UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

OCD – HOBBS 09|29|2020 RECEIVED

FORM APPROVED OMB No. 1004-0137 Expires: January 31, 2018

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	Lease i	Seriai	INO.

APPLICATION FOR PERMIT TO	6. If Indian, Allote	6. If Indian, Allotee or Tribe Name		
1a. Type of work: DRILL 1b. Type of Well: Oil Well Gas Well 1c. Type of Completion: Hydraulic Fracturing	REENTER Other Single Zone	Multiple Zone	7. If Unit or CAA 8. Lease Name and	
2. Name of Operator [229137]			9. API Well No.	30-025-47822
3a. Address	3b. Phone N	No. (include area code)	10. Field and Pool	l, or Exploratory [17980]
Location of Well (Report location clearly and in accordance At surface At proposed prod. zone	ce with any State	requirements.*)	11. Sec., T. R. M.	or Blk. and Survey or Area
14. Distance in miles and direction from nearest town or post	office*		12. County or Pari	ish 13. State
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	16. No of ac		Spacing Unit dedicated to BLM/BIA Bond No. in fil	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approxi	mate date work will start*	23. Estimated dura	ation
	24. Attac	chments		
The following, completed in accordance with the requirements (as applicable) 1. Well plat certified by a registered surveyor. 2. A Drilling Plan. 3. A Surface Use Plan (if the location is on National Forest Sy SUPO must be filed with the appropriate Forest Service Off	stem Lands, the	4. Bond to cover the oper Item 20 above). 5. Operator certification.	rations unless covered by	g rule per 43 CFR 3162.3-3 an existing bond on file (see as may be requested by the
25. Signature	Name	(Printed/Typed)		Date
Title	<u> </u>			
Approved by (Signature)	Name	(Printed/Typed)		Date
Title	Office	?		
Application approval does not warrant or certify that the appli applicant to conduct operations thereon. Conditions of approval, if any, are attached.	cant holds legal	or equitable title to those r	ghts in the subject lease	which would entitle the
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212 of the United States any false, fictitious or fraudulent statemen				any department or agency
GCP Rec 09/29/2020				Ka

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APPROVED WITH CONDITIONS

Approval Date: 09/28/2020



*(Instructions on page 2)

INSTRUCTIONS

GENERAL: This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

ITEM I: If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

ITEM 4: Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

ITEM 14: Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the wen, and any other required information, should be furnished when required by Federal agency offices.

ITEMS 15 AND 18: If well is to be, or has been directionany drilled, give distances for subsurface location of hole in any present or objective productive zone.

ITEM 22: Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

ITEM 24: If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

PRINCIPAL PURPOSES: The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service wen or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

ROUTINE USE: Information from the record and/or the record win be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

EFFECT OF NOT PROVIDING INFORMATION: Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM conects this information to anow evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Conection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

(Form 3160-3, page 2)

Approval Date: 09/28/2020

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PECOS DISTRICT SURFACE USE CONDITIONS OF APPROVAL

OPERATOR'S NAME: COG Operating LLC

LEASE NO.: Lease Number NMNM132951 LOCATION: Section 20, T. 25 S., R. 35 E.

COUNTY: | Lea

Legal Description:

Well Pad 1

Green Beret Federal Com 702H

Surface Hole Location: 465' FNL & 2125' FEL, Section 20, T. 25 S., R. 35 E. Bottom Hole Location: 2590' FNL & 2310' FEL, Section 29, T. 25 S, R 35 E.

Green Beret Federal Com 501H

Surface Hole Location: 465' FNL & 2095' FEL, Section 20, T. 25 S., R. 35 E. Bottom Hole Location: 2590' FNL & 1980' FEL, Section 29, T. 25 S, R 35 E.

Green Beret Federal Com 801H

Surface Hole Location: 465' FNL & 2065' FEL, Section 20, T. 25 S., R. 35 E. Bottom Hole Location: 2590' FNL & 1760' FEL, Section 29, T. 25 S, R 35 E.

Green Beret Federal Com 602H

Surface Hole Location: 465' FNL & 2035' FEL, Section 20, T. 25 S., R. 35 E. Bottom Hole Location: 2590' FNL & 1640' FEL, Section 29, T. 25 S, R 35 E.

Well Pad 2

Green Beret Federal Com 701H

Surface Hole Location: 370' FNL & 790' FEL, Section 20, T. 25 S., R. 35 E. Bottom Hole Location: 2590' FNL & 1210' FEL, Section 29, T. 25 S, R 35 E.

Green Beret Federal Com 601H

Surface Hole Location: 370' FNL & 760' FEL, Section 20, T. 25 S., R. 35 E. Bottom Hole Location: 2590' FNL & 660' FEL, Section 29, T. 25 S, R 35 E.

Tank Battery Facilities: 842' FNL & 2124' FEL, Sec. 20-T25S-R35E

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

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Noxious Weeds
∑ Special Requirements
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∑ Production (Post Drilling)
Well Structures & Facilities
Pipelines
Electric Lines
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Final Abandonment & Declaration

I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

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V. SPECIAL REQUIREMENT(S)

<u>Timing Limitation Stipulation / Condition of Approval for lesser prairie-chicken:</u>

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 feet from the source of the noise.

<u>Ground-level Abandoned Well Marker to avoid raptor perching</u>: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

This authorization is subject to your Certificate of Participation and/or Certificate of Inclusion under the New Mexico Candidate Conservation Agreement. Because it involves surface disturbing activities covered under your Certificate, your Habitat Conservation Fund Account with the Center of Excellence for Hazardous Materials Management (CEHMM) will be debited according to Exhibit B Part 2 of the Certificate of Participation.

Hydrology:

The entire well pad(s) will be bermed to prevent oil, salt, and other chemical contaminants from leaving the well pad. The compacted berm shall be constructed at a minimum of 12 inches with impermeable mineral material (e.g. caliche). Topsoil shall not be used to construct the berm. No water flow from the uphill side(s) of the pad shall be allowed to enter the well pad. The integrity of the berm shall be maintained around the surfaced pad throughout the life of the well and around the downsized pad after interim reclamation has been completed. Any water erosion that may occur due to the construction of the well pad during the life of the well will be quickly corrected and proper measures will be taken to prevent future erosion. Stockpiling of topsoil is required. The top soil shall be stockpiled in an appropriate location to prevent loss of soil due to water or wind erosion and not used for berming or erosion control. If fluid collects within the bermed area, the fluid must be vacuumed into a safe container and disposed of properly at a state approved facility. The berm would be maintained through the life of the wells and after interim reclamation has been completed.

Tank battery locations will be lined and bermed. A 20 mil permanent liner will be installed with a 4 oz. felt backing to prevent tears or punctures. Tank battery berms must be large enough to contain 1 ½ times the content of the largest tank or 24 hour production, whichever is greater. Automatic shut off, check valves, or similar systems will be installed for tanks to minimize the effects of catastrophic line failures used in production or drilling.

When crossing ephemeral drainages the pipeline(s) will be buried to a minimum depth of 48 inches from the top of pipe to ground level. Erosion control methods such as gabions and/or rock aprons should be placed on both up and downstream sides of the pipeline crossing. In addition, curled (weed free) wood/straw fiber wattles/logs and/or silt fences should be placed on the downstream side for sediment control during construction and maintained until soils and vegetation have stabilized. Water bars should be placed within the ROW to divert and dissipate surface runoff. A pipeline access road is not permitted to cross these ephemeral drainages. Traffic should be diverted to a preexisting route. Additional seeding may be required in floodplains and drainages to restore energy dissipating vegetation.

Prior to pipeline installation/construction a leak detection plan will be developed. The method(s) could incorporate gauges to detect pressure drops, situating valves and lines so they can be visually inspected periodically or installing electronic sensors to alarm when a leak is present. The leak detection plan will incorporate an automatic shut off system that will be installed for proposed pipelines to minimize the effects of an undesirable event.

Any water erosion that may occur due to the construction of overhead electric line and during the life of the power line will be quickly corrected and proper measures will be taken to prevent future erosion. A power pole should not be placed in drainages, playas, wetlands, riparian areas, or floodplains and must span across the features at a distance away that would not promote further erosion.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall strip the top portion of the soil (root zone) from the entire well pad area and stockpile the topsoil along the edge of the well pad as depicted in the APD. The root zone is typically six (6) inches in depth. All the stockpiled topsoil will be redistributed over the interim reclamation areas. Topsoil shall not be used for berming the pad or facilities. For final reclamation, the topsoil shall be spread over the entire pad area for seeding preparation.

Other subsoil (below six inches) stockpiles must be completely segregated from the topsoil stockpile. Large rocks or subsoil clods (not evident in the surrounding terrain) must be buried within the approved area for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation. The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. EXCLOSURE FENCING (CELLARS & PITS)

Exclosure Fencing

The operator will install and maintain exclosure fencing for all open well cellars to prevent access to public, livestock, and large forms of wildlife before and after drilling operations until the pit is free of fluids and the operator initiates backfilling. (For examples of exclosure fencing design, refer to BLM's Oil and Gas Gold Book, Exclosure Fence Illustrations, Figure 1, Page 18.)

G. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

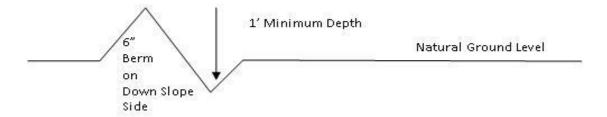
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%}$$
 + 100' = 200' lead-off ditch interval

Cattle guards

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

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Approval Date: 09/28/2020

Construction Steps

- Salvage topsoil
 Construct road
- 3. Redistribute topsoil4. Revegetate slopes
- center line of roadway shoulder turnout 10' transition 100 full turnout width Intervisible turnouts shall be constructed on all single lane roads on all blind curves with additional tunouts as needed to keep spacing below 1000 feet. **Typical Turnout Plan** crown natural ground **Level Ground Section** crown type .03 - .05 ft/ft earth surface aggregate surface .02 - .04 ft/ft paved surface .02 - .03 ft/ft Depth measured from the bottom of the ditch

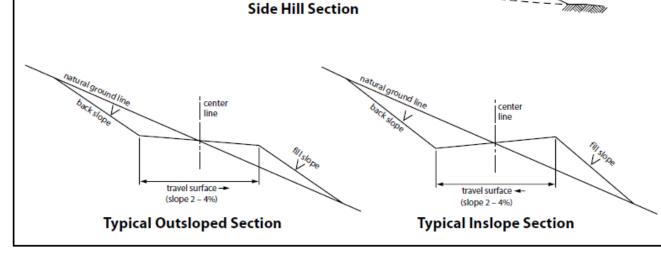


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.

VII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Exclosure Netting (Open-top Tanks)

Immediately following active drilling or completion operations, the operator will take actions necessary to prevent wildlife and livestock access, including avian wildlife, to all open-topped tanks that contain or have the potential to contain salinity sufficient to cause harm to wildlife or livestock, hydrocarbons, or Resource Conservation and Recovery Act of 1976-exempt hazardous substances. At a minimum, the operator will net, screen, or cover open-topped tanks to exclude wildlife and livestock and prevent mortality. If the operator uses netting, the operator will cover and secure the open portion of the tank to prevent wildlife entry. The operator will net, screen, or cover the tanks until the operator removes the tanks from the location or the tanks no longer contain substances that could be harmful to wildlife or livestock. Use a maximum netting mesh size of 1½ inches. The netting must not be in contact with fluids and must not have holes or gaps.

Chemical and Fuel Secondary Containment and Exclosure Screening

The operator will prevent all hazardous, poisonous, flammable, and toxic substances from coming into contact with soil and water. At a minimum, the operator will install and maintain an impervious secondary containment system for any tank or barrel containing hazardous, poisonous, flammable, or toxic substances sufficient to contain the contents of the tank or barrel and any drips, leaks, and anticipated precipitation. The operator will dispose of fluids within the containment system that do not meet applicable state or U. S. Environmental Protection Agency livestock water standards in accordance with state law; the operator must not drain the fluids to the soil or ground. The operator will design, construct, and maintain all secondary containment systems to prevent wildlife and livestock exposure to harmful substances. At a minimum, the operator will install effective wildlife and livestock exclosure systems such as fencing, netting, expanded metal mesh, lids, and grate covers. Use a maximum netting mesh size of 1 ½ inches.

Open-Vent Exhaust Stack Exclosures

The operator will construct, modify, equip, and maintain all open-vent exhaust stacks on production equipment to prevent birds and bats from entering, and to discourage perching, roosting, and nesting. (*Recommended exclosure structures on open-vent exhaust stacks are in the shape of a cone.*) Production equipment includes, but may not be limited to, tanks, heater-treaters, separators, dehydrators, flare stacks, in-line units, and compressor mufflers.

Containment Structures

Proposed production facilities such as storage tanks and other vessels will have a secondary containment structure that is constructed to hold the capacity of 1.5 times the largest tank, plus freeboard to account for precipitation, unless more stringent protective requirements are deemed necessary.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color, **Shale Green** from the BLM Standard Environmental Color Chart (CC-001: June 2008).

B. PIPELINES

BURIED PIPELINE STIPULATIONS

A copy of the application (Grant, APD, or Sundry Notice) and attachments, including conditions of approval, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The Holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The Holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.
- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C.6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. If, during any phase of the construction, operation, maintenance, or termination of the pipeline, any oil or other pollutant should be discharged from the pipeline system, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil or other pollutant, wherever found, shall be the responsibility of holder, regardless of fault. Upon failure of holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages resulting therefrom, on the Federal lands, the Authorized Officer may take such measures as he deems necessary to control and clean up the discharge and restore the area, including where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve holder of any responsibility as provided herein.
- 5. All construction and maintenance activity will be confined to the authorized right-of-way.
- 6. The pipeline will be buried with a minimum cover of <u>36</u> inches between the top of the pipe and ground level.
- 7. The maximum allowable disturbance for construction in this right-of-way will be 30 feet:

- Blading of vegetation within the right-of-way will be allowed: maximum width of blading operations will not exceed <u>20</u> feet. The trench is included in this area. (*Blading is defined as the complete removal of brush and ground vegetation.*)
- Clearing of brush species within the right-of-way will be allowed: maximum width of clearing operations will not exceed 30 feet. The trench and bladed area are included in this area. (Clearing is defined as the removal of brush while leaving ground vegetation (grasses, weeds, etc.) intact. Clearing is best accomplished by holding the blade 4 to 6 inches above the ground surface.)
- The remaining area of the right-of-way (if any) shall only be disturbed by compressing the vegetation. (Compressing can be caused by vehicle tires, placement of equipment, etc.)
- 8. The holder shall stockpile an adequate amount of topsoil where blading is allowed. The topsoil to be stripped is approximately ___6__ inches in depth. The topsoil will be segregated from other spoil piles from trench construction. The topsoil will be evenly distributed over the bladed area for the preparation of seeding.
- 9. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 10. Vegetation, soil, and rocks left as a result of construction or maintenance activity will be randomly scattered on this right-of-way and will not be left in rows, piles, or berms, unless otherwise approved by the Authorized Officer. The entire right-of-way shall be recontoured to match the surrounding landscape. The backfilled soil shall be compacted and a 6 inch berm will be left over the ditch line to allow for settling back to grade.
- 11. In those areas where erosion control structures are required to stabilize soil conditions, the holder will install such structures as are suitable for the specific soil conditions being encountered and which are in accordance with sound resource management practices.
- 12. The holder will reseed all disturbed areas. Seeding will be done according to the attached seeding requirements, using the following seed mix.

() seed mixture 1	() seed mixture 3
(X) seed mixture 2	() seed mixture 4
() seed mixture 2/LPC	() Aplomado Falcon Mixture

13. All above-ground structures not subject to safety requirements shall be painted by the holder to blend with the natural color of the landscape. The paint used shall be color which simulates "Standard Environmental Colors" – **Shale Green**, Munsell Soil Color No. 5Y 4/2.

- 14. The pipeline will be identified by signs at the point of origin and completion of the right-of-way and at all road crossings. At a minimum, signs will state the holder's name, BLM serial number, and the product being transported. All signs and information thereon will be posted in a permanent, conspicuous manner, and will be maintained in a legible condition for the life of the pipeline.
- 15. The holder shall not use the pipeline route as a road for purposes other than routine maintenance as determined necessary by the Authorized Officer in consultation with the holder before maintenance begins. The holder will take whatever steps are necessary to ensure that the pipeline route is not used as a roadway. As determined necessary during the life of the pipeline, the Authorized Officer may ask the holder to construct temporary deterrence structures.
- 16. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 17 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

- 17. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."
- 18. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

- 19. The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes associated roads, pipeline corridor and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.
- 20. <u>Escape Ramps</u> The operator will construct and maintain pipeline/utility trenches [that are not otherwise fenced, screened, or netted] to prevent livestock, wildlife, and humans from becoming entrapped. At a minimum, the operator will construct and maintain escape ramps, ladders, or other methods of avian and terrestrial wildlife escape in the trenches according to the following criteria:
 - a. Any trench left open for eight (8) hours or less is not required to have escape ramps; however, before the trench is backfilled, the contractor/operator shall inspect the trench for wildlife, remove all trapped wildlife, and release them at least 100 yards from the trench.
 - b. For trenches left open for eight (8) hours or more, earthen escape ramps (built at no more than a 30 degree slope and spaced no more than 500 feet apart) shall be placed in the trench.
- 21. Special Stipulations:

Lesser Prairie-Chicken

Oil and gas activities will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

C. ELECTRIC LINES

STANDARD STIPULATIONS FOR OVERHEAD ELECTRIC DISTRIBUTION LINES

A copy of the grant and attachments, including stipulations, survey plat and/or map, will be on location during construction. BLM personnel may request to you a copy of your permit during construction to ensure compliance with all stipulations.

Holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer:

- 1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.
- 2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976 as amended, 15 USC 2601 et seq. (1982) with regards to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized under this right-of-way grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation, and

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Liability Act, section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the authorized officer concurrent with the filing of the reports to the involved Federal agency or State government.

- 3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et seq.) on the Right-of-Way (unless the release or threatened release is wholly unrelated to the Right-of-Way holder's activity on the Right-of-Way), or resulting from the activity of the Right-of-Way holder on the Right-of-Way. This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.
- 4. There will be no clearing or blading of the right-of-way unless otherwise agreed to in writing by the Authorized Officer.
- 5. Power lines shall be constructed and designed in accordance to standards outlined in "Suggested Practices for Avian Protection on Power lines: The State of the Art in 2006" Edison Electric Institute, APLIC, and the California Energy Commission 2006. The holder shall assume the burden and expense of proving that pole designs not shown in the above publication deter raptor perching, roosting, and nesting. Such proof shall be provided by a raptor expert approved by the Authorized Officer. The BLM reserves the right to require modification or additions to all powerline structures placed on this right-of-way, should they be necessary to ensure the safety of large perching birds. Such modifications and/or additions shall be made by the holder without liability or expense to the United States.

Raptor deterrence will consist of but not limited to the following: triangle perch discouragers shall be placed on each side of the cross arms and a nonconductive perching deterrence shall be placed on all vertical poles that extend past the cross arms.

- 6. The holder shall minimize disturbance to existing fences and other improvements on public lands. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times. The holder will contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting the fence. No permanent gates will be allowed unless approved by the Authorized Officer.
- 7. The BLM serial number assigned to this authorization shall be posted in a permanent, conspicuous manner where the power line crosses roads and at all serviced facilities. Numbers will be at least two inches high and will be affixed to the pole nearest the road crossing and at the facilities served.
- 8. Upon cancellation, relinquishment, or expiration of this grant, the holder shall comply with those abandonment procedures as prescribed by the Authorized Officer.
- 9. All surface structures (poles, lines, transformers, etc.) shall be removed within 180 days of abandonment, relinquishment, or termination of use of the serviced facility or facilities or within 180 days of abandonment, relinquishment, cancellation, or expiration of this grant, whichever comes first. This will not apply where the power line extends service to an active, adjoining facility or facilities.
- 10. Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See Stipulation 11 for more information.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

11. The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation.

In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

12. Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

13. Special Stipulations:

For reclamation remove poles, lines, transformer, etc. and dispose of properly. Fill in any holes from the poles removed.

<u>Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken:</u>

Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

VIII. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed.

If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

IX. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared, these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well.

Seed Mixture 2, for Sandy Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	l <u>b/acre</u>
Sand dropseed (Sporobolus cryptandrus)	1.0
Sand love grass (Eragrostis trichodes)	1.0
Plains bristlegrass (Setaria macrostachya)	2.0

^{*}Pounds of pure live seed:

Pounds of seed \mathbf{x} percent purity \mathbf{x} percent germination = pounds pure live seed

PECOS DISTRICT DRILLING OPERATIONS CONDITIONS OF APPROVAL

OPERATOR'S NAME: COG Operating LLC
LEASE NO.: NMNM132951
WELL NAME & NO.: Green Beret Federal Com 702H
SURFACE HOLE FOOTAGE: 465' FNL & 2125' FEL
BOTTOM HOLE FOOTAGE 2590' FNL & 2310' FEL
LOCATION: Section 20, T 25S, R 35E, NMPM
COUNTY: Lea County, New Mexico

H2S	• Yes	O No	
Potash	None	Secretary	© R-111-P
Cave/Karst Potential	• Low	O Medium	O High
Variance	O None	• Flex Hose	Other
Wellhead	Conventional	O Multibowl	O Both
Other	☐ 4 String Area	☐ Capitan Reef	□WIPP
Other	▼ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☑ COM	☐ Unit

A. HYDROGEN SULFIDE

1. Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The **13-3/8**" surface casing shall be set at approximately **1170**' (or a minimum of 25' into the Rustler Anhydrite and above the salt) and cemented to surface.
 - a. **If cement does not circulate to surface,** the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of **6 hours** after pumping cement, ideally between 8-10 hours after.
 - b. WOC time for a primary cement job will be a minimum of <u>8 hours</u> or <u>500 psi</u> compressive strength, whichever is greater. This is to include the lead cement.
 - c. If cement falls back, remedial cementing will be done prior to drilling out the shoe.
 - d. WOC time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 psi compressive strength, whichever is greater.

- 2. The **7-5/8''** intermediate casing shall be cemented to surface.
 - a. **If cement does not circulate to surface,** see B.1.a, c & d.
- 3. The 5-1/2" x 5" production casing shall be cemented with at least 200' tie-back into the previous casing. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
- 2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be 10,000 (10M) psi. Variance approved to use a 5M annular. This annular must be tested to 70% of its rated pressure (5000 psi).
- 3. Required safety valves, with appropriate wrenches and subs for the drill string being utilized, will be in the open position and accessible on the rig floor.

D. SPECIAL REQUIREMENTS

- 1. Submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
 - a. The well sign on location shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

DR 09/28/2020

GENERAL REQUIREMENTS

- 1. The BLM is to be notified in advance for a representative to witness:
 - a. Spudding the well (minimum of 24 hours)
 - b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
 - c. BOP/BOPE tests (minimum of 4 hours)
 - Eddy County: Call the Carlsbad Field Office, (575) 361-2822
 - Lea County: Call the Hobbs Field Station, (575) 393-3612
- Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig:
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be available upon request. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the

- following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well-specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On the portion of well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. If the operator has proposed a multi-bowl wellhead assembly in the APD, it must meet or exceed the pressure rating of the BOP system. Additionally, the following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in Onshore Order 2 III.A.2.i must be followed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the BOP/BOPE tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test which can be initiated immediately after bumping the plug (only applies to single-stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug. The results of the test shall be made available upon request.
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
 - e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes. This test shall be performed prior

- to the test at full stack pressure.
- f. BOP/BOPE must be tested within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

1. Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

- 1. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.
- 2. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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1. Geologic Formations

TVD of target	12,623' EOL	Pilot hole depth	NA
MD at TD:	20,249'	Deepest expected fresh water:	207'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	957	Water	
Top of Salt	1346	Salt	
Base of Salt	5058	Salt	
Lamar	5387	Salt Water	
Bell Canyon	5415	Salt Water	
Cherry Canyon	6350	Oil/Gas	
Brushy Canyon	7919	Oil/Gas	
Bone Spring Lime	9156	Oil/Gas	
1st Bone Spring Sand	10386	Oil/Gas	
2nd Bone Spring Sand	10906	Oil/Gas	
3rd Bone Spring Sand	11991	Oil/Gas	
Wolfcamp 12411		Target Oil/Gas	
Wolfcamp B	12756	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight	Grade	Conn.	SF	SF Burst	SF	SF
Tiole Size	From	То	Cag. Size	(lbs)	Grade	00	Collapse	or Burst	Body	Joint
14.75"	0	1170	10.75"	45.5	N80	втс	4.61	1.67	19.54	20.61
9.875"	0	8500	7.625"	29.7	HCL80	BTC	1.56	1.05	2.88	2.90
8.750"	8500	11845	7.625"	29.7	HCP110	TL-FJ	1.27	1.09	2.67	1.87
6.75"	0	11645	5.5"	23	P110	BTC	1.77	1.82	3.21	3.19
6.75"	11645	20,249	5"	18	P110	BTC	1.77	1.82	3.21	3.19
				BLM M	inimum Sa	fety Factor	1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing.to mitigate collapse. Surface burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface and All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

The 5" casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Υ
Does casing meet API specifications? If no, attach casing specification sheet.	Υ
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Υ
Does the above casing design meet or exceed BLM's minimum standards? If not provide	Υ
justification (loading assumptions, casing design criteria).	'
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching	l y
the collapse pressure rating of the casing?	· .
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back	
500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

3. Cementing Program

Casing	# Sks	Wt. lb/	Yld ft3/	H₂0 gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	558	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl2
Suii.	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl2
Inter.	850	10.3	3.3	22	24	Halliburton tunded light
Stage 1	250	14.8	1.35	6.6	8	Tail: Class H
Prod	540	12.7	2	10.7	72	Lead: 50:50:10 H Blend
FIOU	1090	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	8,000'	35% OH in Lateral (KOP to EOL)

4. Pressure Control Equipment

A variance is requested for the use of a diverter on the surface casing. See attached for schematic.

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Ту	pe	x	Tested to:
			Ann	ular	Х	2500psi
	13-5/8"	5M	Blind	Ram	Х	5000psi
9-7/8"			Pipe	Ram	Х	
			Double Ram		Х	Suuupsi
			Other*			
		10M	5M Annular		Х	5000psi
			Blind Ram		Х	10000psi
6-3/4"	13-5/8"		Pipe Ram		Х	
			Double Ram		Х	TOOOOPSI
			Other*			

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per Onshore Order 2 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

	Formation integrity test will be performed per Onshore Order #2.
Y	On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.i.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
	N Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per Onshore Order #2 after installation on the surface casing which will cover testing requirements for a maximum of 30 days. If any seal subject to test pressure is broken the system must be tested.

5. Mud Program

	Depth	Туре	Weight	Viscosity	Water Loss	
From	From To		(ppg)	Viscosity	water Loss	
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C	
Surf csg	9-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 9	28-34	N/C	
7-5/8" Int shoe	Lateral TD	ОВМ	9.6 - 12.5	35-45	<20	

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring

6. Logging and Testing Procedures

Logging, Coring and Testing.	
Y	Will run GR/CNL from TD to surface (horizontal well – vertical portion of hole). Stated logs run will be in the Completion Report and submitted to the BLM.
Υ	No Logs are planned based on well control or offset log information.
N	Drill stem test? If yes, explain.
N	Coring? If yes, explain.

Additional logs planned		Interval
N	Resistivity	Pilot Hole TD to ICP
N	Density	Pilot Hole TD to ICP
Υ	CBL	Production casing (If cement not circulated to surface)
Υ	Mud log	Intermediate shoe to TD
N	PEX	

7. Drilling Conditions

Condition	Specify what type and where?					
BH Pressure at deepest TVD	8205 psi at 12623' TVD					
Abnormal Temperature	NO 180 Deg. F.					

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H2S) monitors will be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N	H2S is present
Y	H2S Plan attached

8. Other Facets of Operation

Х	H2S Plan.
х	BOP & Choke Schematics.
х	Directional Plan

NORTHERN DELAWARE BASIN

LEA COUNTY, NM
GREEN BERET FED COM PROJECT
GREEN BERET FED COM #702H

OWB PWP1

Anticollision Report

17 February, 2020

Concho Resources LLC

Anticollision Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft Reference Wellbore OWB Reference Design: PWP1

Survey Calculation Method: Output errors are at Database:

TVD Reference:

MD Reference:

North Reference:

Offset TVD Reference:

Local Co-ordinate Reference:

Well GREEN BERET FED COM #702H

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

ISCWSA

Minimum Curvature

2.00 sigma edm

Offset Datum

Reference PWP1

NO GLOBAL FILTER: Using user defined selection & filtering criteria Filter type:

Interpolation Method: Stations **Error Model:**

Depth Range: Unlimited Scan Method: Closest Approach 3D

Results Limited by: Maximum ellipse separation of 1,000.0 usft **Error Surface:** Pedal Curve Warning Levels Evaluated at: 2.00 Sigma **Casing Method:** Not applied

Survey Tool Program Date 2/7/2020

> From То

(usft) Survey (Wellbore) **Tool Name** Description (usft)

0.0 12,135.0 PWP1 (OWB) Standard Keeper 104 Standard Wireline Keeper ver 1.0.4 12,135.0 20,249.6 PWP1 (OWB) MWD+IFR1+FDIR OWSG MWD + IFR1 + FDIR Correction

Summary						
Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Dista Between Centres (usft)	nce Between Ellipses (usft)	Separation Factor	Warning
GREEN BERET FED COM PROJECT						
DUO SONIC 29 FED 4H - OWB - OWB GREEN BERET FED COM #501H - OWB - PWP1 GREEN BERET FED COM #501H - OWB - PWP1 GREEN BERET FED COM #601H - OWB - PWP1 GREEN BERET FED COM #602H - OWB - PWP1 GREEN BERET FED COM #602H - OWB - PWP1 GREEN BERET FED COM #701H - OWB - PWP1 GREEN BERET FED COM #801H - OWB - PWP1 GREEN BERET FED COM #801H - OWB - PWP1	2,500.0 2,600.0 2,500.0 20,249.9 2,500.0 20,249.9	2,499.1 2,599.1 2,497.8 19,992.6 2,499.1 20,496.2	30.0 30.7 90.0 718.5 60.0 600.4	17.3 17.7 83.1 581.8 53.1 463.8	2.365 2.353 13.049 5.253	Out of range CC, ES SF Out of range CC, ES

Offset D	esign	GREE	N BERE	FED CO	M PROJ	ECT - GR	EEN BERET	FED COM	1#501H -	OWB - F	WP1		Offset Site Error:	3.0 usft
Survey Pro	gram: 0-N	/WD+IFR1+F	DIR										Offset Well Error:	3.0 usft
Refere		Offs		Semi Majo					Dist					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbo		Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	0.0	0.0	3.0	3.0	89.68	0.2	30.0	30.0					
100.0	100.0	99.1	99.1	3.0	3.0	89.68	0.2	30.0	30.0	24.0	6.00	4.998		
200.0	200.0	199.1	199.1	3.0	3.0	89.68	0.2	30.0	30.0	24.0	6.04	4.966		
300.0	300.0	299.1	299.1	3.0	3.1	89.68	0.2	30.0	30.0	23.9	6.12	4.901		
400.0	400.0	399.1	399.1	3.0	3.2	89.68	0.2	30.0	30.0	23.8	6.24	4.806		
500.0	500.0	499.1	499.1	3.1	3.4	89.68	0.2	30.0	30.0	23.6	6.40	4.689		
600.0	600.0	599.1	599.1	3.1	3.6	89.68	0.2	30.0	30.0	23.4	6.59	4.555		
700.0	700.0	699.1	699.1	3.1	3.8	89.68	0.2	30.0	30.0	23.2	6.80	4.411		
800.0	800.0	799.1	799.1	3.2	4.0	89.68	0.2	30.0	30.0	23.0	7.04	4.262		
900.0	900.0	899.1	899.1	3.2	4.2	89.68	0.2	30.0	30.0	22.7	7.30	4.111		
1,000.0	1,000.0	999.1	999.1	3.2	4.5	89.68	0.2	30.0	30.0	22.4	7.57	3.962		
1,100.0	1,100.0	1,099.1	1,099.1	3.3	4.8	89.68	0.2	30.0	30.0	22.1	7.86	3.817		
1,200.0	1,200.0	1,199.1	1,199.1	3.4	5.1	89.68	0.2	30.0	30.0	21.8	8.16	3.676		
1,300.0	1,300.0	1,299.1	1,299.1	3.4	5.4	89.68	0.2	30.0	30.0	21.5	8.47	3.541		
1,400.0	1,400.0	1,399.1	1,399.1	3.5	5.7	89.68	0.2	30.0	30.0	21.2	8.79	3.412		
1,500.0	1,500.0	1,499.1	1,499.1	3.5	6.0	89.68	0.2	30.0	30.0	20.9	9.12	3.289		
1,600.0	1,600.0	1,599.1	1,599.1	3.6	6.3	89.68	0.2	30.0	30.0	20.5	9.46	3.172		

Anticollision Report

Database:

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft Reference Wellbore OWB Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Well GREEN BERET FED COM #702H

Survey Calculation Method: Minimum Curvature Output errors are at

2.00 sigma edm

Offset D	esign	GREEN	N BERET	FED COM	/ PROJ	ECT - GR	EEN BERET	FED COM	1 #501H -	OWB - F	WP1		Offset Site Error:	3.0 usft
Survey Pro	ogram: 0-M	1WD+IFR1+F	OIR										Offset Well Error:	3.0 usft
	rence	Offse		Semi Major		I limb - ! -! -	Office t Mally	on Company		ance	Minimum	Comprette		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	(usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
1,700.0	1,700.0	1,699.1	1,699.1	3.7	6.6	89.68	0.2	30.0	30.0	20.2	9.80	3.062		
1,800.0	1,800.0	1,799.1	1,799.1	3.8	6.9	89.68	0.2	30.0	30.0		10.14	2.957		
1,900.0	1,900.0	1,899.1	1,899.1	3.9	7.2	89.68	0.2	30.0	30.0			2.858		
2,000.0	2,000.0	1,999.1	1,999.1	3.9	7.6	89.68	0.2	30.0	30.0	19.1	10.85	2.765		
2,100.0 2,200.0	2,100.0 2,200.0	2,099.1 2,199.1	2,099.1	4.0 4.1	7.9 8.2	89.68 89.68	0.2 0.2	30.0 30.0	30.0 30.0	18.8 18.4	11.21 11.57	2.676 2.592		
2,300.0	2,300.0	2,199.1	2,199.1	4.1	8.6	89.68	0.2	30.0	30.0	18.1	11.94	2.592		
2,400.0	2,400.0	2,399.1	2,299.1	4.2	8.9	89.68	0.2	30.0	30.0	17.7	12.31	2.437		
2,500.0	2,500.0	2,499.1	2,499.1	4.4	9.2	89.68	0.2	30.0	30.0		12.68	2.365 C	CC. ES	
2,600.0	2,600.0	2,599.1	2,599.1	4.5	9.6	116.22	0.2	30.0	30.7		13.06	2.353 8		
2,634.9	2,634.8	2,633.9	2,633.9	4.5	9.7	118.55	0.2	30.0	31.4		13.20	2.378		
2,700.0	2,699.9	2,699.0	2,699.0	4.6	9.9	123.23	0.2	30.0	33.0	19.5	13.48	2.446		
2,800.0	2,799.8	2,798.9	2,798.9	4.7	10.3	129.55	0.2	30.0	35.8	21.8	13.94	2.566		
2,900.0	2,899.7	2,898.8	2,898.8	4.8	10.6	134.89	0.2	30.0	38.9	24.5	14.42	2.701		
3,000.0	2,999.5	2,998.6	2,998.6	4.9	10.9	139.40	0.2	30.0	42.4	27.5	14.91	2.843		
3,100.0	3,099.4	3,098.5	3,098.5	5.0	11.3	143.21	0.2	30.0	46.1	30.7	15.40	2.990		
3,200.0	3,199.3	3,198.4	3,198.4	5.1	11.6	146.45	0.2	30.0	49.9	34.0	15.90	3.139		
3,300.0	3,299.2	3,298.3	3,298.3	5.2	12.0	149.21	0.2	30.0	53.9	37.5	16.40	3.287		
3,400.0	3,399.1	3,398.2	3,398.2	5.3	12.3	151.59	0.2	30.0	58.0		16.89	3.434		
3,500.0	3,499.0	3,498.1	3,498.1	5.4	12.7	153.65	0.2	30.0	62.2		17.38	3.577		
3,600.0	3,598.9	3,598.0	3,598.0	5.5	13.0	155.46	0.2	30.0	66.4	48.6	17.87	3.717		
3,700.0	3,698.8	3,697.9	3,697.9	5.6	13.4	157.04	0.2	30.0	70.7	52.4	18.36	3.853		
3,800.0	3,798.7	3,797.8	3,797.8	5.7	13.7	158.44	0.2	30.0	75.1	56.2		3.985		
3,900.0 4,000.0	3,898.5 3,998.4	3,897.6 3,997.5	3,897.6 3,997.5	5.8 5.9	14.1 14.4	159.69 160.80	0.2 0.2	30.0 30.0	79.5 83.9	60.2	19.33 19.81	4.113 4.236		
4,000.0	4,098.3	4,097.4	4,097.4	6.0	14.4	161.81	0.2	30.0	88.4	64.1 68.1	20.29	4.230		
4,200.0	4,198.2	4,197.3	4,197.3	6.1	15.1	162.71	0.2 0.2	30.0	92.9	72.1	20.77	4.470		
4,300.0 4,400.0	4,298.1 4,398.0	4,297.2 4,397.1	4,297.2 4,397.1	6.2 6.3	15.5 15.8	163.53 164.29	0.2	30.0 30.0	97.4 101.9	76.1 80.1	21.25 21.73	4.581 4.688		
4,500.0	4,497.9	4,497.0	4,497.0	6.5	16.2	164.29	0.2	30.0	101.9	84.2		4.791		
4,600.0	4,597.8	4,596.9	4,596.9	6.6	16.5	165.60	0.2	30.0	111.0	88.3	22.69	4.890		
4,700.0	4,697.7	4,696.8	4,696.8	6.7	16.9	166.18	0.2	30.0	115.5	92.4	23.17	4.986		
4,800.0	4,797.6	4,796.7	4,796.7	6.8	17.2	166.72	0.2	30.0	120.1	96.5	23.65	5.078		
4,900.0	4,897.4	4,896.5	4,896.5	6.9	17.6	167.21	0.2	30.0	124.7	100.6	24.13	5.168		
5,000.0	4,997.3	4,996.4	4,996.4	7.0	17.9	167.68	0.2	30.0	129.3	104.7	24.61	5.254		
5,100.0	5,097.2	5,096.3	5,096.3	7.1	18.3	168.11	0.2	30.0	133.9	108.8	25.09	5.337		
5,200.0	5,197.1	5,196.2	5,196.2	7.3	18.6	168.51	0.2	30.0	138.5	112.9	25.57	5.417		
5,300.0	5,297.0	5,296.1	5,296.1	7.4	19.0	168.88	0.2	30.0	143.1		26.05	5.494		
5,400.0	5,396.9	5,396.0	5,396.0	7.5	19.4	169.23	0.2	30.0	147.7			5.569		
5,500.0	5,496.8	5,495.9	5,495.9	7.6	19.7	169.56	0.2	30.0	152.4	125.3	27.01	5.642		
5,600.0		5,599.4	5,599.4	7.7	20.1	169.42	1.8	30.4	155.9	128.4	27.48	5.672		
5,700.0	5,696.6	5,703.1	5,703.0	7.8	20.4	168.27	7.2	31.7	157.0	129.1	27.91	5.624		
5,800.0	5,796.4	5,804.7	5,804.1	8.0	20.8	166.27	15.4	33.7	156.2		28.32	5.516		
5,900.0	5,896.3	5,904.5	5,903.6	8.1	21.1	164.19	23.9	35.8	155.4	126.6	28.71	5.410		
6,000.0	5,996.2	6,004.3	6,003.0	8.2	21.5	162.08	32.3	37.8	154.7		29.11	5.316		
6,100.0	6,096.1	6,104.2	6,102.5	8.3	21.9	159.96	40.8	39.9	154.3		29.49	5.233		
6,200.0	6,196.0	6,204.0	6,202.0	8.4	22.2	157.82	49.3	42.0	154.1	124.3	29.87	5.161		
6,242.2		6,246.1	6,243.9	8.5	22.4	156.92	52.8	42.8	154.1	124.1	30.02	5.133		
6,300.0	6,295.9	6,303.8	6,301.4	8.6	22.6	155.69	57.7	44.0	154.1	123.9	30.23	5.098		
6,400.0 6,500.0	6,395.8 6,495.7	6,403.7 6,503.5	6,400.9 6,500.3	8.7 8.8	22.9 23.3	153.56 151.44	66.2 74.7	46.1 48.2	154.4 154.8	123.8 123.9	30.60 30.95	5.045 5.002		
6,600.0		6,603.3	6,599.8	8.9	23.6	149.34	83.1	50.2	155.5		31.30	4.967		
5,000.0	0,000.0	5,505.5	0,000.0	0.5	20.0	1-70.07	00.1	50.2	100.0	127.2	31.30	4.007		

Anticollision Report

Database:

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft Reference Wellbore OWB Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Output errors are at

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Well GREEN BERET FED COM #702H

Survey Calculation Method: Minimum Curvature

> 2.00 sigma edm

Offset D	esign	GREEI	N BERET	FED COM	M PROJ	ECT - GR	EEN BERET	FED COM	1 #501H -	OWB - F	WP1		Offset Site Error:	3.0 usft
_	_	MD+IFR1+FI											Offset Well Error:	3.0 usft
Refer Measured	ence Vertical	Offs Measured	et Vertical	Semi Major Reference	r Axis Offset	Highside	Offset Wellbo	ra Cantra		ance Between	Minimum	Separation	10/2 mm im m	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	•	Warning	
6,700.0	6,695.4	6,703.2	6,699.2	9.0	24.0	147.25	91.6	52.3	156.3	124.7		4.940		
6,800.0	6,795.3	6,803.0	6,798.7	9.2	24.3	145.19	100.1	54.4	157.4	125.4		4.921		
6,900.0	6,895.2	6,902.8	6,898.1	9.3	24.7	143.16	108.5	56.4	158.7	126.4		4.910		
7,000.0	6,995.1	7,002.7	6,997.6	9.4	25.0	141.17	117.0	58.5	160.1	127.5		4.905		
7,100.0	7,095.0	7,102.5	7,097.0	9.5	25.4	139.21	125.5	60.6	161.8	128.8		4.906		
7,200.0	7,194.9	7,202.4	7,196.5	9.7	25.7	137.30	134.0	62.6	163.6	130.3		4.913		
7,300.0 7,400.0	7,294.8 7,394.7	7,302.2 7,402.0	7,295.9 7,395.4	9.8 9.9	26.1 26.5	135.43 133.60	142.4 150.9	64.7 66.8	165.7 167.9	132.0 133.9		4.926 4.943		
7,400.0	7,494.6	7,402.0	7,393.4	10.0	26.8	131.83	150.9	68.8	170.2	135.9		4.945		
7,600.0	7,594.4	7,601.9	7,594.3	10.0	27.2	130.11	167.8	70.9	170.2	138.1	34.61	4.991		
7,700.0	7,694.3	7,701.5	7,693.8	10.3	27.5	128.43	176.3	73.0	175.4	140.5		5.020		
7,800.0	7,794.2	7,801.4	7,793.2	10.4	27.9	126.81	184.8	75.0	178.2	143.0	35.27	5.053		
7,900.0	7,894.1	7,901.2	7,892.7	10.5	28.2	125.24	193.2	77.1	181.2	145.6	35.61	5.088		
8,000.0	7,994.0	8,001.0	7,992.1	10.6	28.6	123.72	201.7	79.2	184.3	148.3	35.94	5.127		
8,100.0	8,093.9	8,100.9	8,091.6	10.8	29.0	122.25	210.2	81.2	187.5	151.2		5.167		
8,200.0	8,193.8	8,200.7	8,191.0	10.9	29.3	120.83	218.6	83.3	190.8	154.2	36.63	5.210		
8,300.0	8,293.7	8,300.5	8,290.5	11.0	29.7	119.47	227.1	85.4	194.3	157.3	36.97	5.254		
8,400.0	8,393.6	8,400.4	8,389.9	11.1	30.0	118.15	235.6	87.4	197.8	160.5		5.300		
8,500.0	8,493.5	8,500.2	8,489.4	11.3	30.4	116.87	244.0	89.5	201.5	163.8		5.347		
8,600.0	8,593.3	8,600.0	8,588.8	11.4	30.7	115.64	252.5	91.5	205.2	167.2		5.395		
8,700.0	8,693.2	8,699.9	8,688.3	11.5	31.1	114.46	261.0	93.6	209.1	170.7		5.444		
8,800.0	8,793.1	8,799.7	8,787.7	11.6	31.5	113.32	269.5	95.7	213.0	174.2		5.494		
8,900.0	8,893.0	8,899.5	8,887.2	11.8	31.8	112.22	277.9	97.7	217.0	177.8		5.544		
9,000.0	8,992.9	8,999.4	8,986.7	11.9	32.2	111.17	286.4	99.8	221.1	181.6		5.595		
9,100.0	9,092.8	9,099.2	9,086.1	12.0	32.5	110.15	294.9	101.9	225.2	185.3		5.646		
9,200.0	9,192.7	9,199.0	9,185.6	12.1	32.9	109.16	303.3	103.9	229.5	189.2		5.698		
9,300.0	9,292.6	9,298.9	9,285.0	12.3	33.2	108.22	311.8	106.0	233.7	193.1	40.66	5.749		
9,400.0	9,392.5	9,398.7	9,384.5	12.4	33.6	107.31	320.3	108.1	238.1	197.0		5.801		
9,500.0	9,492.3	9,498.6	9,483.9	12.5	34.0	106.43	328.7	110.1	242.5	201.1	41.44	5.852		
9,600.0	9,592.2	9,598.4	9,583.4	12.6	34.3	105.58	337.2	112.2	247.0	205.1	41.83	5.904		
9,700.0	9,692.1	9,698.2	9,682.8	12.8	34.7	104.76	345.7	114.3	251.5	209.3		5.955		
9,800.0	9,792.0	9,798.1	9,782.3	12.9	35.0	103.97	354.1	116.3	256.0	213.4		6.006		
9,900.0	9,891.9	9,897.9	9,881.7	13.0	35.4	103.21	362.6	118.4	260.7	217.6		6.057		
10,000.0 10,100.0	9,991.8 10,091.7	9,997.7 10,097.6	9,981.2 10,080.6	13.1 13.3	35.8 36.1	102.48 101.77	371.1 379.5	120.5 122.5	265.3 270.0	221.9 226.2		6.108 6.158		
10,100.0	10,091.7	10,097.6	10,180.1	13.4	36.5	101.09	388.0	124.6	274.8	230.5		6.209		
10,300.0	10,291.5	10,297.2	10,279.5	13.5	36.8	100.42	396.5	126.7	279.5	234.9	44.67	6.258		
10,400.0	10,391.3	10,397.1	10,379.0	13.6	37.2	99.79	404.9	128.7	284.3	239.3	45.08	6.307		
10,500.0	10,491.2	10,503.2	10,484.9	13.8	37.6	99.53	411.9	130.9	288.8	243.3	45.49	6.347		
10,600.0		10,615.8	10,596.2	13.9	37.9	103.40	397.7	133.5	289.2	243.2		6.289		
10,663.7	10,654.7	10,680.8	10,658.0	14.0	38.1	107.91	377.8	135.0	288.7	242.3	46.43	6.219		
10,700.0		10,714.7	10,689.0	14.0	38.2	110.90	364.1	135.8	289.1	242.3		6.184		
10,800.0	10,790.9 10,890.8	10,795.7 10,859.8	10,758.6	14.1	38.4	119.61	322.7	137.7	296.0	248.1	47.91	6.179		
10,900.0		•	10,808.0	14.3	38.5	127.62	282.0	139.1	316.6 353.3	267.3		6.431		
11,000.0 11,100.0		10,910.1 10,950.0	10,842.8 10,867.4	14.4 14.5	38.6 38.6	134.21 139.38	245.7 214.4	140.2 141.0	353.3 404.8	303.2 354.4		7.046 8.021		
11,200.0	11,190.5	10,981.6	10,885.1	14.7	38.7	143.35	188.2	141.6	468.0	417.6	50.39	9.287		
11,300.0		11,007.3	10,898.1	14.8	38.7	146.47	166.1	142.1	539.7	489.6	50.16	10.761		
11,400.0		11,025.0	10,906.5	14.9	38.7	148.53	150.4	142.4	617.7	567.8		12.388		
11,500.0		11,050.0	10,917.2	15.0	38.7	151.33	127.9	142.9	700.1	650.4		14.074		
11,600.0	11,590.0	11,061.0	10,921.5	15.2	38.8	152.51	117.8	143.0	785.8	736.3		15.851		
11,700.0	11,689.9	11,075.0	10,926.7	15.3	38.8	153.97	104.8	143.3	874.1	824.6	49.53	17.646		

Anticollision Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft
Reference Wellbore OWB
Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: Survey Calculation Method:

Output errors are at

Database:

Offset TVD Reference:

Well GREEN BERET FED COM #702H

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Grid

Minimum Curvature

2.00 sigma edm

Offset Datum

Offset D	esign	GREE	N BERET	FED CON	/ PROJI	ECT - GRE	EEN BERET	FED COM	I #501H -	OWB - P	WP1		Offset Site Error:	3.0 usft
Survey Pro	gram: 0-M	IWD+IFR1+F	DIR										Offset Well Error:	3.0 usft
Refer	ence	Offse	et	Semi Major	Axis				Dista	ance				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbo	re Centre	Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres		Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
11,800.0	11,789.8	11,084.7	10,930.0	15.4	38.8	154.96	95.7	143.4	964.2	914.7	49.54	19.465		

Anticollision Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft Reference Wellbore OWB Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Well GREEN BERET FED COM #702H

Survey Calculation Method: Minimum Curvature

Output errors are at 2.00 sigma Database: edm Offset TVD Reference: Offset Datum

Survey Program:	3.0 usft
Marsing Mars	3.0 usft
0.0 0.0 0.0 0.0 0.0 3.5 3.0 88.70 0.5 90.0 90.0 80.0 15.00 200.0 200.0 197.8 197.8 3.0 3.0 88.70 0.5 90.0 90.0 80.0 60.0 14.978 400.0 400.0 227.8 23.0 3.0 88.70 0.5 90.0 90.0 80.0 60.0 14.978 400.0 400.0 227.8 23.0 3.0 88.70 0.5 90.0 90.0 80.0 80.0 60.0 14.978 400.0 400.0 207.8 23.0 30.0 80.70 0.5 90.0 90.0 80.0 80.0 60.0 14.978 400.0 407.8 407.8 3.1 3.1 88.70 0.5 90.0 90.0 80.0 80.0 80.0 40.6 60.2 14.956 400.0 407.8 40.0	
1000 1000 978 978 398 30 30 8870 0.5 900 900 940 600 15,000	
Mathematical Property	
400.0 400.0 407.8 497.8 30 30 30 887.0 0.5 90.0 90.0 840 6.02 14.956 600.0 500.0 497.8 497.8 31 31 887.0 0.5 90.0 90.0 840 6.03 14.924 600.0 500.0 507.8 697.8 31 31 81 87.0 0.5 90.0 90.0 840 6.03 14.924 600.0 500.0 507.8 697.8 31 31 81 87.0 0.5 80.0 90.0 840 6.03 14.924 600.0 500.0 507.8 697.8 32 32 82 87.0 0.5 80.0 90.0 83.0 6.07 14.838 600.0 500.0 797.8 197.8 32 32 32 88.70 0.5 90.0 90.0 83.9 6.09 14.786 600.0 500.0 887.8 897.8 32 32 88.70 0.5 90.0 90.0 83.9 6.09 14.786 600.0 1,000.0 1,007.8 1,007.8 1,007.8 33 33 33 89.70 0.5 90.0 90.0 83.8 6.14 14.687 61.000.1 1,000.0 1,197.8 1,197.8 34 34 88.70 0.5 90.0 90.0 83.8 6.17 14.582 61.300.0 1,200.0 1,197.8 1,197.8 34 34 88.70 0.5 90.0 90.0 83.8 6.21 14.502 61.300.0 1,200.0 1,397.8 1,397.8 35 35 857.0 0.5 90.0 90.0 83.8 6.24 14.416 61.400.0 1,400.0 1,400.0 1,397.8 1,597.8 35 35 887.0 0.5 90.0 90.0 83.8 6.24 14.416 61.400.0 1,400.0 1,400.0 1,407.8 1,407.8 35 35 887.0 0.5 90.0 90.0 83.8 6.24 14.416 61.600.0 1,500.0 1,507.8 1,507.8 35 35 887.0 0.5 90.0 90.0 83.8 6.24 14.416 61.600.0 1,500.0 1,507.8 1,507.8 35 35 887.0 0.5 90.0 90.0 83.6 6.24 14.1019 61.600.0 1,500.0 1,507.8 1,507.8 35 35 887.0 0.5 90.0 90.0 83.6 6.24 14.1019 61.600.0 1,500.0 1,507.8 1,507.8 37 37 887.0 0.5 90.0 90.0 83.6 6.42 14.1019 61.600.0 1,500.0 1,507.8 1,507.8 3.9 39 887.0 0.5 90.0 90.0 83.6 6.42 14.1019 61.600.0 1,500.0 1,507.8 1,507.8 3.9 39 887.0 0.5 90.0 90.0 83.6 6.42 14.1019 61.600.0 1,500.0 1,507.8 1,507.8 3.9 39 887.0 0.5 90.0 90.0 83.6 6.42 14.1019 61.600.0 1,500.0 1,507.8 1,507.8 3.9 39 887.0 0.5 90.0 90.0 83.6 6.42 14.1019 61.600.0 1,500.0 1,507.8 1,507.8 3.9 39 887.0 0.5 90.0 90.0 83.6 6.42 14.1019 61.600.0 1,500.0 1,507.8 1,507.8 3.9 39 887.0 0.5 90.0 90.0 83.6 6.42 14.1019 61.600.0 1,500.0 1,507.8 1,507.8 3.9 39 887.0 0.5 90.0 90.0 83.6 6.42 14.1019 61.600.0 1,500.0 1,507.8 1,507.8 3.9 39 887.0 0.5 90.0 90.0 83.6 6.42 14.1019 61.600.0 1,500.0 1,507.8 1,507.8 3.9 39 887.0 0.5 90.0 90.0 83.6 6.42 14.1019 61.600.0 1,500.0 1,507.8 1,507.8 3.9 39 887.0 0.5 90.0 90.0 83.6 6.42 14.1019 61	
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3,800.0 3,798.7 3,792.1 3,790.0 5.7 5.6 113.03 54.3 138.2 161.5 153.4 8.10 19.933 3,900.0 3,898.5 3,891.9 3,889.6 5.8 5.7 112.99 58.8 142.1 167.3 159.1 8.22 20.367 4,000.0 3,998.4 3,991.7 3,989.3 5.9 5.8 112.96 63.2 146.1 173.2 164.9 8.34 20.782 4,100.0 4,098.3 4,091.6 4,088.9 6.0 5.9 112.93 67.7 150.1 179.1 170.6 8.46 21.178 4,200.0 4,198.2 4,191.4 4,188.5 6.1 6.0 112.90 72.2 154.1 185.0 176.4 8.58 21.558 4,300.0 4,298.1 4,291.2 4,288.2 6.2 6.1 112.87 76.6 158.1 190.8 182.1 8.71 21.920 4,400.0 4,398.0 4,391.0 4,387.8 6.3 6.2 112.85 81.1 162.1 196.7 187.9 8.83 22.267 4,500.0 4,497.9 4,490.9 4,487.5 6.5 6.3 112.82 85.5 166.0 202.6 193.6 8.96 22.598 4,600.0 4,597.8 4,590.7 4,587.1 6.6 6.4 112.80 90.0 170.0 208.5 199.4 9.10 22.914 4,700.0 4,697.7 4,690.5 4,686.8 6.7 6.5 112.78 94.5 174.0 214.3 205.1 9.23 23.216 4,800.0 4,797.6 4,790.3 4,786.4 6.8 6.6 112.76 98.9 178.0 220.2 210.8 9.37 23.504 4,900.0 4,897.4 4,890.2 4,886.1 6.9 6.7 112.74 103.4 182.0 226.1 216.6 9.51 23.780	
3,900.0 3,898.5 3,891.9 3,889.6 5.8 5.7 112.99 58.8 142.1 167.3 159.1 8.22 20.367 4,000.0 3,998.4 3,991.7 3,989.3 5.9 5.8 112.96 63.2 146.1 173.2 164.9 8.34 20.782 4,100.0 4,098.3 4,091.6 4,088.9 6.0 5.9 112.93 67.7 150.1 179.1 170.6 8.46 21.178 4,200.0 4,198.2 4,191.4 4,188.5 6.1 6.0 112.90 72.2 154.1 185.0 176.4 8.58 21.558 4,300.0 4,298.1 4,291.2 4,288.2 6.2 6.1 112.87 76.6 158.1 190.8 182.1 8.71 21.920 4,400.0 4,398.0 4,391.0 4,387.8 6.3 6.2 112.85 81.1 162.1 196.7 187.9 8.83 22.267 4,500.0 4,497.9 4,490.9 4,487.5 6.5 6.3 112.82 85.5 166.0 202.6 193.6 8.96	
4,000.0 3,998.4 3,991.7 3,989.3 5.9 5.8 112.96 63.2 146.1 173.2 164.9 8.34 20.782 4,100.0 4,098.3 4,091.6 4,088.9 6.0 5.9 112.93 67.7 150.1 179.1 170.6 8.46 21.178 4,200.0 4,198.2 4,191.4 4,188.5 6.1 6.0 112.90 72.2 154.1 185.0 176.4 8.58 21.558 4,300.0 4,298.1 4,291.2 4,288.2 6.2 6.1 112.87 76.6 158.1 190.8 182.1 8.71 21.920 4,400.0 4,398.0 4,391.0 4,387.8 6.3 6.2 112.85 81.1 162.1 196.7 187.9 8.83 22.267 4,500.0 4,497.9 4,490.9 4,487.5 6.5 6.3 112.82 85.5 166.0 202.6 193.6 8.96 22.598 4,600.0 4,597.8 4,590.7 4,587.1 6.6 6.4 112.80 90.0 170.0 208.5 199.4 9.10	
4,100.0 4,098.3 4,091.6 4,088.9 6.0 5.9 112.93 67.7 150.1 179.1 170.6 8.46 21.178 4,200.0 4,198.2 4,191.4 4,188.5 6.1 6.0 112.90 72.2 154.1 185.0 176.4 8.58 21.558 4,300.0 4,298.1 4,291.2 4,288.2 6.2 6.1 112.87 76.6 158.1 190.8 182.1 8.71 21.920 4,400.0 4,398.0 4,391.0 4,387.8 6.3 6.2 112.85 81.1 162.1 196.7 187.9 8.83 22.267 4,500.0 4,497.9 4,490.9 4,487.5 6.5 6.3 112.82 85.5 166.0 202.6 193.6 8.96 22.598 4,600.0 4,597.8 4,590.7 4,587.1 6.6 6.4 112.80 90.0 170.0 208.5 199.4 9.10 22.914 4,700.0 4,697.7 4,686.8 6.7 6.5 112.78 94.5 174.0 214.3 205.1 9.23 23.216<	
4,100.0 4,098.3 4,091.6 4,088.9 6.0 5.9 112.93 67.7 150.1 179.1 170.6 8.46 21.178 4,200.0 4,198.2 4,191.4 4,188.5 6.1 6.0 112.90 72.2 154.1 185.0 176.4 8.58 21.558 4,300.0 4,298.1 4,291.2 4,288.2 6.2 6.1 112.87 76.6 158.1 190.8 182.1 8.71 21.920 4,400.0 4,398.0 4,391.0 4,387.8 6.3 6.2 112.85 81.1 162.1 196.7 187.9 8.83 22.267 4,500.0 4,497.9 4,490.9 4,487.5 6.5 6.3 112.82 85.5 166.0 202.6 193.6 8.96 22.598 4,600.0 4,597.8 4,590.7 4,587.1 6.6 6.4 112.80 90.0 170.0 208.5 199.4 9.10 22.914 4,700.0 4,697.7 4,686.8 6.7 6.5 112.78 94.5 174.0 214.3 205.1 9.23 23.216<	
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4,400.0 4,398.0 4,391.0 4,387.8 6.3 6.2 112.85 81.1 162.1 196.7 187.9 8.83 22.267 4,500.0 4,497.9 4,490.9 4,487.5 6.5 6.3 112.82 85.5 166.0 202.6 193.6 8.96 22.598 4,600.0 4,597.8 4,590.7 4,587.1 6.6 6.4 112.80 90.0 170.0 208.5 199.4 9.10 22.914 4,700.0 4,690.7 4,690.5 4,686.8 6.7 6.5 112.78 94.5 174.0 214.3 205.1 9.23 23.216 4,800.0 4,797.6 4,790.3 4,786.4 6.8 6.6 112.76 98.9 178.0 220.2 210.8 9.37 23.504 4,900.0 4,897.4 4,890.2 4,886.1 6.9 6.7 112.74 103.4 182.0 226.1 216.6 9.51 23.780	
4,500.0 4,497.9 4,490.9 4,487.5 6.5 6.3 112.82 85.5 166.0 202.6 193.6 8.96 22.598 4,600.0 4,597.8 4,597.7 4,686.8 6.6 6.4 112.80 90.0 170.0 208.5 199.4 9.10 22.914 4,700.0 4,697.7 4,690.5 4,686.8 6.7 6.5 112.78 94.5 174.0 214.3 205.1 9.23 23.216 4,800.0 4,797.6 4,790.3 4,786.4 6.8 6.6 112.76 98.9 178.0 220.2 210.8 9.37 23.504 4,900.0 4,897.4 4,890.2 4,886.1 6.9 6.7 112.74 103.4 182.0 226.1 216.6 9.51 23.780	
4,600.0 4,597.8 4,590.7 4,587.1 6.6 6.4 112.80 90.0 170.0 208.5 199.4 9.10 22.914 4,700.0 4,697.7 4,690.5 4,686.8 6.7 6.5 112.78 94.5 174.0 214.3 205.1 9.23 23.216 4,800.0 4,797.6 4,790.3 4,786.4 6.8 6.6 112.76 98.9 178.0 220.2 210.8 9.37 23.504 4,900.0 4,897.4 4,890.2 4,886.1 6.9 6.7 112.74 103.4 182.0 226.1 216.6 9.51 23.780	
4,600.0 4,597.8 4,590.7 4,587.1 6.6 6.4 112.80 90.0 170.0 208.5 199.4 9.10 22.914 4,700.0 4,697.7 4,690.5 4,686.8 6.7 6.5 112.78 94.5 174.0 214.3 205.1 9.23 23.216 4,800.0 4,797.6 4,790.3 4,786.4 6.8 6.6 112.76 98.9 178.0 220.2 210.8 9.37 23.504 4,900.0 4,897.4 4,890.2 4,886.1 6.9 6.7 112.74 103.4 182.0 226.1 216.6 9.51 23.780	
4,800.0 4,797.6 4,790.3 4,786.4 6.8 6.6 112.76 98.9 178.0 220.2 210.8 9.37 23.504 4,900.0 4,897.4 4,890.2 4,886.1 6.9 6.7 112.74 103.4 182.0 226.1 216.6 9.51 23.780	
4,900.0 4,897.4 4,890.2 4,886.1 6.9 6.7 112.74 103.4 182.0 226.1 216.6 9.51 23.780	
5,000.0 4,997.3 4,990.0 4,985.7 7.0 6.8 112.72 107.8 186.0 231.9 222.3 9.65 24.043	

Anticollision Report

Database:

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft
Reference Wellbore OWB
Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Output errors are at

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Well GREEN BERET FED COM #702H

Grid

Survey Calculation Method: Minimum Curvature

2.00 sigma edm

Offset D	esian	GREFI	N BERF	FED COM	/ PRO.II	ECT - GRI	EEN BERET	FED COM	1 #602H -	OWB - F	WP1		Offset Site Error:	3.0 usft
				80-MWD+IFR					,	JD 1			Offset Well Error:	3.0 usft
Refer		Offs		Semi Major						ance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbor +N/-S (usft)	e Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Warning	
5,100.0	5,097.2		5,085.4	7.1	6.9	112.71	112.3	190.0	237.8		9.79	24.294		
5,200.0	5,197.1	5,189.7	5,185.0	7.3	7.0	112.69	116.7	193.9	243.7		9.93	24.534		
5,300.0	5,297.0	5,289.5	5,284.7	7.4	7.2	112.68	121.2	197.9	249.6	239.5	10.08	24.763		
5,400.0	5,396.9	5,389.3	5,384.3	7.5	7.3	112.66	125.7	201.9	255.4			24.982		
5,500.0	5,496.8	5,489.1	5,484.0	7.6 7.7	7.4 7.5	112.65	130.1	205.9 209.9	261.3		10.37	25.192		
5,600.0	5,596.7	5,589.0	5,583.6	1.1	7.5	112.63	134.6	209.9	267.2	256.7	10.52	25.391		
5,700.0	5,696.6	5,688.8	5,683.3	7.8	7.6	112.62	139.0	213.9	273.1		10.67	25.582		
5,800.0	5,796.4	5,788.6	5,782.9	8.0	7.7	112.61	143.5	217.9	278.9		10.83	25.765		
5,900.0 6,000.0	5,896.3 5,996.2	5,888.4 5,988.3	5,882.6 5,982.2	8.1 8.2	7.8 8.0	112.60 112.58	147.9 152.4	221.8 225.8	284.8 290.7		10.98 11.13	25.939 26.106		
6,100.0	6,096.1	6,088.1	6,081.9	8.3	8.1	112.56	156.9	229.8	296.7		11.13	26.265		
0,100.0	0,000.1	0,000.1	0,001.0	0.0	0			220.0	200.0	200.0	11.20	20.200		
6,200.0	6,196.0	6,187.9	6,181.5	8.4	8.2	112.56	161.3	233.8	302.4		11.45	26.417		
6,300.0	6,295.9	6,287.8 6.387.6	6,281.2	8.6	8.3	112.55	165.8 170.2	237.8	308.3		11.61	26.563		
6,400.0 6,500.0	6,395.8 6,495.7	6,387.6 6,487.4	6,380.8 6,480.5	8.7 8.8	8.4 8.5	112.54 112.53	170.2 174.7	241.8 245.8	314.2 320.0		11.77 11.93	26.703 26.836		
6,600.0	6,595.6	6,587.2	6,580.1	8.9	8.7	112.52	179.1	249.7	325.9		12.09	26.963		
6,700.0	6,695.4	6,687.1	6,679.8	9.0	8.8	112.52	183.6	253.7	331.8		12.25	27.085		
6,800.0 6,900.0	6,795.3 6,895.2	6,786.9 6,886.7	6,779.4 6,879.0	9.2 9.3	8.9 9.0	112.51 112.50	188.1 192.5	257.7 261.7	337.7 343.5		12.41 12.58	27.202 27.314		
7,000.0	6,995.1	6,986.5	6,978.7	9.4	9.1	112.49	197.0	265.7	349.4		12.74	27.421		
7,100.0	7,095.0	7,086.4	7,078.3	9.5	9.3	112.48	201.4	269.7	355.3		12.91	27.523		
7,000,0	7.404.0	7 400 0	7 470 0	0.7	0.4	440.40	005.0	070.0	004.4	040.4	40.07	07.004		
7,200.0 7,300.0	7,194.9 7,294.8	7,186.2 7,286.0	7,178.0 7,277.6	9.7 9.8	9.4 9.5	112.48 112.47	205.9 210.4	273.6 277.6	361.1 367.0		13.07 13.24	27.621 27.715		
7,400.0	7,394.7	7,385.9	7,377.3	9.9	9.6	112.46	214.8	281.6	372.9		13.41	27.805		
7,500.0	7,494.6	7,485.7	7,476.9	10.0	9.7	112.45	219.3	285.6	378.8		13.58	27.891		
7,600.0	7,594.4	7,585.5	7,576.6	10.1	9.9	112.45	223.7	289.6	384.6	370.9	13.75	27.974		
7,700.0	7,694.3	7,685.3	7,676.2	10.3	10.0	112.44	228.2	293.6	390.5	376.6	13.92	28.053		
7,800.0	7,794.2	7,785.2	7,775.9	10.4	10.1	112.44	232.6	297.6	396.4		14.09	28.129		
7,900.0	7,894.1	7,885.0	7,875.5	10.5	10.2	112.43	237.1	301.5	402.3		14.26	28.202		
8,000.0 8,100.0	7,994.0 8,093.9	7,984.8 8,084.6	7,975.2 8,074.8	10.6 10.8	10.3 10.5	112.42 112.42	241.6 246.0	305.5 309.5	408.1 414.0		14.44 14.61	28.271 28.338		
0,100.0	0,033.3	0,004.0	0,074.0	10.0	10.5	112.42	240.0	303.3	414.0	333.4	14.01	20.550		
8,200.0	8,193.8	8,184.5	8,174.5	10.9	10.6	112.41	250.5	313.5	419.9		14.78	28.402		
8,300.0	8,293.7	8,284.3	8,274.1	11.0	10.7	112.41	254.9	317.5	425.8		14.96	28.463		
8,400.0 8,500.0	8,393.6 8,493.5	8,384.1 8,484.0	8,373.8 8,473.4	11.1 11.3	10.8 11.0	112.40 112.40	259.4 263.8	321.5 325.5	431.6 437.5		15.13 15.31	28.522 28.578		
8,600.0	8,593.3	8,583.8	8,573.1	11.3	11.1	112.40	268.3	329.4	443.4		15.49	28.632		
8,700.0	8,693.2	8,683.6	8,672.7	11.5	11.2	112.39	272.8	333.4	449.2		15.66	28.684		
8,800.0 8,900.0	8,793.1 8,893.0	8,783.4 8,883.3	8,772.4 8,872.0	11.6 11.8	11.3 11.4	112.38 112.38	277.2 281.7	337.4 341.4	455.1 461.0		15.84 16.02	28.733 28.781		
9,000.0	8,893.0	8,983.3	8,872.0 8,971.7	11.8	11.4	112.38	281.7 286.1	341.4	461.0 466.9		16.02	28.826		
9,100.0	9,092.8	9,082.9	9,071.3	12.0	11.7	112.37	290.6	349.4	472.7	456.4	16.37	28.870		
9,200.0	9,192.7	9,182.7	9,171.0	12.1	11.8	112.37	295.0	353.3	478.6		16.55	28.912		
9,300.0	9,292.6	9,282.6	9,270.6	12.3	11.9	112.36	299.5	357.3	484.5		16.73	28.952		
9,400.0	9,392.5	9,382.4	9,370.3	12.4	12.1	112.36	304.0	361.3	490.4		16.91	28.990		
9,500.0 9,600.0	9,492.3 9,592.2	9,482.2 9,582.1	9,469.9 9,569.5	12.5 12.6	12.2 12.3	112.35 112.35	308.4 312.9	365.3 369.3	496.2 502.1		17.10 17.28	29.027 29.062		
9,700.0	9,692.1	9,681.9	9,669.2	12.8	12.4	112.35	317.3	373.3	508.0	490.5	17.46	29.096		
9,800.0	9,792.0	9,781.7	9,768.8	12.9	12.6	112.34	321.8	377.3	513.8			29.128		
9,900.0	9,891.9	9,881.5	9,868.5	13.0	12.7	112.34	326.3	381.2	519.7		17.82	29.159		
10,000.0	9,991.8	9,981.4	9,968.1	13.1	12.8	112.34	330.7	385.2	525.6		18.01	29.189		
10,100.0		10,081.2	10,067.8	13.3	12.9	112.33	335.2	389.2	531.5	513.3	18.19	29.217		
10,200.0	10,191.6	10,181.0	10,167.4	13.4	13.1	112.33	339.6	393.2	537.3	519.0	18.37	29.244		

Anticollision Report

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Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft
Reference Wellbore OWB
Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Well GREEN BERET FED COM #702H

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

2.00 sigma edm

Offset D	esian	GREFI	N BERF1	FED COM	M PROJ	ECT - GRI	EEN BERET	FED COM	1 #602H -	OWB - F	WP1		Offset Site Error:	3.0 usft
				80-MWD+IFR									Offset Well Error:	3.0 usft
Refer		Offs		Semi Major						ance				
Measured Depth	Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor	e Centre +E/-W	Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
10,300.0	10,291.5	10,280.8	10,267.1	13.5	13.2	112.33	344.1	397.2	543.2		18.56	29.270		
10,400.0 10,500.0	10,391.3 10,491.2	10,380.7 10,480.5	10,366.7 10,466.4	13.6 13.8	13.3 13.4	112.32 112.32	348.5 353.0	401.2 405.2	549.1 555.0	530.3 536.0	18.74 18.93	29.295 29.318		
10,600.0	10,491.2	10,480.3	10,466.4	13.0	13.4	112.32	357.5	409.1	560.8	541.7	19.11	29.341		
10,700.0	10,691.0	10,680.2	10,665.7	14.0	13.7	112.31	361.9	413.1	566.7	547.4	19.30	29.362		
10,800.0	10,790.9	10,780.0	10,765.3	14.1	13.8	112.31	366.4	417.1	572.6	553.1	19.49	29.383		
10,900.0	10,890.8	10,879.8	10,865.0	14.3	13.9	112.31	370.8	421.1	578.4	558.8	19.67	29.403		
11,000.0	10,990.7	10,979.6	10,964.6	14.4	14.1	112.31	375.3	425.1	584.3	564.5	19.86	29.421		
11,100.0	11,090.6	11,079.5	11,064.3	14.5	14.2	112.30	379.7	429.1	590.2	570.1	20.05	29.439		
11,200.0	11,190.5	11,179.3	11,163.9	14.7	14.3	112.30	384.2	433.1	596.1	575.8	20.24	29.456		
11,300.0	11,290.4	11,279.1	11,263.6	14.8	14.4	112.30	388.7	437.0	601.9	581.5	20.42	29.472		
11,400.0	11,390.2	11,379.0	11,363.2	14.9	14.6	112.29	393.1	441.0	607.8	587.2	20.61	29.487		
11,500.0	11,490.1	11,478.8	11,462.9	15.0	14.7	112.29	397.6	445.0	613.7	592.9	20.80	29.502		
11,600.0	11,590.0	11,578.6	11,562.5	15.2	14.8	112.29	402.0	449.0	619.6	598.6	20.99	29.516		
11,700.0	11,689.9	11,678.4	11,662.2	15.3	14.9	112.29	406.5	453.0	625.4	604.3	21.18	29.529		
11,800.0	11,789.8	11,778.3	11,761.8	15.4	15.1	112.28	410.9	457.0	631.3	609.9	21.37	29.541		
11,900.0	11,889.7	11,878.1	11,861.5	15.5	15.2	112.28	415.4	460.9	637.2	615.6	21.56	29.553		
12,000.0	11,989.6	11,978.0	11,960.9	15.7	15.2	113.18	409.7	465.0	643.0	621.4	21.66	29.687		
12,100.0	12,089.5	12,070.0	12,049.7	15.8	15.2	115.60	386.3	468.8	649.7	627.9	21.85	29.734		
12,135.5		12,100.0	12,077.4	15.8	15.2	116.69	375.0	470.0	652.7	630.7	21.97	29.704		
12,150.0	12,139.4	12,111.5	12,087.9	15.8	15.2	149.25	370.2	470.5	654.0	632.0	22.03	29.690		
12,175.0	12,164.4	12,131.5	12,105.7	15.8	15.2	-109.74	361.3	471.3	656.5	634.4	22.14	29.654		
12,200.0	12,189.3	12,150.0	12,122.0	15.8	15.2	-95.08	352.4	472.0	659.1	636.8	22.28	29.581		
12,225.0	12,214.2	12,170.6	12,139.6	15.8	15.3	-89.97	341.7	472.8	661.8	639.4	22.42	29.518		
12,250.0 12,275.0	12,238.8 12,263.2	12,189.8 12,208.8	12,155.6 12,170.9	15.8 15.9	15.3 15.3	-87.06 -84.98	331.1 320.0	473.6 474.3	664.6 667.5	642.0 644.7	22.59 22.79	29.415 29.289		
12,300.0		12,227.5	12,185.7	15.9	15.3	-83.31	308.4	475.0	670.4	647.4	23.01	29.140		
12,325.0 12,350.0	12,310.9 12,334.1	12,246.1 12,264.5	12,199.8 12,213.3	15.9	15.3	-81.88 -80.61	296.4	475.7	673.4	650.2	23.25 23.50	28.969 28.780		
12,330.0	12,356.8	12,282.7	12,213.3	15.9 15.9	15.3 15.3	-79.46	284.0 271.2	476.3 477.0	676.5 679.5	653.0 655.7	23.78	28.574		
12,400.0		12,300.0	12,238.1	15.9	15.3	-78.43	258.5	477.6	682.5	658.4	24.08	28.340		
40 405 0	40 400 4	40.040.7	40.050.0	45.0	45.0	77.40	044.4	470.0	005.5	004.4	04.00	00.400		
12,425.0 12,450.0	12,400.4 12,421.2	12,318.7 12,336.5	12,250.3 12,261.4	15.9 15.9	15.3 15.4	-77.43 -76.51	244.4 230.5	478.2 478.8	685.5 688.4	661.1 663.7	24.38 24.69	28.122 27.882		
12,475.0	12,441.2	12,354.2	12,272.0	15.9	15.4	-75.66	216.4	479.3	691.3	666.3	25.01	27.637		
12,500.0		12,375.0	12,283.7	15.9	15.4	-74.80	199.2	480.0	694.1	668.8	25.29	27.444		
12,525.0		12,389.2	12,291.3	16.0	15.4	-74.12	187.1	480.4	696.8	671.1	25.67	27.141		
12,550.0	12,496.2	12,406.6	12,300.1	16.0	15.4	-73.43	172.1	480.9	699.4	673.4	26.01	26.895		
12,530.0	12,490.2	12,400.0	12,300.1	16.0	15.4	-73.43 -72.78	155.9	480.9	701.9	675.6	26.32	26.668		
12,600.0	12,528.1	12,441.2	12,315.8	16.0	15.4	-72.20	141.4	481.8	704.2	677.6	26.66	26.417		
12,625.0		12,458.3	12,322.9	16.0	15.5	-71.66	125.7	482.2	706.4	679.5	26.98	26.188		
12,650.0	12,555.9	12,475.0	12,329.1	16.0	15.5	-71.17	110.3	482.6	708.5	681.2	27.29	25.963		
12,675.0	12,568.1	12,492.5	12,335.1	16.1	15.5	-70.72	93.9	483.0	710.4	682.8	27.58	25.757		
12,700.0		12,509.5	12,340.3	16.1	15.5	-70.32	77.7	483.3	712.1	684.2		25.557		
12,725.0		12,525.0	12,344.6	16.1	15.5	-69.98	62.8	483.6	713.6	685.4	28.14	25.357		
12,750.0		12,543.4	12,349.0	16.1	15.5	-69.66	45.0	484.0	714.9	686.5	28.38	25.191		
12,775.0	12,605.1	12,560.3	12,352.5	16.1	15.6	-69.40	28.5	484.3	716.1	687.5	28.61	25.026		
12,800.0	12,611.2	12,575.0	12,355.0	16.1	15.6	-69.20	13.9	484.5	717.0	688.2	28.84	24.864		
12,825.0		12,594.0	12,357.7	16.1	15.6	-69.03	-4.8	484.8	717.7	688.7	29.02	24.733		
12,850.0		12,610.8	12,359.4	16.2	15.6	-68.91	-21.6	485.0	718.3	689.1	29.19	24.605		
12,875.0 12,900.0		12,625.0	12,360.3	16.2	15.6	-68.84 68.81	-35.8 58.7	485.2 485.4	718.6	689.3	29.35	24.488		
12,900.0	12,622.9	12,648.0	12,361.0	16.2	15.6	-68.81	-58.7	485.4	718.7	689.3	29.47	24.387		
12,903.6	12,623.0	12,648.0	12,361.0	16.2	15.6	-68.81	-58.7	485.4	718.7	689.2	29.49	24.374		

Anticollision Report

Database:

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft
Reference Wellbore OWB
Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference: KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Well GREEN BERET FED COM #702H

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

2.00 sigma edm

Offset D	esian	GREFI	N BERFT	FED CON	/ PRO.II	ECT - GR	EEN BERET	FED COM	l #602H -	OWB - F	WP1		Offset Site Error:	3.0 usft
				80-MWD+IFR									Offset Well Error:	3.0 usft
Refer		Offs		Semi Major						ance				
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbor	e Centre +E/-W	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
12,936.8	12,623.1	12,679.5	12,361.2	16.2	15.7	-68.81	-90.3	485.7	718.7	689.1	29.66	24.233		
13,000.0			12,361.5	16.2	15.7	-68.81	-153.4	486.3	718.7	688.7	30.00	23.955		
13,100.0			12,362.1	16.3	15.8	-68.81	-253.4	487.2	718.7	688.1	30.62			
13,200.0 13,300.0	12,624.6 12,625.1	12,942.7 13,042.7	12,362.6 12,363.1	16.3 16.4	16.0 16.2	-68.81 -68.81	-353.4 -453.4	488.1 489.1	718.7 718.7	687.4 686.6	31.32 32.09	22.950 22.396		
13,400.0			12,363.7	16.5	16.4	-68.81	-553.4	490.0	718.7	685.8	32.93	21.822		
				40.0	40.7			400.0		2010	00.04			
13,500.0 13,600.0	12,626.2 12,626.7	13,242.7 13,342.7	12,364.2 12,364.8	16.6 16.8	16.7 17.0	-68.81 -68.81	-653.4 -753.4	490.9 491.8	718.7 718.7	684.9 683.9	33.84 34.81	21.236 20.644		
13,700.0	12,620.7	13,442.7	12,365.3	17.0	17.4	-68.81	-853.4	492.8	718.7	682.9	35.84	20.044		
13,800.0	12,627.8		12,365.9	17.3	17.8	-68.81	-953.4	493.7	718.7	681.8	36.91	19.469		
13,900.0		13,642.7	12,366.4	17.6	18.3	-68.81	-1,053.4	494.6	718.7	680.7	38.04	18.895		
14 000 0	10.600.0	10 740 7	10 267 0	10.0	10.0	60.01	4.450.4	40E E	710.7	670 5	20.20	40.004		
14,000.0 14,100.0	12,628.9 12,629.5	13,742.7 13,842.7	12,367.0 12,367.5	18.0 18.5	18.9 19.4	-68.81 -68.81	-1,153.4 -1,253.4	495.5 496.5	718.7 718.7	679.5 678.3	39.20 40.40	18.334 17.788		
14,100.0	12,630.0		12,368.1	19.1	20.0	-68.81	-1,353.4	490.3	718.7	677.0	41.64	17.766		
14,300.0	12,630.6		12,368.6	19.7	20.7	-68.81	-1,453.4	498.3	718.7	675.8	42.91	16.748		
14,400.0	12,631.1	14,142.7	12,369.1	20.4	21.3	-68.81	-1,553.3	499.2	718.7	674.5	44.21	16.255		
14,500.0	12,631.7	14,242.7	12,369.7	21.1	22.0	-68.81	-1,653.3	500.2	718.7	673.1	45.54	15.781		
14,600.0	12,631.7		12,309.7	21.1	22.7	-68.81	-1,753.3	500.2	718.7	671.8	46.89	15.326		
14,700.0	12,632.7	14,442.7	12,370.8	22.5	23.4	-68.81	-1,853.3	502.0	718.7	670.4	48.27	14.890		
14,800.0	12,633.3		12,371.3	23.2	24.1	-68.81	-1,953.3	502.9	718.7	669.0	49.66	14.471		
14,900.0	12,633.8	14,642.7	12,371.9	24.0	24.8	-68.81	-2,053.3	503.9	718.7	667.6	51.08	14.071		
15,000.0	12,634.4	14,742.7	12,372.4	24.8	25.6	-68.81	-2,153.3	504.8	718.7	666.2	52.51	13.687		
15,100.0	12,634.9		12,373.0	25.5	26.3	-68.81	-2,253.3	505.7	718.7	664.7	53.96	13.320		
15,200.0	12,635.5		12,373.5	26.3	27.1	-68.81	-2,353.3	506.7	718.7	663.2	55.42	12.968		
15,300.0	12,636.0	15,042.7	12,374.0	27.1	27.9	-68.81	-2,453.3	507.6	718.7	661.8	56.89	12.631		
15,400.0	12,636.6	15,142.7	12,374.6	27.9	28.6	-68.81	-2,553.3	508.5	718.7	660.3	58.38	12.309		
15,500.0	12,637.1	15,242.7	12,375.1	28.7	29.4	-68.81	-2,653.3	509.4	718.7	658.8	59.88	12.001		
15,600.0	12,637.7	15,342.7	12,375.7	29.5	30.2	-68.81	-2,753.3	510.4	718.6	657.3	61.40	11.705		
15,700.0	12,638.2	15,442.7	12,376.2	30.3	31.0	-68.81	-2,853.3	511.3	718.6	655.7	62.92	11.422		
15,800.0	12,638.7	15,542.7	12,376.8	31.1	31.8	-68.81	-2,953.3	512.2	718.6	654.2	64.45	11.150		
15,900.0	12,639.3	15,642.7	12,377.3	31.9	32.6	-68.81	-3,053.3	513.1	718.6	652.7	65.99	10.890		
16,000.0	12,639.8	15,742.7	12,377.9	32.7	33.4	-68.81	-3,153.3	514.1	718.6	651.1	67.54	10.641		
16,100.0	12,640.4	15,842.7	12,378.4	33.6	34.2	-68.81	-3,253.2	515.0	718.6	649.5	69.09	10.401		
16,200.0	12,640.9	15,942.7	12,378.9	34.4	35.0	-68.81	-3,353.2	515.9	718.6	648.0	70.66	10.171		
16,300.0	12,641.5		12,379.5	35.2	35.8	-68.81	-3,453.2	516.8	718.6	646.4	72.22	9.950		
16,400.0	12,642.0	16,142.7	12,380.0	36.0	36.6	-68.81	-3,553.2	517.8	718.6	644.8	73.80	9.737		
16,500.0	12,642.6	16,242.7	12,380.6	36.9	37.4	-68.81	-3,653.2	518.7	718.6	643.2	75.38	9.533		
16,600.0	12,643.1	16,342.7	12,381.1	37.7	38.2	-68.81	-3,753.2	519.6	718.6	641.7	76.97	9.337		
16,700.0	12,643.6	16,442.7	12,381.7	38.5	39.1	-68.81	-3,853.2	520.5	718.6	640.1	78.56	9.147		
16,800.0	12,644.2		12,382.2	39.4	39.9	-68.81	-3,953.2	521.5	718.6	638.5	80.16	8.965		
16,900.0	12,644.7	16,642.7	12,382.8	40.2	40.7	-68.81	-4,053.2	522.4	718.6	636.9	81.76	8.790		
17,000.0	12,645.3	16,742.7	12,383.3	41.0	41.5	-68.81	-4,153.2	523.3	718.6	635.3	83.36	8.620		
17,100.0			12,383.8	41.9	42.3	-68.81	-4,253.2	524.2	718.6	633.6	84.97	8.457		
17,200.0			12,384.4	42.7	43.2	-68.81	-4,353.2	525.2	718.6	632.0	86.59	8.299		
17,300.0			12,384.9	43.5	44.0	-68.81	-4,453.2	526.1	718.6	630.4	88.20	8.147		
17,400.0	12,647.5	17,142.7	12,385.5	44.4	44.8	-68.81	-4,553.2	527.0	718.6	628.8	89.82	8.000		
17,500.0	12,648.0	17,242.7	12,386.0	45.2	45.7	-68.81	-4,653.2	527.9	718.6	627.2	91.45	7.858		
17,600.0			12,386.6	46.1	46.5	-68.81	-4,753.2	528.9	718.6	625.5	93.07	7.721		
17,700.0		17,442.7	12,387.1	46.9	47.3	-68.81	-4,853.2	529.8	718.6	623.9	94.70	7.588		
17,800.0 17,900.0			12,387.7 12,388.2	47.7 48.6	48.2 49.0	-68.81 -68.81	-4,953.2 -5,053.1	530.7 531.6	718.6 718.6	622.3 620.6	96.33	7.459 7.335		
17,900.0	12,000.2	11,042.1	12,000.2	40.0	49.0	-00.01	-3,003.1	JJ 1.0	1 10.0	020.0	97.97	1.333		
18,000.0	12,650.7	17,742.7	12,388.7	49.4	49.8	-68.81	-5,153.1	532.6	718.6	619.0	99.61	7.214		

Anticollision Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft Reference Wellbore OWB Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:**

Output errors are at Database:

Offset TVD Reference:

Well GREEN BERET FED COM #702H

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Minimum Curvature

2.00 sigma edm

Offset Datum

Offset D						ECT - GRI	EEN BERET	FED COM	I #602H -	OWB - P	WP1		Offset Site Error:	3.0 ust
Survey Pro Refer	_	tandard Keep Offs		80-MWD+IFR Semi Majo					Dista				Offset Well Error:	3.0 us
Refer leasured	Vertical	Measured	eτ Vertical	Reference	Offset	Highside	Offset Wellbo	ro Contro	Between	Between	Minimum	Separation	14 /!	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	Warning	
18,100.0	12,651.3	17,842.7	12,389.3	50.3	50.7	-68.81	-5,253.1	533.5	718.6	617.3	101.24	7.097		
18,200.0	12,651.8	17,942.7	12,389.8	51.1	51.5	-68.81	-5,353.1	534.4	718.6	615.7	102.89	6.984		
18,300.0	12,652.4	18,042.7	12,390.4	52.0	52.4	-68.81	-5,453.1	535.3	718.6	614.0	104.53	6.874		
18,400.0	12,652.9	18,142.7	12,390.9	52.8	53.2	-68.81	-5,553.1	536.3	718.6	612.4	106.18	6.768		
18,500.0	12,653.5	18,242.7	12,391.5	53.7	54.0	-68.81	-5,653.1	537.2	718.6	610.8	107.82	6.664		
18,600.0	12,654.0	18,342.7	12,392.0	54.5	54.9	-68.80	-5,753.1	538.1	718.6	609.1	109.47	6.564		
18,700.0	12,654.6	18,442.7	12,392.6	55.4	55.7	-68.80	-5,853.1	539.1	718.6	607.4	111.13	6.466		
18,800.0	12,655.1	18,542.7	12,393.1	56.2	56.6	-68.80	-5,953.1	540.0	718.6	605.8	112.78	6.371		
18,900.0	12,655.6	18,642.7	12,393.6	57.1	57.4	-68.80	-6,053.1	540.9	718.6	604.1	114.43	6.279		
19,000.0	12,656.2	18,742.7	12,394.2	57.9	58.3	-68.80	-6,153.1	541.8	718.6	602.5	116.09	6.190		
19,100.0	12,656.7	18,842.7	12,394.7	58.8	59.1	-68.80	-6,253.1	542.8	718.6	600.8	117.75	6.103		
19,200.0	12,657.3	18,942.7	12,395.3	59.6	60.0	-68.80	-6,353.1	543.7	718.6	599.1	119.41	6.018		
19,300.0	12,657.8	19,042.7	12,395.8	60.5	60.8	-68.80	-6,453.1	544.6	718.6	597.5	121.07	5.935		
19,400.0	12,658.4	19,142.7	12,396.4	61.3	61.7	-68.80	-6,553.1	545.5	718.6	595.8	122.73	5.855		
19,500.0	12,658.9	19,242.7	12,396.9	62.2	62.5	-68.80	-6,653.1	546.5	718.5	594.2	124.39	5.776		
19,600.0	12,659.5	19,342.7	12,397.5	63.0	63.3	-68.80	-6,753.0	547.4	718.5	592.5	126.06	5.700		
19,700.0	12,660.0	19,442.7	12,398.0	63.9	64.2	-68.80	-6,853.0	548.3	718.5	590.8	127.72	5.626		
19,800.0	12,660.5	19,542.7	12,398.5	64.7	65.0	-68.80	-6,953.0	549.2	718.5	589.2	129.39	5.553		
19,900.0	12,661.1	19,642.7	12,399.1	65.6	65.9	-68.80	-7,053.0	550.2	718.5	587.5	131.06	5.483		
20,000.0	12,661.6	19,742.7	12,399.6	66.4	66.7	-68.80	-7,153.0	551.1	718.5	585.8	132.73	5.414		
20,100.0	12,662.2	19,842.7	12,400.2	67.3	67.6	-68.80	-7,253.0	552.0	718.5	584.1	134.40	5.346		
20,200.0	12,662.7	19,942.7	12,400.7	68.1	68.4	-68.80	-7,353.0	552.9	718.5	582.5	136.07	5.281		
20,249.9	12,663.0	19,992.6	12,401.0	68.5	68.9	-68.80	-7,402.9	553.4	718.5	581.8	136.77	5.253 9	SF	

Anticollision Report

Database:

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft Reference Wellbore OWB Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Output errors are at

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Well GREEN BERET FED COM #702H

Survey Calculation Method: Minimum Curvature

> 2.00 sigma edm

Reference Offset Semi Major Axis Distance	Offset D	esign	GREE	N BERE	T FED CO	M PROJ	ECT - GR	EEN BERET	FED COM	л #801H -	OWB - F	WP1		Offset Site Error:	3.0 usft
	-	_												Offset Well Error:	3.0 usft
					-										
100.0 100.0 99.1 99.1 30 30 89.74 0.3 80.0 80.0 54.0 6.00 10.000	Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		Warning	
2000 2000 1996.1 199.1 30 30 80 80.74 0.3 80.0 60.0 64.0 60.0 9996 400.0 400.0 399.1 309.1 309.1 30.1 30 80.74 0.3 60.0 80.0 54.0 6.02 9970 500.0 500.0 409.1 409.1 31 31 80.74 0.3 60.0 60.0 54.0 6.03 9949 60.0 60.0 60.0 54.0 6.03 9949 60.0															
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800.0 800.0 799.1 799.1 3.2 3.2 88.74 0.3 60.0 60.0 53.9 6.11 9.816 900.0 900.0 899.1 899.1 3.2 3.2 88.74 0.3 60.0 60.0 53.9 6.14 9.771 1,100.0 1,000.1 1,099.1 1,099.1 3.3 3.3 88.74 0.3 60.0 60.0 53.8 6.17 9.721 1,100.0 1,099.1 1,34 3.4 89.74 0.3 60.0 60.0 53.8 6.24 9.610 1,500.0 1,500.0 1,500.0 1,699.1 1,35 3.5 85.74 0.3 60.0 60.0 53.7 6.28 9.549 1,500.0 1,690.0 1,599.1 1,699.1 3.6 3.6 89.74 0.3 60.0 60.0 53.6 6.37 9.416 1,500.0 1,600.0 1,699.1 1,799.1 3.8 3.8 89.74 0.3 60.0<															
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1,700	1,500.0	1,500.0	1,499.1	1,499.1	3.5	3.5	89.74	0.3	60.0	60.0	53.7	6.33	9.484		
1,800.0 1,800.0 1,799.1 1,799.1 3.8 3.8 89.74 0.3 60.0 60.0 53.5 6.47 9.272	1,600.0	1,600.0	1,599.1	1,599.1	3.6	3.6	89.74	0.3	60.0	60.0	53.6	6.37	9.416		
1,900						3.7	89.74		60.0				9.345		
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2,100.0 2,099.1 2,099.1 4.0 4.0 89.74 0.3 60.0 60.0 53.4 6.64 9.037 2,200.0 2,200.0 2,199.1 2,199.1 4.1 4.1 89.74 0.3 60.0 60.0 53.3 6.70 8.954 2,300.0 2,290.1 2,399.1 4.3 4.3 89.74 0.3 60.0 60.0 53.2 6.63 8.785 2,500.0 2,499.1 2,499.1 4.4 4.4 89.74 0.3 60.0 60.0 53.2 6.63 8.785 2,600.0 2,590.0 2,499.1 2,499.1 4.4 4.4 89.74 0.3 60.0 60.0 53.1 6.90 8.699.0 2.699.1 2,599.1 2,599.1 2,599.1 4.5 4.5 116.01 0.3 60.0 60.7 53.7 6.97 8.712 2,634.9 2,699.9 2,699.0 4.6 4.6 118.52 0.3 60.0 65.1 57.7	1,900.0	1,900.0	1,899.1	1,899.1	3.9	3.9	89.74	0.3	60.0	60.0	53.5	6.53	9.195		
2,200.0 2,200.0 2,199.1 2,199.1 4.1 4.1 89.74 0.3 60.0 60.0 53.3 6.70 8.954 2,300.0 2,290.0 2,299.1 2,299.1 4.2 89.74 0.3 60.0 60.0 53.2 6.76 8.871 2,400.0 2,399.1 2,399.1 4.3 4.3 89.74 0.3 60.0 60.0 53.2 6.83 8.765 2,500.0 2,590.0 2,499.1 2,49.1 4.4 4.4 89.74 0.3 60.0 60.0 53.1 6.90 8.699 CC, ES 2,600.0 2,590.1 2,599.1 4.5 4.5 116.01 0.3 60.0 60.7 53.7 6.97 8.712 2,600.0 2,699.0 2,699.0 4.6 4.6 118.52 0.3 60.0 60.7 55.7 7.06 8.881 2,800.0 2,799.8 2,798.9 4.7 4.7 122.16 0.3 60.0 65.1 57.9	2,000.0	2,000.0	1,999.1	1,999.1	3.9	3.9	89.74	0.3	60.0	60.0	53.4	6.58	9.117		
2,300.0	2,100.0	2,100.0	2,099.1	2,099.1	4.0	4.0	89.74	0.3	60.0	60.0	53.4	6.64	9.037		
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2,634.9 2,634.8 2,633.9 2,633.9 4.5 4.5 116.01 0.3 60.0 61.3 54.3 7.00 8.763 2,700.0 2,699.9 2,699.0 2,699.0 4.6 4.6 118.52 0.3 60.0 62.7 55.7 7.06 8.881 2,800.0 2,798.8 2,798.9 4.7 4.7 122.16 0.3 60.0 65.1 57.9 7.19 9.060 2,900.0 2,899.6 2,998.6 4.9 4.9 128.64 0.3 60.0 67.7 60.4 7.34 9.232 3,000.0 2,999.5 2,998.6 4.9 4.9 128.64 0.3 60.0 70.6 63.1 7.51 9.397 3,100.0 3,099.4 3,098.5 5.0 5.0 131.50 0.3 60.0 76.8 68.9 7.91 9.712 3,200.0 3,198.4 3,198.4 5.1 5.1 134.13 0.3 60.0 76.8 68.9	2,500.0	2,500.0	2,499.1	2,499.1	4.4	4.4	89.74	0.3	60.0	60.0	53.1	6.90	8.699	CC, ES	
2,700.0 2,699.9 2,699.0 2,699.0 4.6 4.6 118.52 0.3 60.0 62.7 55.7 7.06 8.881 2,800.0 2,799.8 2,798.9 2,798.9 4.7 4.7 122.16 0.3 60.0 65.1 57.9 7.19 9.060 2,900.0 2,899.7 2,898.8 2,898.6 4.8 4.8 125.53 0.3 60.0 67.7 60.4 7.34 9.232 3,000.0 2,999.5 2,998.6 2,998.6 4.9 4.9 128.64 0.3 60.0 70.6 63.1 7.51 9.397 3,000.0 3,199.3 3,198.4 3,198.4 5.1 5.1 131.50 0.3 60.0 73.6 65.9 7.70 9.557 3,200.0 3,199.3 3,198.4 5.1 5.1 134.13 0.3 60.0 76.8 68.9 7.91 9.712 3,200.0 3,399.1 3,398.2 3,398.3 5.2 5.2 136.	2,600.0	2,600.0	2,599.1	2,599.1	4.5	4.5	114.81	0.3	60.0	60.7	53.7	6.97	8.712		
2,800.0 2,799.8 2,798.9 2,798.9 4.7 4.7 122.16 0.3 60.0 65.1 57.9 7.19 9.060 2,900.0 2,899.7 2,898.8 2,898.8 4.8 4.8 125.53 0.3 60.0 67.7 60.4 7.34 9.232 3,000.0 2,999.5 2,998.6 2,998.6 4.9 4.9 128.64 0.3 60.0 70.6 63.1 7.51 9.397 3,100.0 3,099.4 3,098.5 5.0 5.0 131.50 0.3 60.0 73.6 65.9 7.70 9.557 3,200.0 3,199.3 3,198.4 5.1 5.1 134.13 0.3 60.0 76.8 68.9 7.91 9.712 3,300.0 3,299.2 3,298.3 5.2 5.2 136.54 0.3 60.0 80.2 72.0 8.13 9.862 3,400.0 3,499.0 3,498.1 3,498.1 5.4 5.4 140.80 0.3 60.0	2,634.9	2,634.8	2,633.9	2,633.9	4.5	4.5	116.01	0.3	60.0	61.3	54.3	7.00	8.763		
2,900.0 2,899.7 2,898.8 2,898.8 4.8 4.8 125.53 0.3 60.0 67.7 60.4 7.34 9.232 3,000.0 2,999.5 2,998.6 2,998.6 4.9 4.9 128.64 0.3 60.0 70.6 63.1 7.51 9.397 3,100.0 3,099.4 3,098.5 3,098.5 5.0 5.0 5.0 131.50 0.3 60.0 73.6 65.9 7.70 9.557 3,200.0 3,199.3 3,198.4 3,198.4 5.1 5.1 134.13 0.3 60.0 76.8 68.9 7.91 9.712 3,300.0 3,299.2 3,298.3 5.2 5.2 136.54 0.3 60.0 80.2 72.0 8.13 9.862 3,400.0 3,399.1 3,498.1 5.4 5.4 140.80 0.3 60.0 87.2 78.6 8.59 10.153 3,600.0 3,598.9 3,598.0 5.5 5.5 142.67 0.3 60.0 90.9 82.1 8.83 10.295 3,700.0 3,6	2,700.0	2,699.9	2,699.0	2,699.0	4.6	4.6	118.52	0.3	60.0	62.7	55.7	7.06	8.881		
3,000.0 2,999.5 2,998.6 2,998.6 4.9 4.9 128.64 0.3 60.0 70.6 63.1 7.51 9.397 3,100.0 3,099.4 3,098.5 3,098.5 5.0 5.0 131.50 0.3 60.0 73.6 65.9 7.70 9.557 3,200.0 3,199.3 3,198.4 3,198.4 5.1 5.1 134.13 0.3 60.0 76.8 68.9 7.91 9.712 3,300.0 3,299.2 3,298.3 3,298.3 5.2 5.2 136.54 0.3 60.0 80.2 72.0 8.13 9.862 3,400.0 3,399.1 3,398.2 3,398.2 5.3 5.3 138.76 0.3 60.0 83.6 75.3 8.36 10.009 3,500.0 3,499.0 3,498.1 3,498.1 5.4 5.4 140.80 0.3 60.0 87.2 78.6 8.59 10.153 3,600.0 3,598.9 3,598.0 3,598.0 5.5 5.5 142.67 0.3 60.0 90.9 82.1 8.83 10.295 3,700.0 3,698.8 3,697.9 3,697.9 5.6 5.7 144.39 0.3 60.0 99.9 82.1 8.83 10.295 3,800.0 3,798.7 3,797.8 3,797.8 5.7 5.8 145.99 0.3 60.0 99.6 89.3 9.33 10.571 3,900.0 3,898.5 3,897.6 3,897.6 5.8 5.9 147.46 0.3 60.0 102.5 92.9 9.58 10.706 4,000.0 3,998.4 3,997.5 3,997.5 5.9 6.0 148.82 0.3 60.0 102.5 92.9 9.58 10.706 4,000.0 4,098.3 4,097.4 4,097.4 6.0 6.1 150.08 0.3 60.0 110.6 100.5 10.08 10.989 4,200.0 4,198.2 4,197.3 4,197.3 6.1 6.2 151.25 0.3 60.0 114.7 104.3 10.33 11.098 4,300.0 4,298.1 4,297.2 4,297.2 6.2 6.3 152.34 0.3 60.0 12.2 116.1 11.09 11.468 4,500.0 4,497.9 4,497.0 4,497.0 6.5 6.6 6.7 155.00 0.3 60.0 127.2 116.1 11.09 11.468 4,600.0 4,597.8 4,596.9 4,596.9 6.6 6.7 155.00 0.3 60.0 135.8 124.2 11.60 11.703	2,800.0	2,799.8	2,798.9	2,798.9	4.7	4.7	122.16	0.3	60.0	65.1	57.9	7.19	9.060		
3,100.0 3,099.4 3,098.5 3,098.5 5.0 5.0 131.50 0.3 60.0 73.6 65.9 7.70 9.557 3,200.0 3,199.3 3,198.4 3,198.4 5.1 5.1 134.13 0.3 60.0 76.8 68.9 7.91 9.712 3,300.0 3,299.2 3,298.3 3,298.3 5.2 5.2 136.54 0.3 60.0 80.2 72.0 8.13 9.862 3,400.0 3,399.1 3,398.2 3,398.2 5.3 5.3 138.76 0.3 60.0 83.6 75.3 8.36 10.009 3,500.0 3,499.0 3,498.1 3,498.1 5.4 5.4 140.80 0.3 60.0 87.2 78.6 8.59 10.153 3,600.0 3,598.9 3,598.0 5.5 5.5 142.67 0.3 60.0 90.9 82.1 8.83 10.295 3,700.0 3,698.8 3,697.9 3,697.9 5.6 5.7 144.39 0.3 60.0 94.7 85.6 9.08 10.434 3,800.0 3,798.7 3,797.8 3,797.8 5.7 5.8 145.99 0.3 60.0 98.6 89.3 9.33 10.571 3,900.0 3,898.5 3,897.6 3,897.6 5.8 5.9 147.46 0.3 60.0 102.5 92.9 9.58 10.706 4,000.0 4,098.3 4,097.4 4,097.4 6.0 6.1 150.08 0.3 60.0 110.6 100.5 10.08 10.969 4,200.0 4,198.2 4,197.3 4,197.3 6.1 6.2 151.25 0.3 60.0 118.8 108.2 10.59 11.224 4,400.0 4,398.0 4,397.1 4,397.1 6.3 6.5 153.36 0.3 60.0 127.2 116.1 11.09 11.468 4,600.0 4,597.8 4,696.8 4,696.8 6.7 6.8 156.03 0.3 60.0 135.8 124.2 11.60 11.703	2,900.0	2,899.7	2,898.8	2,898.8	4.8	4.8	125.53	0.3	60.0	67.7	60.4	7.34	9.232		
3,200.0 3,199.3 3,198.4 3,198.4 5.1 5.1 134.13 0.3 60.0 76.8 68.9 7.91 9.712 3,300.0 3,299.2 3,298.3 3,298.3 5.2 5.2 136.54 0.3 60.0 80.2 72.0 8.13 9.862 3,400.0 3,399.1 3,398.2 3,398.2 5.3 5.3 138.76 0.3 60.0 83.6 75.3 8.36 10.009 3,500.0 3,499.0 3,498.1 3,498.1 5.4 5.4 140.80 0.3 60.0 87.2 78.6 8.59 10.153 3,600.0 3,598.9 3,598.0 3,598.0 5.5 5.5 142.67 0.3 60.0 90.9 82.1 8.83 10.295 3,700.0 3,698.8 3,697.9 3,697.9 5.6 5.7 144.39 0.3 60.0 94.7 85.6 9.08 10.434 3,800.0 3,798.7 3,798.8 3,797.8 5.7 5.8 145.99 0.3 60.0 98.6 89.3 9.33 10.571 3,900.0 3,898.5 3,897.6 5.8 5.9 147.46 0.3 60.0 102.5 92.9 9.58 10.706 4,000.0 3,998.4 3,997.5 3,997.5 5.9 6.0 148.82 0.3 60.0 106.5 96.7 9.83 10.839 4,100.0 4,098.3 4,097.4 4,097.4 6.0 6.1 150.08 0.3 60.0 110.6 100.5 10.08 10.969 4,200.0 4,198.2 4,197.3 4,197.3 6.1 6.2 151.25 0.3 60.0 114.7 104.3 10.33 11.098 4,300.0 4,298.1 4,297.2 4,297.2 6.2 6.3 152.34 0.3 60.0 123.0 112.2 10.84 11.347 4,500.0 4,398.0 4,397.1 4,397.1 6.3 6.5 153.36 0.3 60.0 127.2 116.1 11.09 11.468 4,600.0 4,597.8 4,596.9 4,596.9 6.6 6.7 155.20 0.3 60.0 135.8 124.2 11.60 11.703	3,000.0	2,999.5	2,998.6	2,998.6	4.9	4.9	128.64	0.3	60.0	70.6	63.1	7.51	9.397		
3,300.0 3,299.2 3,298.3 3,298.3 5.2 5.2 136.54 0.3 60.0 80.2 72.0 8.13 9.862 3,400.0 3,399.1 3,398.2 5.3 5.3 138.76 0.3 60.0 83.6 75.3 8.36 10.009 3,400.0 3,499.0 3,498.1 3,498.1 5.4 5.4 140.80 0.3 60.0 87.2 78.6 8.59 10.153 3,600.0 3,598.9 3,598.0 3,598.0 5.5 5.5 142.67 0.3 60.0 90.9 82.1 8.83 10.295 3,700.0 3,698.8 3,697.9 5.6 5.7 144.39 0.3 60.0 94.7 85.6 9.08 10.434 3,800.0 3,798.7 3,797.8 3,797.8 5.7 5.8 145.99 0.3 60.0 98.6 89.3 9.33 10.571 3,900.0 3,898.5 3,897.6 3,897.6 5.8 5.9 147.46 0.3 60.0 102.5 92.9 9.58 10.706 4,000.0 3,998.4 3,997.5 3,997.5 5.9 6.0 148.82 0.3 60.0 102.5 92.9 9.58 10.839 4,100.0 4,098.3 4,097.4 4,097.4 6.0 6.1 150.08 0.3 60.0 110.6 100.5 10.08 10.969 4,200.0 4,198.2 4,197.3 4,197.3 6.1 6.2 151.25 0.3 60.0 114.7 104.3 10.33 11.098 4,300.0 4,298.1 4,297.2 4,297.2 6.2 6.3 152.34 0.3 60.0 118.8 108.2 10.59 11.224 4,400.0 4,398.0 4,397.1 4,397.1 6.3 6.5 153.36 0.3 60.0 127.2 116.1 11.09 11.468 4,600.0 4,597.8 4,596.9 4,596.9 6.6 6.7 155.20 0.3 60.0 135.8 124.2 11.60 11.703	3,100.0	3,099.4	3,098.5	3,098.5	5.0	5.0	131.50	0.3	60.0	73.6	65.9	7.70	9.557		
3,400.0 3,399.1 3,398.2 3,398.2 5.3 5.3 138.76 0.3 60.0 83.6 75.3 8.36 10.009 3,500.0 3,499.0 3,498.1 3,498.1 5.4 5.4 140.80 0.3 60.0 87.2 78.6 8.59 10.153 3,600.0 3,598.9 3,598.0 3,598.0 5.5 5.5 142.67 0.3 60.0 90.9 82.1 8.83 10.295 3,700.0 3,698.8 3,697.9 3,697.9 5.6 5.7 144.39 0.3 60.0 94.7 85.6 9.08 10.434 3,800.0 3,798.7 3,797.8 3,797.8 5.7 5.8 145.99 0.3 60.0 98.6 89.3 9.33 10.571 3,900.0 3,898.5 3,897.6 3,897.6 5.8 5.9 147.46 0.3 60.0 102.5 92.9 9.58 10.706 4,000.0 3,998.4 3,997.5 3,997.5 5.9 6.0 148.82 0.3 60.0 106.5 96.7 9.83 10.839 4,100.0 4,098.3 4,097.4 4,097.4 6.0 6.1 150.08 0.3 60.0 110.6 100.5 10.08 10.969 4,200.0 4,198.2 4,197.3 4,197.3 6.1 6.2 151.25 0.3 60.0 114.7 104.3 10.33 11.098 4,300.0 4,298.1 4,297.2 4,297.2 6.2 6.3 152.34 0.3 60.0 118.8 108.2 10.59 11.224 4,400.0 4,398.0 4,397.1 4,397.1 6.3 6.5 153.36 0.3 60.0 127.2 116.1 11.09 11.468 4,600.0 4,597.8 4,596.9 4,596.9 6.6 6.7 155.20 0.3 60.0 135.8 124.2 11.60 11.703	3,200.0	3,199.3	3,198.4	3,198.4	5.1	5.1	134.13	0.3	60.0	76.8	68.9	7.91	9.712		
3,500.0 3,499.0 3,498.1 3,498.1 5.4 5.4 140.80 0.3 60.0 87.2 78.6 8.59 10.153 3,600.0 3,598.9 3,598.0 3,598.0 5.5 5.5 142.67 0.3 60.0 90.9 82.1 8.83 10.295 3,700.0 3,698.8 3,697.9 3,697.9 5.6 5.7 144.39 0.3 60.0 94.7 85.6 9.08 10.434 3,800.0 3,798.7 3,797.8 3,797.8 5.7 5.8 145.99 0.3 60.0 98.6 89.3 9.33 10.571 3,900.0 3,898.5 3,897.6 3,897.6 5.8 5.9 147.46 0.3 60.0 102.5 92.9 9.58 10.706 4,000.0 3,998.4 3,997.5 3,997.5 5.9 6.0 148.82 0.3 60.0 106.5 96.7 9.83 10.839 4,100.0 4,098.3 4,097.4 4,097.4 6.0 6.1 150.08 0.3 60.0 110.6 100.5 10.08 10.969 4,200.0 4,198.2 4,197.3 4,197.3 6.1 6.2 151.25 0.3 60.0 114.7 104.3 10.33 11.098 4,300.0 4,298.1 4,297.2 4,297.2 6.2 6.3 152.34 0.3 60.0 118.8 108.2 10.59 11.224 4,400.0 4,398.0 4,397.1 4,397.1 6.3 6.5 153.36 0.3 60.0 127.2 116.1 11.09 11.468 4,600.0 4,597.8 4,596.9 4,596.9 6.6 6.7 155.20 0.3 60.0 135.8 124.2 11.60 11.703	3,300.0	3,299.2	3,298.3	3,298.3	5.2	5.2	136.54	0.3	60.0	80.2	72.0	8.13	9.862		
3,600.0 3,598.9 3,598.0 3,598.0 5.5 5.5 142.67 0.3 60.0 90.9 82.1 8.83 10.295 3,700.0 3,698.8 3,697.9 3,697.9 5.6 5.7 144.39 0.3 60.0 94.7 85.6 9.08 10.434 3,800.0 3,798.7 3,797.8 3,797.8 5.7 5.8 145.99 0.3 60.0 98.6 89.3 9.33 10.571 3,900.0 3,898.5 3,897.6 3,897.6 5.8 5.9 147.46 0.3 60.0 102.5 92.9 9.58 10.706 4,000.0 3,998.4 3,997.5 3,997.5 5.9 6.0 148.82 0.3 60.0 106.5 96.7 9.83 10.839 4,100.0 4,098.3 4,097.4 4,097.4 6.0 6.1 150.08 0.3 60.0 110.6 100.5 10.08 10.969 4,200.0 4,198.2 4,197.3 4,197.3 6.1 6.2 151.25 0.3 60.0 114.7 104.3 10.33 11.0	3,400.0	3,399.1	3,398.2	3,398.2	5.3	5.3	138.76	0.3	60.0	83.6	75.3	8.36	10.009		
3,700.0 3,698.8 3,697.9 3,697.9 5.6 5.7 144.39 0.3 60.0 94.7 85.6 9.08 10.434 3,800.0 3,798.7 3,797.8 3,797.8 5.7 5.8 145.99 0.3 60.0 98.6 89.3 9.33 10.571 3,900.0 3,898.5 3,897.6 3,897.6 5.8 5.9 147.46 0.3 60.0 102.5 92.9 9.58 10.706 4,000.0 3,998.4 3,997.5 3,997.5 5.9 6.0 148.82 0.3 60.0 106.5 96.7 9.83 10.839 4,100.0 4,098.3 4,097.4 4,097.4 6.0 6.1 150.08 0.3 60.0 110.6 100.5 10.08 10.969 4,200.0 4,198.2 4,197.3 4,197.3 6.1 6.2 151.25 0.3 60.0 114.7 104.3 10.33 11.098 4,300.0 4,298.1 4,297.2 4,297.2 6.2 6.3 152.34 0.3 60.0 118.8 108.2 10.59 1	3,500.0	3,499.0	3,498.1	3,498.1	5.4	5.4	140.80	0.3	60.0	87.2	78.6	8.59	10.153		
3,700.0 3,698.8 3,697.9 3,697.9 5.6 5.7 144.39 0.3 60.0 94.7 85.6 9.08 10.434 3,800.0 3,798.7 3,797.8 3,797.8 5.7 5.8 145.99 0.3 60.0 98.6 89.3 9.33 10.571 3,900.0 3,898.5 3,897.6 3,897.6 5.8 5.9 147.46 0.3 60.0 102.5 92.9 9.58 10.706 4,000.0 3,998.4 3,997.5 3,997.5 5.9 6.0 148.82 0.3 60.0 106.5 96.7 9.83 10.839 4,100.0 4,098.3 4,097.4 4,097.4 6.0 6.1 150.08 0.3 60.0 110.6 100.5 10.08 10.969 4,200.0 4,198.2 4,197.3 4,197.3 6.1 6.2 151.25 0.3 60.0 114.7 104.3 10.33 11.098 4,300.0 4,298.1 4,297.2 4,297.2 6.2 6.3 152.34 0.3 60.0 118.8 108.2 10.59 1															
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4,100.0 4,098.3 4,097.4 4,097.4 6.0 6.1 150.08 0.3 60.0 110.6 100.5 10.08 10.969 4,200.0 4,198.2 4,197.3 4,197.3 6.1 6.2 151.25 0.3 60.0 114.7 104.3 10.33 11.098 4,300.0 4,298.1 4,297.2 4,297.2 6.2 6.3 152.34 0.3 60.0 118.8 108.2 10.59 11.224 4,400.0 4,398.0 4,397.1 4,397.1 6.3 6.5 153.36 0.3 60.0 123.0 112.2 10.84 11.347 4,500.0 4,497.9 4,497.0 6.5 6.6 154.31 0.3 60.0 127.2 116.1 11.09 11.468 4,600.0 4,597.8 4,596.9 4,596.9 6.6 6.7 155.20 0.3 60.0 131.5 120.1 11.35 11.587 4,700.0 4,697.7 4,696.8 4,696.8 6.7 6.8 156.03 0.3 60.0 135.8 124.2 11.60 11.703	3,900.0	3,898.5	3,897.6	3,897.6	5.8	5.9	147.46	0.3	60.0	102.5	92.9	9.58	10.706		
4,100.0 4,098.3 4,097.4 4,097.4 6.0 6.1 150.08 0.3 60.0 110.6 100.5 10.08 10.969 4,200.0 4,198.2 4,197.3 4,197.3 6.1 6.2 151.25 0.3 60.0 114.7 104.3 10.33 11.098 4,300.0 4,298.1 4,297.2 4,297.2 6.2 6.3 152.34 0.3 60.0 118.8 108.2 10.59 11.224 4,400.0 4,398.0 4,397.1 4,397.1 6.3 6.5 153.36 0.3 60.0 123.0 112.2 10.84 11.347 4,500.0 4,497.9 4,497.0 4,497.0 6.5 6.6 154.31 0.3 60.0 127.2 116.1 11.09 11.468 4,600.0 4,597.8 4,596.9 4,596.9 6.6 6.7 155.20 0.3 60.0 131.5 120.1 11.35 11.587 4,700.0 4,697.7 4,696.8 4,696.8 6.7 6.8 156.03 0.3 60.0 135.8 124.2 11.60	4,000.0	3,998.4	3,997.5	3,997.5	5.9	6.0	148.82	0.3	60.0	106.5	96.7	9.83	10.839		
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Anticollision Report

Database:

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft
Reference Wellbore OWB
Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Output errors are at

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Well GREEN BERET FED COM #702H

Grid

Survey Calculation Method: Minimum Curvature

2.00 sigma edm

	Offset D	esign	GREEI	N BERET	FED COM	M PROJ	ECT - GR	EEN BERET	FED COM	1 #801H -	OWB - F	WP1		Offset Site Error:	3.0 usft
	Survey Pro	ogram: 0-Si	tandard Keep	er 104, 123										Offset Well Error:	3.0 usft
					-										
					Reference	Offset								Warning	
Source S					(usft)	(usft)							Factor		
S2000 S1971 S1962 S1962 T.3 T.4 T.5 190.09 O.3 G.0 197.6 144.7 1247 1245									, ,			12 62	12 141		
5.000 5.00															
5,400, 5,980, 5,580, 5,580, 5,580, 5,580, 7,5 7,0 100,															
Section Sect		5,396.9	5,396.0	5,396.0	7.5	7.6	160.64	0.3	60.0	166.4	153.0	13.37	12.444		
5,700.0 5,696.6 5,096.5 5,096.3 7,8 8.0 160.01 6.0 63.8 178.2 164.3 13.80 12.894 5,000.0 5,786.4 5,786.5 5,786.1 8.0 8.1 158,24 12.1 68.0 181.1 167.2 13.88 13.039 6,000.0 5,786.2 5,786.1 5,877.1 8.2 8.3 154.85 24.4 78.2 187.4 173.5 13.80 13.289 6,000.0 5,786.2 5,786.1 5,877.1 8.2 8.3 154.85 24.4 78.2 187.4 173.5 13.80 13.289 6,000.0 6,960.0 6,787.7 6,960.2 8.4 8.5 151.70 36.6 84.5 182.2 30.5 80.2 198.6 178.9 13.89 13.738 6,000.0 6,960.0 6,977.7 6,900.2 8.4 8.5 151.70 36.6 84.5 184.5 187.4 173.5 13.89 13.738 6,000.0 6,960.0 6,977.7 6,900.2 8.4 8.5 151.70 36.6 84.5 184.5	5,500.0	5,496.8	5,495.9	5,495.9	7.6	7.8	161.17	0.3	60.0	170.9	157.2	13.63	12.539		
5,800,0 6,706,4 5,708,5 5,708,1 8.0 8.1 158,24 12.1 08.0 191.1 167.2 13.89 13.059 6,000,0 5,966,2 5,986,3 5,986,3 6,867,6 6.1 8.2 8.3 154,86 24.4 76.2 187.4 173.5 13.89 13.493 6,000,0 5,966,2 5,986,1 5,987,1 8.2 8.3 154,86 24.4 76.2 187.4 173.5 13.89 13.493 6,000,0 6,006,1 6,097,9 6,006,6 8.3 8.4 153.25 30.5 80.3 180.8 175.9 13.89 13.799 6,000,0 6,006,0 6,986,1 6,987,9 6,006,6 8.3 8.4 153.25 30.5 80.3 180.8 175.9 13.89 13.799 6,000,0 6,306,0 8,307,3 6,395,2 8.7 8.7 148,77 48.9 92,7 201.8 187.9 13.89 14.820 6,000,0 6,306,0 8,696,0 8,696,0 8,696,0 8,896,0 8,996,0	5,600.0	5,596.7	5,597.2	5,597.2	7.7	7.9	161.15	1.6	60.9	174.9	161.1	13.82	12.662		
5,800,0 6,706,4 5,708,5 5,708,1 8.0 8.1 158,24 12.1 08.0 191.1 167.2 13.89 13.059 6,000,0 5,966,2 5,986,3 5,986,3 6,867,6 6.1 8.2 8.3 154,86 24.4 76.2 187.4 173.5 13.89 13.493 6,000,0 5,966,2 5,986,1 5,987,1 8.2 8.3 154,86 24.4 76.2 187.4 173.5 13.89 13.493 6,000,0 6,006,1 6,097,9 6,006,6 8.3 8.4 153.25 30.5 80.3 180.8 175.9 13.89 13.799 6,000,0 6,006,0 6,986,1 6,987,9 6,006,6 8.3 8.4 153.25 30.5 80.3 180.8 175.9 13.89 13.799 6,000,0 6,306,0 8,307,3 6,395,2 8.7 8.7 148,77 48.9 92,7 201.8 187.9 13.89 14.820 6,000,0 6,306,0 8,696,0 8,696,0 8,696,0 8,896,0 8,996,0	5 700 0	5 696 6	5 698 5	5 698 3	7.8	8.0	160.01	6.0	63.8	178 2	164.3	13.89	12 834		
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9,200.0 9,192.7 9,191.7 9,182.0 12.1 12.0 124.59 220.6 208.3 339.6 323.9 15.74 21.580 9,300.0 9,292.6 9,291.6 9,281.5 12.3 12.1 124.10 226.8 212.4 345.2 329.3 15.87 21.757 9,400.0 9,392.5 9,391.4 9,381.1 12.4 12.2 123.62 232.9 216.6 350.8 334.8 16.00 21.928 9,500.0 9,492.3 9,491.2 9,480.6 12.5 12.3 123.16 239.0 220.7 356.4 340.2 16.13 22.093 9,600.0 9,592.2 9,591.0 9,580.1 12.6 12.4 122.72 245.2 224.8 362.0 345.7 16.27 22.254 9,700.0 9,692.1 9,690.8 9,679.6 12.8 12.6 122.29 251.3 229.0 367.7 351.3 16.41 22.410 9,800.0 9,792.0 9,790.6 9,779.2 12.9 12.7 121.87 257.4 233.1 373.3 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>															
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9,400.0 9,392.5 9,391.4 9,381.1 12.4 12.2 123.62 232.9 216.6 350.8 334.8 16.00 21.928 9,500.0 9,492.3 9,491.2 9,480.6 12.5 12.3 123.16 239.0 220.7 356.4 340.2 16.13 22.093 9,600.0 9,592.2 9,591.0 9,580.1 12.6 12.4 122.72 245.2 224.8 362.0 345.7 16.27 22.254 9,700.0 9,692.1 9,690.8 9,679.6 12.8 12.6 122.29 251.3 229.0 367.7 351.3 16.41 22.410 9,800.0 9,792.0 9,790.6 9,779.2 12.9 12.7 121.87 257.4 233.1 373.3 356.8 16.55 22.561 9,900.0 9,891.9 9,890.4 9,878.7 13.0 12.8 121.46 263.6 237.2 379.0 362.4 16.69 22.707 10,000.0 9,991.8 9,990.2 9,978.2 13.1 12.9 121.07 269.7 241.3 384.8 <															
9,500.0 9,492.3 9,491.2 9,480.6 12.5 12.3 123.16 239.0 220.7 356.4 340.2 16.13 22.093 9,600.0 9,592.2 9,591.0 9,580.1 12.6 12.4 122.72 245.2 224.8 362.0 345.7 16.27 22.254 9,700.0 9,692.1 9,690.8 9,679.6 12.8 12.6 122.29 251.3 229.0 367.7 351.3 16.41 22.410 9,800.0 9,792.0 9,790.6 9,779.2 12.9 12.7 121.87 257.4 233.1 373.3 356.8 16.55 22.561 9,900.0 9,891.9 9,890.4 9,878.7 13.0 12.8 121.46 263.6 237.2 379.0 362.4 16.69 22.707 10,000.0 9,991.8 9,990.2 9,978.2 13.1 12.9 121.07 269.7 241.3 384.8 367.9 16.84 22.849 10,100.0 10,091.7 10,090.0 10,077.7 13.3 13.0 120.68 275.8 245.5 390.5															
9,600.0 9,592.2 9,591.0 9,580.1 12.6 12.4 122.72 245.2 224.8 362.0 345.7 16.27 22.254 9,700.0 9,692.1 9,690.8 9,679.6 12.8 12.6 122.29 251.3 229.0 367.7 351.3 16.41 22.410 9,800.0 9,792.0 9,790.6 9,779.2 12.9 12.7 121.87 257.4 233.1 373.3 356.8 16.55 22.561 9,900.0 9,891.9 9,890.4 9,878.7 13.0 12.8 121.46 263.6 237.2 379.0 362.4 16.69 22.707 10,000.0 9,991.8 9,990.2 9,978.2 13.1 12.9 121.07 269.7 241.3 384.8 367.9 16.84 22.849 10,100.0 10,091.7 10,090.0 10,077.7 13.3 13.0 120.68 275.8 245.5 390.5 373.5 16.99 22.987															
9,700.0 9,692.1 9,690.8 9,679.6 12.8 12.6 122.29 251.3 229.0 367.7 351.3 16.41 22.410 9,800.0 9,792.0 9,790.6 9,779.2 12.9 12.7 121.87 257.4 233.1 373.3 356.8 16.55 22.561 9,900.0 9,891.9 9,890.4 9,878.7 13.0 12.8 121.46 263.6 237.2 379.0 362.4 16.69 22.707 10,000.0 9,991.8 9,990.2 9,978.2 13.1 12.9 121.07 269.7 241.3 384.8 367.9 16.84 22.849 10,100.0 10,091.7 10,090.0 10,077.7 13.3 13.0 120.68 275.8 245.5 390.5 373.5 16.99 22.987															
9,800.0 9,792.0 9,790.6 9,779.2 12.9 12.7 121.87 257.4 233.1 373.3 356.8 16.55 22.561 9,900.0 9,891.9 9,890.4 9,878.7 13.0 12.8 121.46 263.6 237.2 379.0 362.4 16.69 22.707 10,000.0 9,991.8 9,990.2 9,978.2 13.1 12.9 121.07 269.7 241.3 384.8 367.9 16.84 22.849 10,100.0 10,091.7 10,090.0 10,077.7 13.3 13.0 120.68 275.8 245.5 390.5 373.5 16.99 22.987	9,600.0	9,592.2	9,591.0	9,580.1	12.6	12.4	122.72	245.2	224.8	362.0	345.7	16.27	22.254		
9,800.0 9,792.0 9,790.6 9,779.2 12.9 12.7 121.87 257.4 233.1 373.3 356.8 16.55 22.561 9,900.0 9,891.9 9,890.4 9,878.7 13.0 12.8 121.46 263.6 237.2 379.0 362.4 16.69 22.707 10,000.0 9,991.8 9,990.2 9,978.2 13.1 12.9 121.07 269.7 241.3 384.8 367.9 16.84 22.849 10,100.0 10,091.7 10,090.0 10,077.7 13.3 13.0 120.68 275.8 245.5 390.5 373.5 16.99 22.987	9.700 0	9,692.1	9,690.8	9,679.6	12.8	12.6	122.29	251.3	229.0	367 7	351.3	16.41	22.410		
9,900.0 9,891.9 9,890.4 9,878.7 13.0 12.8 121.46 263.6 237.2 379.0 362.4 16.69 22.707 10,000.0 9,991.8 9,990.2 9,978.2 13.1 12.9 121.07 269.7 241.3 384.8 367.9 16.84 22.849 10,100.0 10,091.7 10,090.0 10,077.7 13.3 13.0 120.68 275.8 245.5 390.5 373.5 16.99 22.987															
10,000.0 9,991.8 9,990.2 9,978.2 13.1 12.9 121.07 269.7 241.3 384.8 367.9 16.84 22.849 10,100.0 10,091.7 10,090.0 10,077.7 13.3 13.0 120.68 275.8 245.5 390.5 373.5 16.99 22.987															
10,100.0 10,091.7 10,090.0 10,077.7 13.3 13.0 120.68 275.8 245.5 390.5 373.5 16.99 22.987															
10,200.0 10,191.6 10,189.8 10,177.3 13.4 13.2 120.31 282.0 249.6 396.2 379.1 17.14 23.121	10,100.0	10,091.7	10,090.0		13.3	13.0		275.8	245.5	390.5	373.5	16.99	22.987		
10,200.0 10,191.6 10,189.8 10,177.3 13.4 13.2 120.31 282.0 249.6 396.2 379.1 17.14 23.121	40.555	10 (5)	10 : :	40.4== 5			40000		a.a				00.10		
	10,200.0	10,191.6	10,189.8	10,177.3	13.4	13.2	120.31	282.0	249.6	396.2	379.1	17.14	23.121		

Anticollision Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft
Reference Wellbore OWB
Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference:

North Reference:

Survey Calculation Method: Output errors are at

Database:

Offset TVD Reference:

Well GREEN BERET FED COM #702H

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Grid

Minimum Curvature

2.00 sigma edm Offset Datum

Offset D	esign	GREE	N BERET	FED COM	л PROJ	ECT - GR	EEN BERET	FED COM	1 #801H -	OWB - F	WP1		Offset Site Error:	3.0 ust
-	_	•		78-MWD+IFR					-				Offset Well Error:	3.0 us
Refer leasured		Offs Measured	et Vertical	Semi Major Reference	r Axis Offset	Highside	Offset Wellbo	ra Cantra	Dista Between	ance Between	Minimum	Separation	10/a	
Depth	Depth	Depth	Depth	Kelefelice	Oliset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
10,300.0	10,291.5	10,289.6	10,276.8	13.5	13.3	119.95	288.1	253.7	402.0	384.7	17.29	23.250		
10,400.0	10,391.3	10,389.4	10,376.3	13.6	13.4	119.60	294.2	257.9	407.8	390.3		23.376		
10,500.0	10,491.2	10,489.2	10,475.9	13.8	13.5	119.26	300.4	262.0	413.6	396.0		23.498		
10,600.0	10,591.1 10,691.0	10,589.0	10,575.4	13.9	13.6	118.93	306.5	266.1 270.2	419.4 425.2	401.6		23.616		
10,700.0 10,800.0	10,790.9	10,688.8 10,788.6	10,674.9 10,774.4	14.0 14.1	13.8 13.9	118.61 118.29	312.6 318.8	270.2	423.2	407.3 413.0		23.731 23.842		
10,000.0	10,100.0	10,100.0	.0,		10.0	110.20	0.0.0				10.00	20.0.2		
10,900.0	10,890.8	10,888.4	10,874.0	14.3	14.0	117.99	324.9	278.5	436.9	418.7	18.24	23.951		
11,000.0	10,990.7	10,988.2	10,973.5	14.4	14.1	117.69	331.0	282.6	442.8	424.4		24.056		
11,100.0	11,090.6	11,088.0	11,073.0	14.5	14.3	117.40	337.2	286.8	448.6	430.1	18.57	24.158		
11,200.0 11,300.0	11,190.5 11,290.4	11,187.8 11,287.6	11,172.6 11,272.1	14.7 14.8	14.4 14.5	117.12 116.84	343.3 349.4	290.9 295.0	454.5 460.4	435.8 441.5		24.257 24.354		
11,500.0	11,230.4	11,207.0	11,272.1	14.0	14.5	110.04	545.4	233.0	700.7	441.5	10.51	24.004		
11,400.0	11,390.2	11,387.4	11,371.6	14.9	14.6	116.57	355.6	299.1	466.3	447.3		24.448		
11,500.0	11,490.1	11,487.2	11,471.1	15.0	14.8	116.31	361.7	303.3	472.2	453.0		24.539		
11,600.0	11,590.0	11,587.0	11,570.7	15.2	14.9	116.06	367.8	307.4	478.2			24.627		
11,700.0 11,800.0	11,689.9 11,789.8	11,686.8 11,786.6	11,670.2 11,769.7	15.3 15.4	15.0 15.1	115.81 115.57	374.0 380.1	311.5 315.6	484.1 490.0	464.5 470.3		24.713 24.797		
11,000.0	11,709.0	11,700.0	11,709.7	15.4	10.1	110.01	300.1	313.0	490.0	410.3	19.70	4.131		
11,900.0	11,889.7	11,886.4	11,869.2	15.5	15.3	115.33	386.2	319.8	496.0	476.1	19.94	24.879		
12,000.0	11,989.6	11,986.2	11,968.8	15.7	15.4	115.10	392.4	323.9	502.0	481.8		24.958		
12,100.0	12,089.5	12,086.0	12,068.3	15.8	15.5	114.87	398.5	328.0	507.9	487.6		25.035		
12,135.5	12,124.9	12,121.4	12,103.6	15.8	15.5	114.80	400.7	329.5	510.0	489.7		25.069		
12,150.0	12,139.4	12,135.9	12,118.1	15.8	15.6	146.80	401.6	330.1	510.9	490.5	20.36	25.094		
12,175.0	12,164.4	12,160.8	12,142.9	15.8	15.6	-113.28	403.1	331.1	512.4	492.0	20.38	25.139		
12,200.0	12,189.3	12,185.5	12,167.6	15.8	15.6	-99.79	404.6	332.2	513.8	493.4	20.40	25.184		
12,225.0	12,214.2	12,210.1	12,192.0	15.8	15.7	-96.06	406.1	333.2	515.2	494.8	20.42	25.231		
	12,238.8	12,234.4	12,216.3	15.8	15.7	-94.59	407.6	334.2	516.7	496.2	20.44	25.277		
12,275.0	12,263.2	12,258.3	12,240.1	15.9	15.7	-94.04	409.1	335.2	518.2	497.7	20.46	25.324		
12 300 0	12,287.2	12,281.9	12,263.6	15.9	15.8	-93.98	410.5	336.1	519.8	499.3	20.49	25.369		
12,325.0	12,310.9	12,305.0	12,286.7	15.9	15.8	-94.22	411.9	337.1	521.5	501.0		25.414		
12,350.0	12,334.1	12,327.5	12,309.2	15.9	15.8	-94.66	413.3	338.0	523.5	503.0		25.456		
12,375.0	12,356.8	12,349.5	12,331.1	15.9	15.8	-95.23	414.7	338.9	525.8	505.2	20.62	25.495		
12,400.0	12,378.9	12,370.8	12,352.3	15.9	15.9	-95.88	416.0	339.8	528.4	507.7	20.70	25.530		
12,425.0	12,400.4	12,394.4	12,375.8	15.9	15.9	-96.73	417.1	340.8	531.4	510.7	20.76	25.599		
12,450.0		12,419.4	12,400.8	15.9	15.9	-97.66	416.9	341.8	534.7	513.9		25.688		
	12,441.2	12,445.3	12,426.7	15.9	15.9	-98.61	415.4	342.9	538.3	517.4		25.772		
12,500.0	12,460.4	12,472.2	12,453.4	15.9	15.9	-99.59	412.4	344.1	542.2	521.2		25.833		
	12,478.8	12,500.3	12,481.0	16.0	15.9	-100.59	407.6	345.3	546.3	525.1	21.13	25.857		
10 550 0	40.400.0	10 500 0	10 500 5	40.0	45.0	101.01	400.0	040.0	550.0	500.0	04.00	05.000		
12,550.0	12,496.2 12,512.7	12,529.6	12,509.5	16.0 16.0	15.9	-101.61	400.9	346.6	550.6 555.1	529.3 533.5		25.826 25.719		
-	12,512.7	12,560.3 12,592.5		16.0 16.0	15.9 15.9	-102.65 -103.70	392.0 380.7	347.9 349.2	555.1 559.7			25.719 25.521		
	12,526.1	12,626.5		16.0	15.9	-103.70	366.6	350.7	564.4	542.0		25.218		
	12,555.9	12,662.3	12,631.2	16.0	15.9	-105.85	349.3	352.1	569.1	546.2		24.805		
	12,568.1	12,700.1	12,662.8	16.1	15.9	-106.93	328.6	353.7	573.8	550.2		24.288		
	12,579.1		12,694.4	16.1	16.0	-108.00	304.1	355.2	578.4	554.0		23.682		
	12,589.0 12,597.7	12,782.5	12,725.4	16.1	16.0	-109.05	275.3	356.8	582.8	557.5		23.012		
	12,597.7	12,827.2 12,874.3	12,755.2 12,783.2	16.1 16.1	16.0 16.1	-110.05 -110.98	242.1 204.2	358.3 359.8	586.9 590.7	560.6 563.3		22.312 21.616		
12,113.0	12,000. I	12,014.3	14,103.2	10.1	10.1	-110.90	204.2	338.0	390.7	303.3	21.33	21.010		
12,800.0	12,611.2	12,923.7	12,808.4	16.1	16.1	-111.82	161.7	361.3	593.9	565.6	28.34	20.958		
12,825.0	12,616.1	12,975.3	12,829.8	16.1	16.1	-112.54	114.9	362.6	596.6	567.4		20.372		
	12,619.7	13,028.8	12,846.5	16.2	16.2	-113.09	64.2	363.8	598.7	568.6	30.12	19.881		
	12,621.9	13,083.6	12,857.7	16.2	16.2	-113.46	10.5	364.7	600.1	569.3		19.505		
12,900.0	12,622.9	13,139.2	12,862.7	16.2	16.2	-113.63	-44.8	365.4	600.7	569.5	31.20	19.254		
12 903 6	12,623.0	13,147.2	12 862 0	16.2	16.2	-113.64	-52.8	365.5	600.7	569.5	31.24	19.229		

Anticollision Report

Database:

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft Reference Wellbore OWB Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Output errors are at

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Well GREEN BERET FED COM #702H

Survey Calculation Method: Minimum Curvature

> 2.00 sigma edm

Offset De Survey Prog Refere Measured Depth (usft) 13,000.0 13,100.0 13,200.0 13,400.0 13,500.0	gram: 0-S ence		er 104, 123	78-MWD+IFR Semi Major Reference	1+FDIR	Highside	EEN BERET		Dista				Offset Well Error:	3.0 usft
Measured Depth (usft) 13,000.0 13,100.0 13,200.0 13,300.0 13,400.0	Vertical Depth (usft) 12,623.5 12,624.0 12,624.6	Measured Depth (usft)	Vertical Depth			Highside	055 4 114 111		Dista	ance				
Depth (usft) 13,000.0 13,100.0 13,200.0 13,300.0 13,400.0	Depth (usft) 12,623.5 12,624.0 12,624.6	Depth (usft)	Depth	Reference	Offset	Highside								
(usft) 13,000.0 13,100.0 13,200.0 13,300.0 13,400.0	(usft) 12,623.5 12,624.0 12,624.6	(usft)					Offset Wellbo		Between		Minimum		Warning	
13,100.0 13,200.0 13,300.0 13,400.0	12,624.0 12,624.6	13,246.2		(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
13,100.0 13,200.0 13,300.0 13,400.0	12,624.0 12,624.6		12,863.5	16.2	16.2	-113.64	-151.8	366.4	600.7	569.0	31.73	18.930		
13,200.0 13,300.0 13,400.0	12,624.6	13,346.2	12,864.0	16.3	16.3	-113.64	-251.8	367.3	600.7	568.4	32.31	18.593		
13,300.0 13,400.0		13,446.2	12,864.6	16.3	16.3	-113.64	-351.8	368.3	600.7	567.7	32.96	18.225		
13,400.0		13,546.2	12,865.1	16.4	16.4	-113.64	-451.8	369.2	600.7	567.0	33.69	17.831		
	12,625.7	13,646.2	12,865.7	16.5	16.5	-113.64	-551.8	370.1	600.7	566.2	34.48	17.420		
,,,,,,,	12,626.2	13,746.2	12,866.2	16.6	16.6	-113.64	-651.8	371.0	600.7	565.3	35.34	16.996		
	,	,	,											
13,600.0	12,626.7	13,846.2	12,866.8	16.8	16.8	-113.65	-751.8	372.0	600.7	564.4	36.26	16.565		
13,700.0	12,627.3	13,946.2	12,867.3	17.0	17.0	-113.65	-851.8	372.9	600.7	563.4	37.24	16.131		
13,800.0	12,627.8	14,046.2	12,867.8	17.3	17.3	-113.65	-951.8	373.8	600.7	562.4	38.26	15.699		
13,900.0	12,628.4	14,146.2	12,868.4	17.6	17.7	-113.65	-1,051.8	374.7	600.7	561.3	39.33	15.271		
14,000.0	12,628.9	14,246.2	12,868.9	18.0	18.2	-113.65	-1,151.8	375.7	600.7	560.2	40.45	14.850		
14 100 0	10.000 F	14 246 2	10.000 F	10.5	10.7	112.65	1.051.0	276.6	600.7	550.0	44.60	14 400		
14,100.0	12,629.5	14,346.2	12,869.5	18.5	18.7	-113.65	-1,251.8 1 351 8	376.6 377.5	600.7	559.0	41.60	14.438		
14,200.0	12,630.0	14,446.2	12,870.0	19.1	19.3	-113.65	-1,351.8	377.5	600.6	557.9	42.79	14.036		
14,300.0	12,630.6	14,546.2	12,870.6	19.7	20.0	-113.65	-1,451.7	378.4	600.6	556.6	44.02	13.645		
14,400.0	12,631.1	14,646.2	12,871.1 12,871.7	20.4	20.6	-113.65	-1,551.7	379.3	600.6	555.4	45.27	13.267		
14,500.0	12,631.7	14,746.2	12,071.7	21.1	21.3	-113.65	-1,651.7	380.3	600.6	554.1	46.56	12.901		
14,600.0	12,632.2	14,846.2	12,872.2	21.8	22.0	-113.65	-1,751.7	381.2	600.6	552.8	47.87	12.547		
14,700.0	12,632.7	14,946.2	12,872.7	22.5	22.8	-113.65	-1,851.7	382.1	600.6	551.4	49.20	12.207		
14,800.0	12,633.3	15,046.2	12,873.3	23.2	23.5	-113.65	-1,951.7	383.0	600.6	550.1	50.56	11.880		
14,900.0	12,633.8	15,146.2	12,873.8	24.0	24.3	-113.65	-2,051.7	384.0	600.6	548.7	51.93	11.565		
15,000.0	12,634.4	15,246.2	12,874.4	24.8	25.0	-113.65	-2,151.7	384.9	600.6	547.3	53.33	11.262		
10,000.0	12,004.4	10,240.2	12,014.4	24.0	20.0	110.00	2,101.7	004.0	000.0	0-17.0	00.00	11.202		
15,100.0	12,634.9	15,346.2	12,874.9	25.5	25.8	-113.65	-2,251.7	385.8	600.6	545.9	54.74	10.972		
15,200.0	12,635.5	15,446.2	12,875.5	26.3	26.6	-113.65	-2,351.7	386.7	600.6	544.4	56.17	10.693		
15,300.0	12,636.0	15,546.2	12,876.0	27.1	27.3	-113.65	-2,451.7	387.7	600.6	543.0	57.61	10.425		
15,400.0	12,636.6	15,646.2	12,876.6	27.9	28.1	-113.65	-2,551.7	388.6	600.6	541.5	59.07	10.167		
15,500.0	12,637.1	15,746.2	12,877.1	28.7	28.9	-113.65	-2,651.7	389.5	600.6	540.0	60.54	9.920		
15,600.0	12,637.7	15,846.2	12,877.7	29.5	29.7	-113.65	-2,751.7	390.4	600.6	538.6	62.02	9.683		
15,700.0	12,638.2	15,946.2	12,878.2	30.3	30.5	-113.65	-2,851.7	391.4	600.6	537.1	63.51	9.456		
15,800.0	12,638.7	16,046.2	12,878.7	31.1	31.3	-113.65	-2,951.7	392.3	600.6	535.6	65.02	9.237		
15,900.0	12,639.3	16,146.2	12,879.3	31.9	32.1	-113.65	-3,051.7	393.2	600.6	534.0	66.53	9.027		
16,000.0	12,639.8	16,246.2	12,879.8	32.7	33.0	-113.65	-3,151.6	394.1	600.6	532.5	68.05	8.825		
10 100 0	100101	400400	40.000.4	00.0	00.0	440.05	0.054.0	205.0	200.0	504.0	00.50	0.004		
16,100.0	12,640.4	16,346.2	12,880.4	33.6	33.8	-113.65	-3,251.6	395.0	600.6	531.0	69.58	8.631		
16,200.0	12,640.9	16,446.2	12,880.9	34.4	34.6	-113.65	-3,351.6	396.0	600.6	529.4	71.12	8.445		
16,300.0	12,641.5	16,546.2	12,881.5	35.2	35.4	-113.65	-3,451.6	396.9	600.5	527.9	72.66	8.265		
16,400.0	12,642.0	16,646.2	12,882.0	36.0	36.2	-113.65	-3,551.6	397.8	600.5	526.3	74.21	8.092		
16,500.0	12,642.6	16,746.2	12,882.6	36.9	37.1	-113.65	-3,651.6	398.7	600.5	524.8	75.77	7.926		
16,600.0	12,643.1	16,846.2	12,883.1	37.7	37.9	-113.65	-3,751.6	399.7	600.5	523.2	77.34	7.765		
16,700.0	12,643.1	16,946.2	12,883.6	38.5	38.7	-113.65	-3,751.6 -3,851.6	400.6	600.5	523.2 521.6	77.3 4 78.91	7.765		
16,700.0	12,644.2	17,046.2	12,884.2	39.4	39.5	-113.65	-3,951.6	400.6	600.5	520.0	80.48	7.462		
	12,644.2		12,884.7	39.4 40.2	39.5 40.4	-113.65	-3,951.6 -4,051.6	401.5	600.5	518.5	82.06	7.462		
	12,644.7							402.4						
17,000.0	12,040.3	17,246.2	12,000.3	41.0	41.2	-113.65	-4,151.6	403.4	600.5	516.9	83.65	7.179		
17,100.0	12,645.8	17,346.2	12,885.8	41.9	42.0	-113.65	-4,251.6	404.3	600.5	515.3	85.24	7.045		
17,200.0	12,646.4	17,446.2	12,886.4	42.7	42.9	-113.65	-4,351.6	405.2	600.5	513.7	86.83	6.916		
17,300.0	12,646.9	17,546.2	12,886.9	43.5	43.7	-113.65	-4,451.6	406.1	600.5	512.1	88.43	6.791		
17,400.0	12,647.5	17,646.2	12,887.5	44.4	44.5	-113.65	-4,551.6	407.1	600.5	510.5	90.03	6.670		
17,500.0	12,648.0	17,746.2	12,888.0	45.2	45.4	-113.65	-4,651.6	408.0	600.5	508.9	91.63	6.553		
17,500.0	12,040.0	11,170.2	12,000.0	70.2	70.7	110.00	-7,001.0	+00.0	000.5	300.9	31.03	0.000		
17,600.0	12,648.6	17,846.2	12,888.5	46.1	46.2	-113.65	-4,751.6	408.9	600.5	507.2	93.24	6.440		
17,700.0	12,649.1	17,946.2	12,889.1	46.9	47.1	-113.65	-4,851.6	409.8	600.5	505.6	94.85	6.331		
17,800.0	12,649.6	18,046.2	12,889.6	47.7	47.9	-113.65	-4,951.5	410.7	600.5	504.0	96.47	6.225		
17,900.0	12,650.2	18,146.2	12,890.2	48.6	48.7	-113.65	-5,051.5	411.7	600.5	502.4	98.09	6.122		
18,000.0	12,650.7	18,246.2	12,890.7	49.4	49.6	-113.65	-5,151.5	412.6	600.5	500.8	99.71	6.022		
							.,	-						
18,100.0	12,651.3	18,346.2	12,891.3	50.3	50.4	-113.65	-5,251.5	413.5	600.5	499.1	101.33	5.926		

Anticollision Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft
Reference Wellbore OWB
Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:

North Reference: Survey Calculation Method:

Output errors are at Database:

Offset TVD Reference:

tion Method: Minimum Curvature

2.00 sigma edm

Well GREEN BERET FED COM #702H

KB=26' @ 3308.4usft (MCVAY 8)

KB=26' @ 3308.4usft (MCVAY 8)

Offset Datum

Offset D	esign	GREEI	N BERET	FED COM	/ PROJ	ECT - GR	EEN BERET	FED COM	I #801H -	OWB - P	WP1		Offset Site Error:	3.0 usf
urvey Pro	gram: 0-S	tandard Keep	er 104, 123	78-MWD+IFR	1+FDIR								Offset Well Error:	3.0 us
Refer	ence	Offs	et	Semi Major	r Axis				Dista	ance				
leasured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbo +N/-S (usft)	re Centre +E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
18,200.0	12,651.8	18,446.2	12,891.8	51.1	51.3	-113.65	-5,351.5	414.4	600.5	497.5	102.96	5.832		
18,300.0	12,652.4	18,546.2	12,892.4	52.0	52.1	-113.65	-5,451.5	415.4	600.5	495.9	104.59	5.741		
18,400.0	12,652.9	18,646.2	12,892.9	52.8	53.0	-113.65	-5,551.5	416.3	600.4	494.2	106.22	5.653		
18,500.0	12,653.5	18,746.2	12,893.5	53.7	53.8	-113.65	-5,651.5	417.2	600.4	492.6	107.85	5.567		
18,600.0	12,654.0	18,846.2	12,894.0	54.5	54.6	-113.65	-5,751.5	418.1	600.4	491.0	109.48	5.484		
18,700.0	12,654.6	18,946.2	12,894.5	55.4	55.5	-113.65	-5,851.5	419.1	600.4	489.3	111.12	5.403		
18,800.0	12,655.1	19,046.2	12,895.1	56.2	56.3	-113.65	-5,951.5	420.0	600.4	487.7	112.76	5.325		
18,900.0	12,655.6	19,146.2	12,895.6	57.1	57.2	-113.65	-6,051.5	420.9	600.4	486.0	114.40	5.248		
19,000.0	12,656.2	19,246.2	12,896.2	57.9	58.0	-113.65	-6,151.5	421.8	600.4	484.4	116.04	5.174		
19,100.0	12,656.7	19,346.2	12,896.7	58.8	58.9	-113.65	-6,251.5	422.8	600.4	482.7	117.69	5.102		
19,200.0	12,657.3	19,446.2	12,897.3	59.6	59.7	-113.65	-6,351.5	423.7	600.4	481.1	119.33	5.031		
19,300.0	12,657.8	19,546.2	12,897.8	60.5	60.6	-113.65	-6,451.5	424.6	600.4	479.4	120.98	4.963		
19,400.0	12,658.4	19,646.2	12,898.4	61.3	61.4	-113.65	-6,551.5	425.5	600.4	477.8	122.63	4.896		
19,500.0	12,658.9	19,746.2	12,898.9	62.2	62.3	-113.65	-6,651.4	426.5	600.4	476.1	124.28	4.831		
19,600.0	12,659.5	19,846.2	12,899.4	63.0	63.1	-113.65	-6,751.4	427.4	600.4	474.5	125.93	4.768		
19,700.0	12,660.0	19,946.2	12,900.0	63.9	64.0	-113.65	-6,851.4	428.3	600.4	472.8	127.58	4.706		
19,800.0	12,660.5	20,046.2	12,900.5	64.7	64.8	-113.66	-6,951.4	429.2	600.4	471.1	129.24	4.646		
19,900.0	12,661.1	20,146.2	12,901.1	65.6	65.7	-113.66	-7,051.4	430.1	600.4	469.5	130.89	4.587		
20,000.0	12,661.6	20,246.2	12,901.6	66.4	66.5	-113.66	-7,151.4	431.1	600.4	467.8	132.55	4.529		
20,100.0	12,662.2	20,346.2	12,902.2	67.3	67.4	-113.66	-7,251.4	432.0	600.4	466.2	134.21	4.474		
20,200.0	12,662.7	20,446.2	12,902.7	68.1	68.2	-113.66	-7,351.4	432.9	600.4	464.5	135.86	4.419		
20,249.9	12,663.0	20,496.2	12,903.0	68.5	68.7	-113.66	-7,401.3	433.4	600.4	463.8	136.56	4.396 9	SF	

Anticollision Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft
Reference Wellbore OWB
Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Well GREEN BERET FED COM #702H

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Output errors are at 2.00 sigma
Database: edm
Offset TVD Reference: Offset Datum

Reference Depths are relative to KB=26' @ 3308.4usft (MCVAY 8)

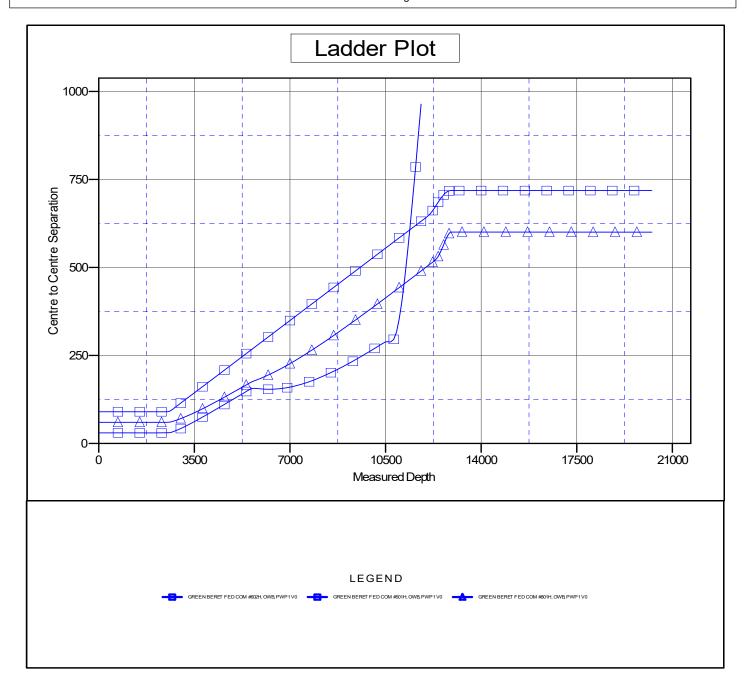
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: GREEN BERET FED COM #702H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.50°



Anticollision Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Reference Site: GREEN BERET FED COM PROJECT

Site Error: 3.0 usft

Reference Well: GREEN BERET FED COM #702H

Well Error: 3.0 usft
Reference Wellbore OWB
Reference Design: PWP1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Well GREEN BERET FED COM #702H

Grid

Survey Calculation Method: Minimum Curvature
Output errors are at 2.00 sigma

Output errors are at 2.00 s
Database: edm

Offset TVD Reference: Offset Datum

Reference Depths are relative to KB=26' @ 3308.4usft (MCVAY 8)

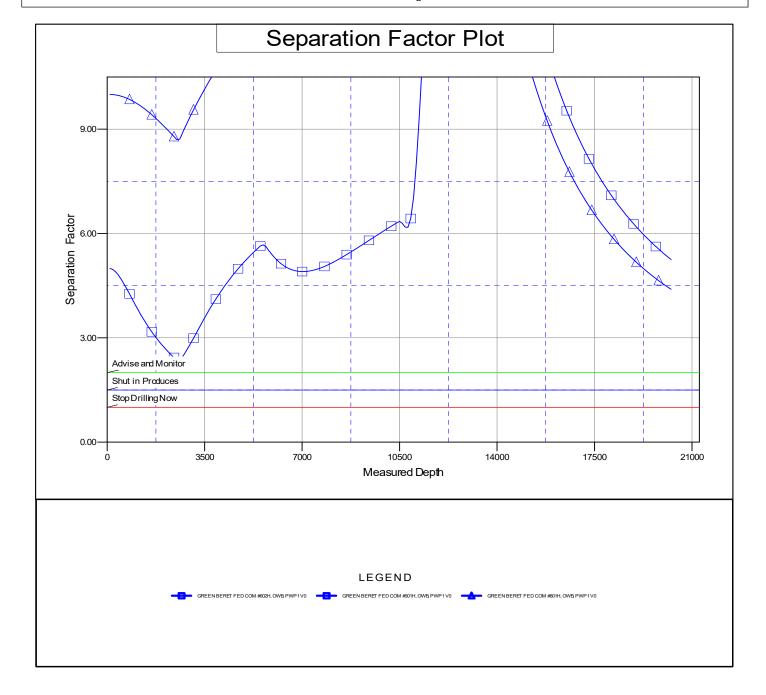
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: GREEN BERET FED COM #702H

Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30

Grid Convergence at Surface is: 0.50°



NORTHERN DELAWARE BASIN

LEA COUNTY, NM
GREEN BERET FED COM PROJECT
GREEN BERET FED COM #702H

OWB

Plan: PWP1

Standard Survey Report

17 February, 2020

Survey Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Site: GREEN BERET FED COM PROJECT
Well: GREEN BERET FED COM #702H

Wellbore: OWB

Design: PWP1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Database:

Well GREEN BERET FED COM #702H

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Grid

Minimum Curvature

edm

Project LEA COUNTY, NM

Map System: US State Plane 1927 (Exact solution)

Geo Datum: NAD 1927 (NADCON CONUS)

Map Zone: New Mexico East 3001

System Datum: Mean Sea Level

Well GREEN BERET FED COM #702H

Well Position +N/-S 0.0 usft **Northing**: 409,293.63 usft **Latitude**: 32° 7′ 18.232 N

+E/-W 0.0 usft **Easting**: 792,846.20 usft **Longitude**: 103° 23' 14.708 W

Position Uncertainty 3.0 usft Wellhead Elevation: usft Ground Level: 3,282.4 usft

Wellbore OWB

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 IGRF2015
 2/17/2020
 6.57
 59.96
 47,623.03599624

Design PWP1

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.0

Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°)

(usft) (usft) (usft) (°)
0.0 0.0 0.0 180.90

Survey Tool Program Date 2/7/2020

From To
(usft) (usft) Survey (Wellbore) Tool Name Description

 0.0
 12,135.0 PWP1 (OWB)
 Standard Keeper 104
 Standard Wireline Keeper ver 1.0.4

 12,135.0
 20,249.6 PWP1 (OWB)
 MWD+IFR1+FDIR
 OWSG MWD + IFR1 + FDIR Correction

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00

Survey Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Site: GREEN BERET FED COM PROJECT
Well: GREEN BERET FED COM #702H

Wellbore: OWB

Design: PWP1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Database:

Well GREEN BERET FED COM #702H

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Grid

Minimum Curvature

				Dutubust	•				
anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
Start Build		0.00	_,555.5	0.0	0.0	0.0	0.00	3.50	0.00
2,600.0	2.00	336.44	2,600.0	1.6	-0.7	-1.6	2.00	2.00	0.00
2,634.9	2.70	336.44	2,634.8	2.9	-1.3	- 2.9	2.00	2.00	0.00
	6 hold at 2634		2,004.0	2.5	-1.0	-2.5	2.00	2.00	0.00
2,700.0	2.70	336.44	2,699.9	5.7	-2.5	-5.7	0.00	0.00	0.00
2,800.0	2.70	336.44	2,799.8	10.0	-4.4	-10.0	0.00	0.00	0.00
2,900.0	2.70	336.44	2,899.7	14.3	-6.3	-14.2	0.00	0.00	0.00
3,000.0	2.70	336.44	2,999.5	18.7	-8.1	-18.5	0.00	0.00	0.00
3,100.0	2.70	336.44	3,099.4	23.0	-10.0	-22.8	0.00	0.00	0.00
3,200.0	2.70	336.44	3,199.3	27.3	-11.9	-27.1	0.00	0.00	0.00
3,300.0	2.70	336.44	3,299.2	31.6	-13.8	-31.4	0.00	0.00	0.00
3,400.0	2.70	336.44	3,399.1	35.9	-15.7	-35.7	0.00	0.00	0.00
3,500.0	2.70	336.44	3,499.0	40.2	-17.5	-39.9	0.00	0.00	0.00
3,600.0	2.70	336.44	3,598.9	44.5	-19.4	-44.2	0.00	0.00	0.00
3,700.0	2.70	336.44	3,698.8	48.9	-21.3	-48.5	0.00	0.00	0.00
3,800.0	2.70	336.44	3,798.7	53.2	-23.2	-52.8	0.00	0.00	0.00
3,900.0	2.70	336.44	3,898.5	57.5	-25.1	-57.1	0.00	0.00	0.00
4,000.0	2.70	336.44	3,998.4	61.8	-27.0	-61.4	0.00	0.00	0.00
4,100.0	2.70	336.44	4,098.3	66.1	-28.8	-65.6	0.00	0.00	0.00
4,200.0	2.70	336.44	4,198.2	70.4	-30.7	-69.9	0.00	0.00	0.00
4,300.0	2.70	336.44	4,298.1	74.7	-32.6	-74.2	0.00	0.00	0.00
4,400.0	2.70	336.44	4,398.0	79.0	-34.5	-78.5	0.00	0.00	0.00
4,500.0	2.70	336.44	4,497.9	83.4	-36.4	-82.8	0.00	0.00	0.00
4,600.0	2.70	336.44	4,497.9	87.7	-38.2	-87.1	0.00	0.00	0.00
4,700.0	2.70	336.44	4,597.6	92.0	-36.2 -40.1	-91.3	0.00	0.00	0.00
4,700.0	2.70	336.44	4,697.7 4,797.6	92.0 96.3	-40.1 -42.0	-91.3 -95.6	0.00	0.00	0.00
4,000.0	2.70	330.44	4,191.0	90.3	- 42.0	-95.0	0.00	0.00	0.00
4,900.0	2.70	336.44	4,897.4	100.6	-43.9	-99.9	0.00	0.00	0.00
5,000.0	2.70	336.44	4,997.3	104.9	-45.8	-104.2	0.00	0.00	0.00
5,100.0	2.70	336.44	5,097.2	109.2	-47.6	-108.5	0.00	0.00	0.00
5,200.0	2.70	336.44	5,197.1	113.6	-49.5	-112.8	0.00	0.00	0.00
5,300.0	2.70	336.44	5,297.0	117.9	-51.4	-117.0	0.00	0.00	0.00
5,400.0	2.70	336.44	5,396.9	122.2	-53.3	-121.3	0.00	0.00	0.00

Survey Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Site: GREEN BERET FED COM PROJECT
Well: GREEN BERET FED COM #702H

Wellbore: OWB

Design: PWP1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Database:

Well GREEN BERET FED COM #702H

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Grid

Minimum Curvature

sign: PW	/F I			Database) :		eam		
nned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,500.0	2.70	336.44	5,496.8	126.5	-55.2	-125.6	0.00	0.00	0.00
5,600.0	2.70	336.44	5,596.7	130.8	-57.1	-129.9	0.00	0.00	0.00
5,700.0	2.70	336.44	5,696.6	135.1	-58.9	-134.2	0.00	0.00	0.00
5,800.0	2.70	336.44	5,796.4	139.4	-60.8	-138.5	0.00	0.00	0.00
5,900.0	2.70	336.44	5,896.3	143.7	-62.7	-142.7	0.00	0.00	0.00
6,000.0	2.70	336.44	5,996.2	148.1	-64.6	-147.0	0.00	0.00	0.00
6,100.0	2.70	336.44	6,096.1	152.4	-66.5	-151.3	0.00	0.00	0.00
6,200.0	2.70	336.44	6,196.0	156.7	-68.3	-155.6	0.00	0.00	0.00
6,300.0	2.70	336.44	6,295.9	161.0	-70.2	-159.9	0.00	0.00	0.00
6,400.0	2.70	336.44	6,395.8	165.3	-72.1	-164.2	0.00	0.00	0.00
6,500.0	2.70	336.44	6,495.7	169.6	-74.0	-168.4	0.00	0.00	0.00
6,600.0	2.70	336.44	6,595.6	173.9	-75.9	-172.7	0.00	0.00	0.00
6,700.0	2.70	336.44	6,695.4	178.3	-77.7	-177.0	0.00	0.00	0.00
6,800.0	2.70	336.44	6,795.3	182.6	-79.6	-181.3	0.00	0.00	0.00
6,900.0	2.70	336.44	6,895.2	186.9	-81.5	-185.6	0.00	0.00	0.00
7,000.0	2.70	336.44	6,995.1	191.2	-83.4	-189.9	0.00	0.00	0.00
7,100.0	2.70	336.44	7,095.0	195.5	-85.3	-194.1	0.00	0.00	0.00
7,200.0	2.70	336.44	7,194.9	199.8	-87.2	-198.4	0.00	0.00	0.00
7,300.0	2.70	336.44	7,294.8	204.1	-89.0	-202.7	0.00	0.00	0.00
7,400.0	2.70	336.44	7,394.7	208.4	-90.9	-207.0	0.00	0.00	0.00
7,500.0	2.70	336.44	7,494.6	212.8	-92.8	-211.3	0.00	0.00	0.00
7,600.0	2.70	336.44	7,594.4	217.1	-94.7	-215.6	0.00	0.00	0.00
7,700.0	2.70	336.44	7,694.3	221.4	-96.6	-219.8	0.00	0.00	0.00
7,800.0	2.70	336.44	7,794.2	225.7	-98.4	-224.1	0.00	0.00	0.00
7,900.0	2.70	336.44	7,894.1	230.0	-100.3	-228.4	0.00	0.00	0.00
8,000.0	2.70	336.44	7,994.0	234.3	-102.2	-232.7	0.00	0.00	0.00
8,100.0	2.70	336.44	8,093.9	238.6	-104.1	-237.0	0.00	0.00	0.00
8,200.0	2.70	336.44	8,193.8	243.0	-106.0	-241.3	0.00	0.00	0.00
8,300.0	2.70	336.44	8,293.7	247.3	-107.8	-245.5	0.00	0.00	0.00
8,400.0	2.70	336.44	8,393.6	251.6	-109.7	-249.8	0.00	0.00	0.00
8,500.0	2.70	336.44	8,493.5	255.9	-111.6	-254.1	0.00	0.00	0.00
8,600.0	2.70	336.44	8,593.3	260.2	-113.5	-258.4	0.00	0.00	0.00
8,700.0	2.70	336.44	8,693.2	264.5	-115.4	-262.7	0.00	0.00	0.00
8,800.0	2.70	336.44	8,793.1	268.8	-117.3	-267.0	0.00	0.00	0.00
8,900.0	2.70	336.44	8,893.0	273.1	-119.1	-271.2	0.00	0.00	0.00
9,000.0	2.70	336.44	8,992.9	277.5	-121.0	-275.5	0.00	0.00	0.00
9,100.0	2.70	336.44	9,092.8	281.8	-122.9	-279.8	0.00	0.00	0.00
9,200.0	2.70	336.44	9,192.7	286.1	-124.8	-284.1	0.00	0.00	0.00
9,300.0	2.70	336.44	9,292.6	290.4	-126.7	-288.4	0.00	0.00	0.00
9,400.0	2.70	336.44	9,392.5	294.7	-128.5	-292.7	0.00	0.00	0.00
9,500.0	2.70	336.44	9,492.3	299.0	-130.4	-296.9	0.00	0.00	0.00
9,600.0	2.70	336.44	9,592.2	303.3	-132.3	-301.2	0.00	0.00	0.00
9,700.0	2.70	336.44	9,692.1	307.7	-134.2	-305.5	0.00	0.00	0.00
9,800.0	2.70	336.44	9,792.0	312.0	-136.1	-309.8	0.00	0.00	0.00

Survey Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Site: GREEN BERET FED COM PROJECT
Well: GREEN BERET FED COM #702H

Wellbore: OWB

Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Well GREEN BERET FED COM #702H

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Grid

Minimum Curvature

esign: PW	/P1			Database) .	•	eam		
lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
	0 =0			0400	40= 0				
9,900.0	2.70	336.44	9,891.9	316.3	-137.9	-314.1	0.00	0.00	0.00
10,000.0	2.70	336.44	9,991.8	320.6	-139.8	-318.4	0.00	0.00	0.00
10,100.0	2.70	336.44	10,091.7	324.9	-141.7	-322.6	0.00	0.00	0.00
10,200.0	2.70	336.44	10,191.6	329.2	-143.6	-326.9	0.00	0.00	0.00
10,300.0	2.70	336.44	10,291.5	333.5	-145.5	-331.2	0.00	0.00	0.00
10,400.0	2.70	336.44	10,391.3	337.8	-147.4	-335.5	0.00	0.00	0.00
10,500.0	2.70	336.44	10,491.2	342.2	-149.2	-339.8	0.00	0.00	0.00
10,600.0	2.70	336.44	10,591.1	346.5	-151.1	-344.1	0.00	0.00	0.00
10,700.0	2.70	336.44	10,691.0	350.8	-153.0	-348.3	0.00	0.00	0.00
10,800.0	2.70	336.44	10,790.9	355.1	-154.9	-352.6	0.00	0.00	0.00
10,900.0	2.70	336.44	10,890.8	359.4	-156.8	-356.9	0.00	0.00	0.00
11,000.0	2.70	336.44	10,990.7	363.7	-158.6	-361.2	0.00	0.00	0.00
11,100.0	2.70	336.44	11,090.6	368.0	-160.5	-365.5	0.00	0.00	0.00
11,200.0	2.70	336.44	11,190.5	372.4	-162.4	-369.8	0.00	0.00	0.00
11,300.0	2.70	336.44	11,290.4	376.7	-164.3	-374.0	0.00	0.00	0.00
11,400.0	2.70	336.44	11,390.2	381.0	-166.2	-378.3	0.00	0.00	0.00
11,500.0	2.70	336.44	11,490.1	385.3	-168.0	-382.6	0.00	0.00	0.00
11,600.0	2.70	336.44	11,590.0	389.6	-169.9	-386.9	0.00	0.00	0.00
11,700.0	2.70	336.44	11,689.9	393.9	-171.8	-391.2	0.00	0.00	0.00
11,800.0	2.70	336.44	11,789.8	398.2	-173.7	-395.4	0.00	0.00	0.00
11,900.0	2.70	336.44	11,889.7	402.5	-175.6	-399.7	0.00	0.00	0.00
12,000.0	2.70	336.44	11,989.6	406.9	-177.5	-404.0	0.00	0.00	0.00
12,100.0	2.70	336.44	12,089.5	411.2	-179.3	-408.3	0.00	0.00	0.00
12,135.5	2.70	336.44	12,124.9	412.7	-180.0	-409.8	0.00	0.00	0.00
•	12.00 TFO -150		,				0.00	0.00	0.00
12,200.0	5.37	190.78	12,189.3	411.1	-181.2	-408.2	12.00	4.14	-225.74
12,300.0	17.29	182.86	12,287.2	391.6	-182.8	-388.7	12.00	11.93	-7.92
12,400.0	29.28	181.35	12,378.9	352.2	-184.1	-349.2	12.00	11.99	-1.51
12,500.0	41.27	180.67	12,460.4	294.5	-185.1	-291.6	12.00	11.99	-0.68
12,600.0	53.27	180.25	12,528.1	221.2	-185.6	-218.3	12.00	12.00	-0.42
12,700.0	65.27	179.95	12,579.1	135.4	-185.8	-132.5	12.00	12.00	-0.30
12,800.0	77.26	179.70	12,611.2	40.9	-185.5	-38.0	12.00	12.00	-0.25
12,900.0	89.26	179.48	12,622.9	-58.2	-184.8	61.1	12.00	12.00	-0.23
12,903.6	89.69	179.47	12,623.0	-61.8	-184.7	64.7	12.00	12.00	-0.22
	4 hold at 1290								
13,000.0	89.69	179.47	12,623.5	-158.2	-183.8	161.1	0.00	0.00	0.00
13,100.0	89.69	179.47	12,624.0	-258.2	-182.9	261.1	0.00	0.00	0.00
13,200.0	89.69	179.47	12,624.6	-358.2	-182.0	361.0	0.00	0.00	0.00
13,300.0	89.69	179.47	12,625.1	-458.2	-181.0	461.0	0.00	0.00	0.00
13,400.0	89.69	179.47	12,625.7	-558.2	-180.1	561.0	0.00	0.00	0.00
13,500.0	89.69	179.47	12,626.2	-658.2	-179.2	660.9	0.00	0.00	0.00
13,600.0	89.69	179.47	12,626.7	-758.2	-178.3	760.9	0.00	0.00	0.00
10,000.0									

Survey Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Site: GREEN BERET FED COM PROJECT
Well: GREEN BERET FED COM #702H

Wellbore: OWB

Design: PWP1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Database:

Well GREEN BERET FED COM #702H

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Grid

Minimum Curvature

Design.		VFI			Databas	5.		-uiii		
Planned S	urvey									
D	asured epth usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
1	3,800.0	89.69	179.47	12,627.8	-958.2	-176.4	960.8	0.00	0.00	0.00
1	3,900.0	89.69	179.47	12,628.4	-1,058.2	-175.5	1,060.8	0.00	0.00	0.00
1	4,000.0	89.69	179.47	12,628.9	-1,158.2	-174.5	1,160.8	0.00	0.00	0.00
1	4,100.0	89.69	179.47	12,629.5	-1,258.2	-173.6	1,260.7	0.00	0.00	0.00
1	4,200.0	89.69	179.47	12,630.0	-1,358.1	-172.7	1,360.7	0.00	0.00	0.00
1	4,300.0	89.69	179.47	12,630.6	-1,458.1	-171.8	1,460.7	0.00	0.00	0.00
1	4,400.0	89.69	179.47	12,631.1	-1,558.1	-170.8	1,560.6	0.00	0.00	0.00
1	4,500.0	89.69	179.47	12,631.7	-1,658.1	-169.9	1,660.6	0.00	0.00	0.00
1	4,600.0	89.69	179.47	12,632.2	-1,758.1	-169.0	1,760.6	0.00	0.00	0.00
1	4,700.0	89.69	179.47	12,632.7	-1,858.1	-168.0	1,860.5	0.00	0.00	0.00
1	4,800.0	89.69	179.47	12,633.3	-1,958.1	-167.1	1,960.5	0.00	0.00	0.00
1	4,900.0	89.69	179.47	12,633.8	-2,058.1	-166.2	2,060.5	0.00	0.00	0.00
1	5,000.0	89.69	179.47	12,634.4	-2,158.1	-165.3	2,160.4	0.00	0.00	0.00
	5,100.0	89.69	179.47	12,634.9	-2,258.1	-164.3	2,260.4	0.00	0.00	0.00
1	5,200.0	89.69	179.47	12,635.5	-2,358.1	-163.4	2,360.4	0.00	0.00	0.00
1	5,300.0	89.69	179.47	12,636.0	-2,458.1	-162.5	2,460.3	0.00	0.00	0.00
1	5,400.0	89.69	179.47	12,636.6	-2,558.1	-161.5	2,560.3	0.00	0.00	0.00
1	5,500.0	89.69	179.47	12,637.1	-2,658.1	-160.6	2,660.3	0.00	0.00	0.00
1	5,600.0	89.69	179.47	12,637.7	-2,758.1	-159.7	2,760.2	0.00	0.00	0.00
1	5,700.0	89.69	179.47	12,638.2	-2,858.1	-158.8	2,860.2	0.00	0.00	0.00
1	5,800.0	89.69	179.47	12,638.7	-2,958.1	-157.8	2,960.2	0.00	0.00	0.00
1	5,900.0	89.69	179.47	12,639.3	-3,058.0	-156.9	3,060.1	0.00	0.00	0.00
1	6,000.0	89.69	179.47	12,639.8	-3,158.0	-156.0	3,160.1	0.00	0.00	0.00
1	6,100.0	89.69	179.47	12,640.4	-3,258.0	-155.0	3,260.1	0.00	0.00	0.00
1	6,200.0	89.69	179.47	12,640.9	-3,358.0	-154.1	3,360.0	0.00	0.00	0.00
1	6,300.0	89.69	179.47	12,641.5	-3,458.0	-153.2	3,460.0	0.00	0.00	0.00
1	6,400.0	89.69	179.47	12,642.0	-3,558.0	-152.3	3,560.0	0.00	0.00	0.00
1	6,500.0	89.69	179.47	12,642.6	-3,658.0	-151.3	3,659.9	0.00	0.00	0.00
1	6,600.0	89.69	179.47	12,643.1	-3,758.0	-150.4	3,759.9	0.00	0.00	0.00
	6,700.0	89.69	179.47	12,643.6	-3,858.0	-149.5	3,859.9	0.00	0.00	0.00
	6,800.0	89.69	179.47	12,644.2	-3,958.0	-148.5	3,959.8	0.00	0.00	0.00
	6,900.0	89.69	179.47	12,644.7	-4,058.0	-147.6	4,059.8	0.00	0.00	0.00
	7,000.0	89.69	179.47	12,645.3	-4,158.0	-146.7	4,159.8	0.00	0.00	0.00
1	7,100.0	89.69	179.47	12,645.8	-4,258.0	-145.8	4,259.7	0.00	0.00	0.00
	7,200.0	89.69	179.47	12,646.4	-4,358.0	-144.8	4,359.7	0.00	0.00	0.00
	7,300.0	89.69	179.47	12,646.9	-4,458.0	-143.9	4,459.7	0.00	0.00	0.00
	7,400.0	89.69	179.47	12,647.5	-4,558.0	-143.0	4,559.6	0.00	0.00	0.00
1	7,500.0	89.69	179.47	12,648.0	-4,658.0	-142.0	4,659.6	0.00	0.00	0.00
1	7,600.0	89.69	179.47	12,648.6	-4,758.0	-141.1	4,759.6	0.00	0.00	0.00
1	7,700.0	89.69	179.47	12,649.1	-4,857.9	-140.2	4,859.5	0.00	0.00	0.00
1	7,800.0	89.69	179.47	12,649.6	-4,957.9	-139.3	4,959.5	0.00	0.00	0.00
1	7,900.0	89.69	179.47	12,650.2	-5,057.9	-138.3	5,059.5	0.00	0.00	0.00
1	8,000.0	89.69	179.47	12,650.7	-5,157.9	-137.4	5,159.5	0.00	0.00	0.00
	8,100.0	89.69	179.47	12,651.3	-5,257.9	-136.5	5,259.4	0.00	0.00	0.00

Survey Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Site: GREEN BERET FED COM PROJECT
Well: GREEN BERET FED COM #702H

Wellbore: OWB

Design: PWP1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Database:

Well GREEN BERET FED COM #702H

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

Grid

Minimum Curvature

Measured			Vertical			Vertical	Doulos	Dild	T
меаsured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
18,200.0	89.69	179.47	12,651.8	-5,357.9	-135.5	5,359.4	0.00	0.00	0.00
18,300.0	89.69	179.47	12,652.4	-5,457.9	-134.6	5,459.4	0.00	0.00	0.00
18,400.0	89.69	179.47	12,652.9	-5,557.9	-133.7	5,559.3	0.00	0.00	0.00
18,500.0	89.69	179.47	12,653.5	- 5,657.9	-132.8	5,659.3	0.00	0.00	0.00
18,600.0	89.69	179.47	12,654.0	-5,757.9	-131.8	5,759.3	0.00	0.00	0.00
18,700.0	89.69	179.47	12,654.6	-5,857.9	-130.9	5,859.2	0.00	0.00	0.00
18,800.0	89.69	179.47	12,655.1	-5,957.9	-130.0	5,959.2	0.00	0.00	0.00
18,900.0	89.69	179.47	12,655.6	-6,057.9	-129.0	6,059.2	0.00	0.00	0.00
19,000.0	89.69	179.47	12,656.2	-6,157.9	-128.1	6,159.1	0.00	0.00	0.00
19,100.0	89.69	179.47	12,656.7	-6,257.9	-127.2	6,259.1	0.00	0.00	0.00
19,200.0	89.69	179.47	12,657.3	-6,357.9	-126.3	6,359.1	0.00	0.00	0.00
19,300.0	89.69	179.47	12,657.8	-6,457.9	-125.3	6,459.0	0.00	0.00	0.00
19,400.0	89.69	179.47	12,658.4	-6,557.8	-124.4	6,559.0	0.00	0.00	0.00
19,500.0	89.69	179.47	12,658.9	-6,657.8	-123.5	6,659.0	0.00	0.00	0.00
19,600.0	89.69	179.47	12,659.5	-6,757.8	-122.5	6,758.9	0.00	0.00	0.00
19,700.0	89.69	179.47	12,660.0	-6,857.8	-121.6	6,858.9	0.00	0.00	0.00
19,800.0	89.69	179.47	12,660.5	-6,957.8	-120.7	6,958.9	0.00	0.00	0.00
19,900.0	89.69	179.47	12,661.1	-7,057.8	-119.7	7,058.8	0.00	0.00	0.00
20,000.0	89.69	179.47	12,661.6	-7,157.8	-118.8	7,158.8	0.00	0.00	0.00
20,100.0	89.69	179.47	12,662.2	-7,257.8	-117.9	7,258.8	0.00	0.00	0.00
20,200.0	89.69	179.47	12,662.7	-7,357.8	-117.0	7,358.7	0.00	0.00	0.00
20,249.9	89.69	179.47	12,663.0	-7,407.7	-116.5	7,408.6	0.00	0.00	0.00
TD at 2024	9.9								

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (GREEN BERET - plan misses targ - Circle (radius 50	get center by		12,623.0 t 12559.5u	363.9 sft MD (1250	-188.4 2.6 TVD, 25	409,657.50 2.6 N, -185.5 E)	792,657.80	32° 7' 21.848 N	103° 23' 16.862 W
PBHL (GREEN BERI - plan hits target of - Rectangle (side	center		12,663.0 .0)	-7,407.7	-116.5	401,885.90	792,729.70	32° 6′ 4.941 N	103° 23' 16.818 W
LTP (GREEN BERET - plan misses targ - Point			12,663.0 0199.9usft	-7,357.7 MD (12662.7	-117.0 7 TVD, -7357	401,935.90 7.7 N, -117.0 E)	792,729.20	32° 6' 5.435 N	103° 23' 16.819 W

Survey Report

Company: NORTHERN DELAWARE BASIN

Project: LEA COUNTY, NM

Site: GREEN BERET FED COM PROJECT
Well: GREEN BERET FED COM #702H

Wellbore: OWB

Design: PWP1

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Database:

Well GREEN BERET FED COM #702H

KB=26' @ 3308.4usft (MCVAY 8) KB=26' @ 3308.4usft (MCVAY 8)

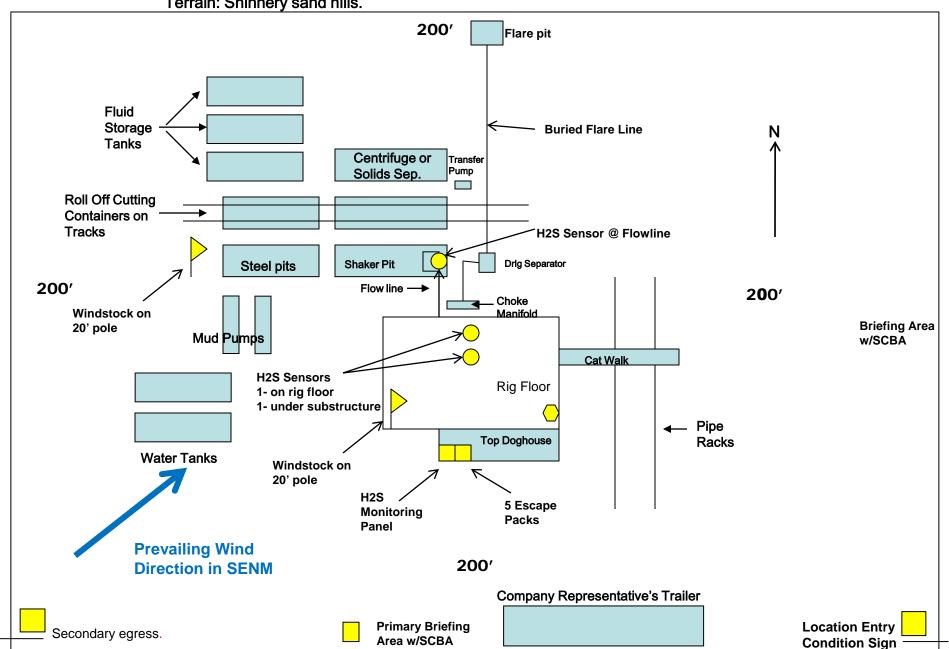
Grid

Minimum Curvature

Plan Annotations				
Measured	Vertical	Local Coor	dinates	
Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
2500	2500	0	0	Start Build 2.00
2635	2635	3	-1	Start 9500.6 hold at 2634.9 MD
12,135	12,125	413	-180	Start DLS 12.00 TFO -156.95
12,904	12,623	-62	-185	Start 7346.4 hold at 12903.6 MD
20,250	12,663	-7408	-117	TD at 20249.9

Checked By:	Approved By:	Date:
1		

Well pad will be 400' x 400' with cellar in center of pad



COG OPERATING LLC HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. <u>HYDROGEN SULFIDE TRAINING</u>

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H2S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H2S zone (within 3 days or 500 feet) and weekly H2S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H2S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. <u>H₂S SAFETY EQUIPMENT AND SYSTEMS</u>

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H2S. If H2S greater than 100 ppm is encountered in the gas stream we will shut in and install H2S equipment.

a. Well Control Equipment:

Flare line.

Choke manifold with remotely operated choke.

Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.

Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- Protective equipment for essential personnel:
 Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
 2 portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems: Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
 The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
 All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

WARNING

YOU ARE ENTERING AN H₂S AREA AUTHORIZED PERSONNEL ONLY

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED
- 2. HARD HATS REQUIRED
- 3. SMOKING IN DESIGNATED AREAS ONLY
- 4. BE WIND CONSCIOUS AT ALL TIMES
- 5. CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE

COG OPERATING LLC

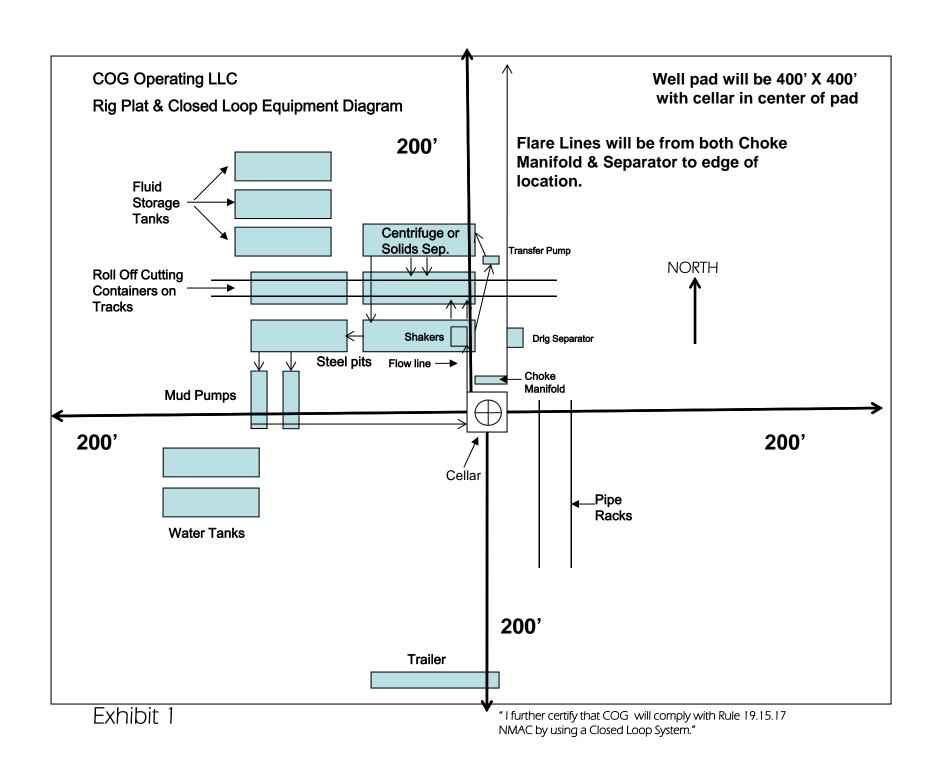
1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
SETH WILD	432-683-7443	432-528-3633
WALTER ROYE	575-748-6940	432-934-1886

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451



DISTRICT I 1625 N. FRENCH DR., HOBBS, NM 86240 Phone: (575) 393-6161 Fax: (575) 393-0720

DISTRICT II 811 S. FIRST ST., ARTESIA, NM 88210 Phone: (575) 748-1283 Fax: (575) 746-9720

State of New Mexico Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR. Santa Fe, New Mexico 87505 Revised August 1, 2011

Revised August 1, 2011

District Office

OCD - HOBBISTA Form C-102

09|29|2020

☐ AMENDED REPORT

3282.4

DISTRICT III 1000 RIO BRAZOS RD., AZTEC, NM 87410 Phone: (505) 334-6178 Fax: (505) 334-6170 DISTRICT IV 1220 S. ST. FRANCIS DR., SANTA FE, NM 67505 Phone: (505) 476-3460 Fax: (505) 476-3462

229137

FROME. (303) 470-3400 Fax: (303) 470-3402	WELL LOCATION AND	ACREAGE DEDICATION PLAT	
API Number	Pool Code	Pool Name	
30-025-47822	17980	Dogie Draw; Wolfcamp	
Property Code	Prop	erty Name	Well Number
329742	GREEN BERE	T FEDERAL COM	702H
OGRID No.	Орег	ator Name	Elevation

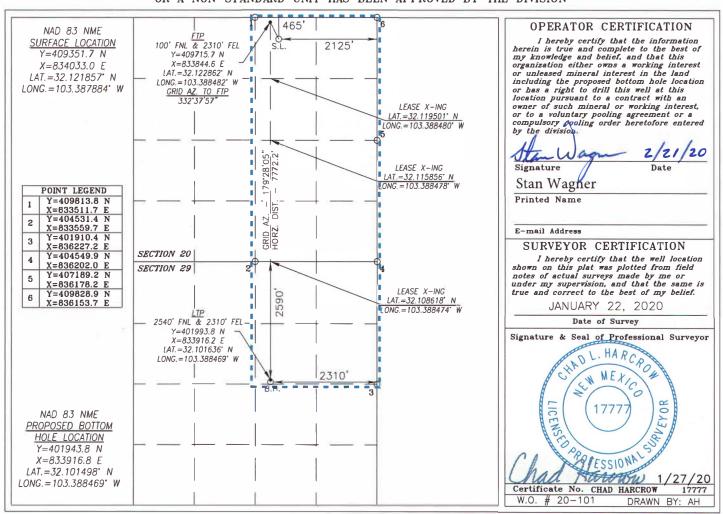
COG OPERATING, LLC Surface Location

UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
В	20	25-S	35-E		465	NORTH	2125	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
G	29	25-S	35-E		2590	NORTH	2310	EAST	LEA
Dedicated Acres	s Joint o	r Infill	Consolidation	Code Or	der No.				

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



Inte	nt X	As Dri	lled											
API 30-	#_30-02 ·025-	25-47822												
Ор	erator Na	me:				Pro	operty	Name	2:					Well Number
СО	G Oper	ating LL0				Gr	een B	eret	Fede	eral C	om			702H
Kick	Off Point	(KOP)												
UL B	Section 20	Township 25S	Range 35E	Lot	Feet		From	N/S	Feet	:	Fror	n E/W	County	
Latit	ude				Longitu	ıde							NAD 83	
	Take Poir													
UL B	Section 20	Township 25S	Range 35E	Lot	Feet 100				Feet From 2310 East		n E/W t	County Lea		
Latite 32.	^{ude} 122862	2			Longitu -103.		3482						NAD 83	
	Take Poin	t (LTP)												
UL G	Section 29	Township 25S	Range 35E	Lot	Feet 2540	Fro No	m N/S rth	Feet 231		From East	E/W	Count Lea	У	
Latitu 32.	^{ide} 101636	}			Longitue -103.		3469					NAD NAC	83	
Is this	well the	defining w	ell for the	e Horiz	ontal Sp	acin	g Unit?		lo]				
s this	well an i	nfill well?		Yes										
f infill Spacir	l is yes plong Unit.	ease provid	de API if a	ıvailab	le, Opera	ator	Name a	and w	ell nu	ımber	for D	efinin	g well fo	r Horizontal
API#	25-													
	ator Nam	ne:				Prop	erty N	ame:			100			Well Number
COG Operating LLC							Green Beret Federal Com						701H	

District I 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Original to Appropriate District Office

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

OCD - HOBBS

GAS CAPTURE PLAN

Date: 2/12/20		
⊠ Original	Operator & OGRID No.:	COG Operating LLC, (229137)
☐ Amended - Reason for Amendment:		

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomplete to new zone, re-frac) activity.

Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).

Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

wen(s) that will be located at the production racinty are shown in the table below.									
Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments			
Green Beret Federal Com 501H	30-025-	B-20-25S-35E	465' FNL & 2095' FEL	±2830	None Planned	APD Submission Plan Subject to change			
Green Beret Federal Com 601H	30-025-	A-20-25S-35E	370' FNL & 760' FEL	±1500	None Planned	APD Submission Plan Subject to change			
Green Beret Federal Com 602H	30-025-	B-20-25S-35E	465' FNL & 2035' FEL	±1500	None Planned	APD Submission Plan Subject to change			
Green Beret Federal Com 701H	30-025-	A-20-25S-35E	370' FNL & 790' FEL	±1500	None Planned	APD Submission Plan Subject to change			
Green Beret Federal Com 702H 30	30-025- - 025-47822	B-20-25S-35E	465' FNL & 2125' FEL	±1500	None Planned	APD Submission Plan Subject to change			
Green Beret Federal Com 801H	30-025-	B-20-25S-35E	465' FNL & 2065' FEL	±3350	None Planned	APD Submission Plan Subject to change			

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to **Versado Gas Processors** and will be connected to **Eunice** low pressure gathering system located in Lea County, New Mexico. COG Operating LLC provides (periodically) to Versado Gas Processors a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, COG Operating LLC and Versado Gas Processors have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Versado Gas Processors Processing Plant located in Sec. 3, Twn. 22S, Rng 37E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Gas Transporter system at that time. Based on current information, it is Operator's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation On lease
 - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas On lease
 - o Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal On lease
 - o Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines