MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE					
1	HL POWER COMPANY "Wen" 1 (035-90064) 13/29N/15E MD B&M	PROJECT NO.	DATE 9-2-81	DAYS 32	DEPTH 5304
2	PR	ZE 12¼"	FORMATION TYPE AND TOPS —		
3	DEI 13⅜ - SHOE DEPTH 1008'	LINERS-OD TOP AND SHOE DEPTHS	REPAIR DOWNTIME	CONTRACTOR AND RIG NO. Brown Rig #8	

BRIEF DESCRIPTION OF OPERATIONS

4 No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO LIN	SP
5																							
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7				/	/											

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE	BOTTOM HOLE ASSEMBLY (BHA)
14 12	Run Gearhart-Owens Logs. T.D. 5274	15 ☐ NO CHANGE (SEE PRIOR REPORT)
½	Rig Down Loggers	☐ NEW BHA
8½	Wait on Halliburton Cementers. R.I.H with open ended Drillpipe & Tag bottom @ 5285. Lay down Lift Dr.	16 TOOL # DESCRIP. / OD × ID × LENGTH (IN.) (IN.) (FT.)
½	Rig up Halliburton	
2½	Pump Sand plug #1 in hole & wait for it to settle. Top of plug @ 5232	

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE

1 HL POWER COMPANY
"Wen" 1
(035-90064)
13/29N/15E MD B&M

PROJECT NO.	DATE	DAYS	DEPTH
	9-3-81	33	5304

2 SIZE 12¼" FORMATION TYPE AND TOPS

3 D SHOE DEPTH 13⅜" - 1008' LINERS-OD TOP AND SHOE DEPTHS REPAIR DOWNTIME CONTRACTOR AND RIG NO. Baron Rig #8

4 BRIEF DESCRIPTION OF OPERATIONS

No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO LIN	SPM
5																							
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT.	FUN'L VIS	PV/YP	GELS	PH	FILTRATE CC/30MIN.	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7	5:30 AM	64	47	4/3	6/16	9.0	36	2/32	TR	1		200			$208.47	39,097

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG FV 0.00	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV 0.00
10														
11														
12														
13														

HOURS — OPERATIONS IN SEQUENCE

14
- 7½ Pump Sand plug #2, wait for it to settle & feel for top of plug. was not high enough. 5216 top of plug, wait for more sand. Pump sand plug #3 & wait for it to settle. Top of plug @ 5139. Set back 2 stands & circ contaminated mud out of hole.
- ½ Pick up 2 singles D.P. & bring O.E. D.P. @ 5120.
- ½ Lay Cement plug. Pump 100 cu. ft. H_2O ahead, mix & pump 46 cu. ft. Class "G" Cement w/1-1 per lite, 40% Silica flour, 3% Gel & .5% CFR-2. Displace w/388 cu. ft H_2O for balanced plug. CIP @ 4:15 p.m.
- 5½ POOH & WOC.
- 1½ RIH w/OEDP. Hit bridge @ 3784

BOTTOM HOLE ASSEMBLY (BHA)

15 ☐ NO CHANGE (SEE PREVIOUS REPORT)
☐ NEW BHA

16 TOOL & DESCRIP.	OD ID LENGTH (IN. FT.)

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE		PROJECT NO.	DATE	DAYS	DEPTH
1	LEASE: HL POWER COMPANY "Wen" 1		9-4-81	34	5304
2	PROJECT: (035-90064) C, 13/29N/15E MD B&M	FORMATION TYPE AND TOPS			
3	CASING SIZE DEPTH: 13 3/8" - 1008'	LINERS - OD TOP AND SHOE DEPTHS	REPAIR DOWN TIME	CONTRACTOR AND RIG NO.: Baron Rig #8	

BRIEF DESCRIPTION OF OPERATIONS

4 No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out: 138° F Flow Line

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. 2 LIN	SPM
5																							
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7	7:30 AM	64	40	1	1										2619.89	41,717.36

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV 0/100
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 1/3	Pick up model Collar, make up bit & RIH to 3850
	Pick up Kelly, Circ, Ream & Clean out bridges in
	hole to top of Cement plug @ 5058.
1/2	Polish of Cement plug from 5058 to 5090.
5 1/4	Circ & Cond. mud. Polish plug off to 5095. Circulated
	out an tremendious amount of cuttings
1 1/4	POOH to 13 3/8" Csg. Shoe
1	wait to see if we had more sloughing of hole
1	RIH
1/2	Pick up Kelly, break Circ. & Clean out 20' fill.
1 1/2	Circ, Cond mud to run 9 5/8" Csg.

BOTTOM HOLE ASSEMBLY (BHA)

15 ☐ NO CHANGE (SEE PRIOR REPORT)

☐ NEW BHA

16 TOOL & DESCRIP.	OD × ID × LENGTH (IN.) (IN.) (FT.)

LOUIS E. CAPUANO, JR.

MORNING DRILLING REPORT

LINE					
1	LEASE: HL POWER COMPANY "Wen" 1	PROJECT NO.	DATE 9-5-81	DAYS 35	DEPTH 5304
2	PRES: (035-90064) 13/29N/15E MD B&M	FORMATION TYPE AND TOPS			
3	DEEP 1338 - 1008'	LINERS-OD TOP AND SHOE DEPTHS 9 5/8" 764 to 5068	REPAIR DOWNTIME	CONTRACTOR AND RIG NO. Baron Rig #8	

4 BRIEF DESCRIPTION OF OPERATIONS

No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. 2 LIN	SPM
5																							
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS	PV/YP	GELS	PH	FILTRATE CC/30MIN.	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL
7				/	/											

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV 0/100'
10														
11														
12														
13														

OPERATIONS IN SEQUENCE

HOURS	
14 3 1/2	Circ, Clean out hole & Cond. mud to run 9 5/8" Csg.
2 1/2	Strip out of hole
3	Lay mandrel Collar down, make up 9 5/8" Csg hanger & Stinger & stand it back in derrick.
1	Rig up Power tongs & Csg. Pick up machine
2	Run 22 jts 9 5/8" Csg.
5 1/2	Wait on 8 rd. ST&C D.V. Collar.
4 1/2	Run 88 jts. 9 5/8" Csg.
1	Pick up Csg. hanger & Stinger, make it up on 9 5/8 Csg. & Tear out Csg. tongs & pick up mach.
1	Run 8 1/3 stands Drill pipe (773') in hole & tag top of Cement plug @ 5070' Shoe is at 5068

BOTTOM HOLE ASSEMBLY

15 ☐ NO CHANGE SEE RIG RECORD

☐ NEW BHA

16 TOOL & DESCRIP	OD (IN)	ID (IN)	LENGTH (FT)

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE		PROJECT NO.	DATE	DAYS	DEPTH
1	HL POWER COMPANY "Wen" 1 (035-90064)		9-6-81	36	5394
2	13/29N/15E MD B&M	SIZE	FORMATION TYPE AND TOPS		
3	1008'	9⅝" - 764' to 5065	REPAIR DOWNTIME	CONTRACTOR AND RIG NO. Brown Rig #8	

BRIEF DESCRIPTION OF OPERATIONS

4 No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. LIN	SPM
5																							
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7	4:00AM	64	41	1	1										793.95	42,511

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV 0/100'
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 ½	Hang 9⅝" Csg. in 13¾"
1½	Circ. to Cement Csg. Lost returns to surface.
2	wait for Sodium Silicate + Calcium Chloride
1	Pump 20 bbl Calcium Chloride water, mix & pump 40 bbl Sodium Silicate plug & displace w/ 1924 cu ft mud. no returns to surface
3	wait for more Sodium Silicate
2	mix 18 bbls calcium Chloride water & pump in. Mix & pump 36 bbls sodium silicate. mix & pump 394 sx. Class "H" Cement w/ 1-1 perlite, 40% silica flour, 3% Gel, .5% CFR-2 & .4% HR-7. Tail w/ 625x. "H" Cement, 40% silica flour, .5% CFR-2 & .4% HR-7. Displace w/ 1830 cu ft

BOTTOM HOLE ASSEMBLY (BHA)

15 ☐ NO CHANGE SUPERVISOR REF.

☐ NEW BHA

16 TOOL & DESCRIP.	OD	ID	LENGTH (FT.)

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

1	LEASE: HL POWER COMPANY	PROJECT NO.	DATE 9-7-81	DAYS 37	DEPTH 5304
2	WELL: "Wen" 1 (035-90064)	SIZE 13 3/4	FORMATION TYPE AND TOPS		
3	LOCATION: 13/29N/15E MD B&M / 1008'	LINERS-OD TOP AND SHOE DEPTHS 9 5/8" 764 to 5068	REPAIR DOWN TIME	CONTRACTOR AND RIG NO. Baron Rig #8	

4 BRIEF DESCRIPTION OF OPERATIONS

No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. 2 LIN	SPM
5	10	8 3/4	Smith F-4	20	20	20	Clean out Cement					60/50	I	1	C.	700	811	229		5 1/2	30	6	[illegible]
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT.	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN.	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7				/	/											

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV. 0/100'	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV. 0/100'
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE	BOTTOM HOLE ASSEMBLY (BHA)
14 3	Pick up 12-6 1/4" Collars, Make up bit, Slip & Cut Drlg. Line & Serv. rig.	15 ☐ NO CHANGE (SEE PRIOR ... ☐ NEW BHA
5 1/2	RIH slow. Take D.V. tool & Drill out same.	16 TOOL & DESCRIP. / DO ID LENGTH (IN)
1 1/2	RIH - feel for top of Cement. Bottom Cement @ 4791	
2	Drill & wash out Cement to float Collar, Drill Collar & Drill out Cement to 5065	
5 1/2	Circ. & wait for Gearhart-Owen Loggers.	
1/2	Lay drill pipe down out of Derrick.	
1 1/2	POOH	
4 1/2	Wait on Gearhart-Owen & Welex Loggers.	

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE	LEASE AND WELL: GHL POWER COMPANY "Wen" 1	PROJECT NO.	DATE 9-8-81	DAYS 38	DEPTH 5307
2	PR (035-90064)	FORMATION TYPE AND TOPS			
3	SEC 13/29N/15E MD B&M 13	CSG. OD TOP AND SHOE DEPTHS 9 5/8 764 - 5068	REPAIR DOWNTIME	CONTRACTOR AND RIG NO. Baron Rig #8	

4 BRIEF DESCRIPTION OF OPERATIONS

No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1	PUMP NO. 2
5	10	8 3/4	Smith F-4	20	20	20	5072	Drill shoe & Cement					T	n	L.	600		BL1229			
6																					

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS	PV/YP	GELS	PH	FILTRATE CC/30MIN.	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST
7				/	/										

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV (°/100')	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES	
10												
11												
12												
13												

HOURS	OPERATIONS IN SEQUENCE
14 8	Wait on Welex to run Bond Log.
1/4	Rig up logging unit
3 1/4	Run Bond Log.
1/2	Check BOP & Service Rig
2	RIH w/bit.
2	Displace mud in hole w/water
1	Drill out 9 5/8" Guide Shoe & 3' of Cement plug.
	Close Hydril Bag & try to pressure test formation.
	Based up to 400 Lbs. & formation broke down.
1 1/2	POOH
1/2	Pick up 12 jts. 4 1/2" Drillpipe.
5	Wait on Halliburton.

BOTTOM HOLE ASSEMBLY (BHA)

15 ☐ NO CHANGE (SEE PRIOR REPORT)

☐ NEW BHA

TOOL & DESCRIP.	OD x ID x LENGTH (IN.) (IN.) (FT.)

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE	LEASE AND WELL	PROJECT NO.	DATE	DAYS	DEPTH
1	HL POWER COMPANY "Wen" 1		9-9-81	39	5304
2	C (035-90064) D 13/29N/15E MD B&M	SIZE	FORMATION TYPE AND TOPS		
3		CASING-OD 9 5/8"	TOP AND SHOE DEPTHS 764 - 5068	REPAIR DOWN TIME	CONTRACTOR AND RIG NO. Brown Rig #8

BRIEF DESCRIPTION OF OPERATIONS

4 No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. 2 LIN	SP
5	11	8 3/4	Smith F-3	20	20	20	Clean out Cmt.				12/32	35/50	Inc.			600	#BA2019			5½	25	6"	7-
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT.	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN.	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7	water			/	/											

MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

8

TOTAL COST TO DATE

9

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 4	wait on Halliburton EZSV plug
½	make up EZSV plug on drillpipe
2½	RIH slow
½	Circ. & Set tool
2	mix & pump 180 sx of Class "G" Cement w/ 1-1 perlite 40% Silica flour, 3% Gel, .75% CFR-2 & .2% HR-7. Pumped 92 c/f of 400 c/f Displacement when PSI raised to 3000 psi. Pulled stinger out of EZSV & Circulated 285 c/f Cement out of hole. CIP @ 3:15 p.m.
½	Tear out Halliburton
1½	Climb out of hole to 760'
1	Pick up 2 1/4 drill collars, Close Hydril bag & Try to test manifold &

BOTTOM HOLE ASSEMBLY (BHA)

15 ☐ NO CHANGE SEE PRIOR REPORT

☐ NEW BHA

16 TOOL & DESCRIP	OD × ID × LENGTH (IN.) (IN.) (FT.)

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE					
1	LEASE: HL POWER COMPANY "Wen" 1	PROJECT NO.	DATE 9-10-81	DAYS 40	DEPTH 5403
2	PROPERTY: (035-90064) 13/29N/15E MD B&M	SIZE	FORMATION TYPE AND TOPS: Granite & Volcanics		
3	DEPTH: 13. 1008'	TOP AND SHOE DEPTHS: 9 5/8" 764 - 5068	REPAIR DOWN TIME	CONTRACTOR AND RIG NO.: Baron Rig #8	

4 BRIEF DESCRIPTION OF OPERATIONS

No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN VEL FPM	NOZ VEL FPS	PUMP NO 1 LIN	SPM	PUMP NO
5	11	8 3/4	Smith F-3	20	20	20	5403	99	10	9.9	25/30	55/60	I	NC.		200	BA	2015		5½	20	
6																						

MUD PROPERTIES MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM	DAILY MUD COST	TOTAL MUD COST
7		water		1	1									

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV. D/100	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV. D/100
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 7	Clean out Sump
1/4	Circ.
4 3/4	Clean out sump. mix thick GEL sweep pitts, 18 bbls. pump it & Circ.
5	Drilling
1	Circ. & Clean hole for Conn. 12' fill
2	Drilling
1	Circ. for Conn. Hole taking Gain. 16' fill.
3	Drilling

BOTTOM HOLE ASSEMBLY (BHA)

15 ☐ NO CHANGE (SEE PR. OR REPOR

☐ NEW BHA

16 TOOL & DESCRIP.	OD x ID x LENGTH (IN.) (IN.) (FT.)

MORNING DRILLING REPORT — **LOUIS E. CAPUANO, JR.**

LINE		PROJECT NO.	DATE	DAYS	DEPTH
1	LEASE AND WELL: GHL POWER COMPANY PR "Wen" 1		9-11-81	41	5535'
2	L (035-90064) DEL 13/29N/15E MD B&M		FORMATION TYPE AND TOPS: Granite T		
3	13 — TOP AND SHOE DEPTHS: 9 5/8" 764 - 5063	REPAIR DOWN TIME	CONTRACTOR AND RIG NO.: Baron Rig #8		

4 BRIEF DESCRIPTION OF OPERATIONS

No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out: 140°F water

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. LIN	SPM
2B5	11	8 3/4	Smith F-3	20	20	20	5450	146	11	12.36	28/30	55/60	5	3	3/8	200	BA2018			5 1/2	80	6"	
2B6	10	8 3/4	F-4	20	20	20	5535	85	10 1/2	8.09	28/32	55/60	I	A	C.	750	B1129			5 1/2	85	6"	

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7	5:00PM	water		1	1	11.0						200			214.53	45,125

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 100'	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100
10	5461	2° 1/2E	N.W-E											
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 2	Drilling
1 1/2	Pump in 20 bbl. Gel sweep pill & Circ. it around.
6	POOH, Change bits, Check BOP & RIH
1/2	Take temp Survey @ 5328'
2 3/4	Ream & Clean out fill from 5330 to 5442'
5 1/2	Drilling
1	Survey @ 5461
4 3/4	Drilling

BOTTOM HOLE ASSEMBLY (BHA)

15 ☐ NO CHANGE (SEE PRIOR REPORT)

☐ NEW BHA

16 TOOL # DESCRIP.	OD × ID × LENGTH (IN) (IN) (FT.)

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE					
1	L HL POWER COMPANY "Wen" 1	PROJECT NO.	DATE 9-12-81	DAYS 42	DEPTH 5670
2	PI (035-90064) 13/29N/15E MD B&M	ZE	FORMATION TYPE AND TOPS Granite		
3	DE 12½ - 1008'	LINERS-OD TOP AND SHOE DEPTHS 9⅝" 764 - 5068	REPAIR DOWNTIME	CONTRACTOR AND RIG NO. Baron Rig #C	

4 BRIEF DESCRIPTION OF OPERATIONS

No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out: 86°F water out flow line

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. 2 LIN
5	10	8¾	Smith F-4	20	20	20	5670	4628	34½	6.60	30/32	55/60	Inc.			700	311229			5½	85	6"
6																						

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT.	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7		water		1	1	11.0									7671.75	53,297.4

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIREC-TION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIREC-TION	COORDINATES		VERT DEPTH (VKB)	DOGLE SEV. 0/100'
10	5615	2° 30'	N-82-E											
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 19	Drilling Losing from 30-112 fluid per hr.
1	Survey @ 5615'
4	Drilling

BOTTOM HOLE ASSEMBLY (BHA)

15 ☐ NO CHANGE (SEE PRIOR REPORT)

☐ NEW BHA

16 TOOL # DESCRIP	OD × ID × LENGTH (IN) (IN) (FT.)

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE					
1	HL POWER COMPANY "Wen" 1 (035-90064) 13/29N/15E MD B&M	PROJECT NO.	DATE 9-13-81	DAYS 43	DEPTH 5747
2		SIZE 11" 8 3/4	FORMATION TYPE AND TOPS Salio Granite		
3	DEPTH 12 1/2 - 1008'	LINERS-OD TOP AND SHOE DEPTHS 9 5/8" 764 - 5068	REPAIR DOWNTIME	CONTRACTOR AND RIG NO. Brown Rig #8	

BRIEF DESCRIPTION OF OPERATIONS

4 No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. 2 LIN	SP
5	10	8 3/4	Smith F-4	20	20	20	5707	265	41 3/4	6.34	30	55/60	5	3	1/8	700	811	229		5 1/2	85	6"	8
6	12	8 3/4	m-84-F SEC.	20	20	20	5747	40	10	4	30/	55/60	I	n	c.	700	938	255		5 1/2	85	6"	8

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT.	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN.	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM		DAILY MUD COST	TOTAL MUD COST
7		WATER		1	1	11.5								571.13	53,869.1

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIREC-TION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIREC-TION	COORDINATES		VERT DEP VKB	DOGL SE
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 2 1/4	Drilling
1/4	Circ. & Serv. rig.
3 1/4	POOH, Change bits, Check BOP & RIH to 5610'
1 3/4	Ream & Clean out from 5610 to 5707
10	Drilling

BOTTOM HOLE ASSEMBLY CHANGE

[ ] NO CHANGE SEE REPORT

[ ] NEW BHA

NO. DESCRIPTION LENGTH

MORNING DRILLING REPORT — **LOUIS E. CAPUANO, JR.**

LINE

1 HL POWER COMPANY
"Wen" 1
(035-90064)
2 13/29N/15E MD B&M

PROJECT NO.	DATE	DAYS	DEPTH
	9-14-81	44	5800

SIZE	FORMATION TYPE AND TOPS
10 7/4	Granite

	LINERS-OD TOP AND SHOE DEPTHS	REPAIR DOWNTIME	CONTRACTOR AND RIG NO.
3 1-1- 1008'	9 5/8" 7-1- 5068'		Baron Rig #8

BRIEF DESCRIPTION OF OPERATIONS

4 No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO LIN	S
5	12	8 3/4	M-94-F	20	20	20	5800	93	26	3.57	30/32	50/55	2	2	1/6	200	938	355		5½	95	6	
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT.	FUN'L VIS.	PV/YP	GE-S	PH	FILTRATE CC/30MIN	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COS
7		Water		/	/											

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGL SEV 0/1
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 16	Drilling water loss from 160 Bph to 320 bph.
1	Losing Circulation, trying to pick off @ 5800, work pipe free.
2	POOH
4	wait on Gearhart-Owen Logging unit.
1	Rig up logger & Start in hole w/ Sonic log.

BOTTOM HOLE ASSEMBLY BHA

15 ☐ NO CHANGE (SEE PRIOR REPO-
☐ NEW BHA

16 TOOL # DESCRIP	OD × ID × LENGTH (IN.) (IN.) (FT.)

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE					
1	LEASE: GHL POWER COMPANY	PROJECT NO.	DATE 1-15-81	DAYS 45	DEPTH 5300
2	PR "Wen" 1 (035-90064)	FORMATION TYPE AND TOPS			
3	DEI 13/29N/15E MD B&M 13 -48'	LINERS-OD TOP AND SHOE DEPTHS 9 5/8" 764-5068	REPAIR DOWNTIME	CONTRACTOR AND RIG NO. Barron Rig #8	

4 BRIEF DESCRIPTION OF OPERATIONS

No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. LIN	SP
5																							
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS	PV/YP	GELS	PH	FILTRATE CC/30MIN	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7				/	/											

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV 0/100'
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 3	Run Sonic Log. Got down to 5393. Hung Logging tool up in hole, pulled it loose w/3500#. Pulled up to 5300', reamed back down & tool would not go below 5323'. Pull tool out of hole. Tear out Gen Mart.
2	Tear out flowline & pitcher nipple
19	Wait on Air Compr. & Rig up to go to Air.

BOTTOM HOLE ASSEMBLY (BHA)

15 ☐ NO CHANGE SEE PREVIOUS REPORT

☐ NEW BHA

16 TOOL # DESCRIP	SIZE IN	LENGTH (FT.)

LOUIS E. CAPUANO, JR.

MORNING DRILLING REPORT

LINE		PROJECT NO.	DATE	DAYS	DEPTH
1	HL POWER COMPANY "Wen" 1 (035-90064)		7-16-81	46	5800
2	13/29N/15E MD B&M	SIZE 7"	FORMATION TYPE AND TOPS		
3	1 ~ N - 1008'	LINERS-OD TOP AND SHOE DEPTHS 9 5/8" 764-5068	REPAIR DOWNTIME	CONTRACTOR AND RIG NO. Barrow Rig #8	

BRIEF DESCRIPTION OF OPERATIONS

4 No. of Comp. Running: 1

Cubic Feet per Min:

Compressor Pressure: 150-225

Mist: 0

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. LIN	S
5	13	8 3/4	Smith 46R	OPEN																			
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT.	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN.	CAKE 32NDS	% SAND	% SOL DS	% OIL	% CHLORIDES		DAILY MUD COST	TOTAL MUD COS
7				/	/										

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGL SEV 0/10
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 6	Rig up for Air Drilling
2	RIH w/ bit, Drill Collars, Heavy wate Drill pipe & 1 stand 16.60 Drill pipe. w/ Kelly down - 774"
2	Circ. water out of hole w/ Air
3	Wait on & hook up Sump pump
2	RIH two more stands (956) & blow hole. Hole making 1200 - 1800 Bbl-min.
9	Pump Sump down

BOTTOM HOLE ASSEMBLY (BHA

15 ☐ NO CHANGE (SEE PRIOR REPOR

☐ NEW BHA

16 TOOL & DESCRIP.	OD (IN.)	ID (IN.)	LENGTH (FT.)

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE

1 HL POWER COMPANY
"Wen" 1
(035-90064)
2 13/29N/15E MD B&M

PROJECT NO.	DATE	DAYS	DEPTH
	7-17-81	47	5800

SIZE	FORMATION TYPE AND TOPS

D	DEPTH	LINERS-OD TOP AND SHOE DEPTHS	REPAIR DOWN TIME	CONTRACTOR AND RIG NO.
3 13 3/8	1008'	9 5/8" 764-5068		Baron Rig #8

BRIEF DESCRIPTION OF OPERATIONS

4 No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT RPM	DULL COND 8THS T	B	G	STAND PIPE PRESS	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. 2 LIN	SP
5	13	8 3/4	Smith 4 GP.	Open			INC.																
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT.	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN.	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7				/	/											

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH VKB)	DOGLEG SEV 0/100
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 1	PUMP SUMP.
3 1/2	WAIT ON fit sub.
1/2	SERVICE RIG.
1 1/2	RIH
1/2	PUMP CELLAR.
1	PULL UP + CHANG fit IN BIT SUB.
5	RIH
9	CIRC W/ AIRATED WATER.
2	POH. @ 7:00 AM 9-17-1981

BOTTOM HOLE ASSEMBLY (BHA)

15 ☐ NO CHANGE SEE PRIOR REPORT

☐ NEW BHA

16 TOOL & DESCRIP	OD x ID x LENGTH (IN) (IN) (FT)

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE					
1	LEASE: HL POWER COMPANY WELL: "Wen" 1 (035-90064)	PROJECT NO.	DATE: 9-18-81	DAYS: 48	DEPTH: 5800
2	LOCATION: 13/29N/15E MD B&M	SIZE: 2-	FORMATION TYPE AND TOPS		
3	DEPTH: 1.. a @ 1008	TOP AND SHOE DEPTHS: 1978- 764-5098	REPAIR DOWNTIME: —	CONTRACTOR AND RIG NO.: BARON Rig # 8	

4 BRIEF DESCRIPTION OF OPERATIONS

No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. LIN	SP
PB5	13	8 3/4	Smith 46A	open			INC																
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS	PV/YP	GELS	PH	FILTRATE CC/30MIN	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7		H2O		/	/											

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	COORD SEV
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 1	WAIT ON ORDERS
1	POH. to 4850
1	WAIT ON ORDERS
3	TRIP TAG FILL @ 5398
5	CLEAN OUT FILL F/ 5398 to 5562-
1	PULL to 4800
12	PUMP SWAP-

BOTTOM HOLE ASSEMBLY

15 ☐ NO CHANGE

☐ NEW BHA

16 TOOL # DESCRIP.	OD IN	LENGTH IN FT.

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE

1 HL POWER COMPANY
"Wen" 1
(035-90064)
2 13/29N/15E MD B&M

PROJECT NO.	DATE	DAYS	DEPTH
	9-19-81	49.	5837

SIZE 1. FORMATION TYPE AND TOPS

LINERS-OD TOP AND SHOE DEPTHS	REPAIR DOWN TIME	CONTRACTOR AND RIG NO.
9 5/8 @ 764 to 5098		BARON Rig # 8

3 D 7/8 @ 1008

BRIEF DESCRIPTION OF OPERATIONS

4 No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. LIN	S
1	13	8 3/4	Smith 4 GA-	0	PF	N	5837	37	6½	6													
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN.	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7				/	/											

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV 0/10
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14	
7	CIRC @ 4893.
1	R.I.H. to 5800
1/2	PULL to 4893
1/2	MAKE UP AIR SUB + F/C SUB. RIH to 5800
6½	DRILL to 5837
1½	CIRC CLEAN
11	P.O.H.
2	REMOVE ROTATING HEAD

BOTTOM HOLE ASSEMBLY (BHA)

15 ☐ NO CHANGE (SEE PRIOR REPOR

☐ NEW BHA

16 TOOL DESCRIP	OD x ID x LENGTH (IN) (IN) (FT.)

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE					
1	LEASE: HL POWER COMPANY "Wen" 1 (035-90064)	PROJECT NO.	DATE 9-20-81	DAYS 50	DEPTH 5837
2	WELL NO. 13/29N/15E MD B&M	SIZE	FORMATION TYPE AND TOPS		
3	DEPTH @ 1008	LINERS-OD TOP AND SHOE DEPTHS 9 5/8" / 764 - 5098	REPAIR DOWN TIME —	CONTRACTOR AND RIG NO. BANOK Rig # 8	

BRIEF DESCRIPTION OF OPERATIONS

4 No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. 2 LIN	SPM
5																							
6																							

MUD PROPERTIES MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7				/	/											

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV 0/100'
10														
11														
12														
13														

HOURS	OPERATIONS IN SEQUENCE
14 3	Rig lubricator.
1	Rig Servicant wire line
4	Run Temp log - log stopped @ 5319 ft.
8	Run DIL/SP 5835 to 5066
8	Run BHC/CDL/GR 5835 to 5066

BOTTOM HOLE ASSEMBLY (BHA)

15 ☐ NO CHANGE (SEE PREV. REPORT)

☐ NEW BHA

16 TOOL & DESCRIP.	OD (IN)	LENGTH (FT)

MORNING DRILLING REPORT

LOUIS E. CAPUANO, JR.

LINE		PROJECT NO.	DATE	DAYS	DEPTH
1	HL POWER COMPANY "Wen" 1 (035-90064)		9-21-81	51	5837
2	13/29N/15E MD B&M	SIZE	FORMATION TYPE AND TOPS		
3	... 1008	9 5/8-764 & 5098	REPAIR DOWNTIME	CONTRACTOR AND RIG NO. BARON Rig # 8	

BRIEF DESCRIPTION OF OPERATIONS

4 No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND 8THS T	B	G	STAND PIPE PRESS	CIRC RATE GPM	MIN. ANN VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. 2 LIN	SP.
5																							
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS	PV/YP	GELS	PH	FILTRATE CC/30MIN.	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM		DAILY MUD COST	TOTAL MUD COST
7				/	/										

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT. DEPTH (VKB)	DOGLEG SEV 0/100'	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH (VKB)	DOGLEG SEV 0/100
10														
11														
12														
13														

HOURS — **OPERATIONS IN SEQUENCE**

14
1 Shut well in @ 8:00 AM
2 Remove Lubricator
3 Rig Flow Equipment
4 Put well on Test Through 8" orifice @ 12:53 PM
7 Initial W/H Pressure 40 psig
8 Open 10% - 23 psig @ 222°F
Open 20% - 15 psig @ 230°F
Open Full 15 psig @ 232°F
Flow period - 5 1/2 hrs Total
Shut in well @ 1820 hrs.
Recovery - 43 psig - 20 seconds.

BOTTOM HOLE ASSEMB.

S NO CHANGE

NEW BHA

TOOL DESCRIP.	OD (IN.)

MORNING DRILLING REPORT LOUIS E. CAPUANO, JR.

LINE					
1	HL POWER COMPANY ("Wen" 1 (035-90064)	PROJECT NO.	DATE -22-81	DAYS 2	DEPTH 5737
2	13/29N/15E MD B&M	SIZE —	FORMATION TYPE AND TOPS —		
3	DEPTH 1008	CASING-OD TOP AND SHOE DEPTHS 9⅝ @ 764 To 5098	REPAIR DOWN TIME —	CONTRACTOR AND RIG NO Baron Rig # 8	

4 BRIEF DESCRIPTION OF OPERATIONS

No. of Comp. Running:

Cubic Feet per Min:

Compressor Pressure:

Mist:

Temperature Out:

BIT, WEIGHT, SPEED AND HYDRAULICS RECORD

	BIT NO.	SIZE	TYPE	NOZZLES 32NDS 1	2	3	DEPTH OUT	FEET	HOURS	FEET PER HOUR	BIT WT MLB	ROT. RPM	DULL COND. 8THS T	B	G	STAND PIPE PRESS.	CIRC RATE GPM	MIN. ANN. VEL. FPM	NOZ VEL FPS	PUMP NO. 1 LIN	SPM	PUMP NO. LIN	SPM
5																							
6																							

MUD PROPERTIES, MATERIALS ADDED AND COSTS

	SAMPLE TIME	WT	FUN'L VIS.	PV/YP	GELS	PH	FILTRATE CC/30MIN	CAKE 32NDS	% SAND	% SOLIDS	% OIL	CHLORIDES PPM			DAILY MUD COST	TOTAL MUD COST
7				/	/											

8 MUD MATERIALS AND QUANTITIES ADDED IN LAST 24 HOURS

9 TOTAL COST TO DATE

DIRECTIONAL SURVEYS

	MEASR'D INSTRMNT DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES		VERT DEPTH TVKB	DOGLEG SEV. DEG/100'	MEASR'D INSTRMNT. DEPTH	DRIFT ANGLE	DIRECTION	COORDINATES	
10												
11												
12												
13												

HOURS	OPERATIONS IN SEQUENCE	BOTTOM HOLE
14 5	Wait on Cross over Sub for wire line Tools	15 ☐ NO CHANGE
5	Run Custer Temp Log Max Temp 247°	☐ NEW BHA
2	Rig Down Gearhart	16 TOOL # DESCRIP
4	Install Install Grant Rotating Head	
8	Lay Down Drill Pipe & Drill Collars	