4	

## DAILY CHRONOLOGY

DAYS OVER HOLE	DATE	8AM CDT DEPTH	24 HOUR FOOTAGE	DAILY ACTIVITY
1	June 23	0'	0'	MIRU, spud at 17.00, drlg
2	June 24	520'	520'	Drlg, run & cem csg, WOC, NU, pressure test, drlg
3	June 25	2500'	1980'	Drlg, LC, drlg, LC, drlg, TOH, replace chain, TIH, drlg, LC, drlg
4	June 26	3590'	1090'	Drlg
5	June 27	4335'	745'	Drlg
6	June 28	5100'	765'	Drlg, displace mud while drlg
7	June 29	5585'	485'	Drlg, TFB, work on cat head & drlg line, TIH, drlg
8	June 30	5945'	360'	Drlg
9	July 1	6390'	445'	Drlg, CFS at 6595', prep for DST #1
10	July 2	6595'	205'	Conduct DST #1, drlg
11	July 3	6810'	215'	Drlg, TD at 02.45, prep for logs & logging, prep to run csg

## LOST CIRCULATION INTERVALS

Depth Of Occurrence	Barrels Lost	Prior LCM lb/gal	After LCM lb/gal
2035-2069	200	0	15
2950-3159	350	6	8

## MUD REPORTS

Date	6-29	6-30	7-1	7-2	7-3
Depth	5513	5879	6326	6605	6810
Weight	9.0	9.1	9.0	9.2	9.3
Funnel Viscosity	41	54	50	60	59
Plastic Viscosity	11	14	14	14	14
Yield Point	16	23	21	25	25
Gel Strengths	9/20	11/27	11/25	12/30	12/29
pH	9.5	9.0	9.5	9.0	9.0
Water Loss	13.6	8.8	9.6	9.6	9.6
Filter Cake	1/32	1/32	1/32	1/32	1/32
Alkalinity Mf	.7	.4	.5	.4	.4
Chlorides	200	200	200	200	200
Calcium	40	40	40	40	60
Sand	tr	tr	tr	tr	tr
Solids	5.0	5.6	5.0	7.2	7.2
LCM	4	3	2	2	5

## DRILL STEM TESTS

DST #1, Morrow V7

6453-6595'

Valid Bottom Hole Test

Times: 15-30-60-60 minutes

BHT No Reading

### Pressure:

IHP 3132

IFP 925-925

ISIP 1062

FFP 925-1042

FSIP 1062

FHP 3103

### Remarks:

Tool set OK

Opened with 1" blow, BOB in 7 minutes

Blew down through 2", weak blow continued until FFP

Opened with strong blow, BOB in 3 minutes

Blew down through 2", weak blow continued, GTS at end FSIP

Pulled loose OK



Recoveries:

Drill Pipe:

4173' GIP

372' GOCM (2% Oil, 52% Gas, 46% Mud)

372' GMWCO (45% Oil, 40% Gas, 10% Water, 5% Mud)

372' GOCW (30% Oil, 20% Gas, 50% Water)

1286' Water      Titrated Chlorides: 65,000 ppm    RW:.06 ohms at 80F

Sampler:

Volume of sampler: 3150cc

Fluid volume: 2500cc at 600 psi

150cc Oil

2350cc Water

3.9 cu. ft. gas

### SUMMARY

The #1 Colmeno Inc. 14-19 was drilled as an extension to High Point Field, which is located in the North Flathead Prospect Area. The location was selected upon the basis of interpretation of Formation Micro Scanner data from offsetting wells as well as sub surface geologic interpretation.

The primary objective was the Morrow V7 Sandstone, which is oil productive at the corollary well, the #1 Colmeno 12-30. Secondary objectives included porosity development within the Marmaton and Spergen Formations, as well as the V11 Sandstone.

Within the Morrow Formation, the primary objective, the V7 Sandstone was encountered (6593-6606). Description: Sandstone 2-4 grain clusters, translucent, medium to coarse grain, sub round, poorly sorted, very poorly consolidated with siliceous and slightly dolomitic cementing, very friable, very slightly clay filled in part, possibly good porosity, NSFOC. Unconsolidated grains were also noted: translucent, medium grain to upper coarse grain, sub round, fair sorted, very slight trace (one or two grains) with dull greenish fluorescence. Claystone was also described: white, soft, slight trace with dull greenish fluorescence.

The V11 Sandstone was not encountered. A minor show of very limited significance was recorded in the Cherokee. No other shows were encountered other than the aforementioned Cherokee and Morrow V7 Sandstone. Production casing was set after wireline logging operations were concluded.

### SAMPLE DESCRIPTIONS

#### Unlagged Sample Depths and Log Tops

- 5210 Sh rd & gy fn txt slty i.p. Sltst rdsh bn blkly varg Ls tr lt bnsh & rdsh gen arg & sli frag  
5220 Sltst cont'd Ls sm incr off wh vfxl frm dns sli fos  
5230 Ls off wh-lt rdsh wh dxi-vfxl vfos sli frag i.p. sli arg i.p.  
5240 Ls cont'd incr amts AA sme mot rdsh vfxl sli shly  
5250 Sh gen incr rdsh bn & orng fn-vslty /chng: dk gy flky fn txt to tr blk sli-m carb  
SHAWNEE 5244'  
5260 Ls off wh-lt gy vfxl-micxl dns gen vfos  
5270 Ls chng: buf micxl dns sli fos sil  
5280 Ls off wh-buf micxl sil-cln app Sh sm incr rd & gy ltr blkly Cht tr trnsf fos

5290 Sh cont'd gy & rd Ls cont'd ltr col micxl AA  
 5300 Ls chng: lt gy vfxl-fxl sli fos decrly cln app Sh pos incr rd & gy  
 5310 Sh chng: gnsh gy & dk gy vfn txt sli carb i.p.  
 5320 Ls cont'd decr Sh incr vdk gy-blk blkly mod-vcarb  
 5330 Ls off wh vfxl frm brit vcln app  
 5340 Ls pred vcln app AA /sm gy atg Sh incr gy & dk gy  
 5350 Ls lt gy-off wh vfxl loc sli fos sli sdy gen sli arg  
 5360 Ls lt gy-lt bnsh vfxl dns loc vfos  
 5370 Ls lt gy-off wh fxl-chlky-loc gran gen vfos occ sparry Sh rd & gy  
 5380 Sh sm incr vdk gy & blk vcarb i.p. Ls lt gy-off wh incrly dns  
 5390 Ls off wh fxl-vfxl frm brit cln app sli fos  
 HEEBNER 5485'  
 5400 Sh incr m-dk gy mod carb  
 5410 Ls off wh vfxl sli sparry dns-brit cln app Sh decr  
 TORONTO 5508'  
 5420 Ls bn-gy varg sli fos Sh m-dk gy plty fn txt  
 5430 Sh def incr orng blkly fn-vslty tr gyp  
 5440 Ls incr wh-off wh vfxl-micxl dns fos-vfos loc sparry  
 LANSING 5534'  
 5450 Ls wh vfxl-fxl vbrit vfos Sh sm incr blk vcarb  
 5460 Ls off wh-lt gy micxl-vfxl vfos  
 5470 Sh incr rd & gy ltr blk Ls AA /sli tr fn vug poro NSOC  
 5480 Ls incr amt: off wh fxl-mxl vfos /tr fr-g fn vug poro NSOC  
 5490 Ls off wh fxl vbrit vfos cont'd tr's fn vug poro NSOC  
 5500 Sh lrg incr blk carb dism pyr  
 5510 Sh blk & gy Ls bn-off wh vfxl sli fos  
 5520 Sh lt gnsh gy plty fn txt sli sdy  
 5530 Sh gy-gnsh gy plty sdy-fn txt  
 5540 Ls lt gy-off wh vfxl-micxl loc fos sdy i.p.  
 5550 Ls off wh fxl-mxl fri vcln app tr's fr-g intxl poro NSOC  
 5560 Ls chng: lt bn-lt gy fxl-Mdst sli fos  
 5570 Sh sm incr blk vcarb /fr incr vlt gy sb blkly vsdy-vslty tr /fn carb debr  
 5580 Ls chng: off wh-buf fxl-mxl fri fr intxl poro NSOC  
 5590 Sh cvgs from bit trip  
 5600 Sh cvgs from bit trip  
 5610 Ls incr buf fxl-vfxl dns tr's pr-vpr intxl poro NSOC Sh cont'd  
 5620 Ls lt gy-lt bnsh vfxl-dns sli arg Sh cont'd  
 5630 Sh chng: incr vdk gy mod carb  
 5640 Sh cont'd Ls lt tn-lt gy vfxl dns sli fos  
 5650 Sh & Ls AA  
 5660 Ls lrg incr: off wh vfxl-micxl vdns sparry gen fos Wkst tr vpr fos moldic poro  
 5670 Ls off wh-buf vfxl fos Wkst /incr pr-g fos-moldic poro  
 5680 Ls lt gy-off wh vfxl-fxl fos Wkst rgh txt incrly dns /decr moldic poro AA  
 5690 Sh sm incr blk vcarb  
 5700 Ls chng: lt tn fxl-vfxl dns frm-vfrm sli fos  
 5710 Ls bnsh gy-lt tn vfxl Sh incr m-dk gy fn txt mod carb  
 5720 Ls lt gy-lt tn vfxl rthy txt



5730 Sh & Ls AA  
 5740 Ls off wh-lt tn vfxl-fxl brit-dns  
 5750 Ls AA bec sdy Sh sm incr blk vcarb  
 5760 Ls lt tn vfxl-fxl fos-vfos  
 5770 Ls lt gy-lt bn vfxl vdns sli arg Sh tr blk vcarb  
 5780 Ls lt bn-lt tn vfxl-micxl incrly dns bec sli sil  
 5790 Sh incr blk vcarb Ls lt tn-lt gy vfxl-micxl dns fos i.p.  
 5800 Sh & Ls cont'd AA  
 5810 Ls lt gy-lt tn-lt bn vfxl fos sli rthy txt  
 5820 Ls cont'd fos /sli rthy txt  
 5830 Ls lt tn-lt gysh wh fxl frm rthy-chlky txt  
 5840 Sh incr gy & rdsh bn  
 5850 Sh cont'd incr  
 5860 Ls lt bn-lt tn vfxl dns fos sli sil i.p. Sh decr  
 5870 Ls lt tn vfxl indist ool dns  
 5880 Ls lt gy-lt tn vfxl freq ool Wkst  
 5890 Sh incr m gy flky fn txt /sm amt blk vcarb  
 5900 Ls wh-off wh vfxl sparry ool Wkst-Pkst cln app  
 5910 Ss lt gy l.vfg calc cem Ls vlt gy-off wh vfxl decrly cln app  
 5920 Ls lt gy-lt tn vfxl-micxl dns tr buf micxl ool Wkst Sh sm amt blk-vdk gy mod-vcarb  
 5930 Ls lt gy-lt bnsh wh fxl fri-brit pr intxl poro

MARMATON 5922'

5940 Ls buf-lt bnsh fxl-mxl fri pr-fr intxl poro Sh sm incr blk vcarb Slstst lt gy sdy calc  
 5950 Sh cont'd sm amt blk vcarb Slstst?Ss cont'd Ls chng: lt bnsh-tn vfxl-micxl dns  
 5960 Ls chng: off wh vfxl-micxl vfos sme vsparry fos Pkst  
 5970 Sh incr lt-m gy plty fn txt Ls cont'd fos Ss sm amt lt gy l.vfg calc cem

Pawnee 5959

5980 Ls buf-off wh fxl-mxl rthy txt i.p. Sh sm amt blk vcarb  
 5990 Ls buf-lt bnsh vfxl-micxl Ss lt gy vfg vcalc  
 6000 Ls chng: lt bnsh wh fxl pred /rthy txt sli chlky i.p. com sli carb Sh tr blk vcarb  
 Ss cont'd tr's  
 6010 Ls pred lt-m bnsh gy vfxl dns brit-hd Sh incr blk /freq gy & rd cvgs

Fort Scott 5986'

6020 Ls bn micxl dns brit wh-off wh fxl sli chlky Sh decr  
 6030 Ls cont'd AA Cht dk bn opq fos

CHEROKEE 6024'

6040 Ls lt bn-lt gy micxl vdns sli carb i.p. Sh sm incr blk vcarb  
 6050 Sh cont'd sm incr blk vcarb /freq m gy flky fn txt  
 6060 Sh cont'd blk & gy Ss incr lt gy l.vfg vcalc  
 6070 Ls bn-gy vfl-micl sli fos Ss cont'd  
 6080 Sh lrg incr blk & bnsh blk vcarb dism pyr  
 6090 Ls lt gy-off wh fxl rgh txt fos scat amt /dull gnsh yel flor wk yel crush ct Sh decr  
 6100 Sh incr blk vcarb  
 6110 Ls lt bn-bnsh gy fxl-vfxl brit rgh txt i.p. fos loc vfos  
 6120 Ls lt tn-lt bn fxl fos Pkst-Wkst gen dns-vdns pr intxl poro i.p. tr rthy txt /dull gn flor wk  
 crush ct  
 6130 Sh incr blk & vdk gy carb /scat lt gn fn txt Ss lt gy l.vfg-slt vcalc



6140 Sh blk & vdk gy Ls lt gy vfxl fos Pkst  
 6150 Ls lt tn fxl-chlky frm cln'r app Sh incr bnsh blk & m-dk gy fn txt  
 6160 Ls lt bn-lt gy vfxl-fxl gen vfos /freq mod sparrry Pkst Sh cont'd  
 6170 Ls chng: buf-off wh fxl-chlky gen /rthy txt  
 6180 Ls chng:bnsh-gysh micxl-vfxl vdns mod fos Sh gy & blk  
 6190 Cht trnsl wh fos Ls lt tn-vlt gy vfxl-fxl fos i.p.  
 6200 Sh incr m gy-blk vcarb i.p.  
 6210 Sltst lt gy blkgy vsdy sli arg Ls lt gy-lt tn vfxl vfos  
 6220 Ls buf-bn vfxl-micxl vdns sil  
 6230 Sh sm incr blk-vdk gy Ss lt gy vfg sli arg vcalc  
 6240 Sh cont'd incr lt-m-dk gy & blk Ls sm amt wh-buf fxl frm cln'r app  
 6250 Ls lt bn-lt gy incrly arg Sh m-dk gy flky fn txt

ATOKA 6241'

6260 Sh decr gy's /incr blk vcarb dism pyr Ls lt gy-lt tn vfxl-micxl dns  
 6270 Ls lt gy-buf vfxl vfxl dns-vdns Cht lt gy trnsl-opq  
 6280 Sh m-dk gy sli mot i.p. plty fn txt  
 6290 Ls chng: mot m-dk gy Mdst sli carb  
 6300 Ls incr vdk gy micxl mod carb pyr Sh incr blk vcarb  
 6310 Ls chng: lt tn vfxl sli sparrry cln app Sh cont'd blk vcarb  
 6320 Ls lt gy Mdst occ fos Sh m gy flky fn txt  
 6330 Ls lt-m gy Mdst-vfxl carb i.p. /pos incr off wh vfxl-fxl brit cln app  
 6340 Ls dk gy micxl vdns gen carb  
 6350 Sh hvy amt vdk gy & blk gen vcarb Ls sme bn lith sil  
 6360 Ls chng: lt tn fxl-vfxl dns brit cln'r app  
 6370 Ls incr lt tn cln app AA Sh incr blk  
 6380 Ls chng: m-dk gy vfxl-Mdst carb  
 6390 Ls lt-m-dk gy fos Mdst sli carb-carb  
 6400 Ls m-dk gy vfxl-Mdst  
 6410 Ls m-dk gy vfxl-micxl vfos bec sil Sh blk & vdk gy  
 6420 Ls lt gy Mdst dolie  
 6430 Ls lt-m gy Mdst /freq gy & bn vfxl vfos pyr Sh incr blk vcarb  
 6440 Ls incr lt-m gy Mdst Sh decr  
 6450 Ls sli mot lt-m gy Mdst sli fos  
 6460 Ls lt-m-dk gy vfxl-Mdst gen carb  
 6470 Ls incr lt gy Mdst

Note: Lagged sample depths

6454 Ls cont'd Sh sm incr blk vcarb /occ lt gn wxy sli sdy  
 6458 Sh cont'd incr blk Ls sm incr lt tn vfxl brit cln app

MORROW 6466'

6471 Sh hvy amt blk vcarb  
 6480 Ls lt gy-lt bn fxl-sli gran app tr vitr carb frags Sh sm incr lt gy-lt bnsh plty-blky wxy carb debr  
 6485 Ls off wh-lt tn vfxl-micxl fos vsparry  
 6490 Sh sm incr blk & gy /cont'd sm amt buf splty wxy incr tr's vitr carb frags  
 6494 Ls & Sh AA  
 6502 Sh gen incr amt AA /sme mot gn-gy withd  
 6506 Sh & Ls AA

- 6513 Ls incr buf-vlt tn vfxl rgh txt vfos Sh decr  
6520 Sh & Ls AA  
6525 Sh sm incr blk & vdk gy /sme lt gn flky fn txt  
6530 Sh m-dk gy fn txt sme lt gn-rdsh gn wthd Ls cont'd vlvly amt  
V5 Interval 6529'  
6534 Sh chng: incr lt gn & lt gy flky-blky wxy pyr  
6537 Sh lt gn-lt gy plty-flky sb wxy  
6541 Sh lt gn dk gy flky fn txt  
6552 Sh lt-m gn plty vfn-sb wxy txt  
V5 Sandstone 6554'  
6560 Ss hvy tr uncon & shattered 2-3 grn clust: trns l.-u.mg sb rnd fr srted pr cons /sil & dolie  
cem tr ass Clyst all NSFOC  
6562 Ss cont'd tr's AA /NSFOC Sh pred gn-gy /tr's bn blky wxy carb debr  
V7 Interval 6564'  
6564 Sh gn-gy flky-plty fn txt /sm amt lt bn lt gn blky-splty slty-wxy loc rgh txt & glau  
Ss cont'd tr's uncon AA & 3-4 grn clust fri sil cem NSFOC  
6567 Sh lt gn-lt gy blky wxy occ sdy tr /crs carb debr Ss cont'd tr's NSFOC  
6570 Sh lt gn lt gy lt bn wxy scat vcrs carb debr Ss cont'd tr's 3-4 grn clust: wh-trns l.mg hvy  
sil cem sli fri-fri  
6573 Sh lt gn lt gy lt bn blky rgh-wxy txt Ss tr's AA  
6578 Ss pos incr sil clust AA /sli incr grn size NSFOC  
6583 Ss cont'd sm incr 4-8 grn clust:trns l.-smi trns l.-wh mg-l.cg sb ang pr srted gen w cons /vsil  
cem loc dolie gen hd-vfrm non fri /scat uncon trns l.-u.mg l.cg NSFOC Sh gy & gn blky-  
flky wxy-rgh txt  
6588 Sh hvy amt gnsh gy lt gn lt gy wxy-rgh txt Ss cont'd amt sil clust AA NSFOC  
6590 Ss sm incr tr's 2-4 grn clust: trns l.-mg-cg pr srted vprly cons sli cly fld /cont'd lrg'r clust  
AA all NSFOC Clyst tr's wh sft vsli tr dull yel-gd flor  
6595 Ss def incr 2-3 grn clust: trns l.-mg-cg sb rnd vpr cons vfri vsli cly fld i.p. pos g poro  
NSFOC  
6595 btms up +30 min Ss cont'd 2-3 grn clust AA /def incr uncon: trns l.-mg-u.-l.cg sb rnd fr srted  
vsli tr /dull gnsh flor Sh admixture gn gy bn Ss hvy tr  
6601 Ss sm incr uncon:trns l.-l.cg-u.mg occ l.mg pr srted NSFOC Sh cont'd lt'r col /pos incr dk-  
vdk gy flky fn txt  
6606 Ss sm incr 2-4 grn clust:trns l.-u.mg-cg ang pr srted fr-pr cons /sil cem freq uncon hvy tr  
Clyst all NSFOC  
6612 Ss cont'd incr uncon & 2-4 grn clust gen AA bec incrly w cons  
6617 Ss sm decr Clyst cont'd amt all NSFOC Sh admixture lt & dk col's  
6626 Ss cont'd amt Sh admixture  
6635 Ls buf-vlt bnsh tn vfxl rthy txt Sh pos incr vdk gy flky fn txt mod carb sli fos  
6639 Ls, Sh, Ss cont'd AA  
6645 Sh cont'd incr vdk gy flky fn txt  
6649 Sh lt-m-dk gy plty-flky Ss decr  
6653 Sh lt-m-dk gy Ss cont'd decr  
6654 Sh cont'd gy's fn txt /pos incr lt bn/buf wxy fn-crs carb debr  
6660 Sh AA



V11 Interval 6663'

- 6664 Sh chng: buf-vlt gy-lt bn blkly wxy freq /carb debr Ss sli incr tr's uncon 3-5 grn clust:trns l u.-l.cg sb rnd hd w cons /sil & dolie cem no vis poro NSFOC
- 6668 Sh buf-bn-lt gy blkly wxy Ss hvy tr lse grns 3-5 grn clust AA
- 6675 Sh gy-bn buf wxy-rgh txt occ /carb debr Ss cont'd tr's AA
- 6680 Ss hvy tr 3-8 grn clust:trns l cg-u.mg sb ang pr srted pr cons /sil & dolie cem sli fri i.p. Sh pos incr m-dk gy flky fn txt

Lower Morrow Limestone 6634'

- 6683 Ls pos incr buf-lt bnsh buf vfxl dns brit-frn Sh lt-m-dk gy
- 6688 Ls & Sh AA
- 6698 Ls incr:buf-off wh vfxl dns brit
- 6708 Ls cont'd incr off wh-buf vfxl-fxl rthy-chlky i.p. gen cln app
- 6716 Ls off wh-vlt tn fxl-vfxl rthy txt i.p. incrly fos
- 6727 Ls off wh-buf vfxl-micxl sli fos cln app
- 6738 Ls AA Ss sm incr lse grns:trns l u.mg-l.cg sb and pos sli cly fld
- 6752 Ls sdy & sli glau i.p. Ss incr uncon:trns l cg-mg /rr 2-3 grn clust NSFOC

SPERGEN 6762'

- 6760 Dol tr lt gy-lt bn fxl-mxl sft-sli frm Ls lt'r col pred vsdy frag
- 6769 Dol cont'd vsm amt lt gy fxl arg
- 6774 Dol lt bnsh Mdst sli arg sli carb
- 6786 Dol lt gy-lt bnsh gy Mdst sli carb
- 6802 Ls lt gy fxl brit vfos dolie
- 6810 Ls & Dol cont'd AA