

Exhibit G
Master Drilling Plan

**Noble Energy, Inc.
Master Drilling Plan**

**Mary's River Oil and Gas Exploration
Elko County, Nevada**

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Presented to:

**Bureau of Land Management
Wells Field Office
3900 E. Idaho Street
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1 GENERAL INFORMATION

1.1 Well Objectives

- The Mary's River well(s) are planned to be drilled to total depths ranging from 7,000' – 14,000' based on full penetration of the Tertiary sequence.
- Planned TD will be in the underlying Paleozoic section with adequate penetration to allow full logging of the base of Tertiary.
- Initially, wells will either be vertical or 'S' shaped if drilled in pairs for micro-seismic listening purposes during subsequent fracture stimulation.
- Potential reservoirs of the Humboldt, Indian Well and Elko formations will be evaluated with wireline logs and potentially sidewall cores, whole cores and formation tests will be taken.
- Full sets of cuttings samples will be obtained for lithologic analysis of well.
- The current drilling plan includes the installation of a Parasite Aeration String (PAS) with intermediate casing to $\pm 3000'$ TVD/MD for mitigation of potentially catastrophic losses while drilling the production interval. This requires larger conductor (24" vs 20") and surface casing (16" vs 13.375") as well as larger intermediate hole OD (14.75" vs 12.25").
- It may be determined during the initial appraisal drilling program that the PAS is unnecessary, in which case conductor, surface and intermediate hole sizes will be reduced on subsequent wells.

1.2 General Procedure

- Set 24" conductor @ +/- 80' below ground level.
- Drill 22" hole to $\pm 600'$ TVD/MD.
- Run and cement 16" surface casing.
- Install and test rotating head and 16" 2M Annular BOP.
- Drill 14-3/4" hole to $\pm 3000'$ TVD/MD using water based, inhibitive gel mud system.
- Run wireline logs.
- Run 9-5/8" intermediate casing w/ 1.9" parasite aeration string and cement to surface.
- Install and test wellhead, rotating head, 11" 5M annular, blinds, pipes and mud cross.
- Drill 8-3/4" vertical hole to TD collecting geoscience data as directed by NEI G & G.
- Run wireline logs, sidewall cores, formation tests as directed.
- Run 5-1/2" full string casing and cement to 500' above shallowest observed hydrocarbon zone.
- ND BOP, NU and Test 10Kpsi tubing head, prepare to move/skid to new location.

2 Formation Tops – anticipated water, oil, gas or minerals

Formation	Top MD (ft)	Substance
Valley Fill	Surface	water
Humboldt	Surface – 2,000'	water, possible oil/gas shows >3,000' TVD
Indian Well (if present)	4,000' – 6,000'	Water, oil, gas
Elko (if present)	8,000' – 11,000'	Water, oil, gas
Paleozoics - undifferentiated	7,000' – 13,000'	Water, oil, gas

- Any usable water zones encountered will be adequately protected and reported. All usable water zones, potentially productive hydrocarbon zones, and valuable mineral zones will be isolated.

3 Pressure Control Equipment

The production interval blow out prevention equipment will include:

- 11" 5,000psi WP Annular BOP
- 11" 5,000psi WP Double Ram BOP
- Rotating Head

3.1 BOPE configuration

- Rotating Head
- Annular Preventer
- Blind Rams
- Pipe Rams
- Drilling Spool with (2) 3" outlets
- DSA if needed
- Casing Head
- Kill line equipped with (2) 2" x 5kpsi valves and (1) 2" x 5kpsi check valve as a minimum
- Choke line equipped with (2) 3" x 5kpsi valves
- Choke manifold equipped with (2) 3" x 5kpsi valves, (4) 3" x 5kpsi wing outlet valves, (2) manual chokes

3.2 Annular Preventer

Upon initial installation, the Annular Preventer will be pressure tested to a low pressure of 250psi and a high pressure of 70% of its rated working pressure for period of (10) minutes or until provisions of the test are met, whichever is longer. The above pressure test will be performed as required by:

- At initial installation and every 21 days thereafter
- Whenever any seal subject to test pressure is broken
- Following any related repairs

In addition, the annular preventer will be function tested at least once per week.

3.3 Ram Preventers

The Ram Preventers and remaining BOPE (excluding Annular Preventer) will be tested to the approved working pressure, assuming it has been isolated from the intermediate casing with a test plug. If the BOP stack is not isolated from the casing, then the equipment will be tested to 70% of the internal yield strength of the casing. Pressure will be maintained for a period of (10) minutes or until requirements of the test are met, whichever is longer. The above pressure test will be performed as required by:

- At initial installation and every 21 days thereafter
- Whenever any seal subject to test pressure is broken
- Following any related repairs

In addition, the pipe and blind rams will be activated on each trip, but not more than once each day. All BOP drills and tests will be recorded in the IADC driller's log. The Wells BLM Petroleum Engineer Technician and the NV Division of Mineral Resources will be notified at least twenty-four (24) hours in advance of pressure tests.

3.4 Choke Manifold Equipment

All choke lines will be straight unless turns utilize tee blocks or are targeted with running tees, and the lines will be anchored to prevent whip and vibration. A 5000psi flex choke hose may be utilized from the BOP to the choke manifold upon prior approval from BLM. Any variance requests will need to be on a sundry form 3160-5 and include the manufacturer's recommended installation, pressure rating, maximum turn radius, heat rating and anchoring.

3.5 Accumulator

The accumulator will have sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all pipe rams plus the annular preventer and retain a minimum of 200psi above the pre-charge on the closing manifold without the use of the closing unit pumps. The fluid reservoir capacity will be double the usable fluid volume of the accumulator's system capacity and the fluid level of the reservoir will be maintained at the manufacturer's recommendations.

The BOP system will have two (2) independent power sources to close preventers. Nitrogen bottles (3) minimum will be back-up for the two (2) power sources.

The accumulator pre-charge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every six (6) months thereafter. The accumulator pressure will be corrected if the measured pre-charge pressure is found to be above or below the maximum or minimum limits specified in Onshore Oil and Gas Order Number 2.

3.6 Well Control Drills

Well control drills will be conducted at least weekly by each crew. The date and time of the drills will be recorded in the IADC drilling book.

3.7 Monitoring Equipment

While drilling the production interval a pit volume totalizer (PVT) will be rigged up in the mud tanks to monitor mud volumes in the active system. An alarm will be triggered by any gain and/or loss of ten barrels or more. A flow indicator in the flow line and stroke counters on the mud pumps will enable the driller to monitor flow volume in and out of the well from the rig floor while drilling.

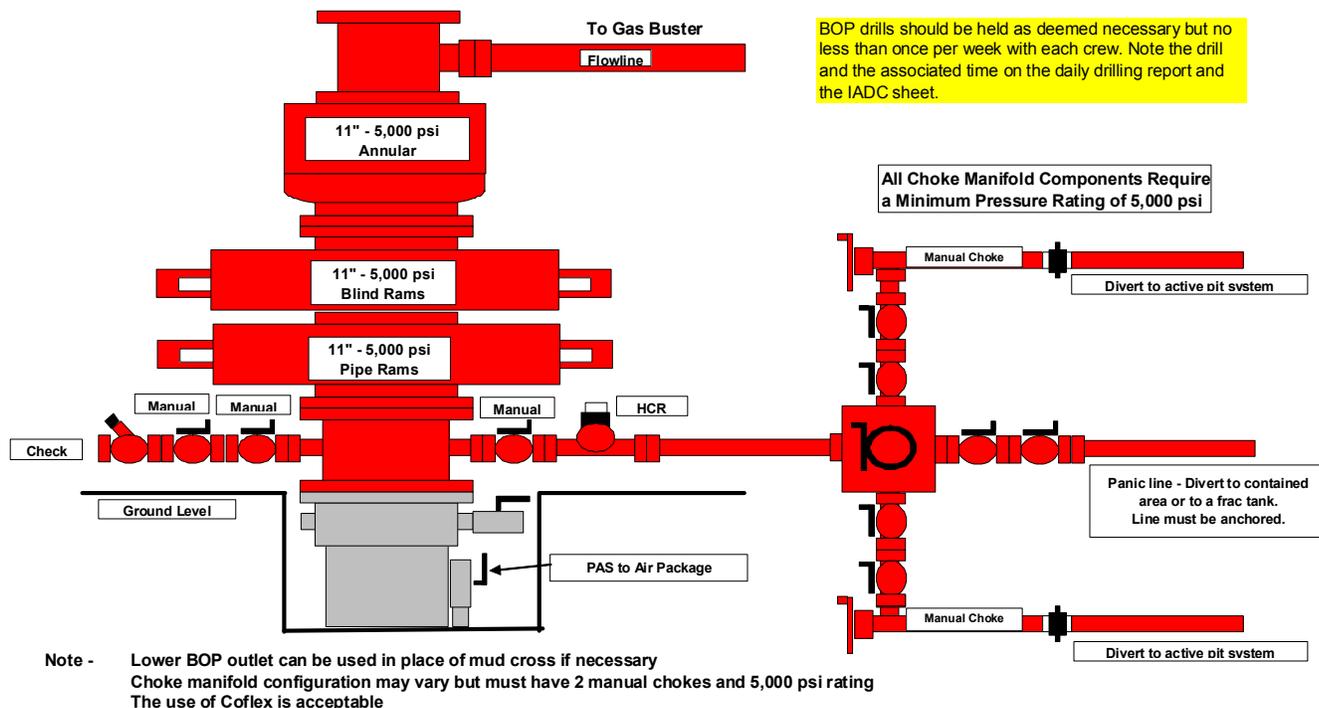
3.8 Miscellaneous Information

The Blow Out Preventer and related pressure control equipment will be installed, tested and maintained in compliance with the specifications in the requirements of Onshore Oil and Gas Order Number 2.

The choke manifold and BOP extension rods with hand wheels will be located outside the rig substructure. The hydraulic BOP closing unit will be located at least twenty-five (25) feet from the well head and will be readily accessible to the driller. Exact locations and configurations of the hydraulic BOP closing unit will depend upon the particular rig contracted to drill this hole.

Flare lines will be installed downstream from the choke manifold, extending a minimum of (75) feet from the center of the drill hole.

3.9 Production Hole BOP Diagram



BOP drills should be held as deemed necessary but no less than once per week with each crew. Note the drill and the associated time on the daily drilling report and the IADC sheet.

4 Casing Program

	Surface	Intermediate		PAS	Production
Depths Run (ft):	0 - 600	0-2200	2200 - 3000	0 - 2800	0 - TD
OD (in):	16	9.625	9.625	1.900	5.5
Weight (lb/ft):	65	36	40	2.76	17
Grade:	H-40	J-55	J-55	J-55	P-110
Pipe ID (in):	15.250	8.921	8.835	1.610	4.892
Pipe Drift ID (in):	15.062	8.765	8.75 special drift	1.516	4.767
Burst Pressure (psi):	1640	3520	3950	7350	10640
Collapse (psi):	670	2020	2570	7750	7460
Body Yield (kips):	736	564	630	43.97	546
Joint Strength (kips):	439	453	520	36.97	568
Connection:	STC	LTC	LTC	10 RD IJ	BTC

Casing strings will be pressure tested to 0.22psi/ft or casing string length or to 1,500psi whichever is greater (but not to exceed 70% of internal yield of casing), after cementing and prior to drilling out from under the casing shoe. All casing shoes will be set in competent formation. Surface casing shall have centralizers on the bottom three joints with a centralizer per two joints to 100' from surface.

4.1 Cementing Program

4.1.1 Surface Casing

Lead with 505sx Premium Class 'G' with additives mixed at 14.4 ppg with a yield of 1.5ft³/sk, 35% planned excess. Tail with 260sx Premium Class 'G' with additives mixed at 15.8 ppg with a yield of 1.18ft³/sk, 20% excess. Cement to surface. Top out with 1" pipe if necessary.

4.1.2 Intermediate Casing

Lead with 1590sx 50:50:2 (G: Pozz: Gel) plus additives mixed at 14.2ppg with a yield of 1.25ft³/sk. Actual volume pumped will be calculated based on callipered hole size +10% for losses in openhole. Cement to surface. Top out with 1" pipe if necessary. A two stage cement job will be pre-planned and carried out only if necessary with DV tool location based on depth(s) at which losses were experienced while drilling.

4.1.3 Production Casing

Lead with 1035sx of Premium Class 'G' plus additives mixed at 11.0ppg with a yield of 1.72ft³/sk. Cement will include 3M Glass Bubbles and/or N₂ foam to achieve required density while maintaining superior bonding, isolation and ductility. Actual volume will be calculated based on callipered hole size +10% for losses in openhole and TOC a minimum of 500' above shallowest productive interval. Final additive concentrations will be based on temperature survey.

All waiting on cement times shall be recorded and shall be adequate to achieve a minimum of 500psi compressive strength at the casing shoe prior to drilling out.

The District BLM office will be notified with adequate lead time to enable a BLM representative to be on location while running all casing strings and cementing.

5 Mud Program

Interval Depth (MD/TVD)	Density (ppg)	Viscosity (sec./1000 cc)	pH	Yield Point (lbs/100 ft ²)	API Fluid Loss (ml/30)	LGS (% Volume)	Additives	Hi vis Sweeps	LCM (ppb)
Mud Type: Gel / Caustic Spud Mud									
0 – 600'	8.7 – 9.2	55-60	9-9.5	18-22	N/C	4-8	PHPA, SAPP	10:1 Gel/Lime >120 Vis	sweeps
Mud Type: Inhibitive LSND WBM - Gel, K+ Formate/Silicate									
600' – 3000'	8.6 – 9.0	45-50	9-9.5	12-16	<6	4-6	2-3% K+, PHPA, PAC	10:1 Gel/Lime >120 Vis	sweeps, coarse fiber to fines
Mud Type: Inhibitive LSND WBM - Gel, K+ Formate/Silicate									
3000' - TD	8.5 – 8.8	40-45	9-9.5	8-12	<6	4-6	2-3% K+, PHPA, PAC	10:1 Gel/Lime >120 Vis	sweeps, coarse fiber to fines

The drilling fluids have been designed for optimal wellbore hydraulics and hole stability. Sufficient mud material(s) to maintain mud properties, control lost circulation and maintain well control will be available at the well during drilling operations. No abnormal pressures have been noted or reported in wells drilled in this area. Equilibrium bottom hole temperatures of up to 325°F are expected.

6 Evaluation Program

Logging / Evaluation Program may include:

600' – 3000':

- GR, SP, Caliper, RES, NPHI, DPHI, DENS, PE, Dipole Sonic, image logs, ECS logs, MDT sampling

3000' – TD:

- GR, SP, Caliper, RES, NPHI, DPHI, DENS, PE, Dipole Sonic, image logs, ECS logs, MDT sampling

Formation tests, side wall and/or whole cores will be collected as directed by NEI well site geologist and G & G team. A 2-man mud logging unit with chromatograph will be used from the surface casing shoe to TD. Two sets of dry cut samples will be collected at approximately 30 foot intervals or less from 600' to TD depending on zones of interest being drilled. Samples will be delivered to the Nevada Bureau of Mines and Geology within 30 days of completing the well.

Whether the well is completed as a dry hole or as a producer, *Well Completion Report and Log* will be submitted not later than 30 days after completion of operations being performed, in accordance with 43 CFR 3152.7 (completion of operations). Two copies of all logs, well test data, geologic summaries, sample description and all other surveys of data obtained and compiled during the drilling and or completion operations will be filed with Form 3160-4. Samples (cuttings, fluids and or gasses) will be submitted when requested by the Bureau of Land Management Authorized Officer (AO).

7 Abnormal Conditions

No abnormal temperatures or pressures are anticipated. No hydrogen sulfide has been encountered or is known to exist from previous drilling in the area. As a precautionary measure, H₂S will be monitored and safety equipment will be on location per Operator's company policy to ensure the safety of the drilling operation.

8 Anticipated Starting Dates and Notification of Operations

Construction Date: July 2013

Spud Date: October 2013

No location will be constructed or moved, no well will be plugged and no drilling or work over equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

The AO will be notified of the intent to spud 24 hours prior to Spudding and the spud date will be reported orally to the AO within 48 hours after Spudding. If the Spudding occurs on a weekend or holiday the report will be submitted on the following regular work day.

The oral report will be followed up with a Sundry Notice. In accordance with *Onshore Oil and Gas Order No. 1*, all wells will be reported on Form 3160-6 *Monthly Report of Operations*, starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report will be filed, in duplicate, to the Bureau of Land Management, PO BOX 12000, Reno, NV 89520.

Immediate Report:

Spills, blowouts, fires, leaks, accidents or any other unusual occurrence shall be promptly reported in accordance with the BLM and state requirements. Specific procedures outlined in *Fire Prevention Plan* and *Emergency Response Plan*, which have both been submitted to the BLM, will be followed.

If a replacement rig is contemplated for completion operations, a *Sundry Notice* (Form 3160-5) to the effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by mail or other written communication, not later than 5 days following the date on which the well is placed on production.

Any venting or flaring of gas during drilling or initial well evaluation tests will be conducted in accordance with Nevada rules and regulations.

9 General Conditions of Approval

- a) All lease and/or unit operations are to be conducted in such a manner to ensure full compliance with the applicable laws, regulations (43 CFR, Part 3160), Onshore Orders, Notice to Lessees and the approved plan of operations.
- b) The spud date will be reported orally to the BLM District Field Office 24 hour prior to Spudding, unless otherwise required in the site specific conditions of approval.
- c) All wells, whether drilling, producing, suspended or abandoned shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, the lease serial number, the well number and the surveyed description of the well.
- d) In accordance with *Onshore Oil & Gas Order Number 1*, this well will be reported on MMS form 3160-6, *Monthly Report of Operations and Production*, starting with the month in which operations commence and continuing each month until the well is physically plugged and abandoned.
- e) All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL-3A will be reported to the District BLM office. Major events will be reported verbally within twenty-four (24) hours and will be followed with a written report within fifteen (15) days. Specific procedures outlined in *Fire Prevention Plan* and *Emergency Response Plan* will be followed. Minor events will be reported on the *Monthly Report of Operations and Production* (form 3160-6).
- f) No well abandonment operations will be commenced without the prior approval of the Authorized Officer. In the case of newly drilled dry holes or failures and in emergency situations, oral approval will be obtained from the Field Office Petroleum Engineer.
- g) A *Notice of Intention to Abandon* (form 3160-5) will be filed with the Authorized Officer within fifteen (15) days following the granting of oral approval to plug and abandon.
- h) Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently placed on the marker with a plate, cap or beaded on with a welding torch: Company Name, Well Name and Number, Location by Quarter/Quarter, Section, Township, Range and Federal Lease Number.
- i) A subsequent *Report of Abandonment* (form 3160-5) will be submitted within thirty (30) days following the actual plugging of the wellbore. This report will indicate where plugs were placed and the current

status of surface restoration operations. If surface restoration has not been completed at that time, a follow up report on form 3160-5 will be filed when all surface restoration work has been completed and the location is considered ready for final inspection. If the location is on private surface, a *Landowner Acceptance of Reclamation* letter will be attached to this *Sundry Notice*.

- j) Any venting or flaring of gas during drilling or initial well evaluation tests will be conducted in accordance with Nevada rules and regulations.
- k) Not later than the fifth (5th) business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site or resumes production in the case of a well which has been off production for more than ninety (90) days, the Operator shall notify the Authorized Officer by letter or Sundry Notice of the date on which such production has begun or resumed. The notification shall provide at a minimum, the following informational items:
 1. Operator name, address and telephone number
 2. Well name and number
 3. Well location "¼, ¼, Section, Township, Range, P.M."
 4. Date well was placed in a producing status
 5. The nature of the well's production (i.e. crude oil or natural gas and entrained liquid hydrocarbons)
 6. The OCS, Federal or Indian lease prefix and number on which the well is located. Otherwise, the non-Federal or non-Indian land category (i.e. : state or private)
 7. As appropriate, the communitization agreement number, the unit agreement name, number and participating area name.
- l) Within sixty (60) days following construction of a new tank battery, a site facility diagram of the battery showing actual conditions and piping must be submitted to the Authorized Officer. Facility diagrams shall be filed within sixty (60) days after existing facilities are modified. For complete information as to what is required on these diagrams, please refer to 43 CFR 3162.7-4(d).
- m) Pursuant to *Onshore Oil & Gas Order Number 1*, lessees and operators have the responsibility to see that their exploration, development, production and construction operations are conducted in such a manner which conforms with applicable Federal laws and regulations and with state and local laws and regulations to the extent that such state and local laws are applicable to operations on Federal and Indian lands.