

Rotosonic

NORWEST

Norwest Corporation
198 East South Temple, 12th Floor
Salt Lake City, Utah 84111
(801) 539-0044
(801) 539-0055 FAX

Drill Hole Completion Report

Location

Hole I.D. SHMW-05D Location SW SW Section 17 Twp 139N Rng 98W
Project GNP - South Hawk Lease _____ County STARBUCK State ND
Survey System _____ North _____ East _____ Elev. _____
Approx. Location: FNL (FSL) 50 FEL (FWD) 50 Elev. 2535

Drilling

Drilling Co. BOART Longyear Driller _____ Start 9 / 30 / 06 Finish 10 / /
Total Depth _____ Surface Casing Size _____ to _____
Hole Size _____ to _____ to _____ to _____
Casing Size _____ to _____ to _____ to _____
Lost Circ. _____ to _____ ; _____ to _____ ; _____ to _____ ; Regained? Y _____ N _____
Water Invasion Depths _____, _____, _____, _____, _____
Drilling Conditions Air Rotosonic O-TD Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
4"			36.5	40.0	F?			
			152.5	175.0	D			

Logging

Company CENTURY Operator _____ Date ___/___/___
Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other
Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
_____ to _____ Cement (Bags) _____ Monitoring _____
_____ to _____ Cement (Bags) _____ Monitoring _____
Contractor _____ Representative _____ Date ___/___/___
If open, explain _____

Reclamation

Explain Completed as monitor well by Golden Assoc.

Remarks

Rotosonic drilling - poor depth control on samples
Report Completed By _____ Title _____ Date ___/___/___

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
	35	42	7	~18

Hole SHMW-05D
 Page 1 of 3
 Date 9/30/06
 Name D. LEPPER

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
36		36.5	Box 1	PY Wet Compact DRY + crumbly	- RUN DK GY CLY @ TOP. NOT SAMPLED 7' ROCK (Prob. Part of previous run)
		S1 37.0			DEPTHS VERY ROUGH.
38		S2 38.6			LIG (36.5-40.0) 3.5 DISTINCT
		S3 39.0			BRN, WOODY TOP w/ ABNT PY
40		S4 40.0			V. DILGT - BLK - COMPACT
					BRN, DRY, NO VISIBLE PY ~7' CO " 3.5
42					DK GY CLY
44					- RUN 4' BK
46					
48					

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 538-0044
 (801) 538-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
	145	155	10	~14
	155	165	10	~14
	165	175	10	~14 + 3-4' muck

Hole SHMW-05
 Page 2 of 3
 Date 10/2/2006
 Name D. LEPPERT
 Photos Taken

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
		152.5			Rotosonic
		S5	↑	*	SS, fq, lt-m qz-grn, w. srt, shaly, distinct contact
		153.0			152.19 (152.5 -) DRILLERS TOP
		S6	↓		DOES NOT LOOK LIKE 2.5'
154		154.0	Box 2		v. dk qz-blk, abnt pye top
		S7	↑		mnr py throughout 1st 2 1/2 FT
		155.0			RUN
		S8	↓		Muck etop - discarded
156		156.0	↑		MOSTLY BLACK
		S9	↓		wet - some of this from here up may be slough??
		157.0			
		S10			
158		158.0	Box 3		
		S11	↓		
		159.0			
		S12	↓		
160		160.0	↑		wooly - 160-162 - dk brn
		S13	↓		
		161.0			
		S14			
162		162.0	Box 4		some core has outer rind w/ charred look
		S15	↓		
		163.0			
		S16	↓		
164		164.0	↑		wooly brn
		S17	↓		black muddy rind on outside of core -
		165.0			cleaned off as good as possible
		S18	↓		RUN 3-4' of muck e top - discarded.
166		166.0	Box 5		lg - dk brn, apa
		S19	↓		
		167.0			
		S20	↓		
168		168.0	↑		
		S21	↓		
		169.0			
		S22	↓		
170		170.0	Box 6		
		S23	↓		
		171.0			
		S24	↓		
172		172.0			* SAND coating e top of S7 - contaminant from above, mostly cut off from sample

Rotosonic - Core not intact.

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
	165	176 (cont)		

Hole SHMW-05
 Page 3 of 3
 Date 10/2/06
 Name D. LEPPERT

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description	
		S25 173.0 S26 174.0 S27 175.0	↑ Box 7 ↓			Liq, dk brn, mod wonky s a/s, occ tr py.
174						
				py		Large Py nodules e base w/ clay prob seen bottom Run clay. Lrgy, bent, ali
176						
178						
180						

NORWEST

Norwest Corporation
136 East South Temple, 12th Floor
Salt Lake City, Utah 84111
(801) 538-0044
(801) 538-0055 FAX

Drill Hole Completion Report

Location

Hole I.D. SHMW-06D Location SE NE Section 21 Twp 139 N Rng 98 W
Project Great Northern Power Lease South Heart County STARK State ND
Survey System _____ North _____ East _____ Elev. _____
Approx. Location: (FNL) (FSL) 2000' (FEL) (FWL) 50 Elev. 2550
E 694323 N 5189462

Drilling

Drilling Co. Longyear Driller Tom Muzik Start 9 / 26 / 06 Finish 9 / 30 / 06
Total Depth 252 Surface Casing Size _____ to _____
Hole Size 6" to _____ to _____ to _____
Casing Size _____ to _____ to _____ to _____
Lost Circ NA to _____ ; _____ to _____ ; _____ to _____ ; Regained? Y _____ N _____
Water Invasion Depths _____, _____, _____, _____, _____
Drilling Conditions Air Rotosonic Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
4"	0	252	54.5	69.5	D		100%	

Logging

Company CENTURY Operator B. MATAS Date 10 / 13 / 06
Log Depth (ft.) 184.5 Logs Run: Gamma Density Resist Calip Other
Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
_____ to _____ Cement (Bags) _____ Monitoring _____
_____ to _____ Cement (Bags) _____ Monitoring _____
Contractor _____ Representative _____ Date ____ / ____ / ____
If open, explain _____

Reclamation

Explain Completed as monitor well by Golden Assoc.
Screen 165-185

Remarks

Rotosonic drilling - questionable sample depths
Report Completed By D. Geppert Title Sr. Assoc. Geologist Date 10 / 17 / 06

NORWEST

Norwest Corporation
 186 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
	45	55		~12
	55	65	10	~12
	65	69.5	4.5	7.5

Hole SHMN-06D
 Page 1 of 1
 Date 9/27/06
 Name D. LEPPER

Photos

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
		54.5	S1		SLT SS, BRN/YELLOW, FE STAIN, SHARP CONT TOP CO ~ 54.5
		55.0			Blk, crumbly, 4-5H-SS, dull, no py
56		56.0	Box 1		LIG (54.5 - 69.5)
		57.0			
58		58.0			
		59			INCR BRN w/ WOOD FRAG
		60	Box 2		
		61.0			
62		62.0			Large woody chunks
		63			BLACKEN
		64	Box 3		
		65			INCR WOODY / BRN
66		66.0			Run BRN, WOODY,
		67.0	Box 4		MOSTLY DK GY, CRUMBLY, DULL, SL WOODY I.P.
		68.0			PRES BRN, WOODY, POSS SL MUDY
		69.0	Box 5		GY, w/ ABNT PY, PARTLY WOODY
		69.5			MOSTLY BRN, WOODY
70					Run CLY, SLTY, GY, TR ORG SHARP CONTACT
72					
74					

NOTE: Sample depths approximate
 Rotosario

NORWEST

Norwest Corporation
 138 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Completion Report

ROTOSONIC

Location

Hole I.D. SHmw-10D Location SE SW Section 23 Twp 139N Rng 98W
 Project Great Northern Power Lease South Heart County STARK State ND
 Survey System _____ North _____ East _____ Elev. _____
 Approx. Location: FNL (FSL) 1300 FEL (FWD) 1300 Elev. 2505'

Drilling

Drilling Co. Longyear Driller Alvin Start 9/26/06 Finish 9/29/06
 Total Depth 400 Surface Casing Size _____ to _____
 Hole Size _____ to _____ to _____ to _____
 Casing Size _____ to _____ to _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions Air ROTOSONIC Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
4"	0	400	37.4	54.5	D		100%	

Logging

Company Century Operator B. MATAS Date 10/14/06
 Log Depth (ft.) 364.10 Logs Run: Gamma Density Resist Calip Other
 Describe Run in monitor well

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation

Explain Completed as monitor well by Golden Assoc

Remarks

POOR DEPTH CONTROL ON SAMPLES

Report Completed By _____ Title _____ Date ____/____/____

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Rotosonic

Hole SHMW-10D
 Page 1 of 1
 Date 9/29/06
 Name D. Leppert
 Photos

Core Number	Top	Base	Cut	Recovered
5	35	40	5	9.0 2.55 = 2.6 37.4
6	40	45	5	0-Pickel w/ m next
	45	54	9	
7	54	65	11	

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
36					SS - gy, vfg, w sst - Run
37.4		37.4			NOTE: DEPTHS WITHIN RUNS APPROXIMATE ROTSONIC
38		S1 38.0		1	Lig (37.4-54.5) V. DKG, BLK, DULL, chunky, large Pychm adhesion py
		S2 39.0		2	V. DK BRN - gy brn, mod woody, tr py
40		S3 40.0		3	HARD DEPTH Lig - Brn - chunky, tr py
		S4 41.0			
		S5 42.0		4	DARKER OVERALL
42		S6 43.0			
		S7 44.0		5	PRED BRN, WOODY l.p., tr py
44		S8 45.0			RUN - UNCERTAIN DEPTH
		S9 46.0			
46		S10 47.0			DARKER, less woody tang
		S11 48.0		6	
48		S12 49.0			DK BRN, mod woody
		S13 50.0			
50		S14 51.0		7	TR PY
		S15 52.0			
52		S16 53.0		8	WOODY LAMS, TR PY
		S17 54.0		9	
54		S18 54.5		10	RUN HARD DEPTH - 54.5 SS, vfg, lt gy, w sst

INCREMENTAL TESTING

Box 1

Box 2

Box 3

Box 4

Box 5

← REGRIND/PICKED UP

54.5
37.4
17.1

NORWEST

Norwest Corporation
196 East South Temple, 12th Floor
Salt Lake City, Utah 84111
(801) 539-0044
(801) 539-0055 FAX

Drill Hole Completion Report

Location

Hole I.D. SHMW-10-0B Location SE SW Section 23 Twp 139N Rng 98W
 Project Great Northern Power Lease SOUTH HERET County STARK State ND
 Survey System _____ North _____ East _____ Elev. _____
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. ~2505
E 0651315 N15188928 NAD83

Drilling

Drilling Co. Mohl Driller MARONS Start 10/12/06 Finish 10/12/06
 Total Depth 75 Surface Casing Size N/A to _____
 Hole Size 5" to _____ to _____ to _____
 Casing Size N/A to _____ to _____ to _____
 Lost Circ. _____ to _____ ; _____ to _____ ; _____ to _____ ; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery Coal	Floor
			From	To				
	35	55	39.0	56.0	D 17.0	2.0	14.6 / 86%	2.0

Logging

Company CENTURY Operator B. MATAL Date 10/12/06
 Log Depth (ft.) 74.4 Logs Run: Gamma Density Resist Cap Other _____
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN TO SHMW-10D @ 40' FWD

Report Completed By _____ Title _____ Date ____/____/____

1.6
2.0

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 639-0044
 (801) 639-0055 FAX

Drill Hole Lithology Log

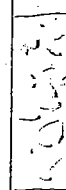
Core Number	Top	Base	Cut	Recovered
1	35	45	10	6.2
	45	55	10	10.0

SH. 7-1
 Hole SHMW-10-03
 Page 1 of
 Date 10/12/06
 Name LEPDEKT

PHOTOS

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
					Twin to SHMW-10D Mantus Well
36					CL 35.0-36.0 (DRILLERS ESTIMATE)
38					SS (36.0-39.0) qtz-olgy, vf-fg, w srt, tr glau v. sft-R1, calc bands near top w/ py top is more cemented
40		39.0 S1 39.6			sharp Co (39.0-42.3) PREC DK BRN, WOODY, MOD HB
42		S2 40.6 S3 42.3		Rubble	
44					CL (42.3- 45.0) -44.7-
46		44.7 S4 46.4			RECOVERED 44.7-45.0 RWZ MOSTLY DK BRN, WOODY, SOLID w/ DARKER ZONES THAT TEND TO BE BROKEN
48		S5 48.2			
50		S6 50.0			
52		S7 51.8			
54		S8 53.6 S9			

Box 1
 Box 2



BP3 90
 PL

py

CLT,
 POORLY
 DEV.
 py
 OR BP

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
3	55	58	3.0	

Hole SHMW-10-0B

Page 2 of 2

Date 10/12/06

Name D. LEPPERT

PHOTOS TAKEN

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
		59 55.0		✓ ✓ Rubbic SALTS? OW BP	END RUN
56		510 56.0		WATERS	CLY (56.0-58.0) mgy-grn, sh. ol., v. SLTY - w/ sdy Bones
58					
60					
62					
64					
66					
68					
70					

ROTARY TO 75' FOR ELOG

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Completion Report

Roto Sonic

Location

Hole I.D. SHMW-12D Location NEqSE Section 27 Twp 139N Rng 98W
 Project Great Northern Power Lease South Heart County STARK State ND
 Survey System _____ North _____ East _____ Elev. _____
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. ~2560
NAD83 E 690986 N 5187471

Drilling

Drilling Co. Bowser Longspur Driller ALVIN Start 10/13/06 Finish 1/1/07
 Total Depth 250 Surface Casing Size _____ to _____
 Hole Size 5" to _____ to _____ to _____
 Casing Size _____ to _____ to _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____
 Drilling Conditions NA Air Rotosonic Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
4"			35.5	39.0				
4"			66.0	70.0				
4"			122	~136	D			
Rotosonic DEPTHS APPROXIMATE from Golden Geologist								
Only top 3' of D seam sampled.								

Logging

Company CENTURY Operator B. MATAS Date 1/1/07
 Log Depth (ft.) 214.9 Logs Run: Gamma Density Resist Calc Other
 Describe Run resist casing - Resist only shows water level

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date 1/1/07
 If open, explain _____

Reclamation

Explain _____

Remarks

Completed as monitor well. Screened 195-215

 Report Completed By DAVE DEARBORN Title Geologist Date 10/22/06

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHMW-12D
 Page 1 of 2
 Date 10/13/06
 Name D. LEPPERT
 photo

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
36		35.5 36.0 37.0 38.0 39.0	51 52 53 54	↑ ① ↓	Rotasonic - Approx Depths CO (35.5-39.0) DK BRN LG, NO VIS PV, ASHY TOP
40					
66		66.0 67.0 68.0 69.0 70.0	55 56 57 58	↑ ② ↓	CO (66.0-70.0) DK BRN-BLK, WOODIENL BRNS
70					


NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
		125		

Hole SHMW-12D
 Page 2 of 2
 Date 10/13/06
 Name D. LEPPER

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
122		122 S9	↑		Rotosonic - Power Depth Control with runs CO (122.0 - 136.0) 14'
123		S10	↑		
124		124 S11	↓		
125		125 S12			- RUN Top contaminated NOT SAMPLED
126		126 S13			
127		127 S14			
128		128 S15			
129		129.0 S16			
130		130.0 S17			
131		131.0 S18			
132		132.0 S19			
133		133.0 S20			
134		134.0 S21			
135		135.0 S22			
136		136.0			
138					

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-2C Location SE SE Section 9 Twp 139N Rng 98W
 Project Great Northern Power Lease South HEAVY County STARBUCK State ND
 Survey System 198.5 North _____ East _____ Elev. _____
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. Mohl Driller Marcus Start 10 / 18 / 06 Finish 10 / 18 / 06
 Total Depth _____ Surface Casing Size _____ to _____
 Hole Size _____ to _____ to _____ to _____
 Casing Size _____ to _____ to _____ to _____
 Lost Circ. _____ to _____ ; _____ to _____ ; _____ to _____ ; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
<u>HQ</u>	<u>28.0</u>	<u>47.0</u>	<u>28.6</u>	<u>45.4</u>	<u>D 16.8</u>	<u>0 Lost</u>	<u>100%</u>	<u>1.6</u>
	<u>182.0</u>							

Logging

Company CENTURY Operator B. MATAS Date 10 / 16 / 06
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calp Other
 Describe Log Twin 02R

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____ / ____ / ____
 If open, explain _____

Reclamation

Explain _____

Remarks

Twin to pilot hole SHOB-2R

 Report Completed By D. LEPPER Title Geologist Date 10 / 18 / 06

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
1	28.0	43.0	15.0	14.4
2	43.0	47.0	4.0	4.0

Hole SHOB-2C
 Page 1 of
 Date 10/18/06
 Name D. LEPPER

PHOTOS

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
28		28.6	INCREMENT 1		COVER LOSS (28.0-28.6) Dk BRN CLY (Trace top of core)
		29.0	2		CO (28.6-45.4) 16.8
		30.0	3		PREV Dk GY-BLK,
30		31.0	4		muddy streak
		32.6	5		
32		34.4	6	CLT RR	
		36.2	7		WOODY - Dk BRN
34		38.0	8		
		39.8	9	Rubble	BLK
36		41.6	10	BP PL SS	WOODY clayey
38		43.0	11	BP PL CH	
		43.8	12	Rubble	RAW
40		44.8	13	BP PL SH	clayey
42		45.4	14		CLY (45.4-47.0) Dk OI-GY, BENT, PLW
44		46.0	15		ROTARY 47.0-
46		46.0	16		
48					

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0056 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
3	182.0	190.0	8.0	8.6
4	190.0	198.5	8.5	8.5

Hole SHOB-2C
 Page 2 of 2
 Date 10/18/06
 Name D. LEPPER

Photos

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
182					SID (180.0-180.2) TAN V. HD CLY (180.2-184.3) GY, CLN, BENT
184		184.3 S14 184.8 S15 185.5	INCREMENT 11	SHAT PY*	SHARP ORG c base of cly CO (184.3-197.7) BLK c Top woody clayey? 185.5-186.0
186		S16 186.8 S17	12 13	PY BLK-SHAT TR PY	
188		188.4 S18	14	PY PY	
190		190.0 S19	15	DI *PY	RUN HARD no 2 gr shly mostly black
192		191.8 S20	16	BP PL PS WASHED	
194		193.6 S21	17	WASHED	
196		195.0 S22 196.2 S23	18 19	CLT 20-30 PL-IRR BRN-PY PY WASHED PY	BRN-woody
198		197.2 S24 197.7	20		SL. ASHY & BLK SHARP CLY (197.7-198.5) GY, BENT, ORG c top
200					TD 198.5

NORWEST

Norwest Corporation
 130 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Completion Report

Location
 Hole I.D. SHOB-10c Location SENE Section 15 Twp 139N Rng 98W
 Project Great Northern Ref. Lease South Heart County STARKE State SD
 Survey System _____ North _____ East _____ Elev. _____
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. 2515'
GPS elor 650695E / 5191202N NAD 83

Drilling
 Drilling Co. Mohl Driller MARCUS Start 10/12/06 Finish 10/12/06
 Total Depth _____ Surface Casing Size _____ to _____
 Hole Size 5", 0 to TD, _____ to _____, _____ to _____
 Casing Size NA, _____ to _____, _____ to _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths 70', _____, _____, _____, _____, _____
 Drilling Conditions 10R Air 0-120 Water 120-TD Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
<u>H4</u>	<u>60</u>	<u>83</u>	<u>63.1</u>	<u>81.5</u>	<u>D / 18.4</u>	<u>607</u>	<u>100%</u>	<u>0.1</u>

Logging
 Company Century Operator B MATAS Date 10/12/06
 Log Depth (ft.) 200' Logs Run: Gamma Density Resist Calip Other
 Describe Logged twin hole SHOB-10R

Completion
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation
 Explain _____

Remarks
Twin. SHOB-10R DRILLED TO 200' + offset 270' to NE w/10c

 Report Completed By D. LEPPERT Title Geologist Date 10/12/2006

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0056 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
1	60	70	10.0	7.7
2	70	88.0	13.0	11.6

Hole SHOB-10C
 Page 1 of 2
 Date 10/12/06
 Name D. LEPPER

Photos

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
60					CORE LOSS (60.0-62.4) Prob SS
62					
63.1				R4	SS (62.4-63.1) LT GY, FG, S+P, HD MASSIVE R3
63.7					
64				CLT m	CO (63.1-81.5) 18.4
64.8				TPY	V. DK GY-BLK, top foot is washed w/minor SS contamination & thin SS interbeds at top DK BRN woody bands at w/black CO
66					
66.4					
68					
68.2					
70					
70.0					
70.5					
72					
72					
73.7					
74					
74.6					
76					
76.3					
78					
78.0					
78.45					
79.7					

INCREASING

BOX 1

BOX 2

BOX 3

BOX 4

R4 R4 (washed)

CLT m

TPY

TPY Washed

BP PL 85

3 PY

BP 90 PL

TR PY BP, 85 PL, SM

75 BP PL

SS (62.4-63.1) LT GY, FG, S+P, HD MASSIVE R3
 CO (63.1-81.5) 18.4
 V. DK GY-BLK, top foot is washed w/minor SS contamination & thin SS interbeds at top DK BRN woody bands at w/black CO

TR PY

RUN 1 END
 BLK
 BRN, WOODY

73.4 - 74.6 CO/SS INTERBEDS
 THIN BEDS OF VF SS, IT-MG, SLT, SFT, interbedded w/ mostly blk CO

CO 74.6-
 woody

WOODY, DK BRN

78.45 - TRAY 1/2

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-10C
 Page 2 of 2
 Date 10/12/06
 Name LEAPER
 Photos Taken

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
80		S13	10		PY RUBBLE BEDDING 081.1 CLY (<0.1) M.GY, CLM, BENT (81.5-81.6) CORE LOSS 81.6-83.0 LOOKS LIKE ALL CO WAS RECOVERED. CLAY IN BIT
82		80.9 S14 81.5	11		
84					
86					

NORWEST

Norwest Corporation
136 East South Temple, 12th Floor
Salt Lake City, Utah 84111
(801) 539-0044
(801) 539-0055 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-12C Location SW NE Section 16 Twp 139N Rng 98W
Project Great Northern Power Lease South Heart County STARK State ND
Survey System _____ North _____ East _____ Elev. _____
Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. ~2586
E 648296 / N 5190618

Drilling

Drilling Co. Mohl Driller MANNUS Start 10/16/06 Finish 10/16/06
Total Depth 102 Surface Casing Size _____ to _____
Hole Size _____ to _____ to _____ to _____
Casing Size _____ to _____ to _____ to _____
Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
Water Invasion Depths _____, _____, _____, _____, _____
Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
<u>1 1/2"</u>	<u>78</u>	<u>102</u>	<u>79.7</u>	<u>100.4</u>	<u>D/20.7</u>	<u>1.7</u>	<u>100%</u>	<u>1.6</u>

Logging

Company CENTURY Operator B. MATAS Date 10/16/06
Log Depth (ft.) 110.0 Logs Run: Gamma Density Resist Calip Other
Describe Elog on SHOB-12R

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
_____ to _____ Cement (Bags) _____ Monitoring _____
_____ to _____ Cement (Bags) _____ Monitoring _____
Contractor _____ Representative _____ Date ____/____/____
If open, explain _____

Reclamation

Explain _____

Remarks

Twin to SHOB-12R - TD=110

Report Completed By _____ Title _____ Date ____/____/____

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
1	78.0	93.0	15.0	15.0
2	93.0	101.0	9.0	9.0

Hole SN08-12C
 Page 1 of 2
 Date 10/16/06
 Name D. LEPPER

PHOTOS

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
78		GT 1 78.6			CU (78.0 - 79.7) m - all qtz, mostly clin bents to py
		79.2			
		GT 2 79.7			CU (79.7 - 100.4) 20.7
80		S1 80.4	U	py	mixed blk woody dk brn
		S2	U		
		81.6		py CLT-pow	
82		S3		curv	MOSTLY BLK
		83.2		BP PL SS	
84		S4	Box 1		
		84.8		CLT, PR	
		S5			
86		86.4		CLT IRR	muddy streak
		S6			
88		88.0			mostly woody MASSIVE
		S7		BP CLT	
90		89.8			
		S8	Box 2		mostly DI/transition
		91.6			
92		S9			
		93.0			
		S10			run M. OSLY BLK
94		94.1		py CLT POOR IRR	
		S11			
		95.8		CLT curv	
96		S12	Box 3		woody
		97.6			
98				BP	

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SN03-12C
 Page 2 of 2
 Date 10/16/06
 Name D. LEPPERT

Photos Taken

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
98		S13			Co - mostly dk brn - woody } woody GRAD SS (100.4 - 102.0) gy, fm gy s+p, wcr clay base RZ TD 102.0
99		98.8			
		S14			
		99.8			
100		S15			
	100.4	Box 4		D1	
		G-T3			
		102.0			
102					

GT Box 2

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Completion Report

Geo Tech
 CONT. CORE

Location

Hole I.D. SHOB-15C Location S.0 NE 50 Section 15 Twp 139N Rng 98W
 Project Great Northern Power Lease South Heart County STARKE State ND
 Survey System _____ North _____ East _____ Elev. _____
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. est 2545
E 649909 N 5190680

Drilling

Drilling Co. Mohl Driller MARCUS Start 10 / 14 / 06 Finish 10 / 15 / 06
 Total Depth 118 Surface Casing Size NA _____ to _____
 Hole Size 5" _____ to _____, _____ to _____, _____ to _____
 Casing Size _____ to _____, _____ to _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water? _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	COAL Recovery	Floor
			From	To				
<u>HG</u>	<u>0</u>	<u>110.5</u>	<u>13.0</u>	<u>22.2</u>	<u>9.2</u>		<u>100%</u>	
			<u>23.7</u>	<u>25.1</u>	<u>1.4</u>		<u>100%</u>	
			<u>34.6</u>	<u>37.5</u>	<u>2.9</u>		<u>100%</u>	
			<u>86.0</u>	<u>102.7</u>	<u>D / 16.7</u>		<u>100%</u>	

Logging

Company CENTURY Operator B. MATAS Date 10 / 15 / 06
 Log Depth (ft.) 117.80 Logs Run: Gamma Density Resist Calip Other
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____ / ____ / ____
 If open, explain _____

Reclamation

Explain _____

Remarks

Continuous Core - geotech. 12 geotech samples, core to 110.5, rotary to TD

 Report Completed By D. LEPPER Title Geologist Date 10 / 17 / 06

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0056 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered	Recovery %
8	20.5	30.5	10.0	10.0	60.9
9	30.5	40.5	10.0	10.0	8.0

Hole SH0315C
 Page 2 of 6
 Date 10/14/06
 Name D. LEPPERT

Photos

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
		20.0			
		S7		BP	CO (CONT) WOODY, DK BRN
		20.5			RUN CLY (20.9-21.1)
		S8			CO (21.1-22.2)
		21.6		85	M-DK BRN DK BRN-WOODY, TRZ PY
22		S9		BP PL	
		22.2			
		22.5		R1	CLY (22.2-23.7)
		GT2		wavy	
		23.0			
24				BP	CO (23.7-25.1)
				R1.5	DK GY - BLK w/CLY CTOP
					WOODY -
					GRADATIONAL
					CLY (25.1-25.9)
26					SS - (25.9-34.6)
					LT GY, VFG, VAR LAMS, CLY- OCL SC. OUB
		27.25		R1	
		GT3			
28		27.8			
				D1	
				Rubble	
				DI	
30					
					RUN
				D1	
				D1	
32					SS, 79, 49 a/c w/lam - var x bl.
34				IRZ	INCR ORG CASE, POSS BURROW - BIOTURB
				D1	
		34.6			GRAD
				R1.5	CO (34.6-37.5)
		S10		PY	
36					
		36.2		CLT	
				0-5	
		S11		PL	
					CLY PTF 36.6-36.8
		37.5			CO/CLY (37.5-38.4)
38					INTERBEDDED CO/CLY
		S12			GRAD
		38.4		BP	CLY (38.4-39.3)
				wavy, 85	GY, w/ ORG LAYERS CTOP, PLAS - BENT
				R1	
					SS (39.3-40.5) VFG, LAMS - CLY
40				Rubble	
				DI	

NO TEST

RUN

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered	
10	40.5	50.5	10.0	9.6	8.1
11	50.5	60.5	10.0	10.0	6.3

Hole SHOB - 15C
 Page 3 of 6
 Date 10/14/06
 Name D. LEPPERT

Depth	Grapho Log	Base	Sample	Discontinuities	Lithologic Description
					- RUN CORE LOSS (40.5-40.9)
42				R1 ^{D1}	SS. LT GY, FG, A/A (40.9-42.2)
					- GRAD
					CLY (42.2 - 46.0) GY, FRM
44		44.0 GT 4 44.6		WASHED	
46				WASHED	(46.0-46.4) SS, FG, A/A, OCC CLY ZONES
					CLY (46.4-50.5) PRES LT GY, BENT, OCC SLTY ZONES
48		48.1 GT 5 48.7		BP PL 90	
50				Rubble D)	INCR SLT - RUN SANDY
52				BP PROB D)	CLY, A/A, w/ OCC thin slty-sdy zones
54				ORG LAMS	
56		55.2 GT 6 55.8			
58				IRG PROB ALL D1	
60					

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered	RQD
12	60.5	70.5	10.0	10.0	9.7
13	70.5	80.5	10.0	10.0	6.3

Hole SHOB-15C

Page 4 of 6

Date 10/15/06

Name D. LEPPERT

DKOTOS

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
					CONT
					CLY (- 62.5) m qy, ch, pls, cont
62	61.5 GT 7 62.0			R1	
				BP PL 85	SLTST (62.5 - 65.1) m GY, MASS, V HD
64	63.8 GT 8 64.4			R4	
				BP PL 90	
				BP PL 90	
66				BP PL	SS (65.1 - 72.8) vfg + muddy a top cleaner - pred-fg, H-m qy, frm xbed, org org lam e 5-10" dip
				BP 80 x bed	
68	68.0 GT 9 68.5			R1.5	
70				Rubb (D)	
				BP, Y (RD)	RUN
				80 PL	
				BP	
72				D1	
	coal frag			R4	SS (72.8 - 73.6) H qy, f-ang, v hld
				Rubb	CMFD-
74				R1	SS (73.6 -)
				Crumbly	m qy, m gr, w srt, sbrg, abnt dlc min Salt
76	75.2 GT 10 75.7				
78				Rubb	
80				Rubb	

-RUN

NORWEST

Norwest Corporation
 136 East South Temple, 18th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0056 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered	
				RGD	
14	80.5	90.5	10.0	5.6	4.2
15	90.5	100.5	10.0	10.0	5.0

Hole SH08-15C
 Page 5 of 6
 Date 10/15/06
 Name D. LEPPERT

PHOTOS

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description	
82					CORE LOSS (80.5-85.0) FRI SS WASHED OUT	
84						
86		86.0 13 86.5 14	10	(11)	R1 CRUMBLY	Ss (85.0 - 86.0) GY, F-mqf, crumbly, SET, abnt dk mins
88		87.5 S 15	12	(12)	MASSIVE	CO (86.0 - 102.7) V DLGY-BLK WOODY NO VIS PY MINOR SD CONTAMINATION ON COAL SURFACE-
90		88.6 S 16			WASHED SLIGHTLY	
92		90.5 S 17		(13)		RUN woody
94		92.0 S 18 93.2 S 19 93.8		(14)	CLT, Poor 0-5	py woody
96		S 20 95.6		(15)		
98		S 21 97.4 S 22 99.2		(16)	PL, 40	woody
100		S 23				woody

= RUN

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
16	100.5	110.5	10.0	10.6 5.7

Hole SH03-15C
 Page 6 of 6
 Date 10/15/06
 Name D. LEPPERT

PHOTOS

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
		100.5 ¹⁶ S24 17 101.0		P	Run ABNT PY
102		S25 18 102.0 S26 19 102.7 GT 11 103.3	SPL BROKE	CLY 0° PL, SM	CLY (102.7 - 104.4) DK of GY, BENT, FRM
104		104.5 GT 12 105.0		D1 20 PLC SM R1.5	GRAD SS (104.4 - 107.1) GY, VFG, FR TOP, NAR CLY, SFT -PY STAKS
106				Cur. 0-20 D1 Comp.	
108				R1	CLY (107.1 - 110.5) GY, BENT, occ SDV
110				Rubble	Run Rotary to 118.0 for RATHOLE
112					
114					
116					
118					
120					

NORWEST

Norwest Corporation
136 East South Temple, 12th Floor
Salt Lake City, Utah 84111
(801) 539-0044
(801) 539-0065 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-21C Location NE SW Section 16 Twp 139N Rng 98W
 Project Great Northern Power Lease South Heart County STARK State ND
 Survey System _____ North _____ East _____ Elev. _____
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. 22525

Drilling

Drilling Co. Mohl Driller MARCUS Start 10/16/06 Finish 10/16/06
 Total Depth 232 Surface Casing Size _____ to _____
 Hole Size 5" to _____ to _____ to _____
 Casing Size _____ to _____ to _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	COAL Recovery	Floor
			From	To				
HQ	53.0	76.0	53.9	74.3	D	0	100%	1.7
HQ	215.0	232.0	216.5	230.0	C	1.5	100%	2.0

Logging

Company CENTURY Operator B. MATAS Date 10/16/06
 Log Depth (ft.) 249.60 Logs Run: Gamma Density Resist Calip Other
 Describe E log on twin - SHOB-41R

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation

Explain _____

Remarks

Twin to SHOB-21R TD=250

 Report Completed By D. LEPPERT Title Geologist Date 10/17/06

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
1	53	68	15.0	13.7
2	68	76	8.0	8.5

Hole SHOB-21 C
 Page 1 of 3
 Date 10/16/06
 Name D. LEPPERT

PHOTOS

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
					Note: ADJUST DEPTHS BASED ON 2nd CORE CORE LOSS (53.0 - 54.4) 1.4
54		54.4			
		55.0		1 PY	CO (54.4 - 68.0) BLK,
		56.0		1 PY	Adjusted (53.9 - 67.5) 53.9 - 67.5 20.4'
		57.4		MASS	woody
		58		1 CLT @ Pool 2	
		59.0		BP wavy	
		60		1 CLT	
		60.8		BP 85 PL	
		62		1 CLT 15	MOSTLY DIL BRN, woody
		62.6		1 PY	
		64		1 PY-on bed	
		64.4		1 PY	
		66		1 PI	
		66.2		BP wavy	
		68			woody a/n - RUN
		68.0			
					SUBTRACT 0.5 FROM THESE DEPTHS. 0.5 OF CORE LOSS APPARENTLY WAS AT BOTTOM + PICKED UP ON RUN 2

2.5
 13.2

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
2	68	76	8.0	8.5

Hole SH03-21C
 Page 2 of 3
 Date 10/16/06
 Name D. LEPPERT

Photos

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
68		67.5 S10 68.6 S11 70.3 S12 72.0 S13 73.3 S14 74.3 74.7 GT1 75.3			REC 0.5 FROM RUN 1 (minor section) CO (67.5 - 74.3) BLK - DK BRN - 40 BP X BED BP PL Sm PY-minor TR PY FR PY BP PL Sm GRAD CLY (74.3 - 74.7) GRAD GY, BENT MIXED w/ ORG MAT SS (74.7 - 75.6) DIST H qy, qy CLY (75.6 - 76.0) w GY, BENT, PLAS, CAN
70					
72					
74					
76					

NORWEST

Norwest Corporation
 130 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
3	215.0	230.0	15.0	15.0
4	230.0	232.0	2.0	2.0

Hole SHDB-21C
 Page 3 of 3
 Date 10/16/06
 Name D. LEPPERCT

PHOTOS

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
216		C SEAM			Silt MINOR SP from above + incomp CLY (215.0-216.5) M GY, BENT w/ SDV (Gy) tenser, fr Py
216.5	S16	217.3		Rubby/ CLT	SKINNY CO (216.5-223.0) CLY-SDV w/in conl BRN. CO- mostly brn wooly
218	S17	218.3			
220	S18	220.0		SLAT	
222	S19	221.8		BP PL S5	
224	S20	223.0		BP PL	PTG (223.0-223.6) approx to bc sl. clayey CO (223.6-230.0) BLK-DK BRN - mostly wooly
226	S21	223.6		BP PL	
228	S22	225.0			massive, dk brn wooly
230	S23	226.6		Py	
232	S24	228.0			
234	S25	229.5		DI	
236	S26	230.0			RUN CLY 230.0-232.0 (no photo) M GY, BENT

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0066 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered	
				RD	D
1	0	2	2.0	2.0	0-NA
2	2	4	2.0	2.0	0-NA
3	4	6	2.0	2.0	1.2
4	6	8	2.0	1.9	1.3
5	8	10	2.0	2.0	1.1
6	10	12	2.0	1.8	0
7	12	20	8.0	0.5	0

Hole SHOB-25C
 Page 1 of 4
 Date 10/19/06
 Name D. LEPPER

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
0				12A 12A	Soil - (0-1.8) dk brn, clayey.
2				R1 Rubble	DISTINCT subsoil (1.8- 2.0) ol brn, mod crumbly, minor salts/calc sandy w/ mud cl
4		4.3 GT 1 5.2		R1.5 Rubble	Run
6				12R, R6-H 85 Rubble	Run
8				12R, R6-H 70	Sandy subsoil, clayey ol brn, a/a
10				Rubble	minor calc
12				R1 Rubble	Run
14					
16					
18					
20					Clear Hole out to 12', pickup core barrel CORE 12-20- CORE SUD OUT - REC. 0.4 - Go back in & try to pull - P

PHOTOS

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered	RECD
8	20	30	10.0	10.0	6.8
9	30	40	10.0	10.0	7.5

Hole SH00-25C
 Page 2 of 4
 Date 10/19/06
 Name D. LEPPER

PHOTOS

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
22		No Sample possible BREAKS TOO EASILY		BP 65 PL RGH PL 50 NLT0B06 R1.5	SS (20-25.6) Pale yell, FG, SOFT, FIRM - BREAKS EASILY ON BPs, typ 0.05 - 0.1, occ Fe Stn - py,
24				NR 80 SPUN? J RL Curved 3m 0-10 R3	R2-3 but breaks easily on BP - cannot get sample
26				R1	DIST SS (25.6 - 40.0) yel-OR, PG, w/finely spaced org lam. V. SOFT, CAN EASILY CRUMBLE w/FIN BRS
28		27.1 GTZ 27.7			
30				Rubble - RUN	
32				BP PL 5M 75	
34				BPs, PL 5M, 75	SS, ca/a, & finely lam, oned f-mg, w/ int
36		35.6 GT 3 36.4		NR BP PL 5M 75 BP PL 5M 70	cannot
38		cannot sample breaks too easily			
40				Rubble - RUN	

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0966 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered	
				(Kg)	(%)
10	40.0	50.0	10.0	6.9	2.4
11	50.0	60.0	10.0	4.8	0

Hole SH03-2SC
 Page 3 of
 Date 10/19/06
 Name D. LEPPELT

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
40					CORE LOSS (40.0-43.1)
42					
44		R3 R4		AL, SM 90 PL, SM, 80 Rubble V. SFT	Cemented layer (43.1 - 43.7) SILICIFIED SS OR. HVY FE STN, SS. (43.7-54.8) R1
46		BRANKE 46.7 GT3 47.2		BP, PL, SM 60	Pale yellow w/ min Fe stn, v. soft, crumbles easily, LAM THROUGHOUT.
48				Rubble	CAVITY SS V. SOFT LOOSE SD, qy, F-MG.
50				WAFERS	LAM.
52		NO PIECES TO SAMPLE		V. SOFT Rubble R1	-RUN SS (a/r qy, mostly unconsol f-mg, CAN EASILY STICK FINGER IN
54					TR CO @ bottom of core.
56					CORE LOSS (54.8-60.0)
58					DRILLER GET TOP OF CO ~ 58.8
60					TR

NORWEST

Norwest Corporation
 186 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0056 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered	
12	60	70	10.0	9.8	6.9
13	70	80	10	10.2	6.5

Hole SH08-2SC
 Page 4 of 4
 Date 10/19/06
 Name D LEPPEN

PHOTOS

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
		60.0			
		59			
		60.5			
		58			
		61.5			
62		53			
		63.0			
64		54			
		64.8			
		55			
66		66.6			
		56			
68		68.4			
		57			
70		69.8			
		58			
		71.4			
72		59			
		73.0			
		510			
74		74.0			
		511			
		75.0			
		512			
		75.5			
76		76.2			
		GT4			
		76.8			
		77.2			
		GT5			
78		78.2			
80					

CO₂ (60.0-75.5) 15.5
 salts? / gyp?
 Prcl BLK
 = wh. staks, salts-gyp?

Rubble
 CLT
 PLISM, O

BP
 PL, SM, d
 85
 BP PL, SH
 85
 IR, S, High
 salts.

wavy sm
 85
 cin
 x py

BRODED

90
 wavy
 sm

BP PL, SM
 CLT 10
 PLISM-IRK

IRK - large

DIST
 CLY, LT qtz sdy @ top,
 GT 4 sandy CL
 GTS
 SS - FG, GY, CWBY

DEAR CLY

Rotary to TD for Elog, 85'

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Completion Report

Location
 Hole I.D. SHOB-30C Location NW NE Section 23 Twp 139N Rng 98W
 Project Great Northern Buy Lease South HEART County STARK State ND
 Survey System _____ North _____ East _____ Elev. _____
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. ~2515

Drilling
 Drilling Co. Mohl Driller Marcus Start 10 / 19 / 06 Finish 10 / 20 / 06
 Total Depth _____ Surface Casing Size NA _____ to _____
 Hole Size 5" _____ to _____, _____ to _____, _____ to _____
 Casing Size NA _____ to _____, _____ to _____, _____ to _____
 Lost Circ. NA to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
<u>KG</u>			<u>7.8</u>	<u>9.5</u>	<u>1.7</u>		<u>100%</u>	
<u>KG</u>			<u>53.15</u>	<u>74.45</u>	<u>D / 26.3</u>		<u>100%</u>	

Logging
 Company CENTURY Operator B. MATKUS Date 10 / 20 / 06
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other _____
 Describe _____

Completion
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____ / ____ / ____
 If open, explain _____

Reclamation
 Explain _____

Remarks
Geotech Hdc - continuous core through D, Rotary through C' Seam

 Report Completed By D. CARBERT Title GEOLOGIST Date 10 / 22 / 06

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered	
				RD	LD
8	20.0	30.0	10.0	9.3	7.2
9	30.0	40.0	10.0	9.8	8.0

Hole SHOB-30C
 Page 2 of 4
 Date 10/19/06
 Name D. LEPPERT

Photos

Depth	Graphio Log	Base	Sample	Discontinuities	Lithologic Description
				IRR	CLY (20.0-26.9 DK GR BENT w/ yellowish so. typ. ash? layers
22				PL 90 SPIN? PL	BREKES ON SANDY LENSES occ org lam.
24		24.2 GT4 24.8			
26		26.3 GT5 26.9 27.2 GT5 27.8		IRR 40 CLN Prob D1 66 IRR RGN CLN FRAC ON BACK	GRAD SS (26.9-29.3) 10 LEVEL, GY, CL FG, CLAY l.p., GRG LAMS
28		28.2 GT5 28.8			
30				Rubb	CORE LOSS (29.3-30.0) RUN CLAY (30.0-32.5 DK BRN w/ SANDY ZONES
32				PL 90	GRAD CLY, DL GR, CLN, BENT, ORG L TOP (32.5-35.6)
34		34.3 GT6 34.9			
36		36.5 GT7 37.1		J 30 PL, R, CLN Rubb	DISTINCT SS (35.6-39.8) gy, f-mg, abnt org lams, sl. glau. can crumble w/ finger
38				J, 20 PL, Sm	
40					CORE LOSS (39.8-40.0)

NORWEST

Norwest Corporation
 196 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 538-0044
 (801) 538-0066 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered	
10	40	50.	10.	10.6	7.7
11	50	60	10	10.6	8.5

Hole SHOB-30C
 Page 3 of 4
 Date 10/20/06
 Name D. LEPPENT

Depth	Grapho Log	Base	Sample	Discontinuities	Lithologic Description
40				PL 10 RGL1-1R2	SS (40.0-42.7) GY, F-MG, V. SOFT, C CAN PUSH FINGER IN
41.6		41.6		R1	
42		G-T8 42.2			
43.3		43.3		R3	ERO SS (42.7-44.5) LT GY, CRS GR, HD ↳ nearly fine egl.
44		G-T9 44.1		85 PL, 90 8A, PL1	EROS SS (44.5-53.15) GY, F-MG, abnt org lam e top, variable below
46		46.2 G-T10 46.8		R1	
48		abnt org lam			
50				D1	SS a/a -RUN
52		52.2 G-T11		shale	
53.15		52.8 53.15 S1			SHARP CO @ 53.15 - 74.45 BLK, pyc contact mud. muddy bands @ top
54		53.7		P1 SP, SS, PL	
56		S2 54.7			
58		S3 56.4			
60		S4 58.2			
		S5 60.0			

Increment

Box 1

4

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0944
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
12	60	70	10	10 4.3
13	70	80	10	10 6.7

Hole SHOPS-30C

Page 4 of 4

Date 10/20/06

Name D. LEPPER

Photos

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
		66.0			minor sd contam from uphole
		S6	4		
		61.2		30-50 curved sm, clin	mud band 6.05
		S7	5		SOFT- POSS CLAYE 3 R1
62		62.1			v. dk brn 63.1 v. thin mud band
		S8	6		
		63.8			
64		S9	6	curved mud + py	
		65.6		rd blk	
66		S10	7	CLT 10 PL, sh	e 66.6 ~ 0.05 mud
		67.4		curved sm, clin	
68		S11		R2	
		69.0			dk brn - woody
		S12		BP, PL	
70		70.0	8	BP, PL (1) shaly rubble PY	RUN 71.25 - 71.35 mud - brn mostly dk brn - woody to base
		S13			
		71.8			
72		S14	9		
		73.0		ERODED BP, PL, BS	
		S15	10	BP	
74		73.9		BP, BS	py streaks
		S16	11	PL, PY	GRAD
		74.45			CLY (74.45-80.0) CL, ORG STRKS THROUGH GRAD, BENT
		74.6			
		GT 12			
		75.2			
		75.8			
76		GT 13		R1	plnt argillams
		76.5			
				45	
78				PL, 45	
				prob DI	
				PL, special 90	
80				PL, RGH 90	

Rotary to TD through C seam

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 538-0044
 (801) 538-0065 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-34C Location SE NW Section 22 Twp 139 N Rng 98W
 Project Great Northern Power Lease South Henri County STARK State ND
 Survey System _____ North _____ East _____ Elev. _____
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. ~2516

Drilling

Drilling Co. Moh/ Driller Marcus Start 10/20/06 Finish 10/20/06
 Total Depth 76.0 Surface Casing Size NH _____ to _____
 Hole Size 5" _____ to _____, _____ to _____, _____ to _____
 Casing Size _____ to _____, _____ to _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions (Air) _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Coal Recovery	Floor
			From	To				
<u>AG</u>	<u>54.0</u>	<u>76.0</u>	<u>55.4</u>	<u>74.9</u>	<u>D/19.5</u>	<u>0.4</u>	<u>100%</u>	<u>1.4</u>

Logging

Company Century Operator B. MATAS Date 10/20/06
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Cap Other
 Describe E-Log on twin - 34R

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation

Explain _____

Remarks

Twin to SHOB-34R through 'C' seam moved - 15' west R->C

 Report Completed By D. LAPPENT Title Geologist Date 10/22/06

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
1	54.0	69.0	15.0	14.0
2	69.0	76.0	7.0	7.0

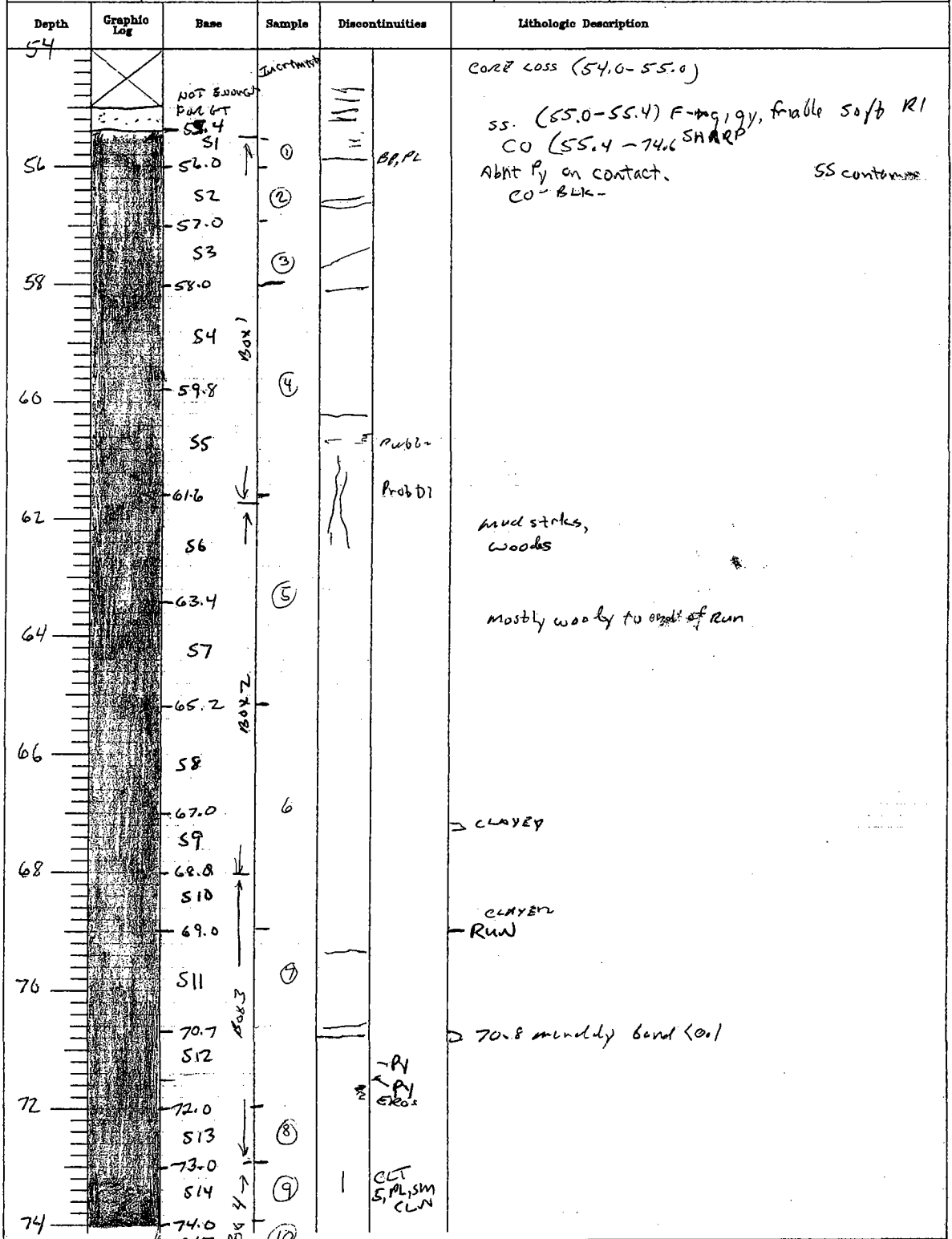
Hole SH08-34C

Page 1 of 2

Date 10/20/06

Name D. LEPPERT

PHOTOS



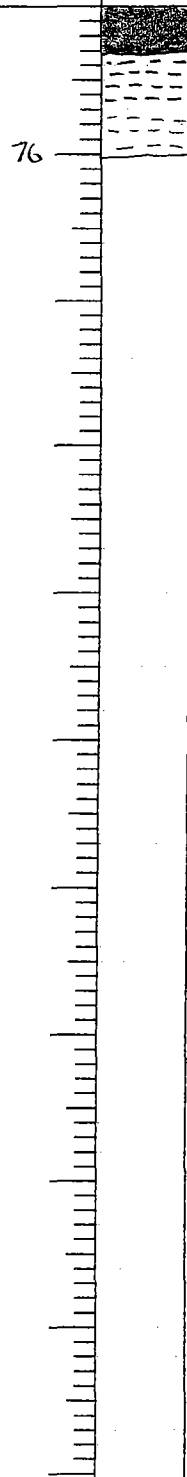
NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
Z	69.0	76.0	7.0	7.0

Hole SHOB-34C
 Page 2 of 2
 Date 10/20/06
 Name D. Leppert
 Photos

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
76		74.6 75.0 GT1 75.6		= 8P/CUT	SHARP/ANGULAR - Evapor? CLY (74.6 - M-DK GY - OL W, TD 76.0

NORWEST

Norwest Corporation
136 East South Temple, 12th Floor
Salt Lake City, Utah 84111
(801) 539-0044
(801) 539-0055 FAX

Drill Hole Completion Report

Location
Hole I.D. SHOB-41C Location SESE Section 21 Twp 139N Rng 98W
Project Great Northern Power Lease South Heart County STARK State ND
Survey System _____ North _____ East _____ Elev. _____
Approx. Location: FNL (FSL) 300 FED (FWL) 300 Elev. ~2550
649153 E / 5188639

Drilling
Drilling Co. Mohl Driller MARCUS Start 10 / 14 / 06 Finish 10 / 14 / 06
Total Depth 64 Surface Casing Size NA to _____
Hole Size 5" to _____ to _____ to _____
Casing Size _____ to _____ to _____ to _____
Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
Water Invasion Depths _____, _____, _____, _____
Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
<u>UQ</u>	<u>44.0</u>	<u>64.0</u>	<u>45.7</u>	<u>63.0</u>	<u>D</u>			

Logging
Company Century Operator B. MATAS Date 10 / 14 / 06
Log Depth (ft.) 196 Logs Run: Gamma Density Resist Callp Other _____
Describe E log on twin - 41R

Completion
_____ to _____ Cement (Bags) _____ Monitoring _____
_____ to _____ Cement (Bags) _____ Monitoring _____
_____ to _____ Cement (Bags) _____ Monitoring _____
Contractor _____ Representative _____ Date ____ / ____ / ____
If open, explain _____

Reclamation
Explain _____

Remarks
Twin to SHOB-41R ~ 15' N S 41R 41C N E1
41R TD=200
Report Completed By D. LEPPERT Title Geplogist Date 10 / 17 / 06

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
1	44.0	54.0	10.0	9.9
2	54.0	64.0	10.0	10.0

Hole SHOB-41C
 Page 1 of 1
 Date 10/14/06
 Name D. LEPPERT

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
					Loss e top
				R1	SS (44.0 - 45.7) gy, v f-fg, w srt, sft, incr cly near base
					SHARP
46	45.2 S1 45.7 S2 46.3 S3				
				st. Rubby	
48	47.3 S4				CO (45.7 - 63.0) 17.3 BLK, v. thin ss lenses e top, tr py woody, dk brn, intcat
				CLT, S	
56	49.0 S5 49.9 S6 50.6 S7				woody
52	52.2 S8				mostly woody to end of run
				Rubble PY	RUB MOSTLY WOODY, MASSIVE
54	54.0 S9				
56	55.8 S10				R2
58	57.6 S11				
60	59.2 S12 60.0 S13				PY - LARGE MASS WOODY
62	61.5 S14				
64	62.5 S15 63.0 S16 63.5				R1 CLY - m-dicgy, bent. SS (63.0 - 63.5) SS (63.5 - 64.0) vfg, ht-m gy, clayey, v py org frag

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-44C Location NE NE Section 27 Twp 139N Rng 98W
 Project GREAT Northern Power Lease South Heart County STANCK State SD
 Survey System _____ North _____ East _____ Elev. _____
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. 2520
 GPS 650769

Drilling

Drilling Co. Mohl Driller MARCUS Start 10 / 11 / 06 Finish 10 / 11 / 06
 Total Depth 65 Surface Casing Size _____, _____ to _____
 Hole Size 5", 0 to TD, _____, _____ to _____, _____, _____ to _____
 Casing Size _____, _____ to _____, _____, _____ to _____, _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
HQ	45	65	46.9	63.3	D	1.9	100%	1.7

Logging

Company CENTURY Operator B. MATAS Date 10 / 11 / 06
 Log Depth (ft.) 160 (44R) Logs Run: Gamma Density Resist Calip Other
 Describe E-log on twin - SHOB-44R

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____ / ____ / ____
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN to SHOB-44R ~ 10' to West W 44R 44C E

 Report Completed By D. LEPPER Title Geologist Date 10 / 11 / 06

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Note: ~10' offset from closed hole

Core Number	Top	Base	Cut	Recovered
1	45	55	10.0	8.6
2	55.0	65.0	10.0	10.1

Hole SHOB-44 S
 Page 1 of 1
 Date 10/11/06
 Name J. Leppert
 Photos

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
44					
46		46.3	INCREMENTS	RT.	DRILLERS SAND BLOW AWAY TOP SAND SS 46.3-46.9, fine, subang. sft, abnt carb lam, tr py SHARP CL
48		46.9	1		SS (46.3-46.9)
50		47.5	2		CO (46.9-63.3) 10.4 Blk. FCM-mud H ₂ O, ool chb, 3 SFT. crumbly, though intact 48.3 - BRN-woody streaks
52		50.4	3	CLT, 5' PL, 5m	
54		52.2	4	CLT 5' PL, 5m	52.3-55 - mostly brn, woody - no chb
56		53.8	5		53.2 Abnt Py
58		55.0	6	B, PL, 5m	
60		56.5	7	UNPER 50'	55-56 - mostly blk w/ mnv brn striae
62		58.3	8	70	BRN - 'woody'
64		59.4	9		Py - ol
66		62.7	10	wool 70	
68		63.3	11	wool 70	Py striae CO, (63.3-65.1) in qtz sl. ol., bentonitic - plastic

65

NORWEST

Norwest Corporation
 136 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0066 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB 47C Location (SW/SE) Section 27 Twp 139N Rng 98W
 Project Great Northern Power Lease SOUTH HEAVY County STARK State ND
 Survey System _____ North _____ East _____ Elev. _____
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. ≈ 2028
E 5187065 N 649988

Drilling

Drilling Co. Mohl Driller MARCUS Start 10/13/06 Finish 10/13/06
 Total Depth 199.5 Surface Casing Size NA to _____
 Hole Size 1 5" to _____ to _____ to _____
 Casing Size NA to _____ to _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
HQ	46.0	57.0	46.25	55.3	D 15.05	.25	100%	1.7
HQ	184.5	199.5	184.95	198.6	C 13.65	.45	100%	0.9

Logging

Company CENTURY Operator B. MATAS Date 10/13/06
 Log Depth (ft.) 209.6 Logs Run: Gamma Density Resist Calip Other
 Describe Elog on SHOB-47R-TWIN

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation

Explain _____

Remarks

47R Pilot Hole to 210'

 Report Completed By D. LEPPERT Title Geologist Date 10/17/06

NORWEST

Norwest Corporation
 186 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
1	40.0	50.0	10.0	9.35
2	50.0	57.0	7.0	7.4

Hole SH08-47C
 Page 1 of 2
 Date 10/13/06
 Name D. LEPPERT

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
		40.25			CLY (40.0-40.25) dk gy-brn. sil. ol plastic, w/ feldic shreds
		40.9			
		52			
42		41.9		BP, PL, 90	CO (40.25-55.3)
		53			DK GY-BLK, DK BRN, CLN-NO VIS PY OR PTGS
		43.5		INTACT BUT SHATTERED	WOODY @ 41.2-41.9
44		54		Poly DEV CUT	CLT WITH AN COATING.
		45.2			WOODY-BRN-
46		55		SOFT 24.5 BLV	SL. CLAYEY?
		46.7			
		56		-PY ON BDR	
		47.3			
48		47.9		PY	47.3-47.7 CLAYEY LIG
		58		-PY	
		49.35			CORE LOSS (49.35-50.0) PARTIAL REC. ON RUN 2
50		46.8			RUN 1
		59			LIG MOST DK BRN-WOODY, W/ OCC BLK ZONES THAT TEND TO BE (RUBBY)
		50.7		BP 4PY	
		510		<PY	
52		51.6			
		511			
		53.0			
		512		PLATY	
54		53.8			
		513		BP WAVY 85	
		54.8			
		54.9			
		55.3			
56					CLY (55.3-56.0) ol gy, bent
					SS (56.0-57.0) gy-gy qtz, vt-fg, CLAYEY
58					

NORWEST

Norwest Corporation
 196 East South Temple, 12th Floor
 Salt Lake City, Utah 84111
 (801) 539-0044
 (801) 539-0055 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered
3	184.5	199.5	15.0	15.0

Hole SH08-47C

Page 2 of 2

Date 10/13/06

Name D. LEPPERT

PHOTOS

Depth	Graphic Log	Base	Sample	Discontinuities	Lithologic Description
184.5		184.95			(184.5-184.95) CLY - m-gy - olgy, bent, org e base
		S15			DISTINCT CO (184.95-198.6)
185.4		185.4			
186		S16	Box 3		woody - dk brn
		186.4			
		S17			
188		188.2	Box 4		
		S18		STRIKES MASSIVE	
190		190.0			very unform, cln, no vis py.
		S19			
192		191.8			
		S20			
		193.5			
194		S21		TR PY	
		195.2			
196		S22	Box 5	BP	
		197.0			
		S23		BP PL	
198		198.0			
		S24			
		198.6			DISTINCT CLY (198.6-199.5) m-dk gy, sl. peas,
200					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81508
 (970) 245-6562
 (970) 245-6494 FAX

Drill Hole Completion Report

Location

Hole I.D. SNOR-101 C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County STARK State ND
 Survey System SP27/NAD27 North 414523.439 East 136117.939 Elev. 2571.173
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 14 / OCT / 07 Finish 14 / OCT / 07
 Total Depth 94.0 Surface Casing Size _____ to _____
 Hole Size 5 5/8, 0 to 94.0, _____ to _____, _____ to _____
 Casing Size _____ to _____, _____ to _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3"	3	12	5	11	E	2		2
3"	23	31	25.8	30	E1	2.8		1.7

Logging

Company _____ Operator _____ Date ___ / ___ / ___
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ___ / ___ / ___
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN OF SNOR-103. NO 62606

 Report Completed By E664 Title GEOLOGIST Date 14 / OCT / 07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-6494 FAX

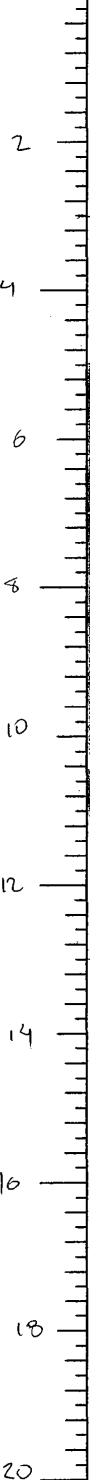
Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SUB-101C
 Page 1 of 4
 Date 14/Oct/07
 Name EGGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
2					
4					3-5 SDIC. SUB SURFAC. LIGHT BROWN to YELLOWISH BROWN, SOFT, OXID, GYPSUM CRYSTALS, WEATHERED.
5					5-10.3 <u>COAL</u> BLK, SOFT, SOOTY, WEATHERED.
6		S1		SOFT AND CRUMBLY	At 7.5. YELLOW CLAY INCL,
8		S2			At 8.2 GYPSUM CRYSTALS
9		S3			
10		S4			
10		S5			10.3-10.7 CLAY. DARK BROWN, SOFT, CRUMBLY
11					10.7-11.0 COAL. BLK. PULL WEATHERED, SOOTY SOFT. CONTAMINATED.
12					11.0-13.0 CLAY, LIGHT-DARK GRAY SOFT, SLY SANDY. OXID. ALONG FRACTURE.
14					
16					
18					
20					



NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8562
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SN08-101C
 Page 2 of 4
 Date 14/OCT/07
 Name E664
 PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
22					CORE POINT 23.0
24				FR	23.0-25.8 <u>MUDSTONE</u> MED-DRK GRY, SOFT, MASSIVE, SLY SILTY,
26		25.0 67-1 25.8 56 270		FR FR FR	25.8-28.0 <u>COAL</u> BLK, SLY DULL BONEY BANDS INTERBEDDED.
28		27.9 28.3 59 293		FR FR FR	PHYRITE AT 26.5, 27.0, 28.0-28.3 <u>MUDSTONE</u> LIGHT GRY, SOFT,
30		29.3 BT-2 3 30		FR FR	29.3-29.3 <u>COAL</u> BLK, MOD SFT, ABD PHYRITE CRYSTALS. 29.3-31.0 <u>MUDSTONE</u> MED BLUISH GRY, SOFT, MASSIVE, INTACT,
32					
34					
36					
38					
40					

NORWEST

Norwest Corporation
 748 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole S1103-1012
 Page 3 of 4
 Date 14 / Oct / 07
 Name EGG

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
72		74			core point. 72.0
74		S-10	X	BZ	72.0-74.0 - core loss.
75		S-11	X		74.0 - 91.5 <u>coal</u> blk, sly dull bone4 band inter beds. mod. Hrd. 74.0-75.0 contaminated by roof. sand mixture. broken
76		S-12		FR	76.5 PHYRITE CRYSTALS. BONEY BANDS AT: 76.3 78.3
77		S-13		FR	79.5
78		S-14		FR	80.0-86.0 V DULL, DARK BRW BONEY BAND ABD.
79		S-15			
80		S-16			
81		S-17			
82		S-18			
83	S-19				
84	S-20				
85	S-21				
86	S-22				
87	S-23				
88	S-24				
88.7	S-25				
89	S-26				
90	S-27				

AT 88.7 - BROWN CLAY VLEN.
 AT 90.1 PHYRITE CRYSTALS

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6562
 (970) 245-6494 FAX

Drill Hole Completion Report

Location

Hole I.D. SH02-103C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County STARK State ND
 Survey System SP27/NAD83 North 443668.845 East 1365041.701 Elev. 2572.365
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 14 / OCT / 07 Finish 14 / OCT / 07
 Total Depth 94.0 Surface Casing Size _____ to _____
 Hole Size 5 5/8, 0 to 94.0, _____, _____ to _____, _____, _____ to _____
 Casing Size _____ to _____, _____ to _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3"	6	16	9.1	13.6	E	3.1		2.4
3"	26	34	28	31	E1	2.0		3.0
3"	73	94	76	92.5	D	2.5		-

Logging

Company _____ Operator _____ Date ____/____/____
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other _____
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIND OF SH02-103, ND GP-LOG.

 Report Completed By EGGY Title GEOLOGIST Date 14 / OCT / 07

NORWEST

Norwest Corporation
 745 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-103C

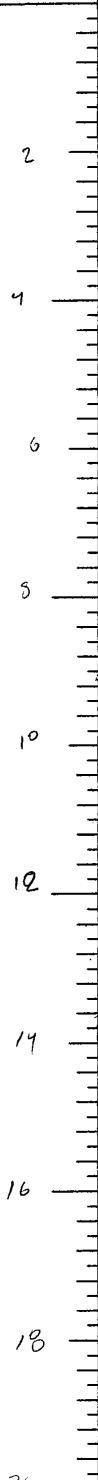
Page 1 of 4

Date 14/Oct/07

Name EGG

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
2					
4					
6					6.0-9.1 SAND MED-LIGHT GREENISH GRY, FM-MED GR, WELL SORT, SOFT, S-YOXID, OXID AT 8.5-9.1
8		8.5 67-1 9.1		3	
10		S-1 10			(9.1-9.3) <u>COAL</u> BLK, SOOTY, SOFT, WEATHERED (9.3-9.5) <u>CLAY</u> DARK BROWN, SOFT.
12		S-2 12			(9.5-13.6) <u>COAL</u> BLK, SOFT, WEATHERED, SOOTY, DULL, CRUSBY.
14		S-3 13 S-4 13.6 67-2 3 14.2			GYPSUM CRYSTALS 11.7, 12.8 DARK BROWN CLAY PARTING (0.1) AT 13.2 13.6-16.0 CLAY, MED GRY, SOFT, FRACTURED
16					
18					
20					



8.5
67-1
9.1
S-1
10
S-2
12
S-3
13
S-4
13.6
67-2 3
14.2

3
BOX 1
CRASHED

6.0-9.1 SAND MED-LIGHT GREENISH GRY, FM-MED GR, WELL SORT, SOFT, S-YOXID, OXID AT 8.5-9.1

(9.1-9.3) COAL BLK, SOOTY, SOFT, WEATHERED

(9.3-9.5) CLAY DARK BROWN, SOFT.

(9.5-13.6) COAL BLK, SOFT, WEATHERED, SOOTY, DULL, CRUSBY.

GYPSUM CRYSTALS 11.7, 12.8

DARK BROWN CLAY PARTING (0.1) AT 13.2

13.6-16.0 CLAY, MED GRY, SOFT, FRACTURED

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 572
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-103C
 Page 2 of 4
 Date 19 / Oct / 07
 Name EGGY
 PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
22					
24					
26					CORE POINT 26.0 26.0-28.0 MUDSTONE. MED-DK GRAY, SOFT, MASSIVE,
28					28.0- 30.0 COAL BLK, MOD HND, W/ SHINY PARTICLES AT 29.0 BONEY BAND. 30.0-31.0 CLAY STRIKES.
30				FL	
32				FL x x 62	30.9-34.0 SANDSTONE LIGHT BLUISH GRAY, SOFT. MASSIVE. V-FN GR-FN GR. V WELL- WELL SKT.
34				FL DRILL INS FL	
36					
38					
40					

NORWEST

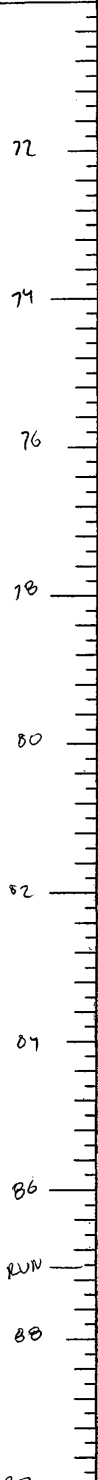
Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6552
 (970) 245-6494 FAX

Drill Hole Lithology Log

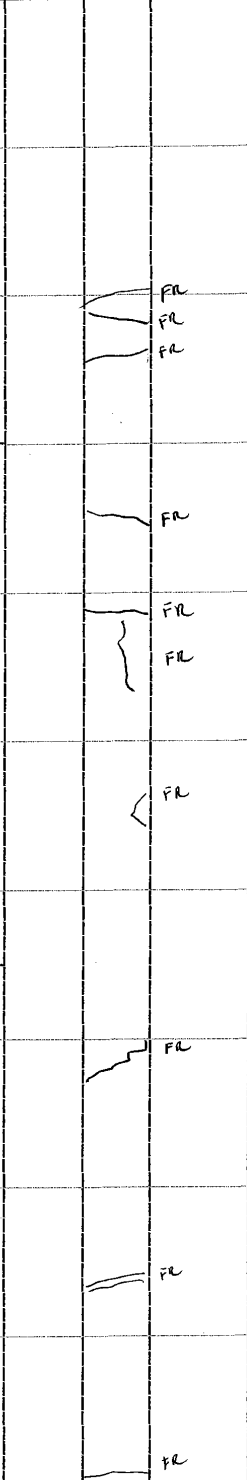
Core Number	Top	Base	Cut	Recovered

Hole SH08-103C
 Page 3 of 9
 Date 14/Oct/07
 Name E664
 PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
72					
73.5					COLE POINT 73.5 COLE LOSS 73.0-73.5
74					<u>SANDSTONE</u> LIGHT MED GRY, SFT, BROKEN CORNS.
74.6					AT 74.6 WHITE CLY INCLUSIONS
75.3		GT-5 3			
76					76.0-92.5 <u>COAL</u> BLK, MOD HRD. WITH SHINY PARTICLES. GCC BONEY BAND INTERBEDDED.
76					
78					
80					AT 80.0 PYRITE CRYSTALS
81.7					81.7-87.0 ABD BONEY BAND, DARK BROWN
82					
84					
86					
87					87.0-92.5 LOOKS BETTER, MOD HRD,
88					
89					
90					



75.3
 GT-5 3
 76
 S-8
 78
 S-9
 80
 S-10
 81.7
 S-11
 83
 S-12
 85
 S-13
 87
 S-14
 89
 S-15



FR
 FR
 FR
 FR
 FR
 FR
 FR
 FR
 FR
 FR
 FR

COLE POINT 73.5 COLE LOSS 73.0-73.5
SANDSTONE LIGHT MED GRY, SFT, BROKEN CORNS.
 AT 74.6 WHITE CLY INCLUSIONS
 76.0-92.5 COAL BLK, MOD HRD. WITH SHINY PARTICLES. GCC BONEY BAND INTERBEDDED.
 AT 80.0 PYRITE CRYSTALS
 81.7-87.0 ABD BONEY BAND, DARK BROWN
 87.0-92.5 LOOKS BETTER, MOD HRD,

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6562
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHORS-103C
 Page 4 of 4
 Date 14 / Oct / 07
 Name E664
 PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
92.5		S15 91 S16 92.5	BOX 4	PULL IND FR	92.5 - 94.0 <u>LOG LOSS</u>
94					
96					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6562
 (970) 245-6494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-104C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County _____ State _____
 Survey System SP27 / NAD 83 North 443563.657 East 1367678.295 Elev. 2546.818
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. NOHL DRILLING Driller JASON Start 15 / 04 / 07 Finish 15 / 04 / 07
 Total Depth 102 Surface Casing Size _____ to _____
 Hole Size 5 5/8", 0 to 102, _____, _____ to _____, _____, _____ to _____
 Casing Size _____ to _____, _____, _____ to _____, _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3'	9.0	19.0	10.3	18.2	E	1.3	100%	0.8
3'	27.0	35.0	29.4	32.6	E1	2.4	100%	—
3'	80.0	102.0	82.5	100.2	D	—		—

Logging

Company _____ Operator _____ Date ___/___/___
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ___/___/___
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN OF SHOB-104. NO GP LOG

 Report Completed By EGGY Title GEOLOGIST Date ___/___/___

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-104C
 Page 1 of 4
 Date 15 OCT /07
 Name EGY
 PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
2					
4					
6					
8					
9.7		6T-1	S	HALF CRUSHED	9.0-10.3 SAND MED-GRY - LIGHT BROWNISH YELLOW, SOFT, OXID, FIN GR - MED GL, UNCONSOLIDATED.
10.3		S-1			10.3-18.2 COAL BLK, WEATHERED, SOFT, SOOPY, DULL, CRUMBLY. WITH SCATTERED GYPSUM CRYSTALS.
11.0					
12		S-2			
13.0					13.0-18.2 SAME AS ABOVE, GYPSUM SCATTERED, WITH SOME YELLOW CLAY,
14		S-3			AT 17.6 BROWN CLAY PARTINGS (0.1")
15					
16		S-4			
17					
18		S-5			
18.2		6T-2	S	HALF CRUSHED	18.2-19.0 CLAY, DARK GRAY, SOFT,
19.0					
20					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SH08-1046

Page 2 of 4

Date 15 / Oct / 07

Name EGGY

PHOTOS TAKEN.

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
26					
27.0					CORE POINT. 27.0
28					27.0-29.4 <u>MUDSTONE</u> MED. DRK GRY, SOFT, MASSIVE, SLY SILTY.
29.4					
30					
31.5					29.4-31.5 <u>COAL</u> BLK, SLY HRD, ABD PHYRIC CRYSTALS DEVELOPED MICRO FRES ON COR SURFACE
31.8					31.5-31.8 <u>CLAY</u> WHITE GRY, SOFT,
32					31.8-32.6 <u>COAL</u> BLK, SLY DULL, INTERBEDDED WITH CLAY,
32.6					
33.4					32.6-34.7 <u>SILTSTONE</u> WHITE BLUSH GRY, SOFT, MASSIVE, SANDY.
34					
35					34.7-35.0 <u>CORE LOSS</u>
36					

26

28

30

32

34

36

27.0

28.8

29.4

S-6

S-7

31.0

S-8

S-9

32.6

33.4

34

35

36

GT-3

SHARP

CONT.

BOX 2

1/2

40° FR

FR

FR

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SH06-104C

Page 3 of 4

Date 15 / Oct / 08

Name EGGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
72					
74					
76					
78					
80					COLL. POINT. 80.0 80-82.5 COLL. LOSS
82		82.5 S-10 83		82	82.5-100.2 <u>COLE</u> BLK. SLY HRD, SLY DULL, WITH SOME SHIBBY BAND, ALL INTERBEDDED WITH BONEY BAND, AT 85.0
84		S-11			MIRRO FR'S DEVELOPED, NO VISIBLE PHYRITE.
86		S-12			
88		S-13		FR	
90		S-14			88.6-94.0 V DULL.

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHDR-104C
 Page 4 of 4
 Date 15 / Oct / 07
 Name EGG
 PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description	
			Type	Graphic Description		
92		S-15			COAL CONT.	
92		S-16				
94		S-17			BZ	94.0-98.5 SLY DULL BANDS, OVERALL SLY SHINY, SCATTERED PHYRITE CRYSTALS.
96		S-18			PR	
96		S-19			PR	
98		S-20			PR	
98		S-19				98.5-100.2 V DULL, WITH PHYRITE ZONES
98.5		S-19				
100		100.2				100.2-102.0 <u>CORE LOSS</u>
102						
104						

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOR-106C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County _____ State _____
 Survey System SP27/NAD87 North 442989.848 East 1357077.939 Elev. 578.32
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start ___/___/___ Finish ___/___/___
 Total Depth 94.0 Surface Casing Size _____, _____ to _____
 Hole Size 5 7/8, 0 to 94, _____, _____ to _____, _____, _____ to _____
 Casing Size _____, _____ to _____, _____, _____ to _____, _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3'	21.0	28.0	23.5	25.3	E1?	2.5		2.7
3'	72.0	94.0	73.9	91.9	D	1.9		2.1

Logging

Company _____ Operator _____ Date ___/___/___
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other _____
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ___/___/___
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIND F SHOR-106 , NO 6 P LOG.

 Report Completed By EGGY Title ECOLOGIST Date 15 / OCT / 07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SH08-106C
 Page 1 of 3
 Date 15/02/07
 Name EGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
22				BZ x x x	COLT POINT 21.0- 21.0-23.5 <u>MUDSTONE</u> DARK GRV. SOFT, MASSIVE
24		23.0 CT-1 5 23.5 S1 24.0 S2 24.0 S3 25.3 612 S 26		PR	23.5-25.3 <u>COAL</u> BLK SLY DULL, MOD SFT, SLY BONEY WITH ABD PHYRITE ZONE. (SPOTS)
26					25.3-27.5 <u>SILTSTONE</u> MED LIGHT BLWISH GRV. SLY SOFT, MASSIVE, MUDDY, SLY SANDY
28					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-106
 Page 2 of 3
 Date 15/01/07
 Name F664

PHOTOS TAKEN.

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
72					CORE POINT 72.0'
		73.3 GT-3 S			72.0-73.9 <u>SILTSTONE</u> MOD BLUISH GRN, MOD SOFT, MASSIVE. SLY SANDY. MOD VISIBL PHYRITE
74		73.9 S4 75			73.9-91.9 <u>COAL</u> BLK, SLY DULL, MOD HIRD, W/ ABD BONEY BANDS AT 75', 76', 77', 77.5', 80.3, 80.8, 81.3, 81.4, 81.6
76		S5 77			
78		S6 79		FR	
80		S7 81			
82		S8 83		FR	91.6-91.9 DOMINATED BONEY BANDS INTERBEDDED WITH COAL
84		S9 85		FR BZ	83.7 PHYRITE CRYSTALS
86		S10 86		DRILL INDENT FRS	86.6-87.0 BONEY BAND
88		S11 88			87.8-88.2 BONEY
90		S12 90		FR	89.0-89.7 BONEY

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-106C
 Page 3 of 3
 Date 15 / Oct / 09
 Name EGGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
92		91.9 6F-4 5 92.5		FR DRILL IND FR	91.9 - 94.0 SILTSTONE. LIGHT BLUSH GRAY, MOD SFT. CLAYEY. MASSIVE
94				FR	
96					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6562
 (970) 245-6494 FAX

Drill Hole Completion Report

Location

Hole I.D. SH08-107C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County STARK State ND
 Survey System SP27/NAD 1983 North 443369.133 East 1359760.048 Elev. 2582.441
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 16 / Oct / 07 Finish 16 / Oct / 07
 Total Depth 109 Surface Casing Size _____ to _____
 Hole Size 5 5/8" 0 to 109 to _____ to _____
 Casing Size _____ to _____ to _____ to _____
 Lost Circ. _____ to _____ ; _____ to _____ ; _____ to _____ ; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____
 Drilling Conditions (Air) _____ (Water) _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3'	13'	23'	15.6	21.0	E			
	46'	54'	47.4	52.7	E1			
	84'	109'	85.3	107.0	D			

Logging

Company CENTURY Operator MITCH SUTTON Date ____ / ____ / ____
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other _____
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____ / ____ / ____
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN OF SH08-107. NO 6P LOG.

 Report Completed By EGG4 Title GEOLOGIST Date 16 / Oct / 07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-107C
 Page 1 of 4
 Date 16/OCT/07
 Name EGGY
 PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
12					
14					cont point 13.0 13.0-15.6 SAND. LIGHT BROWNISH, SLY YELLOWISH. GRAY, SOFT, UNCONSOL, MED-GR, WELL SILT, SLY OXID, WEATHERED, SCATTERED GYPSUM CRYSTALS.
16		15.6 S-1 16.2 S-2 16.5			15.6-16.2 COAL BLK, DULL, SOOTY, WEATHERED,
18		S-3 18.5			16.2-16.5 CLAY, DULL BROWN, SOFT, SLY CLAYEY 16.5-21.0 COAL, BLK DULL, WEATHERED, SOFT, SOOTY, SCATTERED GYPSUM CRYSTALS.
20		S-4 20 S-5 21			AT 18.6 YELLOW CLAY MINERALS.
22		22.5 CT-1 23			21.0-21.3 SAND, MED YELLOWISH GRAY, SOFT, WITH COAL BANDS. 21.3-22.2 CLAY, MED BROWN, SOFT, SLY OXID, 22.2-22.5 COAL, BLK DULL, WEATHERED, SOFT, CLAYEY, 22.5-23.0 CLAY, MED GRAY, SOFT, SLY SANDY,
24					
26					

NORWEST

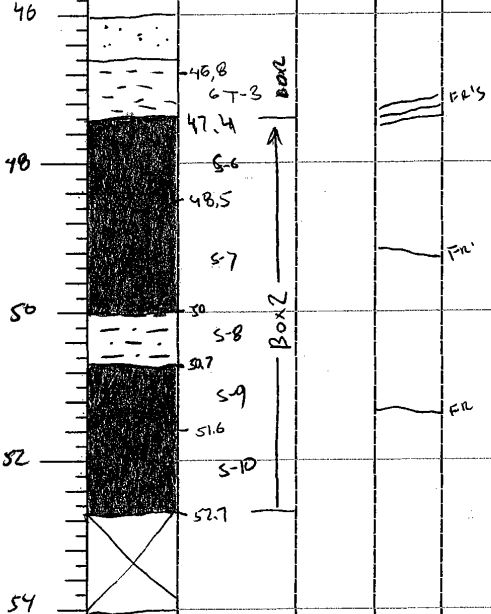
Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81508
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-107C
 Page 2 of 4
 Date 18 / Oct / 07
 Name E664
 PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
42					
44					
46					CORE POINT 46.0
46.8		46.8			46.0-46.4 <u>SANDSTONE</u> MED DRK GRY, SOFT, FN-MED GR'ED.
47.4		47.4			46.6-47.4 <u>MUDSTONE</u> MED DRK GRY, SOFT, MASSIVE. WITH COAL STREAKS.
48.5		48.5			47.4-50.0 <u>COAL</u> BLK, SLY SHINY, OCC BONEY STREAKS SLY HRD, AT 48.3 PHYRITE RICH ZONE.
50		50			50.0-50.7 <u>SILTSTONE</u> LIGHT, BROWNISH GRY, SOFT, WITH COAL STREAKS.
50.7		50.7			50.7-52.7 <u>COAL</u> BLK, MOD HRD, SLY DULL,
52		52.7			51.6-52.7 INTERBEDDED WITH CLAY PARTINGS.
54					52.7-54.0 <u>COLL LOSS</u>
56					
58					
60					



NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-107C
 Page 3 of 4
 Date 16/Oct/07
 Name EGG

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
82					
84		84.7 87.4			COLL POINT 84.0
85		85.3			84.0-85.3 <u>SILTSTONE</u> MED GRAY, SOFT, MUDDY, SLY SANDY.
86		S-11			85.3-107.0 <u>COAL</u> BLK, SLY DULL, MODHRD, WITH OCC BONEY BANDS.
86		86		FR	PHYRITE AT 85.6.
88		S-12			PHYRITE AT 87.2.
88		88			
90		S-13			
90		90		FR	PHYRITE AT 90.0
92		S-14			
92		92		FR	
94		S-15			
94		94		FR	PHYRITE AT 94.7.
96		S-16			94.5-98.0 V DARK BROWN BONEY BAND DOMINATED.
96		96		FR	
98		S-17			
98		98		FR	
98				DRY IMP. FR	
98				BZ	
100		S-18			
100		100			

END 98

NORWEST

Norwest Corporation
 745 Horizon Court, Suite 372
 Grand Junction, CO, 81508
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole S10B-107C
 Page 4 of 4
 Date 16 / OCT / 07
 Name E664
 PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
101.3-102.0	[Dark grey shaded area]	S-19 101.3	←	SHEARED	BONEY DULL, w/ PHYRITE
102.0-102.8	[Light grey shaded area]	S-20 103.0	←	FL	PHYRITE ZONE
102.8-103.0	[Dark grey shaded area]	S-21 103.0	←	FL	
103.0-103.5	[Dark grey shaded area]	S-22 104.0	←	FL	
103.5-104.7	[Dark grey shaded area]	S-23 106.0	←	FL	AT 104.7 PHYRITE.
104.7-107.0	[Dark grey shaded area]	S-24 107.5	←	FL	
107.0-107.5	[Light grey shaded area]	S-25 107.5	←		SILTSTONE, MED DRK GRY, SOFT, MUDDY (CLAYEY) SLT SANDY
107.5-109.0	[Light grey shaded area]	S-26 109.0	←		SANDSTONE LIGHT GRY, SOFT, PU GR, WELL SRT, WITH COAL STREAKS.
109.0-109.5	[Light grey shaded area]				
109.5-110.0	[Light grey shaded area]				
110.0-110.5	[Light grey shaded area]				
110.5-111.0	[Light grey shaded area]				
111.0-111.5	[Light grey shaded area]				
111.5-112.0	[Light grey shaded area]				
112.0-112.5	[Light grey shaded area]				
112.5-113.0	[Light grey shaded area]				
113.0-113.5	[Light grey shaded area]				
113.5-114.0	[Light grey shaded area]				
114.0-114.5	[Light grey shaded area]				
114.5-115.0	[Light grey shaded area]				
115.0-115.5	[Light grey shaded area]				
115.5-116.0	[Light grey shaded area]				
116.0-116.5	[Light grey shaded area]				
116.5-117.0	[Light grey shaded area]				
117.0-117.5	[Light grey shaded area]				
117.5-118.0	[Light grey shaded area]				
118.0-118.5	[Light grey shaded area]				
118.5-119.0	[Light grey shaded area]				
119.0-119.5	[Light grey shaded area]				
119.5-120.0	[Light grey shaded area]				
120.0-120.5	[Light grey shaded area]				
120.5-121.0	[Light grey shaded area]				
121.0-121.5	[Light grey shaded area]				
121.5-122.0	[Light grey shaded area]				
122.0-122.5	[Light grey shaded area]				
122.5-123.0	[Light grey shaded area]				
123.0-123.5	[Light grey shaded area]				
123.5-124.0	[Light grey shaded area]				
124.0-124.5	[Light grey shaded area]				
124.5-125.0	[Light grey shaded area]				
125.0-125.5	[Light grey shaded area]				
125.5-126.0	[Light grey shaded area]				
126.0-126.5	[Light grey shaded area]				
126.5-127.0	[Light grey shaded area]				
127.0-127.5	[Light grey shaded area]				
127.5-128.0	[Light grey shaded area]				
128.0-128.5	[Light grey shaded area]				
128.5-129.0	[Light grey shaded area]				
129.0-129.5	[Light grey shaded area]				
129.5-130.0	[Light grey shaded area]				
130.0-130.5	[Light grey shaded area]				
130.5-131.0	[Light grey shaded area]				
131.0-131.5	[Light grey shaded area]				
131.5-132.0	[Light grey shaded area]				
132.0-132.5	[Light grey shaded area]				
132.5-133.0	[Light grey shaded area]				
133.0-133.5	[Light grey shaded area]				
133.5-134.0	[Light grey shaded area]				
134.0-134.5	[Light grey shaded area]				
134.5-135.0	[Light grey shaded area]				
135.0-135.5	[Light grey shaded area]				
135.5-136.0	[Light grey shaded area]				
136.0-136.5	[Light grey shaded area]				
136.5-137.0	[Light grey shaded area]				
137.0-137.5	[Light grey shaded area]				
137.5-138.0	[Light grey shaded area]				
138.0-138.5	[Light grey shaded area]				
138.5-139.0	[Light grey shaded area]				
139.0-139.5	[Light grey shaded area]				
139.5-140.0	[Light grey shaded area]				
140.0-140.5	[Light grey shaded area]				
140.5-141.0	[Light grey shaded area]				
141.0-141.5	[Light grey shaded area]				
141.5-142.0	[Light grey shaded area]				
142.0-142.5	[Light grey shaded area]				
142.5-143.0	[Light grey shaded area]				
143.0-143.5	[Light grey shaded area]				
143.5-144.0	[Light grey shaded area]				
144.0-144.5	[Light grey shaded area]				
144.5-145.0	[Light grey shaded area]				
145.0-145.5	[Light grey shaded area]				
145.5-146.0	[Light grey shaded area]				
146.0-146.5	[Light grey shaded area]				
146.5-147.0	[Light grey shaded area]				
147.0-147.5	[Light grey shaded area]				
147.5-148.0	[Light grey shaded area]				
148.0-148.5	[Light grey shaded area]				
148.5-149.0	[Light grey shaded area]				
149.0-149.5	[Light grey shaded area]				
149.5-150.0	[Light grey shaded area]				
150.0-150.5	[Light grey shaded area]				
150.5-151.0	[Light grey shaded area]				
151.0-151.5	[Light grey shaded area]				
151.5-152.0	[Light grey shaded area]				
152.0-152.5	[Light grey shaded area]				
152.5-153.0	[Light grey shaded area]				
153.0-153.5	[Light grey shaded area]				
153.5-154.0	[Light grey shaded area]				
154.0-154.5	[Light grey shaded area]				
154.5-155.0	[Light grey shaded area]				
155.0-155.5	[Light grey shaded area]				
155.5-156.0	[Light grey shaded area]				
156.0-156.5	[Light grey shaded area]				
156.5-157.0	[Light grey shaded area]				
157.0-157.5	[Light grey shaded area]				
157.5-158.0	[Light grey shaded area]				
158.0-158.5	[Light grey shaded area]				
158.5-159.0	[Light grey shaded area]				
159.0-159.5	[Light grey shaded area]				
159.5-160.0	[Light grey shaded area]				
160.0-160.5	[Light grey shaded area]				
160.5-161.0	[Light grey shaded area]				
161.0-161.5	[Light grey shaded area]				
161.5-162.0	[Light grey shaded area]				
162.0-162.5	[Light grey shaded area]				
162.5-163.0	[Light grey shaded area]				
163.0-163.5	[Light grey shaded area]				
163.5-164.0	[Light grey shaded area]				
164.0-164.5	[Light grey shaded area]				
164.5-165.0	[Light grey shaded area]				
165.0-165.5	[Light grey shaded area]				
165.5-166.0	[Light grey shaded area]				
166.0-166.5	[Light grey shaded area]				
166.5-167.0	[Light grey shaded area]				
167.0-167.5	[Light grey shaded area]				
167.5-168.0	[Light grey shaded area]				
168.0-168.5	[Light grey shaded area]				
168.5-169.0	[Light grey shaded area]				
169.0-169.5	[Light grey shaded area]				
169.5-170.0	[Light grey shaded area]				
170.0-170.5	[Light grey shaded area]				
170.5-171.0	[Light grey shaded area]				
171.0-171.5	[Light grey shaded area]				
171.5-172.0	[Light grey shaded area]				
172.0-172.5	[Light grey shaded area]				
172.5-173.0	[Light grey shaded area]				
173.0-173.5	[Light grey shaded area]				
173.5-174.0	[Light grey shaded area]				
174.0-174.5	[Light grey shaded area]				
174.5-175.0	[Light grey shaded area]				
175.0-175.5	[Light grey shaded area]				
175.5-176.0	[Light grey shaded area]				
176.0-176.5	[Light grey shaded area]				
176.5-177.0	[Light grey shaded area]				
177.0-177.5	[Light grey shaded area]				
177.5-178.0	[Light grey shaded area]				
178.0-178.5	[Light grey shaded area]				
178.5-179.0	[Light grey shaded area]				
179.0-179.5	[Light grey shaded area]				
179.5-180.0	[Light grey shaded area]				
180.0-180.5	[Light grey shaded area]				
180.5-181.0	[Light grey shaded area]				
181.0-181.5	[Light grey shaded area]				
181.5-182.0	[Light grey shaded area]				
182.0-182.5	[Light grey shaded area]				
182.5-183.0	[Light grey shaded area]				
183.0-183.5	[Light grey shaded area]				
183.5-184.0	[Light grey shaded area]				
184.0-184.5	[Light grey shaded area]				
184.5-185.0	[Light grey shaded area]				
185.0-185.5	[Light grey shaded area]				
185.5-186.0	[Light grey shaded area]				
186.0-186.5	[Light grey shaded area]				
186.5-187.0	[Light grey shaded area]				
187.0-187.5	[Light grey shaded area]				
187.5-188.0	[Light grey shaded area]				
188.0-188.5	[Light grey shaded area]				
188.5-189.0	[Light grey shaded area]				
189.0-189.5	[Light grey shaded area]				
189.5-190.0	[Light grey shaded area]				
190.0-190.5	[Light grey shaded area]				
190.5-191.0	[Light grey shaded area]				
191.0-191.5	[Light grey shaded area]				
191.5-192.0	[Light grey shaded area]				
192.0-192.5	[Light grey shaded area]				
192.5-193.0	[Light grey shaded area]				
193.0-193.5	[Light grey shaded area]				
193.5-194.0	[Light grey shaded area]				
194.0-194.5	[Light grey shaded area]				
194.5-195.0	[Light grey shaded area]				
195.0-195.5	[Light grey shaded area]				
195.5-196.0	[Light grey shaded area]				
196.0-196.5	[Light grey shaded area]				
196.5-197.0	[Light grey shaded area]				
197.0-197.5	[Light grey shaded area]				
197.5-198.0	[Light grey shaded area]				
198.0-198.5	[Light grey shaded area]				
198.5-199.0	[Light grey shaded area]				
199.0-199.5	[Light grey shaded area]				
199.5-200.0	[Light grey shaded area]				

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6562
 (970) 245-6494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-108C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County START State ND
 Survey System SPT/NAO27 North 442833.891 East 1362356.846 Elev. 2561.899
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 14 / OCT / 07 Finish 14 / OCT / 07
 Total Depth 880 Surface Casing Size _____ to _____
 Hole Size 5 5/8, 0 to 880, _____, _____ to _____, _____, _____ to _____
 Casing Size _____ to _____, _____ to _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions AT _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3"	63	88	66	86.2	D	2.7		0.8

Logging

Company _____ Operator _____ Date ____/____/____
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN OF SHOB-108, NO GP LOG.

 Report Completed By E664 Title GEOLOGIST Date 14 / OCT / 07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole S110B-108C
 Page 1 of 2
 Date 14 Oct /07
 Name EGGY
 PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
62					
63.0-63.3					<u>CORE LOSS</u>
63.3-66.0					<u>SANDSTONE</u> , LIGHT MED GR, SOFT, FN, MED GR, MOD-WELL SRT, SLY CLAYEV.
64					
65					
66		65.3 GT-1		SHEARED	66.0-86.2) <u>COAL</u> BLK. SLY DULL, MOD SFT, WITH OCC BONEY BANDS INTERBEDDED.
67		S-1		FR	
68		S-2		FR	66.0-69.0 SCATTERED PHYRITIC CRYSTALS.
69		S-3		FR	
70		S-4		FR	
71		S-5		FR	SAME AS ABOVE.
72		S-6		FR	
73		S-7		FR	
74		S-8		FR	
75		S-9		FR	
76		S-10		FR	76.3 PHYRITIC LENS.
77		S-11		FR	
78		S-12		FR	
79		S-13		FR	
80		S-14		FR	

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole S108-108C
 Page 2 of 2
 Date 19/09/07
 Name EGG

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
80.3		S-8			80.3 PHYKETE LENS
81.0		S-9			81.0 PHYKETE LENS
82		S-9			
83				X X X	RIP UPS
84		S-10			
85					FL
86		S-10			
86.2		S-10			
86.5		S-10			
87.0		S-10			
86.2-86.5					MUDSTONE LIGHT MED GR, SOFT,
86.5-87.0					SANDSTONE LIGHT GR, FNGR, WELL
87.0-88.0					CORFLOSS
88					
90					
92					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8562
 (970) 245-8494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-114C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County STARBUCK State ND
 Survey System SP27/NAD 83 North 440213.639 East 1362256.268 Elev. 2547.611
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 13 / 04 / 07 Finish 13 / 04 / 07
 Total Depth 65.0 Surface Casing Size _____ to _____
 Hole Size 5 5/8, _____ to 6 5/8, _____ to _____, _____ to _____
 Casing Size _____ to _____, _____ to _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____
 Drilling Conditions (Air) _____ (Water) _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3'	42.0	65.0	49.5	62.3	D	LOSS		2.7

Logging

Company _____ Operator _____ Date ____/____/____
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other _____
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN OF SHOB-114, NO 60 LOG

 Report Completed By E66Y Title GEOLOGIST Date 13 / 04 / 07

NORWEST

Norwest Corporation
 745 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8652
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered


Hole SHOB-114C

Page 1 of 2

Date 13 OCT, 07

Name Egg

PHOTOS TAKEN.

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
42					CORE POINT (42.0-49.5) CORE LOSS LOST FROM TOP. WASHED OUT.
44					
46					
48					
50		49.5			(49.5-52.3) COAL, BLK, SOFT, CRUMBLY. SLY SHINY PARTICLES, SLY WEATHERED, W/SOME DARK BROWN BANDS, NO VISIBLE PHYRITE.
		S1			
		51.0			
		S2			
		S2			
		S3.0			
		S3			
		S4.0			
		S4			
54					53.0-54.0 SHEARED, CRUMBLY, SOFT. SLY WEATHERED.
56					54.0-62.3 BLK, MOD HRD, FIRM INTACT. W/ ABD DULL DARK BROWN RONCY BANDS.
58					AT 59.7 PHYRITE LENS.
60					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8562
 (970) 245-8494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-116C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County STARK State ND
 Survey System SP2T/NAD27 North 440087.617 East 1370178.083 Elev. 2499.353
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 12 / 04 / 07 Finish 12 / 04 / 07
 Total Depth 530' Surface Casing Size _____ to _____
 Hole Size 5 5/8" 0 to 520, _____, _____ to _____, _____, _____ to _____
 Casing Size _____ to _____, _____, _____ to _____, _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions (Air) _____ (Water) _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3'	380	530	39.1	51.5	D			

Logging

Company _____ Operator _____ Date ___/___/___
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ___/___/___
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN OF SHOB-116, NO OP LOG

 Report Completed By EGGY Title GEOLOGIST Date 12 / 04 / 07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-116C
 Page 1 of 1
 Date 12/Oct/07
 Name F66Y

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
38					COLE POINT. 38.0-39.1 CORE LOSS (ACCORDING TO DRILLER)
40		39.1 S-1 40.2 S-2		FR	39.1-40.2 COAL BLK, SLY SHINY NO VISIBLE PYRITE MOD SFT, SLY CRUMBLY. COOKS GOOD
42		42 S-3		FR	(40.2-47.5) SLY DULL, W/ BONEY DARK BROWN BANDS
44		44 S-4		FR	
46		46 S-5		FR	
48		47.5 S-6		FR	(47.5-51.5) BLK, SLY SHINY, MOD SFT, W/ SCATTERED PYRITE.
50		49.5 S-7		FR	(51.5-53.0) <u>MUDSTONE</u> MOD LIGHT GRY. MOD-SFT-SFT. SLY SANDY. MASSIVE.
52		51.5 GT-1 S-2			
54					
56					

51.5 39.1
 12.9

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6562
 (970) 245-6494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOR-121C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County STARK State ND
 Survey System SP27/NAD83 North 438726.492 East 1368795.233 Elev. 2517.463
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 12/01/07 Finish 12/01/07
 Total Depth 69.0 Surface Casing Size _____ to _____
 Hole Size 5/8, 0 to 69.0, _____ to _____, _____ to _____
 Casing Size _____ to _____, _____ to _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3'	45.0	69.0	50.0	67.4	D	-		1.6

Logging

Company _____ Operator _____ Date ____/____/____
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other _____
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN OF SHOR-121, NO 6P LOG

 Report Completed By EGGY Title GEOLOGIST Date 12/01/07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-121C

Page 1 of 2

Date 12/05/07

Name EGG

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description	
			Type	Graphic Description		
40						
42						
44						
45					CORE POINT 45.0	
46					LOSS FROM THE TOP (ACCORDING TO DRILLER)	
47					THERE IS INDICATION A SANDSTONE PIECES ON TOP OF RUN.	
48						
49						
50			50			(50.0-67.4) COAL BLK, SHINY, MOD SOFT, SLY CRUMBLY, LOOKS GOOD. NO VISIBLE PYRITE. 50-51 PYRITE LENS
51			51		RIP UPS	
52		52		FR		
53		53		FR		
54		54				
55		55		B2		
56		56			56.5-67.4 DULL, SLY BONEY.	
57		57				
58		58		MICRO PRIS.		
59		59				
60		60				

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-121C

Page 2 of 2

Date 12/Oct/07

Name EGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
60		60		FR	COAL GONT
62		S-7		FR	OVERALL SAME AS ABOVE
62		62.0		FR	AND BONEY BAND INTERBEDDED.
64		S-8		FR	WITH SCATTERED PYRITE CRYSTALS.
64		64		FR	AT 63.7 PYRITE ZONE.
66		S-9		FR	
66		66.0		FR	AT 64.7 PYRITE ZONE.
68		S-10		FR	
68		67.4		FR	67.4- 69.0 MUDSTONE, LIGHT GR, SOFT,
68		68.1			SLY SILTY. BROKEN CORES.
70					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8562
 (970) 245-6494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOR-122C Location _____ Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County STARK State ND
 Survey System SP77/NAD83 North 438664.499 East 1370156.870 Elev. 2500.792
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 12 / OCT / 07 Finish 12 / OCT / 07
 Total Depth 480 Surface Casing Size _____ to _____
 Hole Size 5 5/8", 0 to 480, _____, _____ to _____, _____, _____ to _____
 Casing Size _____, _____ to _____, _____, _____ to _____, _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3'	23.0	48.0	23.0	43.7	D	-		4.0

Logging

Company _____ Operator _____ Date ____/____/____
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other _____
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN OF SHOR-122, NO GP LOG

 Report Completed By Eggy Title GEOLOGIST Date 12 / OCT / 07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8652
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole S10B-122C

Page 1 of 3

Date 12/Oct/07

Name EGGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
22					
23		S-1		RIPUP	CORE POINT. 23.0 DRILLER INDICATED TOP 7.0 FT WASHED OUT, TOP OF COAL SOFT. 23.0-33.4 COAL BLK. FIRM. MOD SFT, SLY SHINY, SLY LOOSE
24				FL	
25		S-2		FL	
26					
27		S-3		FL	
28					28.0-33.4 SLY DULL, DARK BROWN BANDS.
29		S-4			
30				FL	

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SH08-122
 Page 2 of 3
 Date 12/21/07
 Name EGG

PHOTO TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
31		55 Box 2			SANDS ABOVE COAL CONT
32					
33					
33.4					
34					COAL LOSS (33.4-38.0)
35					
36					
37					
38					
38.0					
39		57 Box 2			(38.0-43.7) COAL BLACK, SLY DULL, MOD SOF FIRM. NO VISIBLE PHYRIT. WITH OCC BARK BROWN (POMPH) BANDS.
40					

THE LOSS WAS FROM THE TOP (ACCORDING TO DRILLER)

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SN0B-122C
 Page 3 of 3
 Date 12/04/07
 Name E664

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description	
			Type	Graphic Description		
41		← 41	Box 2			
42		42				
43		← 43		Box 3		MUDSTONE (43.7-46.3) LIGHT GR., SOFT, SANDY,
43.7		43.7				
44		44				
45		442				
46				SANDSTONE (46.3-47.3) LIGH GR., MED GR., WELL SORT., SFT.		
47					(CORE LOSS 47.3-48.0)	
48						

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-6494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-125C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County STARK State ND
 Survey System SP17/NAD87 North 437978.661 East 1361239.461 Elev. 2586.187
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 13 / OCT / 07 Finish 13 / OCT / 07
 Total Depth 124.0 Surface Casing Size _____ to _____
 Hole Size 5 5/8" to 124.0 to _____ to _____
 Casing Size _____ to _____ to _____ to _____
 Lost Circ. _____ to _____ ; _____ to _____ ; _____ to _____ ; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3'	2.0	9.0					NO REC	
3'	103.4	122.3			D	1.4	100%	1.7

Logging

Company _____ Operator _____ Date ____ / ____ / ____
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other _____
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____ / ____ / ____
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN HOLE OF SHOB-125. NO GP LOG

 Report Completed By E66V Title GEOLOGIST Date 13 / OCT / 07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-125C
 Page 1 of 3
 Date 13 / Oct / 09
 Name EGG

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
2					CORE POINT 2.0 CORE LOSS (2.0-5.3) LOSS FROM TOP.
4					
6					FR. DRILL INDUCED
8				FR. DRILL INDUCED	CORE LOSS (6.0-6.2) LOSS FROM TOP OF RUN, SEAM WASHED OUT? CLAY (6.2-9.0) LIGHT GRAY, SOFT, MASSIVE,
10					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SN0B-125C
 Page 2 of 3
 Date 13 / Oct / 07
 Name EGGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
					CORE POINT 100.0
					(100.0-102.0) CORE LOST, LOST FROM TOP OF RUN. LOOSE MATERIAL WASHED OUT ALL TO DRILLER?
102	102 6F1 102.7 103.4	102 6F1 102.7 103.4	CRUSHED	FR FR FR	(102.0-103.4) SANDSTONE MED-LIGHT GRAY, SLY BLUISH MOD HLD, SLY WEAK CEMENTED, MED-GR, WELL SORT,
109	104.0 104.5 105.0	S1 104.5 105.0			(103.4-122.3) COAL BLK, SLY DULL, ABD BONEY BANDS, SLY HLD, PHYRITE CRYSTALS AT 103.4-103.7.
106	107.0	S2 107.0		FR	BONEY BANDS 104.0-104.5. 107-107.3 108.5-108.9 110.0-114.0 114.5-115.0
108	109.0	S4 109.0			115.7-116.1 116.8-117.0 118.0-118.5 119.5-120.0
110	110	S5 110		FR	
112	112	S6 112			
114	114	S7 114			
110	116	S8 116		FR	
110	118	S9 118			117.6-118.2 PHYRITE RICH VIEWS
118	119	S10 119			AT 119.0 PHYRITE LENS
120	120	S11 120		FR	


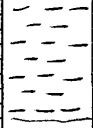









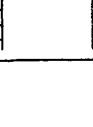
NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-12SC
 Page 3 of 3
 Date 13 / Oct / 07
 Name EGGY
 PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
121		S-11 121 S-12			COAL (CONT)
122		122.3 GT-2 122.8	4		122.3-124.0 MUDSTONE LIGHT GREENISH GRAY. MASSIVE, SOFT.
124					
126					
					
					
					
					
					
					
					
					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8562
 (970) 245-8494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-130C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County _____ State _____
 Survey System SPT/NAD83 North 437332.850 East 1370095.785 Elev. 9500.415
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 15 / 01 / 07 Finish 15 / 01 / 07
 Total Depth 96.0 Surface Casing Size _____ to _____
 Hole Size 5 5/8, 0 to 46.0, _____ to _____, _____ to _____
 Casing Size _____ to _____, _____ to _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3'	22.0	96.0	24.5	91.9	D	—		—

Logging

Company _____ Operator _____ Date ___ / ___ / ___
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ___ / ___ / ___
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN OF SHOB-130C, NO GP LOG.

Report Completed By E60Y Title GEOLOGIST Date 15 / 01 / 07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6562
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-130C

Page 1 of 2

Date 15 / OCT / 07

Name FGL

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
22					CORE POINT 22.0' 22.0-24.5 <u>COR6LOSS</u>
24					24.5-41.9 <u>COAL</u> BCK, SLY DULL, MOD HBD NO VISIBLE PHYRITE. BONEY BANDS AT . 25.4-25.8
26		24.5 S-1 25.4 S-2 26.5 S-3		FL	26.0-26.5 26.5-30.0 SHINY, LOOKS GOOD.
28		28.0 S-4		FL FL	
30		30 S-5		FL	
32		32 S-6		FL FL FL FL FL	32.5-32.7 BONEY BAND, DULL, V DRY BROWN 33.2-33.4 BONE BAND, DULL, V DRY BRW.
34		34 S-7		FL DRILL IMP FL	
36		36 S-8		FL FL FL	AT 36.5 PHYRITE LENS (ZONE) 0.1'
38		38 S-9		FL FL FL	
40		40			

NORWEST

Norwest Corporation
743 Horizon Court, Suite 372
Grand Junction, CO, 81506
(970) 245-8562
(970) 245-8494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-132C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County STARK State ND
 Survey System SP27/NAD27 North 436648.836 East 1362117.974 Elev. 2564.890
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 12/Oct/07 Finish 12/Oct/07
 Total Depth 76.0 Surface Casing Size _____ to _____
 Hole Size 5 5/8, 0 to 76.0, _____ to _____, _____ to _____
 Casing Size _____ to _____, _____ to _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3'	55.0	76.0	57.0	74.2	D	2.0	100%	1.8

Logging

Company _____ Operator _____ Date ____/____/____
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN OF SHOB-132, NO 6PLOG

 Report Completed By EGGY Title NORWEST 660-0615 Date 12/Oct/07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered


Hole SHOB-132C

Page 1 of 2

Date 12/Oct/07

Name EGC-1

PHOTOSTAKEN.

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
54					CORR POINT 55.0
56		55 GT-1 55.5 1-1			
57				BZ	55.0-57.1 SANDSTONE LIGHT GLY, MOD SOFT, CLAYEY FN-COAR, CLAY MATRIX. OCC RIPUPS.
58		S1			57.1-64.7 COAL BLK. SLY DULL, FIRM, MOD SFT.
59				FR	
60		S2		FR	
61					
62		S3		FR	
63					
64		S4		MICRO FR	
64.7					AT 64.5 PHYRITE LENS.
65		S5			(64.7-65.9) BONE, DULL, DARK BROWN. MOD HRD.
65.9					(65.9-67.5) COAL BLK, SLY DULL. MOD HRD, w/ SOME MICRO FR'S, FIRM. NO VISIBLE PHYRITE.
67.5					(67.5-69.0) BOVEY COAL SLY DULL, DARK BROWN. MOD HRD, MASSIVE, INTACT.
69.0				FR	
70		S8		FR	(69.0-74.0) COAL BLK. FIRM, MOD SFT, NO VISIBLE PHYRITE.
71				FR	
72		S9			WITH BOVEY COAL BAND AT 73.0

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-132C

Page 2 of 2

Date 12/OCT/07

Name EGGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities			Lithologic Description
			Type	Graphic	Description	
		S9		FR		
		73		FR		
		S10				
74		74.2		FR		74.2-76.0 MUDSTONE LIGHT GLY. MOD SOFT.
		74.6				MASSIVE, SLY SILTY.
		ST-2				
		75.1				
76						
78						

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6562
 (970) 245-6494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-135C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County STARK State ND
 Survey System _____ North _____ East _____ Elev. _____
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 11 / 08 / 07 Finish 11 / 08 / 07
 Total Depth 49.0 Surface Casing Size _____, _____ to _____
 Hole Size 5 5/8, 0 to 4 1/2, _____, _____ to _____, _____, _____ to _____
 Casing Size _____, _____ to _____, _____, _____ to _____, _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3'	23.0	49.0	233	45.0	D	0.3		Loss

Logging

Company _____ Operator _____ Date ____ / ____ / ____
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____ / ____ / ____
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN OF SHOB-135, NO 6P LOG.

 Report Completed By E664 Title GEOLOGIST Date 11 / 08 / 07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SH06-B56
 Page 1 of 3
 Date 11 Oct, 07
 Name EG64

PHOTOS TAKEN.

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
24					
22					
23		233			<p>CORE POINT. 23 FT. PILLAGE INDICATED THAT ROOT MATERIAL WASHED OUT.</p> <p>23.0-23.3, <u>SILTSTONE</u>. GRAYISH ORANGE, (LOOKS LIKE SHALE) COMPACT, DENSE, FRACTURED, MOD HRD.</p> <p>23.3-28.4 <u>COAL</u> GRAYISH BLK, N2,</p>
24		S-1			23.3-25.0 BRITTLE, BROKEN. MOD SFT. SLY DULL, NO VISIBLE PHYRITE.
25		25			25.0-27.0 MOD SFT, DULL, BONEY LAM'S, SLY INTACT.
26		S-2			BC 27.0-28.4 BLK, BROWNISH BONEY LAM'S, (HRD) NO VISIBLE PHYRITE.
27		27			
28		S-3			
28.4		28.4			
29					(28.4-30.0) <u>CORE LOSS</u>
30					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8652
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SH06-135C
 Page 2 of 3
 Date 11 / OCT / 09
 Name EGGY
 PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
31					CONT CORE LOSS (28.4-33.0)
32					
33		33			33.0-38.0 COAL. N 2, MOD HRD, ABD BONEY DARK BROWN BEDS, LAMS, SLY BRGHT, SHINY, MASSIVE, NO VISIBL PHRYTE. AT 33.5 CLAY VLEN
34		S-4		FR FR	
		BONEY BAND		FR	
35		35		FR	
		S-5		FR	SAME AS ABOVE.
36		BONEY BAND		FR'S	
37		37		FR'S	
		S-6		FR'S	SAME AS ABOVE.
38					
39		39			38.9-39.0 CLAY PARTING.
40		S-7			

38
3

BOX 2

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-135C

Page 3 of 3

Date 11/02/07

Name EGGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
41		S-7			
42		S-8			42.0-45.0 BONY COAL, DULL, MOD SET, MASSIVE, FIRM
43		S-9			
44		S-10			
45		S-10			45.0-47.4 SILTSTONE LIGHT-MOD GRY, SFT, MASSIVE.
46		6F7			
47		470			
48					47.4-49.0 CORE LOSS
49					

NORWEST

Norwest Corporation
743 Horizon Court, Suite 372
Grand Junction, CO, 81608
(970) 245-6562
(970) 245-6494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOR-137L Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County STARK State ND
 Survey System SP27/MNO²⁷ North 434927.832 East 1364589.427 Elev. 2513.902
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller JASON Start 15 / OCT / 07 Finish 15 / OCT / 07
 Total Depth 37 Surface Casing Size _____ to _____
 Hole Size 5 5/8", 0 to 37, _____ to _____, _____ to _____
 Casing Size _____ to _____, _____ to _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3'	20'	37'	22.0	36.5	D	2		

Logging

Company _____ Operator _____ Date ____ / ____ / ____
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other _____
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____ / ____ / ____
 If open, explain _____

Reclamation

Explain SITE RECLAIMED.

Remarks

TWIN OF SHOR-137, NO GEOPHYSICAL LOG.

Report Completed By E664 Title GEOLOGIST Date 15 / OCT / 07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SNOR-137C
 Page 1 of 1
 Date 15 / OCT / 07
 Name ELGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
					CORE POINT 20.0
		21.0 S-1	5	CRUSHED	20.0-22.0 SAND. UNCONSOLIDATED, MED. GRAYISH YELLOW, FINE-MED GR, V SOFT, MOIST. SLY CLAYEY
22		22.0 S-1		X X X X	22.0-36.5 COAL BLK. SLY SHINY PARTICLES. MOD HRD. NO VISIBLE PHYRITE.
24		23 S-2		MIXED FMS	
26		25 S-3			
28		26.5 S-4			26.5-36.5 V DULL, DARK BROWN BONEY BANDS DOMINATED.
30		28 S-5			
32		30 S-6			
34		32 S-7			
36		34 S-8			
38		36 S-9			
40		36.5			36.5-37.0 CORE LOSS

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6562
 (970) 245-6494 FAX

Drill Hole Completion Report

Location

Hole I.D. SHOB-141C Location SOUTH HEART Section _____ Twp _____ Rng _____
 Project SOUTH HEART Lease _____ County STARBUCK State ND
 Survey System 5287 NAD 83 North 433290.235 East 1367630.887 Elev. 2560.677
 Approx. Location: FNL (FSL) _____ FEL (FWL) _____ Elev. _____

Drilling

Drilling Co. MOHL DRILLING Driller ASDN Start 11 / 04 / 07 Finish 11 / 06 / 07
 Total Depth 103.0 Surface Casing Size _____ to _____
 Hole Size 5 5/8, 0 to 103, _____ to _____, _____ to _____
 Casing Size _____ to _____, _____ to _____, _____ to _____
 Lost Circ. _____ to _____; _____ to _____; _____ to _____; Regained? Y _____ N _____
 Water Invasion Depths _____, _____, _____, _____
 Drilling Conditions Air _____ Water _____ Mud _____

Coring

Size	From	To	Coal Interval		Seam	Roof	Recovery	Floor
			From	To				
3"	8	15	11.7	12.2	E	3.7		1.8
2"	33	43	36.4	40.7	E1	3.4		2.3
3"	81	103	82.8	100.8	D	2.8		2.2

Logging

Company _____ Operator _____ Date ____/____/____
 Log Depth (ft.) _____ Logs Run: Gamma Density Resist Calip Other _____
 Describe _____

Completion

_____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 _____ to _____ Cement (Bags) _____ Monitoring _____
 Contractor _____ Representative _____ Date ____/____/____
 If open, explain _____

Reclamation

Explain _____

Remarks

TWIN OF SHOB-141, NO 6P LOG

 Report Completed By Egg Title GEOLOGIST Date 11 / 04 / 07

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-0562
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SN08-191C
 Page 1 of 7
 Date 11 / 07 / 07
 Name EGGY

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
8		67-1 9.5 Box 1	FC	~	CORE POINT 8.0-11.3, MUDSTONE LIGHT GRAY, SOFT, MASSIVE, MUDDY, W/ OXIDIZED BANDS AT 8.5, 10.4. SLY SILTY
9			FC	~	
10			FC	~	

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8662
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-141C
 Page 2 of 7
 Date 11 / Oct / 07
 Name FGG

PHOTOS TAKEN.

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
11				FR	CONT.
11.3				BZ	
11.7			X X		11.3-11.7 SANDSTONE YELLOWISH ORANGE, MED-FN GR. SOFT OXID, SLY MUDDY,
11.7			X		
12.7			X X	BZ	11.7-12.7 COAL. BLACK. SOFT, SLY SHINY, PARTICLES, SLY WEATH. LOGG, SHEARED
12.7			X		
12.9			X		12.7-12.9 CLAY, BROWN SOFT, WEATH. LOGG, BROKEN
12.9			X		
13.1			X X	BZ	12.9-13.1 COAL. SAME AS ABOVE. BROKEN
13.1			X X		13.1-13.8 MUDSTONE, DARK GRAY, SOFT, OXID, MUDDY
13.9					
14.8					14.8-15.0 CORA LOSS
15					
16					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-141
 Page 3 of 7
 Date 11/09/07
 Name FGC

PILOTS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
41					
40					
38					CORE POINT 33.0 E1 SEAM.
36					33.0-36.3 MUDSTONE, LIGHT GRAY, SOFT, MASSIVE. WET MUDDY, RIP UPS, INTACT.
35		6T-3		Box 1	
34					
33					
32					
31					
30					
29					
28					
27					
26					
25					
24					
23					
22					
21					
20					
19					
18					
17					
16					
15					
14					
13					
12					
11					
10					
9					
8					
7					
6					
5					
4					
3					
2					
1					

(36.3-39.7) COAL BLACK, SLY DULL, OVERALL SHINY,
 W/ DARK BROWN BONEY BANDS, SOFT.



GRADATIONAL
 CONT 26.4
 S-2
 37.

S-3

39

S-4

40

FR
 80°
 FR

FR

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-6552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SH08-14E
 Page 4 of 7
 Date 11/09/07
 Name EGG

25 TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
40.0		40.0		FR	40.0-40.7 CONTAMINATED BY FLOOR, ALTERNATION OF CLAY PARTINGS.
40.5		35			
40.7		40.7			40.7-43.0 CLAY, WHITE GRY. V SOFT,
41.7		6P4			
42.0		41.7			
43.0					

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-8552
 (970) 245-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SH08-141C
 Page 5 of 7
 Date 11 / Oct / 07
 Name EGGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
81					CORE POINT 81.0 DRILLER INDICATED THE LOSS WAS ON TOP.
82		82.2 67-5 82.8		X X X X X X X X X	81.0-82.2 SANDSTONE LIGHT MED GR, SOFT, MED' GR-CO GR, MOD SRT, SCATTERED PYRITE CRYSTALS. COAL BAND AT 82, SLY MUDDY, LOOSE.
83		5-6			82.2-82.8 MUDSTONE MED-DRK GR, SOFT, MUDDY SLY SANDY.
84		84		FR	82.8-84.7 BLK SLY DULL, SLY SHINY, MOD SOFT, OCC SCATTERED PYRITE ALONG FRACTURES. WITH ABD DULL BROWN BANDS.
85		5-7		FR	
86		86			
87		5-8		FR	
88		88		FR	
89		5-9		FR	
90		90			

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 245-0552
 (970) 245-8494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-141C
 Page 6 of 7
 Date 11 / OCT / 07
 Name EGGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description	
			Type	Graphic Description		
91		S-10			COAL (CONT)	
92		92.0				
		S-11				
93		92.7			92.7-94.6 CORE LOSS	
94					PICKED UP QTY FROM PREVIOUS RUN.	
95		94.6		xx BZ	(94.6-100.8) COAL, BLK, SLY DULL, MOD SOFT. NO VISIBLE PYRITE MASSIVE.	
		S-12				
96		96				
97		CLAY INCL S-13				
98		98				
99		S-14				
100		100				

NORWEST

Norwest Corporation
 743 Horizon Court, Suite 372
 Grand Junction, CO, 81506
 (970) 246-8552
 (970) 246-6494 FAX

Drill Hole Lithology Log

Core Number	Top	Base	Cut	Recovered

Hole SHOB-141C

Page 7 of 7

Date 11/02/07

Name EGGY

PHOTOS TAKEN

Depth	Graphic Log	Sample Id & Box #	Discontinuities		Lithologic Description
			Type	Graphic Description	
101		S-15 100.8 ← Box 3			COAL (CONT) 100.8-103.0 MUDSTONE, MED GRAY, SOFT, MUDDY, SLY SILTY, MASSIVE.
102		102 GT-6 Box 1		FR	
103		103			