

7/23/15

1000 Noble Energy Drive
Canonsburg, PA 15317-9504

Tel: 724-820-3000
Fax: 724-820-3098
www.nobleenergyinc.com



017-00072
G70-A001B
John
Clayton

July 21, 2015

Beverly D. McKeone,
West Virginia Department of Environment
Division of Air Quality
601 57th Street
Charleston, WV 25304-2345

JUL 23 2015

Re: **Class I Administrative Update
Registration G70-A001A
Facility ID No. 017-00072**

Dear Ms. McKeone:

As previously discussed, Noble Energy Inc. (Noble) plans to change equipment at the Oxford 1 Production Facility (OXF 1) as warranted by decline in production. This update reflects the removal of one (1) Caterpillar 3508B engine rated at 674 horsepower (hp), used for compression of flash gas associated with condensate stabilization. In lieu of the Caterpillar 3508B, Noble intends to install one (1) Caterpillar 342NA engine rated at 225 hp to serve the same function in process, sized commensurate with the decline of production.

The replacement engine is equipped with an interlocked catalyst that is integral to the unit such that operation of the engine is precluded in the absence of a properly functioning catalyst. As such, the potential to emit has been calculated for this source based on post control values pursuant to 45 CSR 13 2.19a.

As the facility change constitutes a decrease in emissions pursuant to limitations outlined in 45 CSR 13 4.2.a.8, Noble hereby requests a Class I Administrative Update, detail enclosed.

Additionally, the replacement engine was manufactured prior to June 12, 2006 with no subsequent overhauls triggering reconstruction or modification provisions of New Source Performance Standards (NSPS). The initial engine was subject to NSPS and registered as such. The change of engines therefore does not add substantive control requirements.

If further information is required, please contact me at 724-820-3077 or clayton.murrall@nblenergy.com.

Sincerely,

Clayton Murrall
Senior Environmental Specialist
Noble Energy, Inc.

Id. No. 017-00072 Reg. G70-A001B
Company Oxford 1 NG Production Facility
Facility Oxford Region 8
Initials JC Legg

Enclosures

NON-CONFIDENTIAL
ENTIRE DOCUMENT



WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 DIVISION OF AIR QUALITY
 601 57th Street, SE
 Charleston, WV 25304
 Phone: (304) 926-0475 • www.dep.wv.gov/daq

APPLICATION FOR GENERAL PERMIT REGISTRATION
 CONSTRUCT, MODIFY, RELOCATE OR ADMINISTRATIVELY UPDATE
 A STATIONARY SOURCE OF AIR POLLUTANTS

CONSTRUCTION MODIFICATION RELOCATION CLASS I ADMINISTRATIVE UPDATE
 CLASS II ADMINISTRATIVE UPDATE

CHECK WHICH TYPE OF GENERAL PERMIT REGISTRATION YOU ARE APPLYING FOR:

- | | |
|--|--|
| <input type="checkbox"/> G10-D - Coal Preparation and Handling | <input type="checkbox"/> G40-C - Nonmetallic Minerals Processing |
| <input type="checkbox"/> G20-B - Hot Mix Asphalt | <input type="checkbox"/> G50-B - Concrete Batch |
| <input type="checkbox"/> G30-D - Natural Gas Compressor Stations | <input type="checkbox"/> G60-C - Class II Emergency Generator |
| <input type="checkbox"/> G33-A - Spark Ignition Internal Combustion Engines | <input type="checkbox"/> G65-C - Class I Emergency Generator |
| <input type="checkbox"/> G35-A - Natural Gas Compressor Stations (Flare/Glycol Dehydration Unit) | <input checked="" type="checkbox"/> G70-A - Class II Oil and Natural Gas Production Facility |

SECTION I. GENERAL INFORMATION

1. Name of Applicant (as registered with the WV Secretary of State's Office): Noble Energy, Inc		2. Federal Employer ID No. (FEIN): 73-0785597	
3. Applicant's mailing address: Clayton Murrell 1000 Noble Energy Drive Canonsburg, PA 15317		4. Applicant's Physical Address 1000 Noble Energy Drive Canonsburg, PA 15317	
5. If applicant is a subsidiary corporation, please provide the name of parent corporation:			
6. WV BUSINESS REGISTRATION. Is the applicant a resident of the State of West Virginia? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no - IF YES, provide a copy of the Certificate of Incorporation/ Organization / Limited Partnership (one page) including any name change amendments or other Business Registration Certificate as Attachment A. - IF NO, provide a copy of the Certificate of Authority / Authority of LLC / Registration (one page) including any name change amendments or other Business Certificate as Attachment A.			

SECTION II. FACILITY INFORMATION

7. Type of plant or facility (stationary source) to be constructed, modified, relocated or administratively updated (e.g., coal preparation plant, primary crusher, etc.): Oil and Gas Production Facility	8a. Standard Industrial Classification (SIC) code: 1311	8b. North American Industry Classification System (NAICS) code: 211111
9. DAQ Plant ID No. (for existing facilities only): 017-00072	10. List all current 45CSR13 and other General Permit numbers associated with this process (for existing facilities only): G70-A001A	

A: PRIMARY OPERATING SITE INFORMATION

11A. Facility name of primary operating site: Oxford 1 Production Facility	12A. Address of primary operating site: Mailing: _____ Physical: <u>See Section 14A</u>
13A. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO - IF YES, please explain: <u>Lease</u> - IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.	
14A. - For Modifications or Administrative Updates at an existing facility, please provide directions to the present location of the facility from the nearest state road; - For Construction or Relocation permits, please provide directions to the proposed new site location from the nearest state road. Include a MAP as Attachment F. From US 50 (just after mile post 50.0 if travelling east or just before mile post 50.0 if traveling west) make right if traveling east or a left if traveling west onto CR 50/30 (Old US 50 – Sunnyside Road) and travel 1.87 miles to CR 21 (Oxford Road), make a left onto Oxford Road and travel approximately 2.9 miles to CR 11/3 (Elliott Road), make a left onto Elliott Road and travel 1.18 miles to lease road on the right.	
15A. Nearest city or town: West Union	16A. County Doddridge County
18A. Briefly describe the proposed new operation or change (s) to the facility: <p align="center">Replace flash gas compressor to accommodate decline in production of wells.</p>	
17A. UTM Coordinates Northing (KM): 4343.72 Easting (KM): 515.07 Zone: 17	
19A. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: 39.24278 Longitude: -80.82542	

B: 1st ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits)

11B. Name of 1st alternate operating site: _____ _____	12B. Address of 1st alternate operating site: Mailing: _____ Physical: _____ _____
13B. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? <input type="checkbox"/> YES <input type="checkbox"/> NO - IF YES, please explain: _____ - IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.	

14B. - For **Modifications or Administrative Updates** at an existing facility, please provide directions to the present location of the facility from the nearest state road;
 - For **Construction or Relocation** permits, please provide directions to the proposed new site location from the nearest state road. Include a **MAP** as Attachment F.

15B. Nearest city or town:	16B. County	17B. UTM Coordinates Northing (KM): Easting (KM): Zone:
18B. Briefly describe the proposed new operation or change (s) to the facility:		19B. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: Longitude:

C: 2nd ALTERNATE OPERATING SITE INFORMATION (only available for G20, G40, & G50 General Permits)

11C. Name of 1st alternate operating site:	12C. Address of 1st alternate operating site: Mailing: _____ Physical: _____
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13C. Does the applicant own, lease, have an option to buy, or otherwise have control of the proposed site? yes no

- IF YES, please explain: _____

- IF NO, YOU ARE NOT ELIGIBLE FOR A PERMIT FOR THIS SOURCE.

14C. - For **Modifications or Administrative Updates** at an existing facility, please provide directions to the present location of the facility from the nearest state road;
 - For **Construction or Relocation** permits, please provide directions to the proposed new site location from the nearest state road. Include a **MAP** as Attachment F.

15C. Nearest city or town:	16C. County	17C. UTM Coordinates Northing (KM): Easting (KM): Zone:
18C. Briefly describe the proposed new operation or change (s) to the facility:		19C. Latitude & Longitude Coordinates (NAD83, Decimal Degrees to 5 digits): Latitude: Longitude:

20. Provide the date of anticipated installation or change: <p style="text-align: center;">7/24/2015</p> If this is an after the fact permit application, provide the date upon which the proposed change did happen: / /	21. Date of anticipated Start-up if registration is granted: <p style="text-align: center;">7/31/2015</p>								
22. Provide maximum projected Operating Schedule of activity/activities outlined in this application if other than 8760 hours/year. (Note: anything other than 24/7/52 may result in a restriction to the facility's operation). <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 20%;">Hours per day</td> <td style="width: 10%; text-align: center;">24</td> <td style="width: 20%;">Days per week</td> <td style="width: 10%; text-align: center;">7</td> <td style="width: 20%;">Weeks per year</td> <td style="width: 10%; text-align: center;">52</td> <td style="width: 10%;">Percentage of Operation</td> <td style="width: 10%; text-align: center;">100</td> </tr> </table>		Hours per day	24	Days per week	7	Weeks per year	52	Percentage of Operation	100
Hours per day	24	Days per week	7	Weeks per year	52	Percentage of Operation	100		

SECTION III. ATTACHMENTS AND SUPPORTING DOCUMENTS

23. Include a check payable to WVDEP – Division of Air Quality with the appropriate application fee (per 45CSR22 and 45CSR13).

24. Include a Table of Contents as the first page of your application package.

All of the required forms and additional information can be found under the Permitting Section (General Permits) of DAQ's website, or requested by phone.

25. Please check all attachments included with this permit application. Please refer to the appropriate reference document for an explanation of the attachments listed below.

- ATTACHMENT A : CURRENT BUSINESS CERTIFICATE
- ATTACHMENT B: PROCESS DESCRIPTION
- ATTACHMENT C: DESCRIPTION OF FUGITIVE EMISSIONS
- ATTACHMENT D: PROCESS FLOW DIAGRAM
- ATTACHMENT E: PLOT PLAN
- ATTACHMENT F: AREA MAP
- ATTACHMENT G: EQUIPMENT DATA SHEETS AND REGISTRATION SECTION APPLICABILITY FORM
- ATTACHMENT H: AIR POLLUTION CONTROL DEVICE SHEETS
- ATTACHMENT I: EMISSIONS CALCULATIONS
- ATTACHMENT J: CLASS I LEGAL ADVERTISEMENT
- ATTACHMENT K: ELECTRONIC SUBMITTAL
- ATTACHMENT L: GENERAL PERMIT REGISTRATION APPLICATION FEE
- ATTACHMENT M: SITING CRITERIA WAIVER
- ATTACHMENT N: MATERIAL SAFETY DATA SHEETS (MSDS)
- ATTACHMENT O: EMISSIONS SUMMARY SHEETS
- OTHER SUPPORTING DOCUMENTATION NOT DESCRIBED ABOVE (Equipment Drawings, Aggregation Discussion, etc.)

Please mail an original and two copies of the complete General Permit Registration Application with the signature(s) to the DAQ Permitting Section, at the address shown on the front page of this application. Please DO NOT fax permit applications. For questions regarding applications or West Virginia Air Pollution Rules and Regulations, please refer to the website shown on the front page of the application or call the phone number also provided on the front page of the application.

SECTION IV. CERTIFICATION OF INFORMATION

This General Permit Registration Application shall be signed below by a Responsible Official. A Responsible Official is a President, Vice President, Secretary, Treasurer, General Partner, General Manager, a member of a Board of Directors, or Owner, depending on business structure. A business may certify an Authorized Representative who shall have authority to bind the Corporation, Partnership, Limited Liability Company, Association, Joint Venture or Sole Proprietorship. Required records of daily throughput, hours of operation and maintenance, general correspondence, Emission Inventory, Certified Emission Statement, compliance certifications and all required notifications must be signed by a Responsible Official or an Authorized Representative. If a business wishes to certify an Authorized Representative, the official agreement below shall be checked off and the appropriate names and signatures entered. Any administratively incomplete or improperly signed or unsigned Registration Application will be returned to the applicant.

FOR A CORPORATION (domestic or foreign)

I certify that I am a President, Vice President, Secretary, Treasurer or in charge of a principal business function of the corporation

FOR A PARTNERSHIP

I certify that I am a General Partner

FOR A LIMITED LIABILITY COMPANY

I certify that I am a General Partner or General Manager

FOR AN ASSOCIATION

I certify that I am the President or a member of the Board of Directors

FOR A JOINT VENTURE

I certify that I am the President, General Partner or General Manager

FOR A SOLE PROPRIETORSHIP

I certify that I am the Owner and Proprietor

I hereby certify that _____ is an Authorized Representative and in that capacity shall represent the interest of the business (e.g., Corporation, Partnership, Limited Liability Company, Association Joint Venture or Sole Proprietorship) and may obligate and legally bind the business. If the business changes its Authorized Representative, a Responsible Official shall notify the Director of the Office of Air Quality immediately, and/or,

I hereby certify that all information contained in this General Permit Registration Application and any supporting documents

Signature
(Please use blue ink)



Responsible Official

7/21/15

Date

Name & Title
(Please print or type)

RJ Moses

Operations Manager

Marcellus Business Unit

Signature
(Please use blue ink)

Authorized Representative (if applicable)

Date

Applicant's Name Noble Energy, Inc

Phone & Fax

(724) 820-3001
Phone

Fax

Email

rjmoses@nbleenergy.com

RJ.MOSES@NBLEENERGY.COM

**Noble Energy, Inc; Oxford 1 Production Facility
Engine Detail Sheet**

Replacement Engine

Emission Unit Number	3S-ENG1	Source Location	Zone:
Equipment ID			
Source Description	225 hp CAT 342NA		
Engine Usage	LP Separator VRU	Potential operation	8760 hr/yr
Engine Make	Caterpillar		
Engine Model	G3508B LE		
Serial Number			
Manufacture Date		Potential fuel usage	11.98 MMscf/yr
NSPS Applicability			
Engine Configuration	4 cycle, lean burn		
Emission Controls	NSCR with interlock		
ISO Rating	225 BHP	Stack ID	3S-ENG1
Site Rating	BHP		
Fuel Heating Value	1220 Btu/scf		
Heat Rate	1.67 MMBtu/hr		
Engine Heat Rate	7418 Btu/hp-hr		

Potential Emissions

Pollutant	Emission Factor		Nominal Rating (hp)	Hrs of Operation (hrs/yr)	Estimated Emissions		Source of Emission Factor
	(lb/MMBtu)	(g/hp-hr)			(lb/hr)	(tpy)	
NOx		1.49	225	8760	0.74	3.24	Mfr Factors NOx
CO		2.97	225	8760	1.47	6.45	Mfr Factors CO
VOC ²		1.04	225	8760	0.52	2.26	Mfr Factors VOC ²
CO ₂		477.00	225	8760	236.61	1036.36	Mfr Factors
SOx	5.88E-04		225	8760	0.00	0.00	AP-42 Ch. 3.2, table 3.2-3
PM	9.50E-03		225	8760	0.02	0.07	AP-42 Ch. 3.2, table 3.2-3
PM10	9.50E-03		225	8760	0.02	0.07	AP-42 Ch. 3.2, table 3.2-3
Formaldehyde	2.05E-02		225	8760	0.03	0.15	AP-42 Ch. 3.2, table 3.2-3
Benzene	1.58E-03		225	8760	0.00	0.01	AP-42 Ch. 3.2, table 3.2-3
Toluene	5.58E-04		225	8760	0.00	0.00	AP-42 Ch. 3.2, table 3.2-3
Ethylbenzene	2.48E-05		225	8760	0.00	0.00	AP-42 Ch. 3.2, table 3.2-3
Xylene	1.95E-04		225	8760	0.00	0.00	AP-42 Ch. 3.2, table 3.2-3
CH ₄	0.23		225	8760	0.38	1.68	API ¹
CO ₂ e						1078.39	

¹API Compendium of Greenhouse Gas Emissions Methodologies for the Oil and Natural Gas Industry, Table 4-9

²Includes total hydrocarbons

Notes

**Noble Energy, Inc; Oxford 1 Production Facility
Engine Detail Sheet**

Original Engine

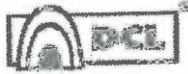
Emission Unit Number	3S-ENG1	Source Location	Zone:
Equipment ID			
Source Description	674 hp CAT G3508B		
Engine Usage	LP Separator VRU		
Engine Make	Caterpillar	Potential operation	8760 hr/yr
Engine Model	G3508B LE		
Serial Number			
Manufacture Date			
NSPS Applicability		Potential fuel usage	35.10603 MMscf/yr
Engine Configuration	4 cycle, lean burn		
Emission Controls	Oxidation Catalyst		
ISO Rating	674 BHP	Stack ID	3S-ENG1
Site Rating	BHP		
Fuel Heating Value	1220 Btu/scf		
Heat Rate	4.889196 MMBtu/hr		
Engine Heat Rate	7254 Btu/hp-hr		

Pollutant	Nominal		Hrs of		Source of	
	(lb/MMBtu)	(g/hp-hr)	Rating (hp)	Operation (hrs/yr)	(lb/hr)	(tpy) Emission Factor
NOx		1	674	8760.00	1.49	6.50831 Mfr Factors
CO		2	674	8760.00	2.97	13.01662 Mfr Factors
VOC ²		0.7	674	8760.00	1.04	4.555817 Mfr Factors
CO ₂		498	674	8760.00	739.99	3241.138 Mfr Factors
SOx	5.88000E-04		674	8760.00	0.00	0.012592 AP-42 Ch. 3.2, table 3.2-3
PM	9.50000E-03		674	8760.00	0.05	0.203439 AP-42 Ch. 3.2, table 3.2-3
PM10	9.50000E-03		674	8760.00	0.05	0.203439 AP-42 Ch. 3.2, table 3.2-3
Formaldehyde	2.05000E-02		674	8760.00	0.10	0.439001 AP-42 Ch. 3.2, table 3.2-3
Benzene	1.58000E-03		674	8760.00	0.01	0.033835 AP-42 Ch. 3.2, table 3.2-3
Toluene	5.58000E-04		674	8760.00	0.00	0.011949 AP-42 Ch. 3.2, table 3.2-3
Ethylbenzene	2.48000E-05		674	8760.00	0.00	0.000531 AP-42 Ch. 3.2, table 3.2-3
Xylene	1.95000E-04		674	8760.00	0.00	0.004176 AP-42 Ch. 3.2, table 3.2-3
CH ₄	2.30000E-01		674	8760.00	1.12	4.925376 API ¹
CO ₂ e						3364.273

Emissions Methodologies for the Oil and Natural Gas Industry, Table 4-9

²Includes total hydrocarbons

Notes



PROJECT OVERVIEW

ENGINE DATA

	Engine Model	Caterpillar 342NA
	Power	225 BHP
	Fuel	PONG
	Exhaust Flow Rate	1193 lb/hr
	Exhaust Temperature	1170 F

CATALYST DATA

	Catalyst Model	DC48-6
	Type	NSCR
	# of Elements	1
	Cell Density	300 cpsi
	Approx. Dimensions	See Attached
	Approx. Weight	See Attached
	Approx. Pressure Drop	2.7" w.c.
	Connection Size	6"

EMISSION REQUIREMENTS

Exhaust Component	Engine Output (g/bhp-hr)	Converter Output (g/bhp-hr)
NOx	12	1.49
CO	12	2.97
VOC	2	1.04

Emission Reduction

87.58%
75.25%
48%

The catalyst model selection is based upon the reduction requirements above. Any variance in these requirements may affect the price and model required.



Initial Engine
674 hp CAT G3508B
Potential Emissions

Pollutant	Estimated Emissions	
	(lb/hr)	(tpy)
NOx	1.49	5.51
CO	2.97	13.02
VOC	1.04	4.56
CO2	739.99	3241.14
SOx	0.00	0.01
PM	0.05	0.20
PM10	0.05	0.20
Formaldehyde	0.10	0.44
Benzene	0.01	0.03
Toluene	0.00	0.01
Ethylbenzene	0.00	0.00
Xylene	0.00	0.00
CH4	1.12	4.93
CO2e	0.00	3364.27

Replacement Engine
225 hp CAT 342NA
Potential Emissions

Pollutant	Estimated Emissions	
	(lb/hr)	(tpy)
NOx	0.74	3.24
CO	1.47	6.45
VOC2	0.52	2.26
CO2	236.61	1036.36
SOx	0.00	0.00
PM	0.02	0.07
PM10	0.02	0.07
Formaldehy	0.03	0.15
Benzene	0.00	0.01
Toluene	0.00	0.00
Ethylbenze	0.00	0.00
Xylene	0.00	0.00
CH4	0.38	1.68
CO2e	0.00	1078.39

Change in Emissions

Pollutant	(tpy)
NOx	-3.27
CO	-6.56
VOC	-2.30
CO2	-2204.78
SOx	-0.01
PM	-0.13
PM10	-0.13
Formaldehyde	-0.29
Benzene	-0.02
Toluene	-0.01
Ethylbenzene	0.00
Xylene	0.00
CH4	-3.24
CO2e	-2285.88



May 04, 2015

Dennis Matto
Exterran
4477 Gleason Road
Lakewood, NY 14750

Exterran
QHSE and Operations Services
16666 Northchase Drive
Houston, Texas 77060 U.S.A.

Main 281.836.7000
Fax 281.836.8161
www.exterran.com

Re: Engine Pedigree for Exterran Compressor Unit 75937, Engine Serial Number 71B03216

In order to better assist your company with any of its state and federal permitting needs, Exterran submits the following information in regards to the engine of the above-referenced compressor unit, which Exterran is currently utilizing to provide your company contract compression services. This letter should provide information necessary to answer questions pertaining to, but not limited to, the New Source Performance Standards (NSPS) for Stationary Spark Ignition Internal Combustion Engines, Subpart JJJJ. This information is current as of May 04, 2015.

Engine Make:	CATERPILLAR
Engine Model:	G342NA
Engine Serial Number:	71B03216
Engine Type:	4 Stroke RB
Engine Category:	Existing
Engine Subcategory:	Non Certified
Engine NSPS Status*:	Exempt
Exemption Justification*:	Overhauls since 6/12/06 have not triggered recon./modif.
Engine Speed:	1200.00
OEM Rated HP:	225.00
Engine Manufacture Date:	Pre June 12, 2006
Customer:	N/A
Business Unit:	N/A
Exterran Unit Number:	75937
Customer Lease Name:	N/A

Please contact Kyle Poycker with any questions at kyle.poycker@exterran.com.

* The "Engine NSPS Status" and "Exemption Justification" entries herein are based on Exterran's present knowledge of the engine in question and its reading of U.S. EPA's regulations and guidance pursuant to 40 C.F.R. Part 60, Subpart JJJJ. Any change in law or in the federal, state, or local interpretation of existing law could result in this engine being subject to additional or different legal requirements. These conclusions are Exterran's and are not offered as legal opinions or advice to your company. Additionally, any reconstruction or modification respecting this engine (as those terms are defined in the applicable regulations) could result in the applicability of Subpart JJJJ or other legal requirements to this engine and create legal compliance responsibilities for your company.



SCHEDULE 'A' TO MASTER COMPRESSION SERVICES AGREEMENT

Company: Noble Energy, Inc.
 Attention: Robert Olech

Date: 6/1/2015
 Quote #: 91174/227811
 Acct. Mgr.: Dennis Matto

In accordance with your request, we are pleased to offer the herein described Services (as defined below) on the Oxford #1 lease in Doddridge County, WV (describe to the extent possible, including at minimum county/parish and state) ("Site"). Services may commence at the Site approximately 6 weeks from date of execution of this Schedule, but Contractor's obligation is subject to credit approval and prior commitments.

In reliance on your specifications as to the operating conditions set forth below, we will compress the natural gas tendered to us at the Site up to the volume and the discharge pressure specified ("Services"). Our ability to deliver the Services depends on your satisfaction of the operating conditions and responsibilities set forth herein.

SUCTION PRESSURE	PSIG	50	
DISCHARGE PRESSURE	PSIG	1200	
VOLUMETRIC FLOW OUT*	MMSCFD	0.781	
INTAKE TEMPERATURE	°F	80	
	SPECIFIC GRAVITY	.71	
	ALTITUDE	FT	1350
	H ₂ S Process Gas (PPM)	**0**	
	H ₂ S Fuel Gas (PPM)	**0***	
	AMBIENT TEMP.	°F	100

- * This volume is guaranteed ±3% dependent on accuracy of operating conditions listed above.
- ** H₂S process gas content equal to or greater than 100 PPM triggers the applicability of Contractor's "High H₂S Process Gas Content Schedule."
- *** H₂S fuel gas content limits are addressed on Page 2 of this Schedule.

SERVICE FEE is per month, plus Taxes, for a minimum of months guaranteed ("Minimum Term"). The Service fee shall be payable monthly in advance at EXLP Operating LLC's ("Contractor") Houston office, commencing from the earlier of the date of mobilization of the Services to the Site or days after the date Contractor notifies Company that the Services are available for mobilization to the Site. Subsequent to the Minimum Term, the term of this Schedule shall continue on a year to year basis until terminated by either Party upon days advanced written notice. The Service fee reflected above will automatically increase by percent on each anniversary date of the billing start date, unless this Schedule is terminated pursuant to the provisions herein. Contractor's obligation to provide the Services shall cease upon the effective date of termination, but the Service fee shall continue to be assessed until the later of expiration of such days or the completion of demobilization if delayed or prevented in any way, in whole or in part, by Company. This quote is valid for a period of . Please check with Contractor prior to ordering after days has expired.

This Schedule incorporates by reference the Master Compression Services Agreement or equivalent master agreement described below and as qualified hereinafter (the "Master Agreement"), and shall be deemed an individual agreement between the Parties for the Services. If the Master Agreement is between parties other than successors in interest of the Parties to this Schedule, the Parties ratify the Master Agreement in its form existing as of the date first shown above, and as may be modified from time to time by Contractor and Company. If the Master Agreement covers the provision of services in addition to the Services and/or the provision of goods, only those portions of the Master Agreement applicable to the Services and those expressly applicable to all goods and services, including the Services, are incorporated herein. Unless defined herein, terms have the meanings set forth in the Master Agreement.

Site-specific optional equipment: at an additional included in rate /month.
 Description of Site-specific optional equipment: Converter will meet an emissions output of 1.49 NOX, 2.97 CO, and 1.04 VOC and include an EMIT AFRC with Interlock.

Master Agreement Date:	<u>1/1/2006</u>		
Master Agreement Name:	<u>Master Compression Services Agreement</u>		
Master Agreement Company Name:	<u>Noble Energy, Inc.</u>		
Master Agreement Contractor Name:	<u>Universal Compression, Inc.</u>		
Freight charges for mobilization to the Site from:	<u>Midland, TX</u>	Paid for by	<u>Noble Energy, Inc.</u>
Freight charges for demobilization from the Site to:	<u>Yukon, OK</u>	Paid for by	<u>Noble Energy, Inc.</u>