DIVERSIFIED WELL LOGGING, LLC

AFTERNOON REPORT No. 10 PM

COMPANY :	Northeast Natural Energy	STATE :	West Virginia	DATE :	9/6/2015
WELL NAME :	MIP 3P	CO/PARISH :	Monongalia	TIME :	14:20
LOCATION :	Morgantown	PERMIT NUMBER :	4706101707	DEPTH :	7840'
RIG NAME :	Patterson-UTI #254	AFE NUMBER :	MIP 3P	TVD :	7837.33'
RIG ACTIVITY :	CEMENTING	FT PAST 12 hrs :	0'	LAG DEPTH :	7840'

DRILLING DATA	
RATE OF PENETRATION	0
WEIGHT ON BIT	0k
PUMP PRESSURE	0
ROTARY RPM'S	0
MUD MOTOR RPM'S	0
TORQUE	0k
EST. PORE PRESSURE	0
DXC	0.00
ECD	0.00
SHALE DENSITY	0

MUD PROPERTIES	
MUD TYPE	WBM
MUD WEIGHT	12.4
VISCOSITY	88
PLASTIC VIS.	25
YIELD POINT	15
CHLORIDES	137000
FLOW LINE TEMP	95º

SURVEY DATA	
SV. MEASURE DEPTH	7445'
SV.ANGLE	1.20º
AZIMUTH	281.15º
SV. TVD	7442.42'

GAS DATA		DEPTH	MW IN	MUD CUT
AVG BACKGROUND GAS	10u			
CONNECTION GAS				
TRIP GAS				
MAX GAS				

GAS PEAKS	GAS	DEPTH	MW IN	MUD CUT	@ TEMP

BIT HYDRAULICS	
BIT SIZE	8.75"
BIT TYPE	PDC
ON BOTTOM BIT HOURS	0
TFA	0.7823
JET VELOCITY	0.00
PERCENTAGE PRESS. LOSS @ BIT	0.0000
ANULAR VELOCITY	0.00
FOOTAGE	940'

PUMPS DATA	
PUMP OUTPUT	0.0882
PUMP OUTPUT ON RISER	0.0000
TOTAL STROKES PER MIN	0
BARRELS PER MIN PUMPED	0
GALLONS PER MIN PUMPED	0
TOTAL STROKES PER MIN ON RISER	0
BARRELS PER MIN ON RISER	0
GALLONS PER MIN ON RISER	0

WELL GEOMETRY		
WASH OUT %		0%
RISER LENGTH		0'
CASING SHOE DEPTH		0'
OPEN HOLE FOOTAGE		7840'
	ANN. VOL.	TOT. VOL.
RISER	0	0
CASING	0	0
OPEN HOLE	390	583
TOTAL	390	583
PIPE		138
	STROKES	TIME D/H/M
BOTTOM'S UP	4433	0:00:00
SURFACE TO BIT	1561	0:00:00
SURFACE TO SURFACE	5994	0:00:00
BOTTOM TO WELLHEAD	0	0:00:00
WELLHEAD TO SURFACE	0	0:00:00
GAS REFERENCING S. / S	0	0:00:00

ZONE OF INTEREST

MEASURE DEPTH		TVD		ROP			GAS			
FROM	TO	FROM	TO	BEFORE	AFTER	MAX	BEFORE	DURING	AFTER	MAX

LITHOLOGY

DEPTH	PERCENT	FORMATION	DESCRIPTION
7840'	10%	LIMESTONE	v/ltGy - medGy,blky, imbd CAL - rkfrags, tt por
	80%	SANDSTONE	Wh - ltGy, un to occ lsey cons, fn grn, subang, mody srtd
	10%	SHALE	GyshBlk - Blk, subblky-splntry, smth txt, frm-vhd

REMARKS

CIRCULATE AND CONDITION FOR CEMENT JOB/PUMP CEMENT AND SET 1 STAGE PLUG AT 7840'/POOH 7 STANDS/SET 2 STAGE CEMENT PLUG AT 7195'/POOH 7 STANDS/SET FINAL PLUG AT6564' @ TIME OF REPORT

DITCH MAGNET		TOTAL			PRESSURE	EMPTY	FULL	EXTRACTOR INTEGRITY TEST (EIT)		
UNIT MANAGER	Chuck Hubbard			HYDROGEN				EXPECTED GAS	ACTUAL GAS	PERCENT
LOGGERS	James Liles / Jon Leya			2%GAS				100	98	98%
PURGE	ALARM	SHUT DOWN	RESTART	20% GAS				UNIT NUMBER		DT-117
				COMP GAS						